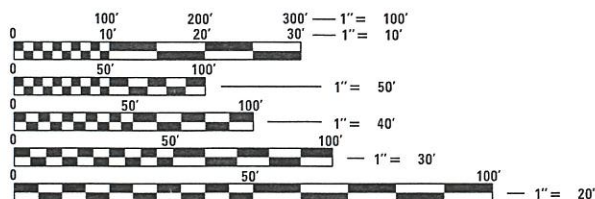


INDEX OF SHEETS

- 1 = COVER SHEET
- 2 = GENERAL NOTES, COMMITMENTS, AND CONTROL
- 3-4 = SUMMARY OF QUANTITIES
- 5 = SCHEDULE OF QUANTITIES
- 6 = PLAN AND PROFILE - TEMPORARY ACCESS ROAD (SOUTH)
- 7 = PLAN AND PROFILE - CAUSEWAY (OPTION 1 & 2)
- 8 = PLAN AND PROFILE - TEMPORARY ACCESS ROAD (NORTH)
- 9 = PLAN AND PROFILE - CAUSEWAY (OPTION 2 - NORTH)
- 10-12 = STORM WATER POLLUTION PREVENTION PLAN
- 13-14 = GENERAL PLAN AND ELEVATION
- 15 = SUBSTRUCTURE REPAIRS AND SEQUENCE
- 16 = PHASE 1: GROUT REPAIRS AND DEBRIS REMOVAL
- 17 = PHASE 1: RIPRAP AND PILE LAYOUT
- 18-26 = PHASE 2: TEMPORARY SUPPORT SYSTEM
- 27 = PHASE 2 & 3: INITIAL AND FINAL JACKING
- 28 = PHASE 2: PIER 1 CONCRETE REMOVAL
- 29 = PHASE 2: PIER 2 CONCRETE REMOVAL
- 30 = PHASE 3: PIER #1 & PIER #2 BEARING MODIFICATIONS
- 31-34 = PHASE 3: PIER 1 DETAILS
- 35-38 = PHASE 3: PIER 2 DETAILS
- 39 = HP PILE DETAILS
- 40 = PHASE 3: BRIDGE DECK REPAIRS
- 41-42 = BORINGS
- 43-79 = EXISTING PLANS
- 80-83 = CROSS SECTIONS - TEMPORARY ACCESS ROAD (SOUTH)
- 84-88 = CROSS SECTIONS - CAUSEWAY (OPTION 1 & 2 - SOUTH)
- 89-90 = CROSS SECTIONS - TEMPORARY ACCESS ROAD (NORTH)
- 91-93 = CROSS SECTIONS - CAUSEWAY (OPTION 2 - NORTH)

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701901-07 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



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

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

PROJECT ENGINEER - PLP
PROJECT MANAGER - BKC
CONTRACT 87683

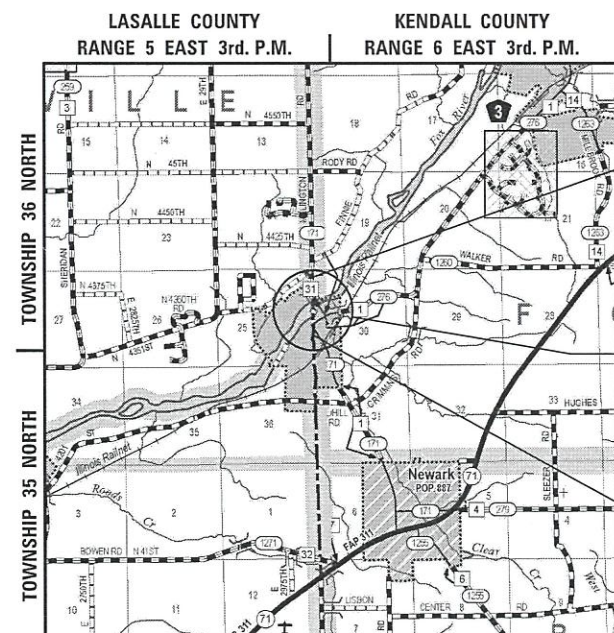
FUNCTIONAL CLASSIFICATION
COLLECTOR
DESIGN SPEED 50 MPH
2018 ADT - 1,719
3R GUIDELINES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLAN FOR PROPOSED FEDERAL AID PROJECT SURFACE TRANSPORTATION RURAL - BRIDGE (FY-18)

FAS 171 (CH 3 - MILLINGTON RD) OVER FOX RIVER
STRUCTURE REHABILITATION
SECTION 17-00802-00-BR
LASALLE COUNTY
SECTION 17-00142-00-BR
KENDALL COUNTY
PROJECT WZPE(199)
C-93-037-18

LOCATION MAP SCALE 0 1 2 4 MILES



CONSTRUCTION ENDS
STATION 22+45

EXISTING STRUCTURE: S.N. 047-3000
A THREE SPAN (148'-10" x 150'-0" x 148'-10")
REINFORCED CONCRETE DECK ON RIVETED P GIRDERS
AND MASONRY PIERS AND CLOSED MASONRY
ABUTMENTS AT STA. 20+00. NO SKEW.

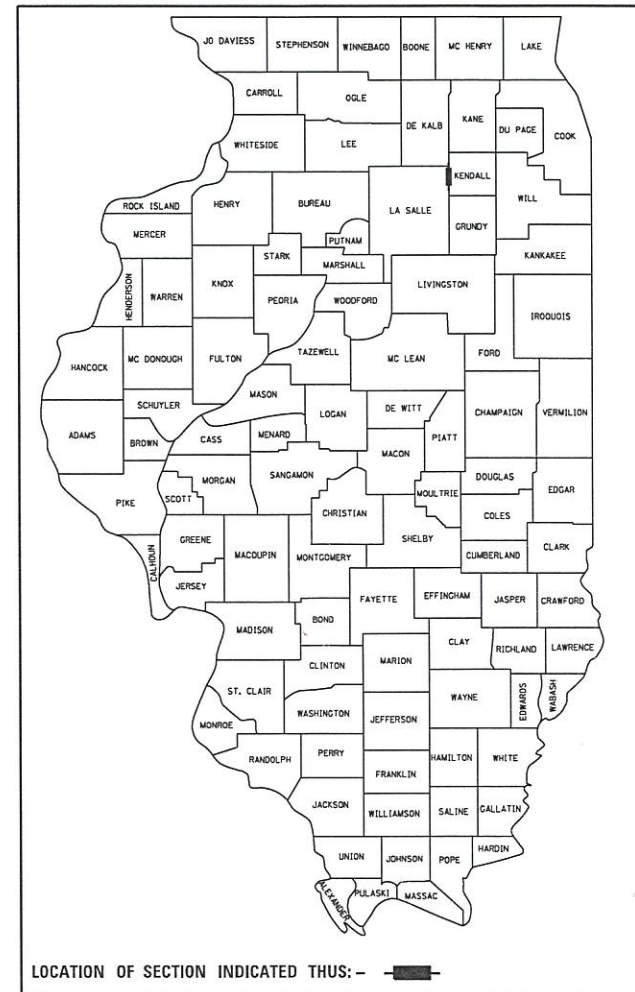
CONSTRUCTION BEGINS
STATION 13+95

GROSS LENGTH = 850 FT. = 0.161 MILE
NET LENGTH = 850 FT. = 0.161 MILE



DATE: 12/19/2017
EXPIRES 11/30/19

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	1
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				



LOCATION OF SECTION INDICATED THUS: -

LASALLE COUNTY HIGHWAY DEPARTMENT	
APPROVED	12-19 2017 <i>James G. Kenja</i> LASALLE COUNTY ENGINEER
KENDALL COUNTY HIGHWAY DEPARTMENT	
APPROVED	December 19, 2017 <i>Jim C. Kenja</i> KENDALL COUNTY ENGINEER
PASSED	1/5/18 2017 <i>Donna R. [Signature]</i> DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER
RELEASING FOR BID BASED ON LIMITED REVIEW	1/5/18 2017 <i>Brian [Signature]</i> REGION 2 ENGINEER

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

GENERAL NOTES

EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

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.

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.

THE LOCATION AND ELEVATION OF THE 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.

ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

1. A LIST OF MATERIALS USED.
2. COPIES OF ALL IDOT MATERIAL CERTIFICATION ASSOCIATED WITH EACH MATERIAL USED.
3. A SIGNED COPY OF ALL MATERIAL TESTING COMPANY RESULTS ON A WEEKLY BASIS. WEEKLY FIELD REPORTS SHALL BE PROVIDED ON THE APPROPRIATE IDOT FORM.
4. A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL GOVERN THE CONSTRUCTION OF THE IMPROVEMENTS.

IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN WILLETT, HOFMANN & ASSOCIATES, INC. OR THEIR DULY AUTHORIZED AGENT.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. THE CONSTRUCTION DETAILS, AS PRESENTED ON THESE PLANS MUST BE FOLLOWED BY THE CONTRACTOR; IMPROVEMENT REPRESENTATIONS AS SHOWN ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES. THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN. EXTREME CAUTION MUST BE EXERCISED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES.

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS ENCOUNTERED, UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE LOCATION AND ELEVATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 FOR EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE. DAMAGE, AND THE COST TO REPAIR SAID DAMAGE, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SAW CUTTING AS STATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, SHALL RESULT IN A NEAT, STRAIGHT LINE WITH NO DAMAGE TO THE EXISTING SURFACE. ANY DAMAGE TO THE EXISTING SURFACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. METHOD OF REPAIR SHALL BE APPROVED BY THE ENGINEER. COST FOR SAW CUTTING SHALL BE INCIDENTAL TO THE CONTRACT.

EXISTING PRIVATE SIGNS, STREET SIGNS, OR TRAFFIC SIGNS THAT ARE WITHIN THE PROJECT CONSTRUCTION LIMITS AND ARE REQUIRED TO BE RELOCATED, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

UTILITY CONTACT INFORMATION

AMEREN ILLINOIS
ATTN: DANIEL KLEIN
340 RACCUGLIA DR.
LASALLE, IL 61301
815-224-6239

AT&T DISTRIBUTION
ATTN: STEVEN PESOLA
E-MAIL: SP9653@ATT.COM
(630) 573-5703 (OFFICE)
(815) 412-5255 (MOBILE)

COMCAST
ATTN: THOMAS MUNAR
688 INDUSTRIAL DRIVE
ELMHURST, ILLINOIS 60126
(630) 600-6316

FRONTIER COMMUNICATION (NORTH)
ATTN: KALIN HINSHAW
112 ELM STREET
SYCAMORE, ILLINOIS 60178
(815) 895-1515

MEDIACOM
ATTN: CHRIS MINARD
6925 GARDEN PRAIRIE RD.
GARDEN PRAIRIE IL 61038
(815) 716-0582

NICOR GAS
ATTN: BRUCE KOPPANG
1844 FERRY ROAD
NAPERVILLE, IL 60563
(630) 388-3830

HORIZONTAL CONTROL

GPS CONTROL POINT #	LASALLE COUNTY FAS 171 (CH 3 - MILLINGTON RD) OVER FOX RIVER STATION 20+00			
	LOCATION	N	E	DESCRIPTION
1	20.2' LT 14+43.06 (MILLINGTON RD.)	1,784,923.505	911,744.387	PK NAIL
2	17.05' RT 17+27.69 (MILLINGTON RD.)	1,785,174.526	911,602.984	5/8" I.P.
3	17.63' RT 22+51.10 (MILLINGTON RD.)	1,785,606.531	911,308.226	5/8" I.P.
4	19.62' LT 26+50.80 (MILLINGTON RD.)	1,785,950.391	911,103.253	5/8" I.P.

VERTICAL CONTROL

LASALLE COUNTY FAS 171 (CH 3 - MILLINGTON RD) OVER FOX RIVER STATION 20+00		
BM #	LOCATION AND DESCRIPTION	ELEV.
400	RR SPIKE IN UTILITY POLE, E. SIDE OF BRIDGE ST. AND RACE ST.	552.97
401	DISK ON S.E. CORNER OF BRIDGE STRUCTURE	564.78
402	CHIS "□" ON N.E. WINGWALL OF BRIDGE STRUCTURE	564.99
403	LEG BOLT IN LIGHT POLE, N.W. CORNER OF MILLINGTON RD. & BELLE RIVE DR.	576.83

COMMITMENTS

THE CONTRACTOR SHALL ADHERE TO THE SPECIAL CONDITIONS SET FORTH IN THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES AND DEPARTMENT OF THE ARMY PERMITS INCLUDING THE FOLLOWING:

1. THE CONTRACTOR IS ENCOURAGED TO CONDUCT CONSTRUCTION ACTIVITIES DURING PERIODS OF LOW FLOW.
2. ALL TREE CLEARING MUST TAKE PLACE BETWEEN OCTOBER 1ST AND MARCH 31ST.
3. THE MAXIMUM TOP ELEVATION OF THE CAUSEWAYS SHALL NOT EXCEED THE ELEVATIONS SHOWN ON THE APPROVED PLANS.
4. CAUSEWAYS SHALL BE REMOVED SHOULD RISING RIVER LEVELS EXCEED AN ELEVATION OF 545.0.
5. ALL TEMPORARY CONSTRUCTION SHALL BE REMOVED FROM THE FOX RIVER WHEN CONSTRUCTION HAS BEEN COMPLETED.
6. CONTRACTOR SHALL SEED OR REPLANT ALL DISTURBED AREAS WITH NATIVE VEGETATION AND TREES.
7. CONTRACTOR SHALL IMPLEMENT APPROPRIATE MEASURES TO INSURE THAT SEDIMENTS ARE NOT INTRODUCED INTO THE WATERS OF THE UNITED STATES DURING CONSTRUCTION.

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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3—MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

GENERAL NOTES, COMMITMENTS & CONTROL

SHEET NO. 1 OF 1 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	2
	17-00142-00-BR	KENDALL		

WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	SOUTH ACCESS	NORTH ACCESS **	BRIDGE (CH3 - MILLINGTON RD)	TOTAL CONSTRUCTION CODE: 0013
			QUANTITY	QUANTITY	QUANTITY	QUANTITY
Δ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	46	22	53	121
Δ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	112	20	50	182
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100			100
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	1,803	1,296	205	3,304
28000400	PERIMETER EROSION BARRIER	FOOT	1,129	273		1,402
* 50102400	CONCRETE REMOVAL	CU YD			194.9	194.9
50200300	COFFERDAM EXCAVATION	CU YD			69	69
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH			1	1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH			1	1
50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH			1	1
50201124	COFFERDAM (TYPE 2) (LOCATION - 4)	EACH			1	1
50300225	CONCRETE STRUCTURES	CU YD			214	214
* 50300265	SEAL COAT CONCRETE	CU YD			72.5	72.5
* 50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND			2,912	2,912
50500505	STUD SHEAR CONNECTORS	EACH			716	716
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND			57,210	57,210
51202100	FURNISHING STEEL PILES HP14X117	FOOT			1,634	1,634
51202305	DRIVING PILES	FOOT			1,634	1,634
51204100	TEST PILE STEEL HP14X117	EACH			2	2
51204650	PILE SHOES	EACH			28	28
52100530	ANCHOR BOLTS, 1 1/4"	EACH			32	32
Δ * 63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH			1	1

Δ SPECIALTY ITEMS

* SEE SPECIAL PROVISIONS

** ESTIMATED QUANTITIES TO BE PAID ONLY IF PIER ACCESS OPTION 2 IS CONSTRUCTED
SEE SPECIAL PROVISIONS FOR PAYMENT INFORMATION AND EXPLANATION OF OPTIONS

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WILLETT HOFMANN
ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET DEKALB, IL 62521-0347
T: 315-293-3381 FAX: 315-293-0018

DESIGNED - MAH	REVISED - -
CHECKED - GFS	REVISED - -
DRAWN - MAH	REVISED - -
CHECKED - GFS	REVISED - -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	3
	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT #ZPE(199) CONTRACT NO. 87683				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	SOUTH ACCESS	NORTH ACCESS **	BRIDGE (CH3 - MILLINGTON RD)	TOTAL CONSTRUCTION CODE: 0013
			QUANTITY	QUANTITY	QUANTITY	QUANTITY
6700050	ENGINEER's FIELD OFFICE, TYPE B	CAL MO			6	6
67100100	MOBILIZATION	L SUM			1	1
* Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH			8	8
* Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT			4	4
* Z0013798	CONSTRUCTION LAYOUT	L SUM			1	1
* Z0015500	DEBRIS REMOVAL	L SUM			1	1
* Z0073410	TEMPORARY SUPPORT SYSTEM, LOCATION 1	EACH			1	1
* Z0073420	TEMPORARY SUPPORT SYSTEM, LOCATION 2	EACH			1	1
Δ A2001316	TREE, ACER SACCHARINUM (SILVER MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2			2
* X0327039	TEMPORARY ACCESS ROAD (SPECIAL)	L SUM	1			1
* X0327286	SUBSTRUCTURE REPAIR (GROUT BAGS)	L SUM			1	1
* X2020410	EARTH EXCAVATION, SPECIAL	CU YD	441	289		730
* X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL ***	TON	3,043 ***	1,883 ***		4,926 ***
Δ * X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.27	0.04	0.56
Δ * X2501750	SEEDING, CLASS 4 (SPECIAL)	ACRE	0.12			0.12
Δ * X2501845	SEEDING, CLASS 7 (SPECIAL)	ACRE	0.13	0.12		0.25
* X2810210	STONE RIPRAP, CLASS A5 (SPECIAL)	TON			900	900
* X4023000	TEMPORARY ACCESS (ROAD)	EACH		1		1
* X4400220	CURB REMOVAL AND REPLACEMENT	FOOT			25	25
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM			1	1

Δ SPECIALTY ITEMS

* SEE SPECIAL PROVISIONS

** ESTIMATED QUANTITIES TO BE PAID ONLY IF PIER ACCESS OPTION 2 IS CONSTRUCTED
SEE SPECIAL PROVISIONS FOR PAYMENT INFORMATION AND EXPLANATION OF OPTIONS

*** POROUS GRANULAR EMBANKMENT, SPECIAL

ACCESS BOTH PIERS FROM SOUTH SIDE OF RIVER (CAUSEWAY OPTION 1)

CAUSEWAY - STA. 1005+50.57 - 1007+83.59
SIDE SPUR (SOUTH PIER)

CAUSEWAY - STA. 1007+83.59 - 1009+33.76
SIDE SPUR (NORTH PIER)

ACCESS SOUTH PIER FROM SOUTH SIDE OF RIVER &
NORTH PIER FROM NORTH SIDE OF RIVER (CAUSEWAY OPTION 2)

CAUSEWAY - STA. 1005+50.57 - 1007+83.59
SIDE SPUR (SOUTH PIER)

CAUSEWAY - STA. 1007+83.59 - 1009+33.76
SIDE SPUR (NORTH PIER)

CAUSEWAY - STA. 6002+25.00 - 6004+51.32
SIDE SPUR (NORTH PIER)

ESTIMATED QUANTITY
FOR PAYMENT (TON)

965
357

1,221
500

3,043

ESTIMATED QUANTITY CHANGE
FROM OPTION 1 (TON)

+ 285
+ 117

- 1,221
- 500

+ 2,341
+ 861

+ 1,883 (TO BE PAID ONLY IF CAUSEWAY
OPTION 2 IS CONSTRUCTED)



WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE
202 EAST 74th STREET CHICAGO, IL 60637-0349
T 312-262-3181 ERESCIN FIRM #184-0009116

DESIGNED - MAH	REVISED -
CHECKED - GFS	REVISED -
DRAWN - MAH	REVISED -
CHECKED - GFS	REVISED -

DESIGNED -	REVISED -
CHECKED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

SUMMARY OF QUANTITIES

SHEET NO. 2 OF 2 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	4
	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT #2PE(199) CONTRACT NO. 87683				

SCHEDULE OF QUANTITIES

NOTE: SEE SPECIAL PROVISIONS FOR BID AND PAYMENT INFORMATION

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410 (CY)	EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTHWORK BALANCE
CAUSEWAY (OPTION 1) CAUSEWAY STA. 1005+50.55 - 1007+83.59	136	102	0	102
ACCESS RD (SOUTH) AGGREGATE SURFACE COURSE REMOVAL	305			
TOTAL	441	102	0	102
CAUSEWAY (OPTION 2) CAUSEWAY STA. 6002+25.00 - 6004+51.32	89	67	0	67
ACCESS RD (NORTH) AGGREGATE SURFACE COURSE REMOVAL	200			
TOTAL	289	67	0	67
TOTAL	730	169	0	169

TREE REMOVAL (6 TO 15 UNIT DIAMETER)		
STATION	UNIT	REMARKS
ACCESS RD (SOUTH)		
10' RT 1002+39	14	
8' RT 1002+54	7	
9' RT 1002+65	12	
12' LT 1002+92	6	
12' RT 1002+92	7	
SUB-TOTAL	46	
ACCESS RD (NORTH)		
6' LT 6000+32	10	
26' RT 6000+52	12	
SUB-TOTAL	22	
CH 3 (MILLINGTON RD.)		
30' LT 17+32	8	
60' RT 22+10	6	
42' RT 22+15	8	
41' RT 22+16	6	
42' RT 22+17	7	
60' RT 22+20	12	
33' RT 22+22	6	
SUB-TOTAL	53	
PROJECT TOTAL	121	
20100110		

TREE REMOVAL (OVER 15 UNIT DIAMETER)		
STATION	UNIT	REMARKS
ACCESS RD (SOUTH)		
11' RT 1001+33	28	
11' RT 1004+32	32	
SUB-TOTAL	60	
CAUSEWAY OPTION 1		
0' RT 1005+92	18	
4' RT 1006+23	34	
SUB-TOTAL	52	
ACCESS RD (NORTH)		
5' RT 6000+09	20	
SUB-TOTAL	20	
CH 3 (MILLINGTON RD.)		
29' LT 17+33	20	
37' RT 22+29	30	
SUB-TOTAL	50	
PROJECT TOTAL	182	
20100210		

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		
STATION	CU YD	REMARKS
ENTIRE PROJECT	100	
PROJECT TOTAL	100	
20201200		

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
ACCESS RD (SOUTH) RT & LT 1000+48 - 1006+80	1,803	
ACCESS RD (NORTH) RT & LT 6000+00 - 6002+49	1,296	
CH 3 (MILLINGTON RD.) RT 22+21 - 24+05	205	
PROJECT TOTAL	3,304	
25100630		

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
ACCESS RD (SOUTH) RT 1000+47 - 1005+92 LT 1000+49 - 1006+47 SUB-TOTAL	592 537 1,129	
ACCESS RD (NORTH) RT 6000+00 - 6001+75 LT 6000+10 - 6001+75 SUB-TOTAL	186 87 273	
PROJECT TOTAL	1,402	
28000400		

REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6		
STATION	EACH	REMARKS
CH 3 (MILLINGTON RD.) LT 17+35	1	
PROJECT TOTAL	1	
63302700		

TREE, ACER SACCHARINUM (SILVER MAPLE) 2" CALIPER, BALLED AND BURLAPPED		
STATION	EACH	REMARKS
ACCESS RD (SOUTH) 104+32 - 1006+00	2	WITHIN FORESTED WETLAND AREA
PROJECT TOTAL	2	
A2001316		

SEEDING, CLASS 2 (SPECIAL)		
STATION	ACRE	REMARKS
ACCESS RD (SOUTH) 1000+35.72 - 1004+87	0.25	
ACCESS RD (NORTH) 6000+00 - 6002+49	0.27	
CH 3 (MILLINGTON RD.) RT 22+21 - 24+05	0.04	
PROJECT TOTAL	0.56	
X2501000		

SEEDING, CLASS 4 (SPECIAL)		
STATION	ACRE	REMARKS
ACCESS RD (SOUTH) 1004+32 - 1006+80	0.12	
PROJECT TOTAL	0.12	
X2501750		

SEEDING, CLASS 7 (SPECIAL)		
STATION	ACRE	REMARKS
ACCESS RD (SOUTH) LT & RT 1000+35.72 - 1006+00	0.13	
ACCESS RD (NORTH) LT & RT 6000+00 - 6002+49	0.12	
PROJECT TOTAL	0.25	
X2501845		

CURB REMOVAL AND REPLACEMENT		
STATION	FOOT	REMARKS
CH 3 (MILLINGTON RD.) LT 17+20 - 17+45	25	
PROJECT TOTAL	25	
X4400220		

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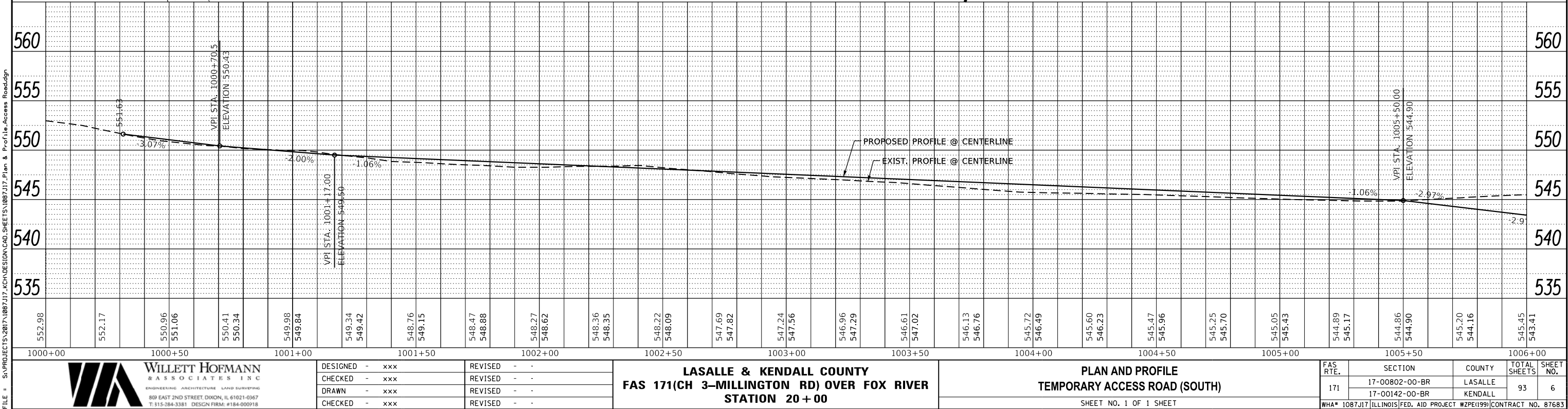
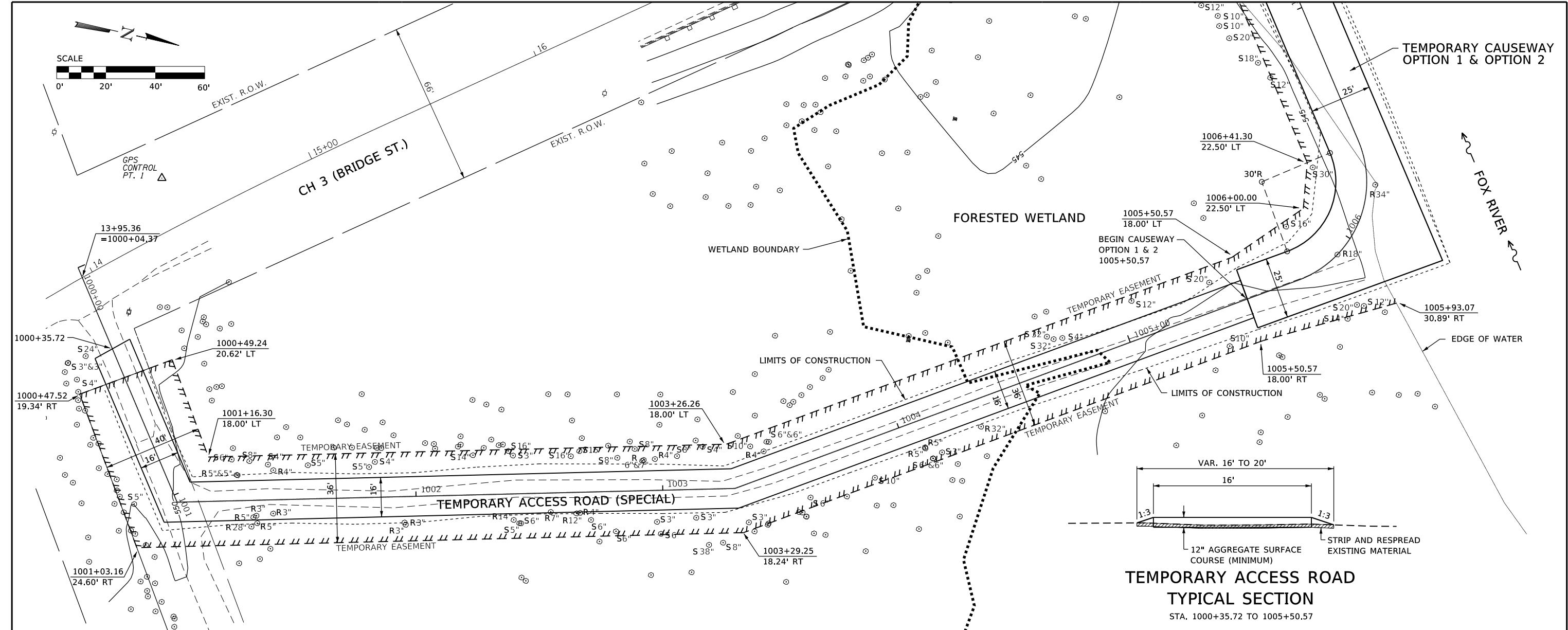
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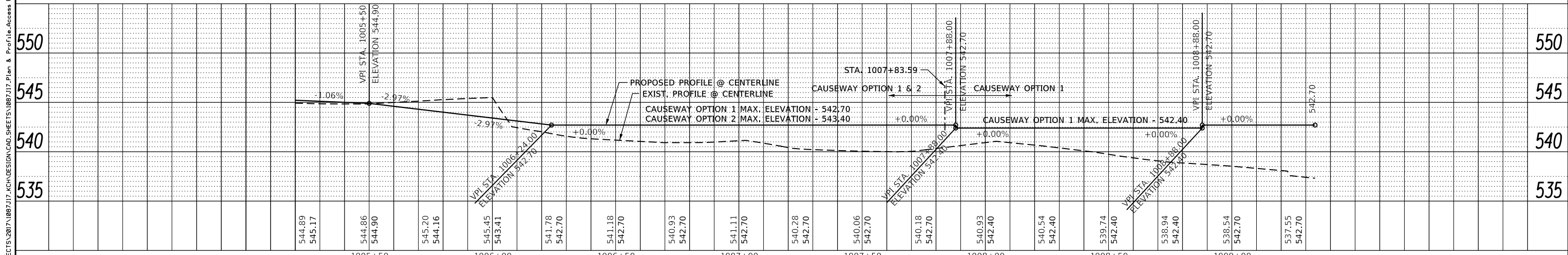
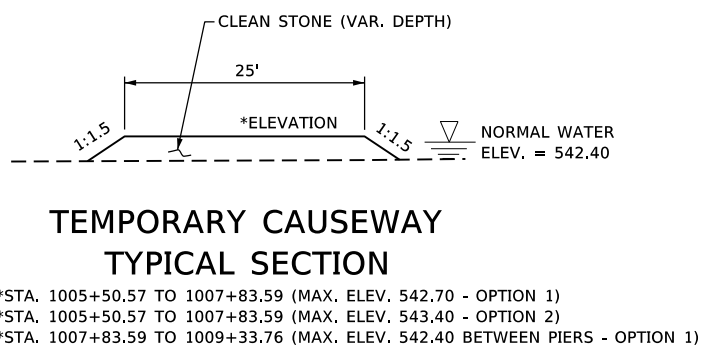
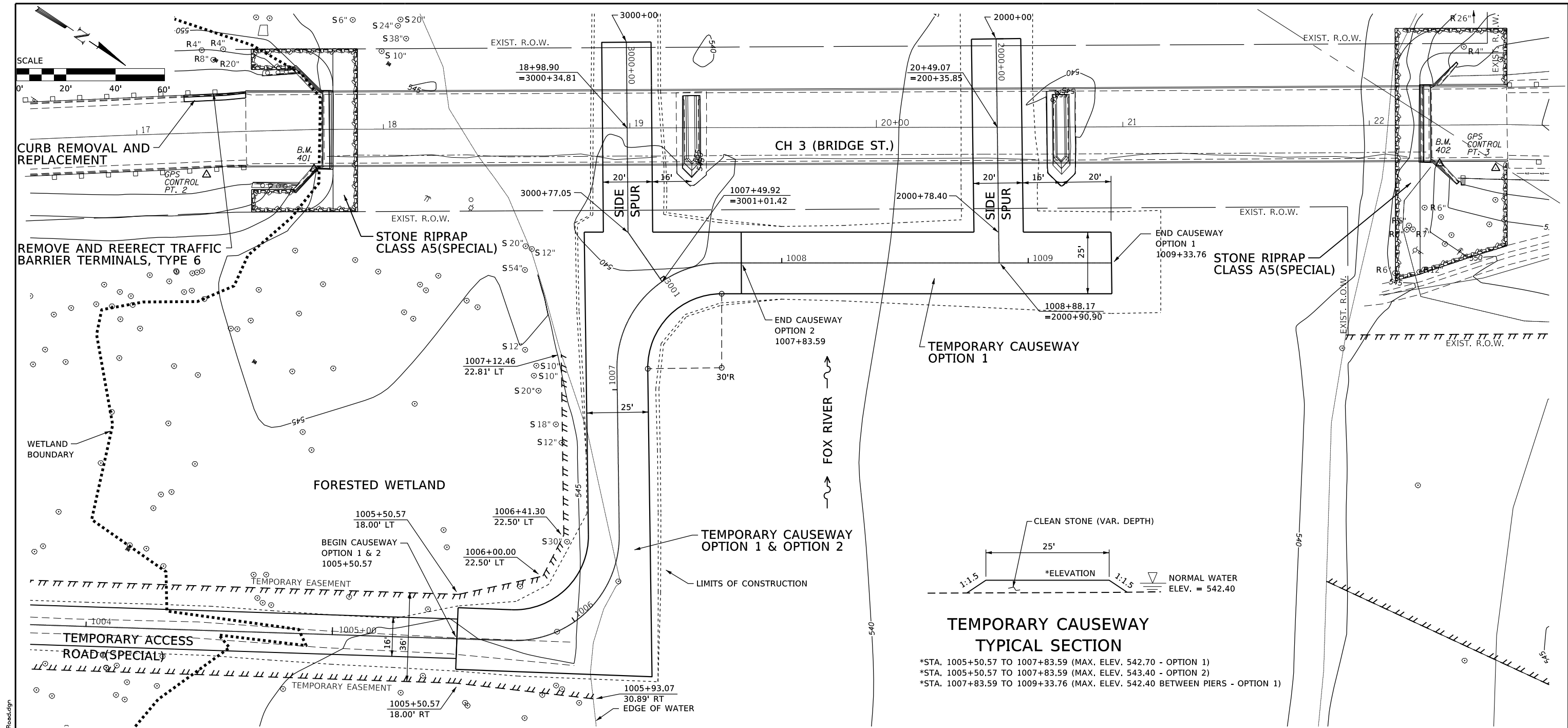
LASALLE & KENDALL COUNTY
FAS 171(CH 3—MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

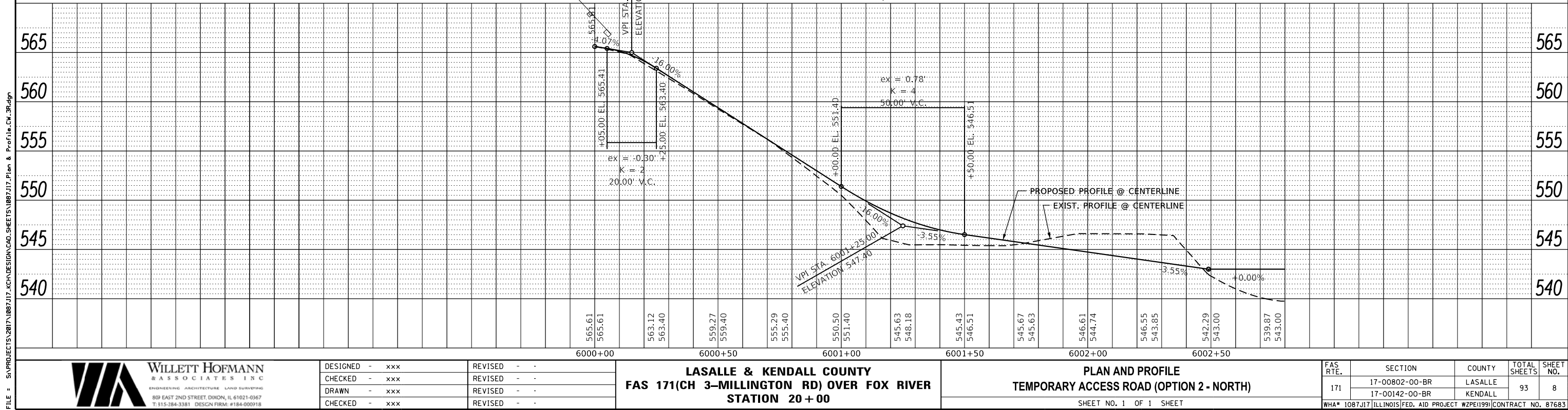
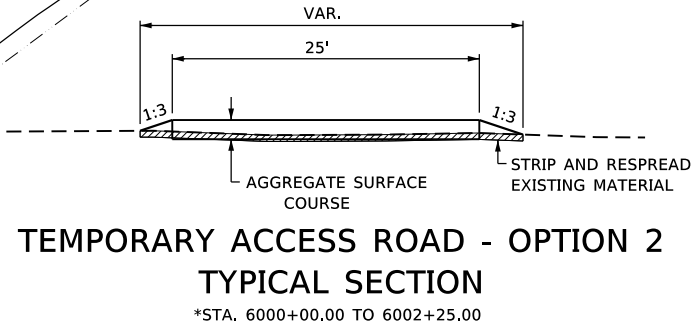
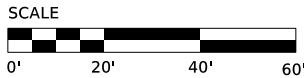
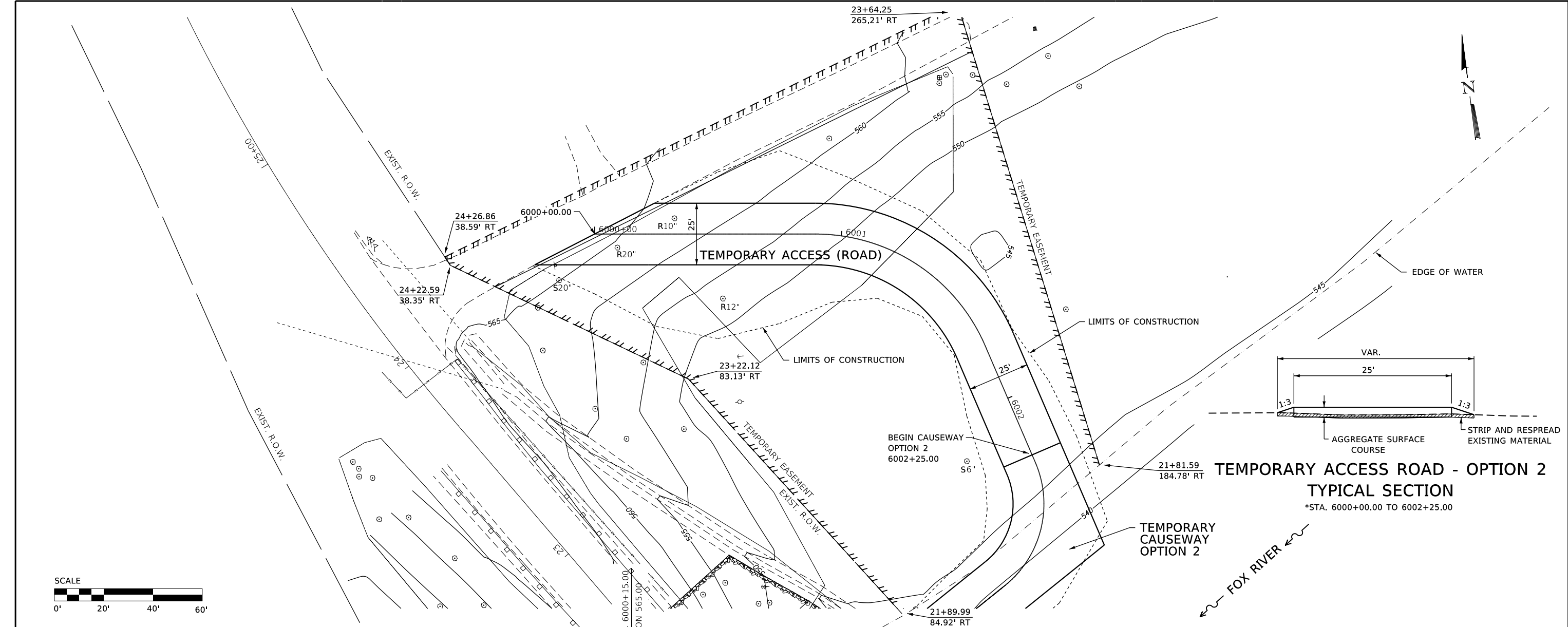
SCHEDULE OF QUANTITIES

SHEET NO. 1 OF 1 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR 17-00142-00-BR	LASALLE KENDALL	93	5
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				







FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD\SHEETS\1087J17_Plan & Profile_CW_3R.dgn



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LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

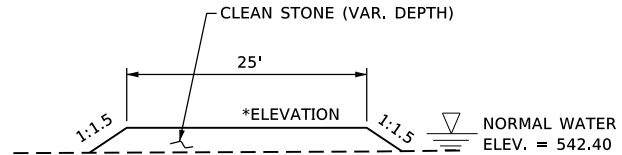
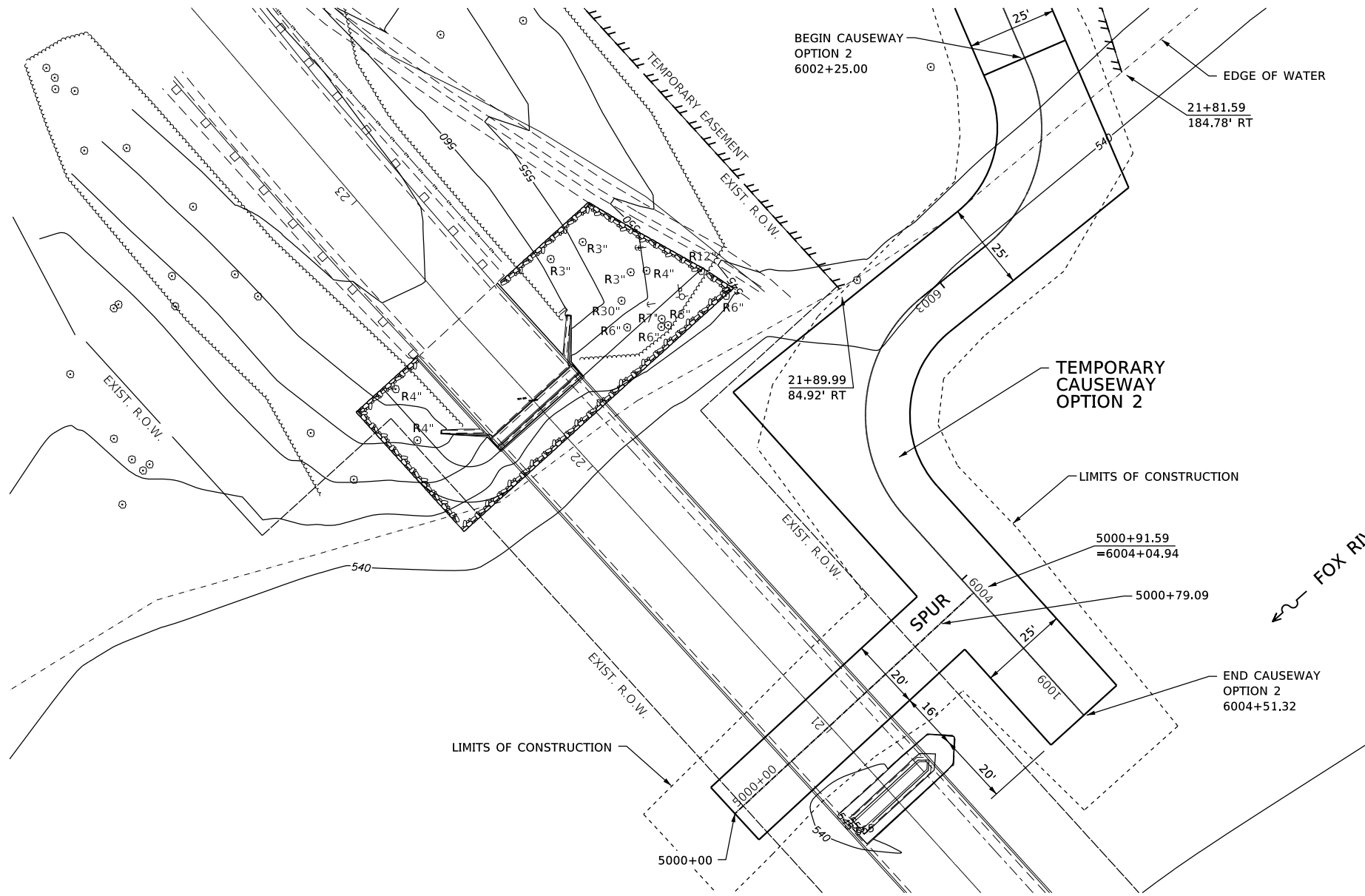
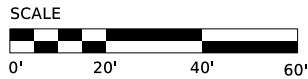
PLAN AND PROFILE
TEMPORARY ACCESS ROAD (OPTION 2 - NORTH)

SHEET NO. 1 OF 1 SHEET

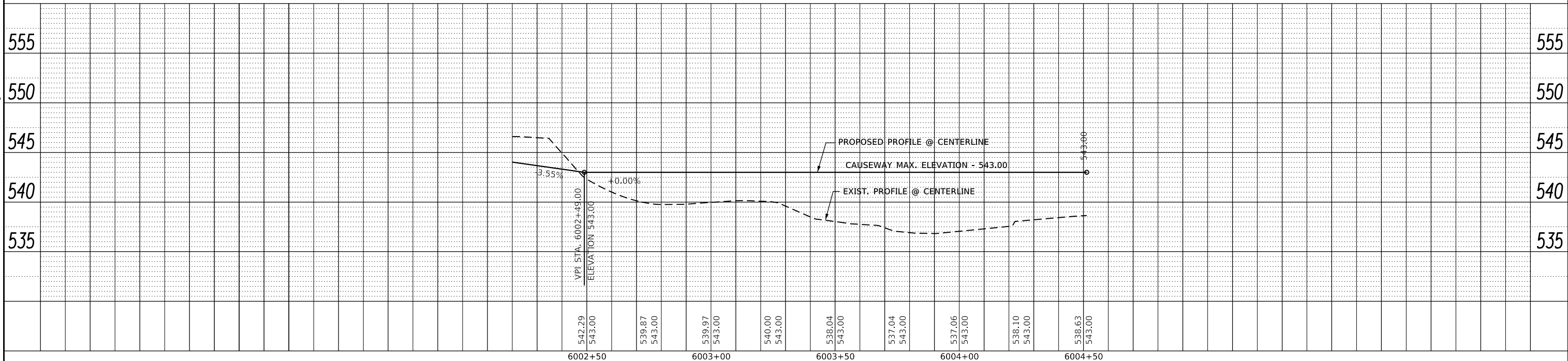
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE1199 CONTRACT NO. 87683

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**TEMPORARY CAUSEWAY (OPTION 2)
TYPICAL SECTION**
*STA. 6002+25.00 TO 6004+51.32 (MAX. ELEV. 543.00)



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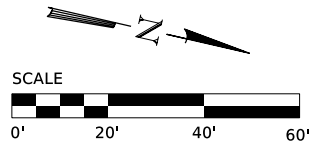
**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**

**PLAN AND PROFILE
CAUSEWAY (OPTION 2 - NORTH)**

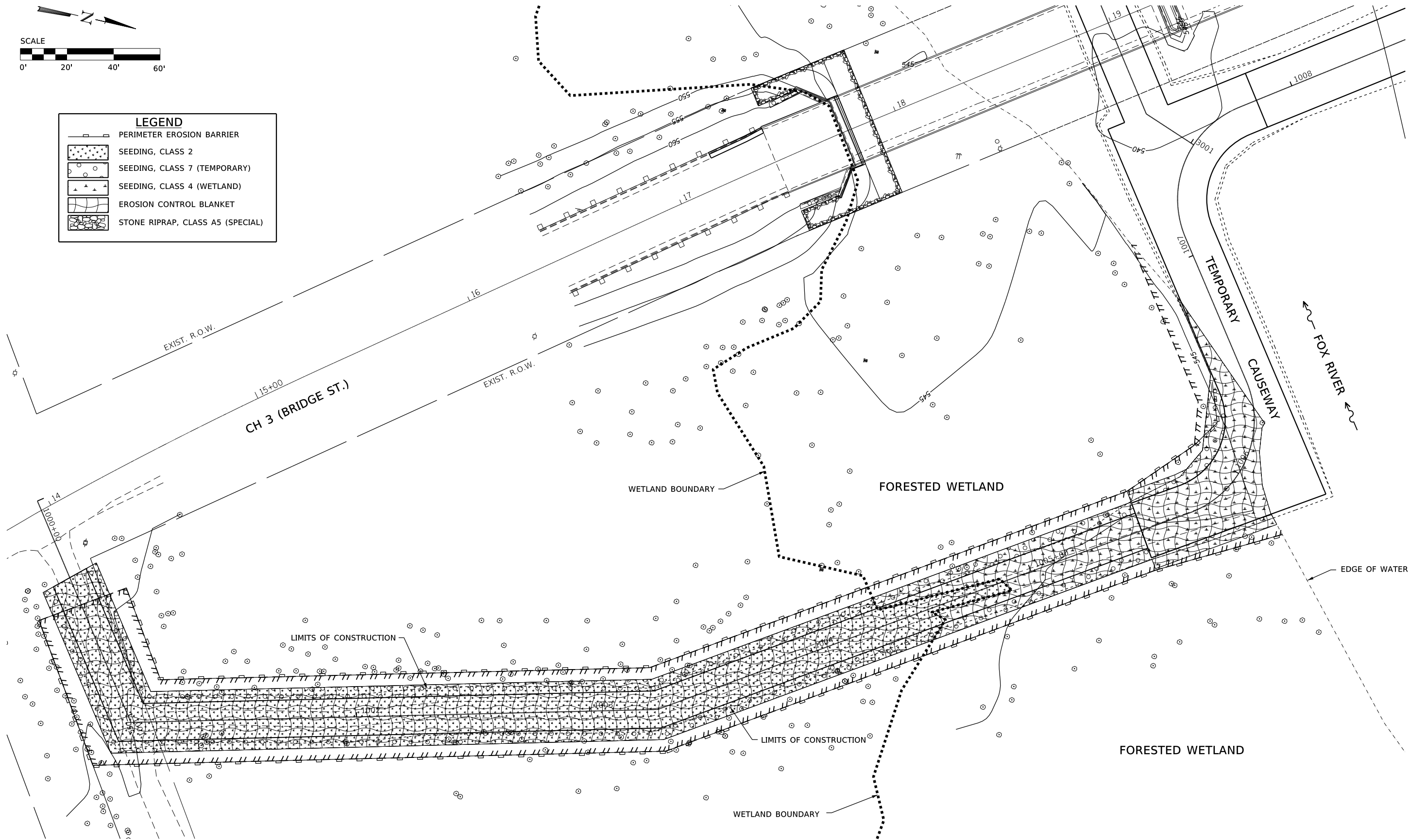
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	9
171	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



LEGEND	
	PERIMETER EROSION BARRIER
	SEEDING, CLASS 2
	SEEDING, CLASS 7 (TEMPORARY)
	SEEDING, CLASS 4 (WETLAND)
	EROSION CONTROL BLANKET
	STONE RIPRAP, CLASS A5 (SPECIAL)



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**WILLETT HOFMANN
& ASSOCIATES, INC.**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-00018

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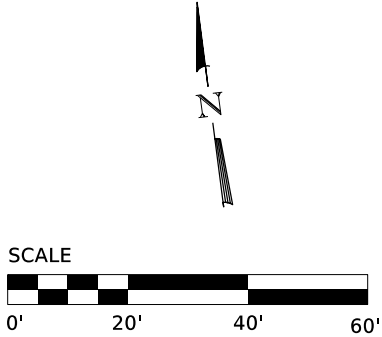
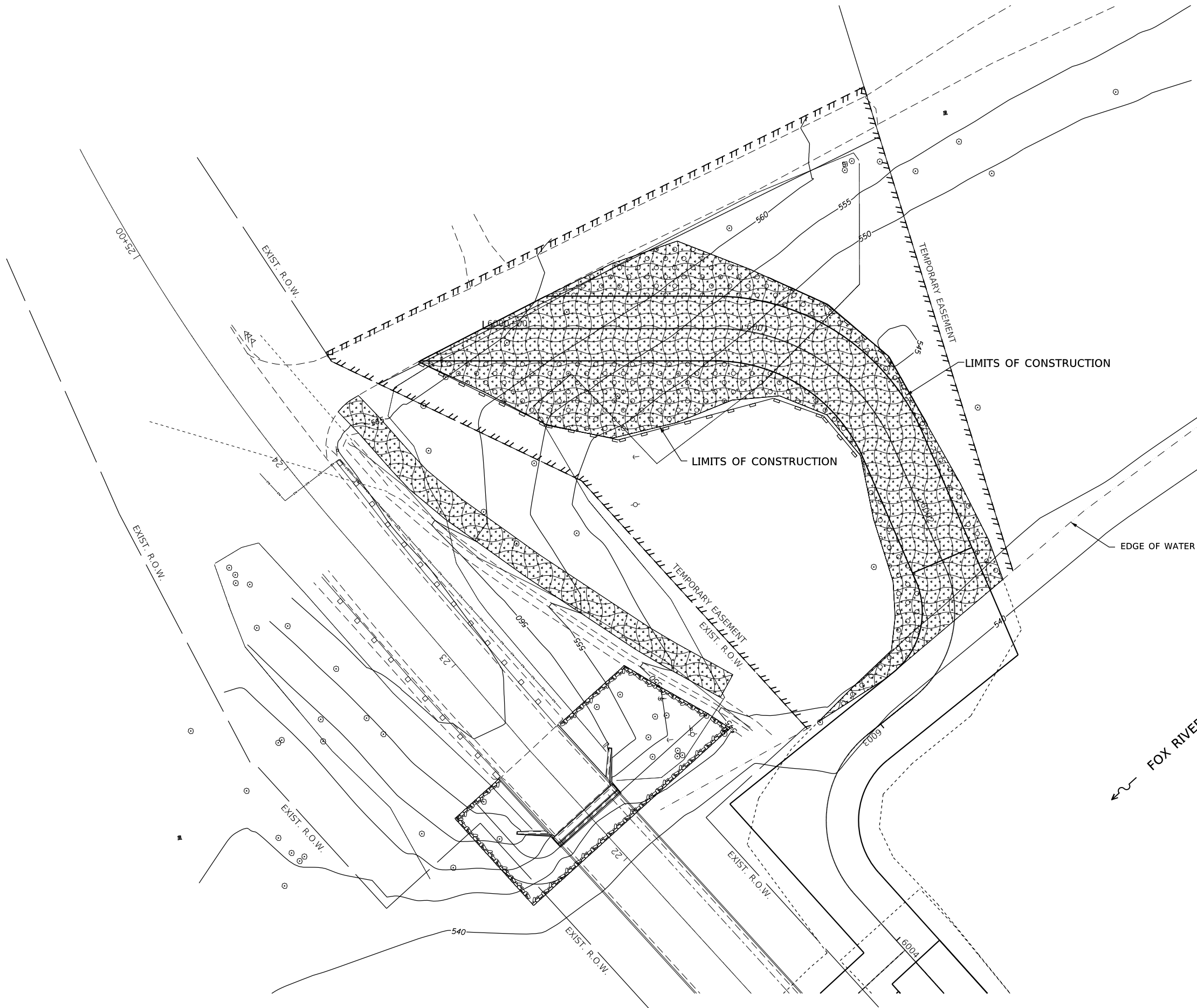
**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**

**STORM WATER POLLUTION PREVENTION PLAN
TEMPORARY ACCESS ROAD (SOUTH)**

SHEET NO. 1 OF 3 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	10
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



LEGEND

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2
- SEEDING, CLASS 7 (TEMPORARY)
- SEEDING, CLASS 4 (WETLAND)
- EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A5 (SPECIAL)

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WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 515-284-3381 DESIGN FIRM: #184-000918

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LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

STORM WATER POLLUTION PREVENTION PLAN
TEMPORARY ACCESS ROAD (OPTION 2 - NORTH)

SHEET NO. 2 OF 3 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	11
	17-00142-00-BR	KENDALL		

WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683

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STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

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

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

THE PROJECT CONSISTS OF BRIDGE PIER SCOUR MITIGATION ON MILLINGTON RD. (C.H. 3) OVER THE FOX RIVER & SLOPE ARMORING AT BOTH ABUTMENTS.

CONSTRUCTION INCLUDES CONSTRUCTING TEMPORARY ACCESS ROADS AND CAUSEWAYS FROM THE SHORE LINE AND PLACING OF RIP RAP AT BRIDGE ABUTMENTS.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. INSTALL PERIMETER EROSION BARRIER AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. CONSTRUCT ACCESS ROADS AND CAUSEWAYS.
3. PERFORM SCOUR MITIGATION AT BRIDGE PIERS.
4. EARTH EXCAVATION AND PLACEMENT OF RIP RAP.
5. REMOVAL OF ACCESS ROADS AND CAUSEWAYS.
6. PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING, AND EROSION CONTROL BLANKET.

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.28 ACRES OF WHICH 1.28 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.

PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

FOX RIVER

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION.

THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, PERIMETER EROSION BARRIER, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.

DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

(D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

(E) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.

2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

(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 14 DAYS.

(C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:

I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.

II. TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.

(D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

(E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

(F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL 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 WORK IS NECESSARY.

(G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

(H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEDED.

MAINTENANCE AFTER CONSTRUCTION

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE ENGINEER'S FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

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.

WETLAND RESTORATION NOTES

PERIMETER EROSION BARRIER SHALL BE PLACED ALONG THE LIMITS OF CONSTRUCTION OF THE TEMPOARY ACCESS ROAD PRIOR TO THE START OF CONSTRUCTION.

TREES IN THE FORESTED WETLAND REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW TREES OF SIMILAR SPECIES AS IDENTIFIED IN THE WETLAND AND WATERWAY INVESTIGATION. TREE REPLACEMENT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER OR A REPRESENTATIVE OF THE FOREST PRESERVE. ALL NEW TREES WILL BE PLANTED WITHIN THE DISTURBED AREAS OF THE FORESTED WETLAND.

NO TREE REMOVAL SHALL BE COMPLETED BETWEEN APRIL 1ST. AND SEPTEMBER 30TH.

ALL MATERIAL IN THE FORESTED WETLAND EXCAVATED DURING THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD SHALL BE STOCKPILED ONSITE AND RESPREAD AFTER THE TEMPORARY ACCESS ROAD IS REMOVED. MATERIAL SHALL BE REGRADED TO THE ORIGINAL GROUND CONTOURS.

ALL AGGREGATE MATERIAL USED IN THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD SHALL BE EXCAVATED AND REMOVED FROM THE FORESTED WETLAND AND HAULED OFFSITE.

APPROXIMATELY 0.12 ACRES OF FORESTED WETLAND WILL BE DISTURBED DURING CONSTRUCTION. ALL DISTURBED AREAS WILL BE REPLANTED WITH NATIVE WETLAND VEGETATION AS IDENTIFIED IN THE WETLAND AND WATERWAY INVESTIGATION.



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

DESIGNED - MAH
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CHECKED - GFS

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REVISED -
REVISED -
REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3—MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

STORM WATER POLLUTION PREVENTION PLAN

SHEET NO. 3 OF 3 SHEETS

FAS
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

171

17-00802-00-BR

LASALLE

93

12

17-00142-00-BR

KENDALL

WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683

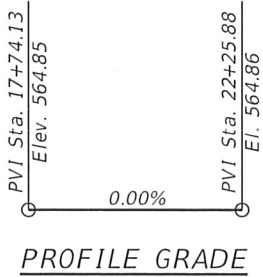
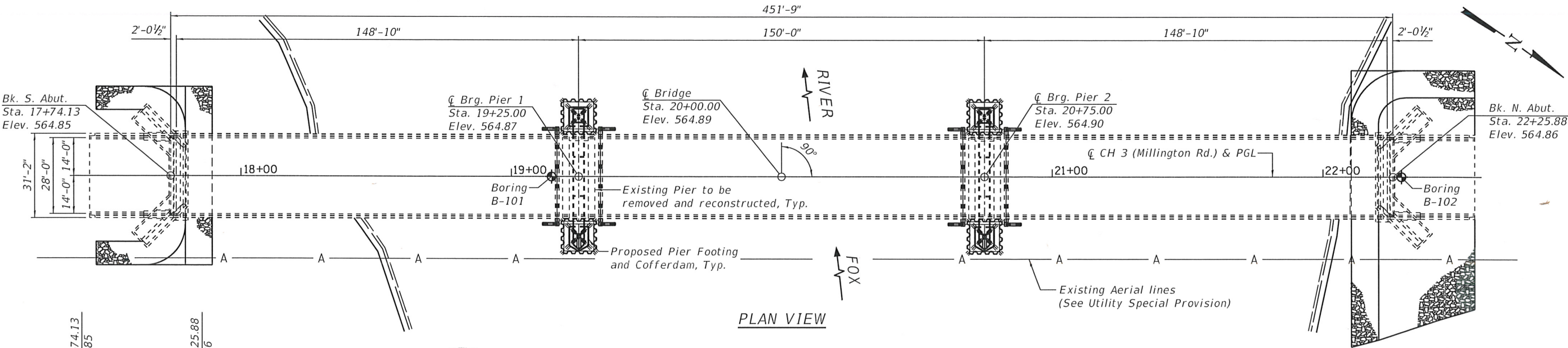
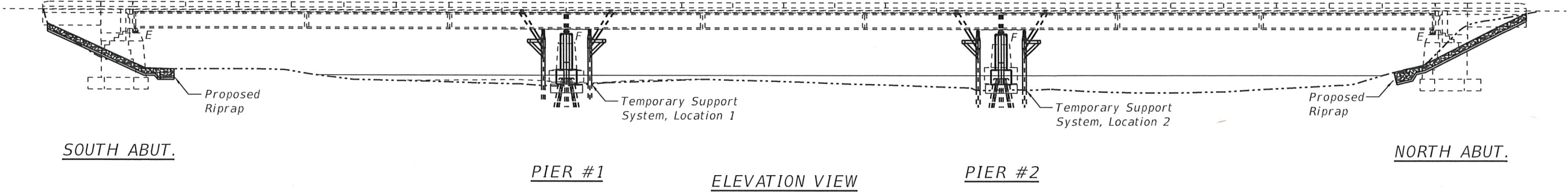
EXISTING STRUCTURE DESCRIPTION:

The existing bridge is a three-span reinforced concrete deck bridge supported by riveted plate girders. The total length back to back of abutments is 451'-9". The spans are: 148'-10", 150'-0" and 148'-10". The out to out width of the structure is 25'-8". The substructure consists of closed masonry abutments and solid masonry piers supported on spread footings. The structure was built as Millington Bridge, Section B at Sta. 16+15.48 in 1958. The deck was replaced and widened and incorporate New Jersey Type Parapet walls. The existing girders were strengthened and made composite in positive moment areas to provide HS20 capacity. Neoprene expansion Joints were also be provided. Abutments and piers were repaired and widened and new wing walls were constructed.

The existing piers are to be removed and replaced.

No salvage.

Bench Mark 402: Chis. "□" on N.E. wing of structure
15.7' Lt of Sta. 21+71.5, Elev. 564.99



DATE: *Brian K. Conner*
EXPIRES 11/30/18

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

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design
Specifications, 7th Edition with 2016 Interims

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

SUBSTRUCTURE (NEW CONSTRUCTION)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

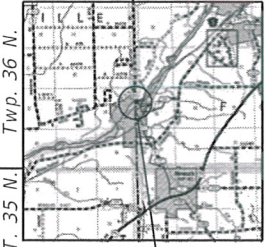
DECK & REHAB SUPERSTRUCTURE (2000)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 30,000$ psi (M270 Gr. 36 Structural Elements)

EXISTING STRUCTURE (1957)

$f'_c = 1,400$ psi (Super. & Sub. Structural No Earth Pressure)
 $f'_c = 1,000$ psi (Sub. with Earth Pressure)
 $n = 10$
 $f_s = 20,000$ psi (Reinforcement)
 $f_y = 33,000$ psi Struct. (A.S.T.M. A33)

LaSalle Co. | Kendall Co.
R. 5 E. of | R. 6 E. of
3rd P.M. | 3rd P.M.



Bridge Location
LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MILLINGTON ROAD OVER FOX RIVER

F.A.S. RTE. 171

SECTION 17-00802-00-BR/17-00142-00-BR

LASALLE & KENDALL COUNTY

STATION 20+00

STRUCTURE NO. 047-3000

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.095
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.168
Soil Site Class = D

WATERWAY INFORMATION
Drainage Area ----- 2,093 Sq. Mi.
Character Level, Wooded, Cultivated & Swampy
Required Opening (15 Yr. flood) 3,525 Sq. Ft.
Present Opening ----- 5,180 Sq. Ft.
Proposed Opening ----- 5,180 Sq. Ft.



DESIGNED - BKC
CHECKED - PLP
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

STRUCTURAL SHEET NO. 1 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	13
	17-00142-00-BR	KENDALL		

WHA 1087J17 ILLINOIS FED. AID PROJECT W2PE1199 CONTRACT NO. 87683

GENERAL NOTES:

1. Fasteners shall be high strength bolts. Bolts ¾" Ø, open holes 13⁄16" Ø, unless otherwise noted.
2. Calculated weight of Structural Steel AASHTO M270, Grade 50 = 118,210 lb.
3. Field welding of construction accessories will not be permitted to the tension flange or web of existing riveted plate beams or girders. Field welding in other areas will be permitted only when approved by the Engineer.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for work.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1⁄8" (0.01'). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Paint Repair of structural steel shall be done per Special Provisions for Temporary Support System
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
10. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
11. Two 1⁄8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
12. Concrete Removal of the piers shall be executed with use of defined saw cuts. The use of drilling or other means of pier splitting shall not be allowed. See Special Provisions for Concrete Removal.
13. The Contractor shall take all necessary measures to ensure that no debris falls in the Fox River. The cost of this work shall be included with Temporary Support System.
14. The Contractor is advised that the existing structure contains a sinking pier that is in a deteriorated condition with reduced load carrying capacity. See Special Provisions for restrictions on loads on the bridge. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure.

INDEX OF SHEETS

- 1-2. GENERAL PLAN AND ELEVATION
3. SUBSTRUCTURE REPAIRS AND SEQUENCE
4. PHASE 1: GROUT REPAIRS AND DEBRIS REMOVAL
5. PHASE 1: RIPRAP AND PILE LAYOUT
- 6-14. PHASE 2: TEMPORARY SUPPORT SYSTEM
15. PHASE 2 & 3: INITIAL AND FINAL JACKING
16. PHASE 2: PIER 1 CONCRETE REMOVAL
17. PHASE 2: PIER 2 CONCRETE REMOVAL
18. PHASE 3: PIER #1 & PIER #2 BEARING MODIFICATIONS
- 19-22. PHASE 3: PIER 1 DETAILS
- 23-26. PHASE 3: PIER 2 DETAILS
27. HP PILE DETAILS
28. PHASE 3: BRIDGE DECK REPAIRS
- 29-30. BORING LOGS
- 31-67. EXISTING PLANS

 or  or  or similar indicates Detail X on Structural Sheet Y of 67

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER.	SUB.	TOTAL
*	Concrete Removal	Cu. Yd.	—	194.9	194.9
	Cofferdam Excavation	Cu. Yd.	—	69	69
	Cofferdam (Type 2) (Location - 1)	Each	—	1	1
	Cofferdam (Type 2) (Location - 2)	Each	—	1	1
	Cofferdam (Type 2) (Location - 3)	Each	—	1	1
	Cofferdam (Type 2) (Location - 4)	Each	—	1	1
	Concrete Structures	Cu. Yd.	—	214	214
	Seal Coat Concrete	Cu. Yd.	—	72.5	72.5
*	Furnishing and Erecting Structural Steel	Pound	—	2,912	2,912
	Stud Shear Connectors	Each	—	716	716
	Reinforcement Bars, Epoxy Coated	Pound	—	57210	57210
	Furnishing Steel Piles HP14x117	Foot	—	1634	1634
	Driving Piles	Foot	—	1634	1634
	Test Pile Steel HP14x117	Each	—	2	2
	Pile Shoes	Each	—	28	28
	Anchor Bolts, 1¼"	Each	—	32	32
*	Jack and Remove Existing Bearings	Each	—	8	8
	Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	4	—	4
*	Debris Removal	L. Sum	—	1	1
	Temporary Support System, Location 1	Each	—	1	1
*	Temporary Support System, Location 2	Each	—	1	1
	Substructure Repair (Grout Bags)	L. Sum	—	1	1
*	Stone Riprap, Class A5 (Special)	Ton	—	900	900

*See Special Provisions

GENERAL DATA
MILLINGTON ROAD OVER FOX RIVER
F.A.S. RTE. 171
SECTION 17-00802-00-BR/17-00142-00-BR
LASALLE & KENDALL COUNTY
STATION 20+00
STRUCTURE NO. 047-3000

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

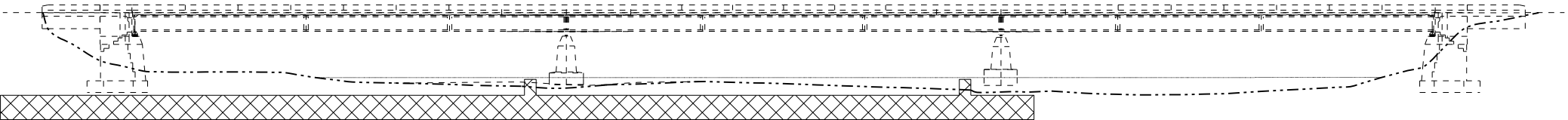
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CHECKED	-	PLP	REVISED	-
DRAWN	-	RDA	REVISED	-
CHECKED	-	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3—MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

STRUCTURAL SHEET NO. 2 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	14
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE1199 CONTRACT NO. 87683				

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SOUTH ABUTMENT

EXISTING PIER 1

EXISTING PIER 2

NORTH ABUTMENT

PHASE 1: MOBILIZATION

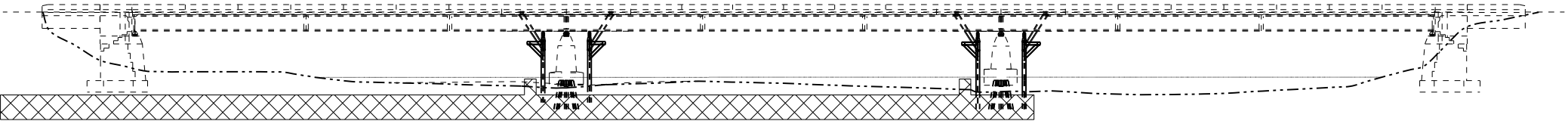
PROPOSED CONSTRUCTION SEQUENCE:

PHASE 1: MOBILIZATION

- 1) Install Causeway
- 2) Perform Grout Repair & Remove Debris
- 3) Drive Piles for Temporary Support System, Location 2
- 4) Drive Piles for Temporary Support System, Location 1

STRUCTURAL
SHEETS

4-6



SOUTH ABUTMENT

TEMPORARY SUPPORT SYSTEM,
LOCATION 1

TEMPORARY SUPPORT SYSTEM,
LOCATION 2

NORTH ABUTMENT

PHASE 2: TEMPORARY PIER CONSTRUCTION AND JACKING

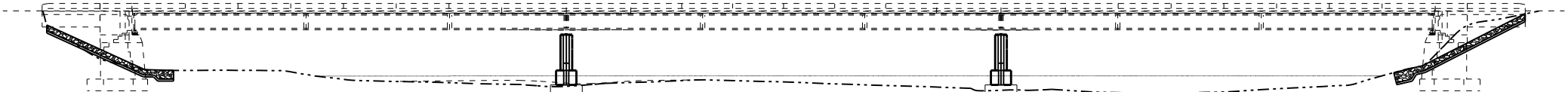
PROPOSED CONSTRUCTION SEQUENCE:

PHASE 2: TEMPORARY PIER CONSTRUCTION AND JACKING

- 5) Erect Steel for Temporary Support System, Location 2
- 6) Jack girders to transfer bridge support to Temporary Support System, Location 2
- 7) Remove designated/remaining portions of Existing Pier 2 (including designated grout bags)
- 8) Drive Proposed Pier 2 Piles
- 9) Drive and install Proposed Pier 2 Cofferdam sheets
- 10) At Pier 1, preform Steps 5-9 for Temporary Support System, Location 1 simultaneously with Location 2

STRUCTURAL
SHEETS

6-17



SOUTH ABUTMENT

PROPOSED PIER 1

PROPOSED PIER 2

NORTH ABUTMENT

PHASE 3: PROPOSED CONSTRUCTION

PROPOSED CONSTRUCTION SEQUENCE:

PHASE 3: PROPOSED CONSTRUCTION

- 11) Excavate Cofferdams, pour seal coat concrete, cure, and dewater
- 12) Construct proposed pier footings and cure
- 13) Construct proposed pier walls and cure
- 14) Install retrofit pier bearings
- 15) De-jack/disassemble temporary piers
- 16) Remove all temporary support system items and cutoff temporary pile per the Special Provisions
- 17) Install riprap
- 18) Perform designated deck repairs

STRUCTURAL
SHEETS

18-28

LEGEND:



= Causeway (See Roadway plans for Causeway Options)



= Riprap



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DESIGNED	-	SM
CHECKED	-	PLP
DRAWN	-	RDA
CHECKED	-	BKC

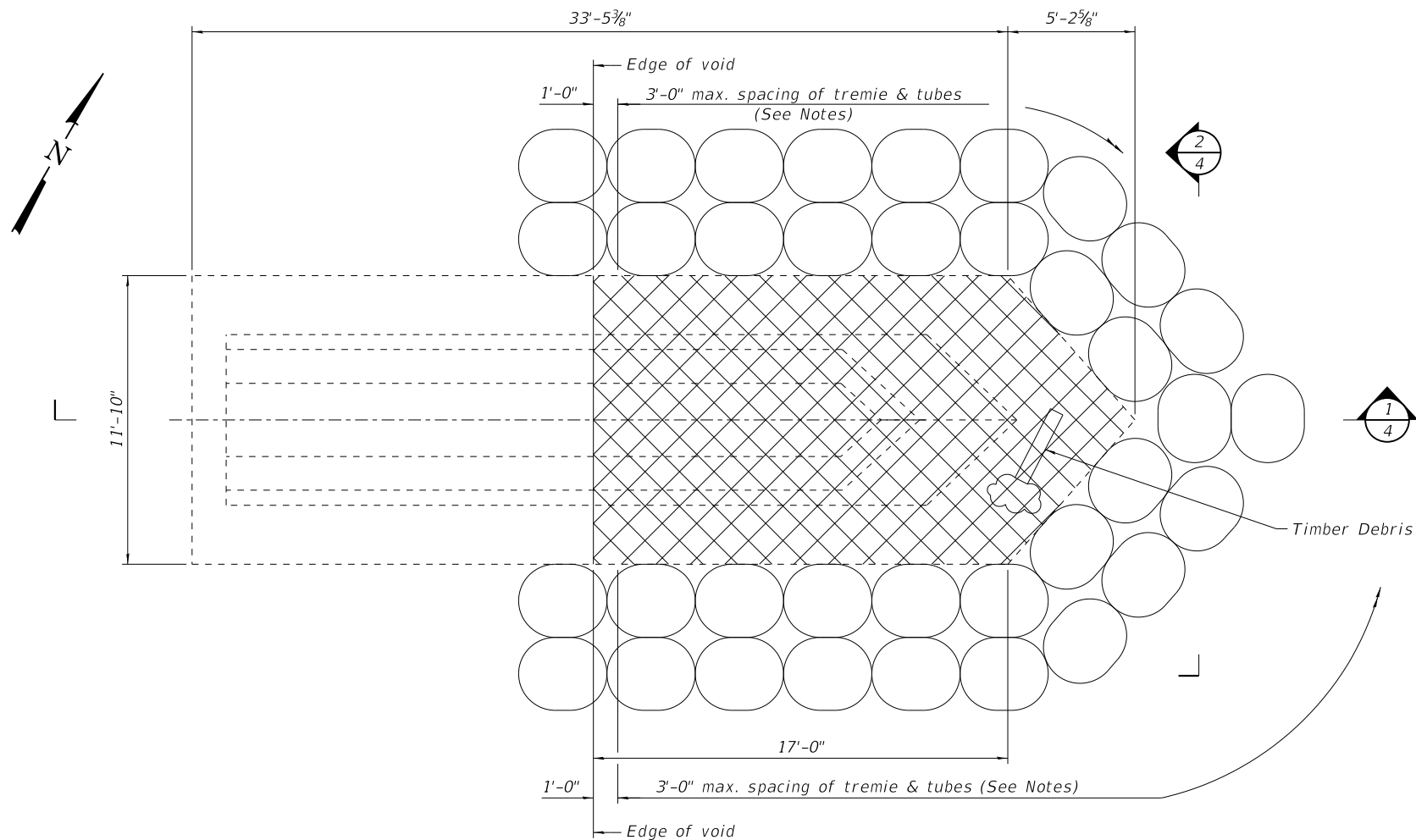
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REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

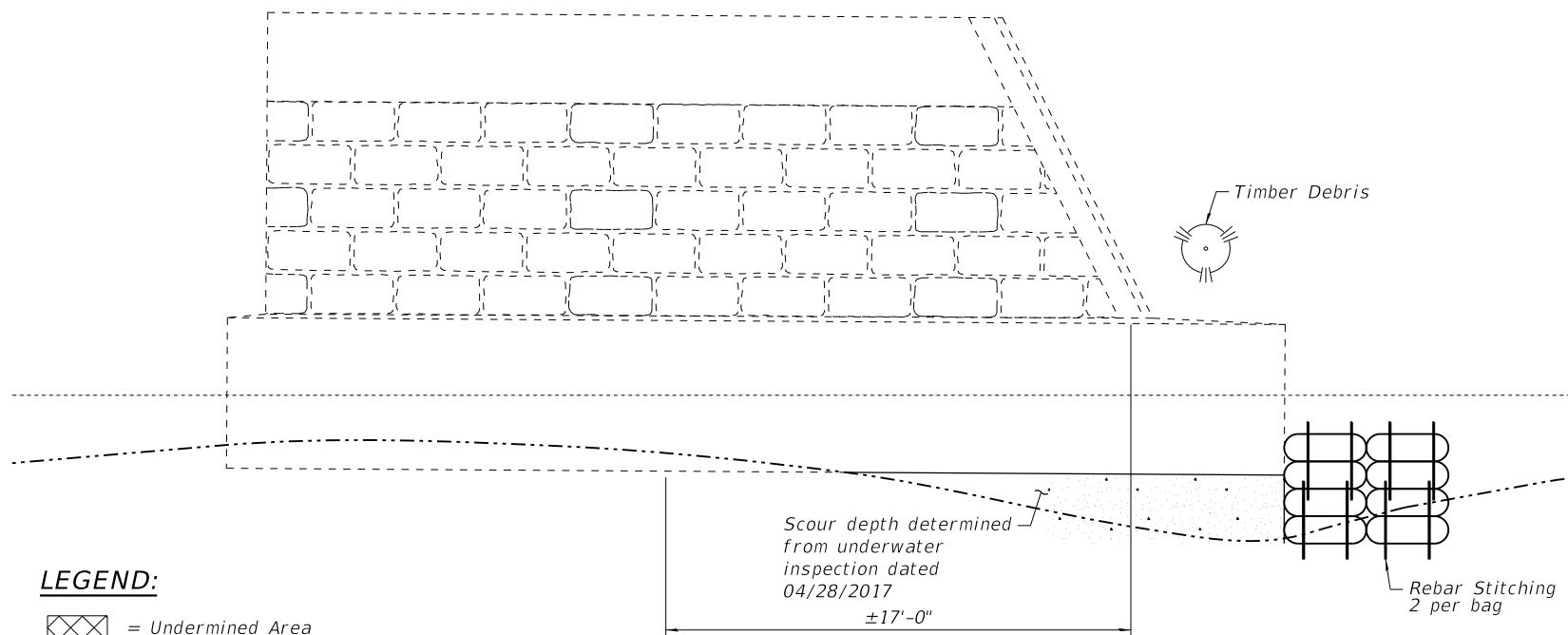
SUBSTRUCTURE REPAIRS AND SEQUENCE
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 3 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	15
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

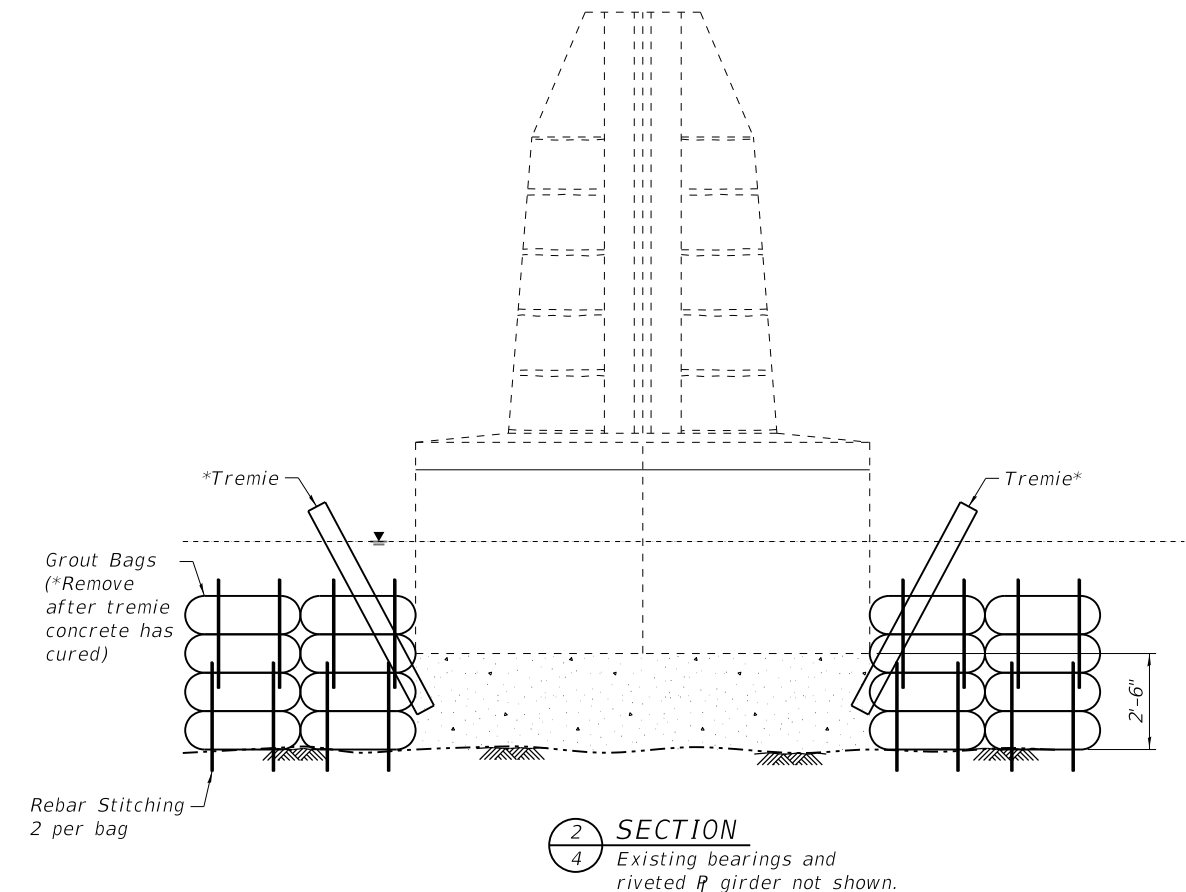


PLAN VIEW - PIER 2



LEGEND:

- = Undermined Area
- = Tremie Concrete*



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Substructure Repair (Grout Bags)	L. Sum	1
Debris Removal	L. Sum	1

*Cost to be included with Substructure Repair (Grout bags)

GENERAL NOTES:

Remove unstable material, timber debris, along bottom of undermined area prior to bag placement and filling with grout.

Stack grout bags along face of pier in front of undermined area. Bags stacked in successive rows and tiers shall be staggered.

Once vent/fill pipes have been installed and bags are filled, pump grout into the undermined area until material appears in the top of adjacent vent pipes. Cut or remove the vent/fill pipes flush with the top of the bags after pumping operation is complete.

Adequate venting of water to be displaced in the undermined area is important. The water must be able to escape when displaced by grout pumped into the cavity. A max. 3ft spacing of vent /fill pipes is recommended.

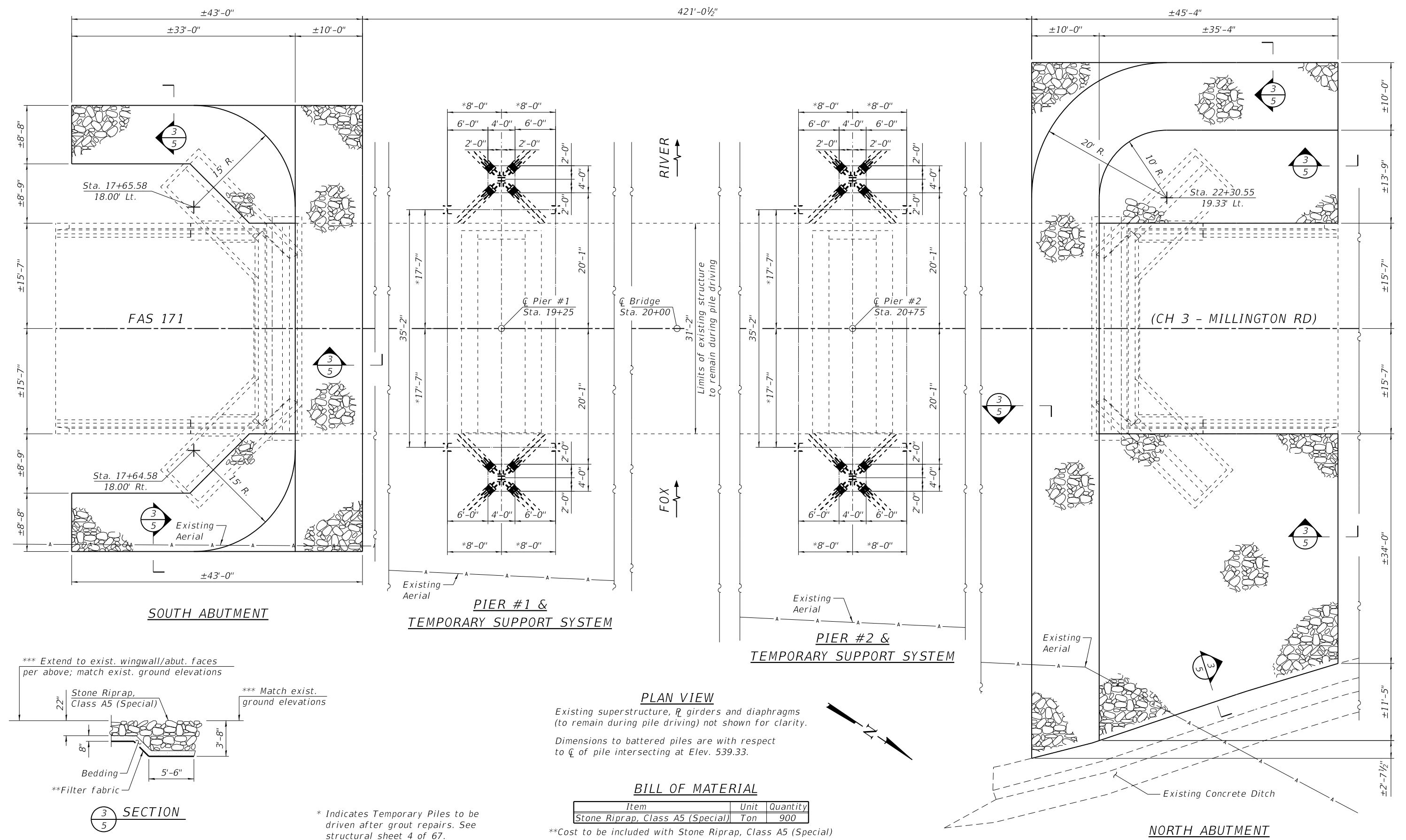
Keep nozzle buried in the grout during pumping to reduce the amount of mixing of the grout and water to be displaced.

All bags shall be 1ft max. thick. 3ft max. wide and 4ft max. long.

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.

See special provisions for other material, construction, and removal requirements.

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DESIGNED - SM	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**

PHASE 1: RIPRAP AND PILE LAYOUT
STRUCTURE NO. 047-3000

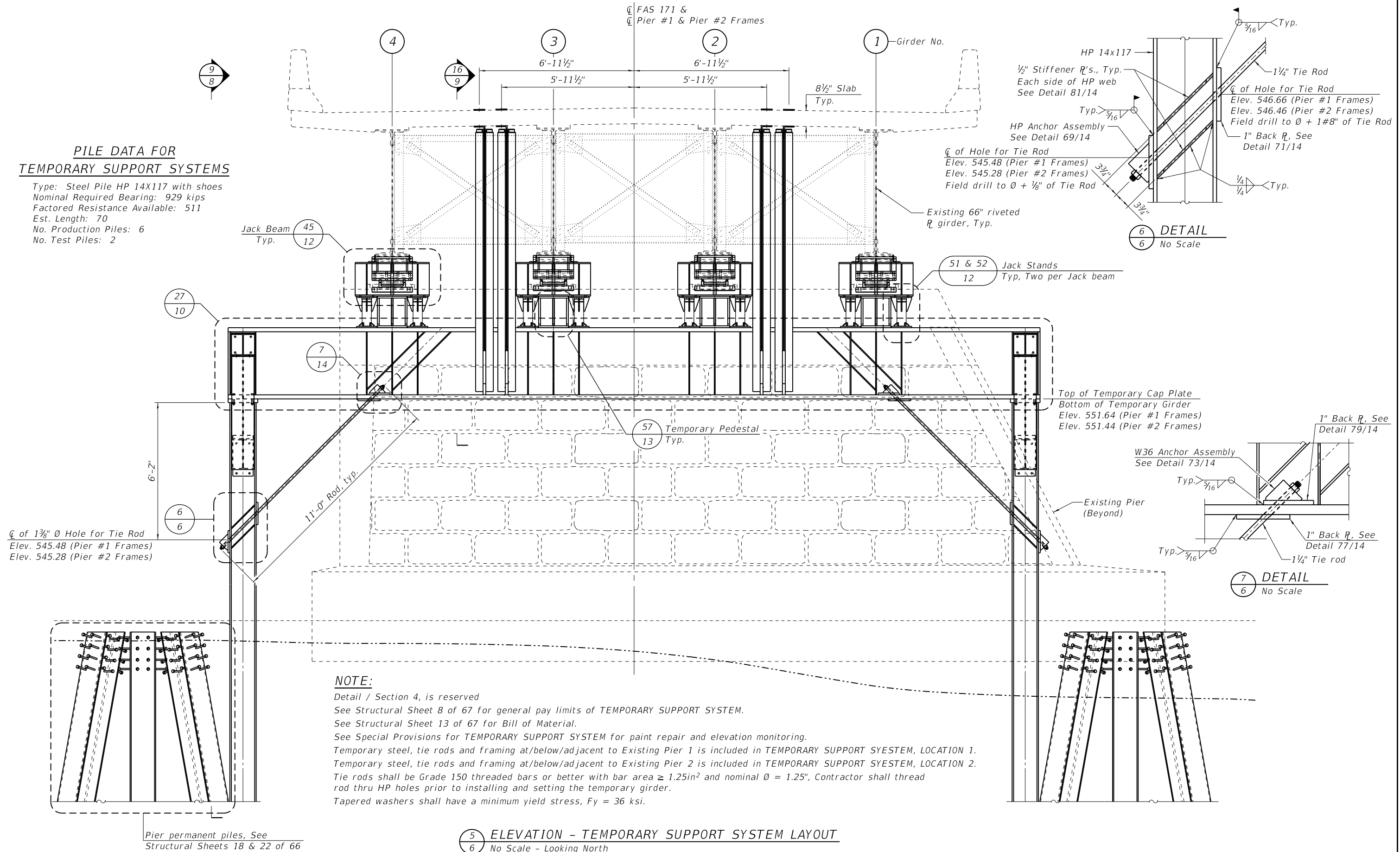
STRUCTURAL SHEET NO. 5 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	17
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

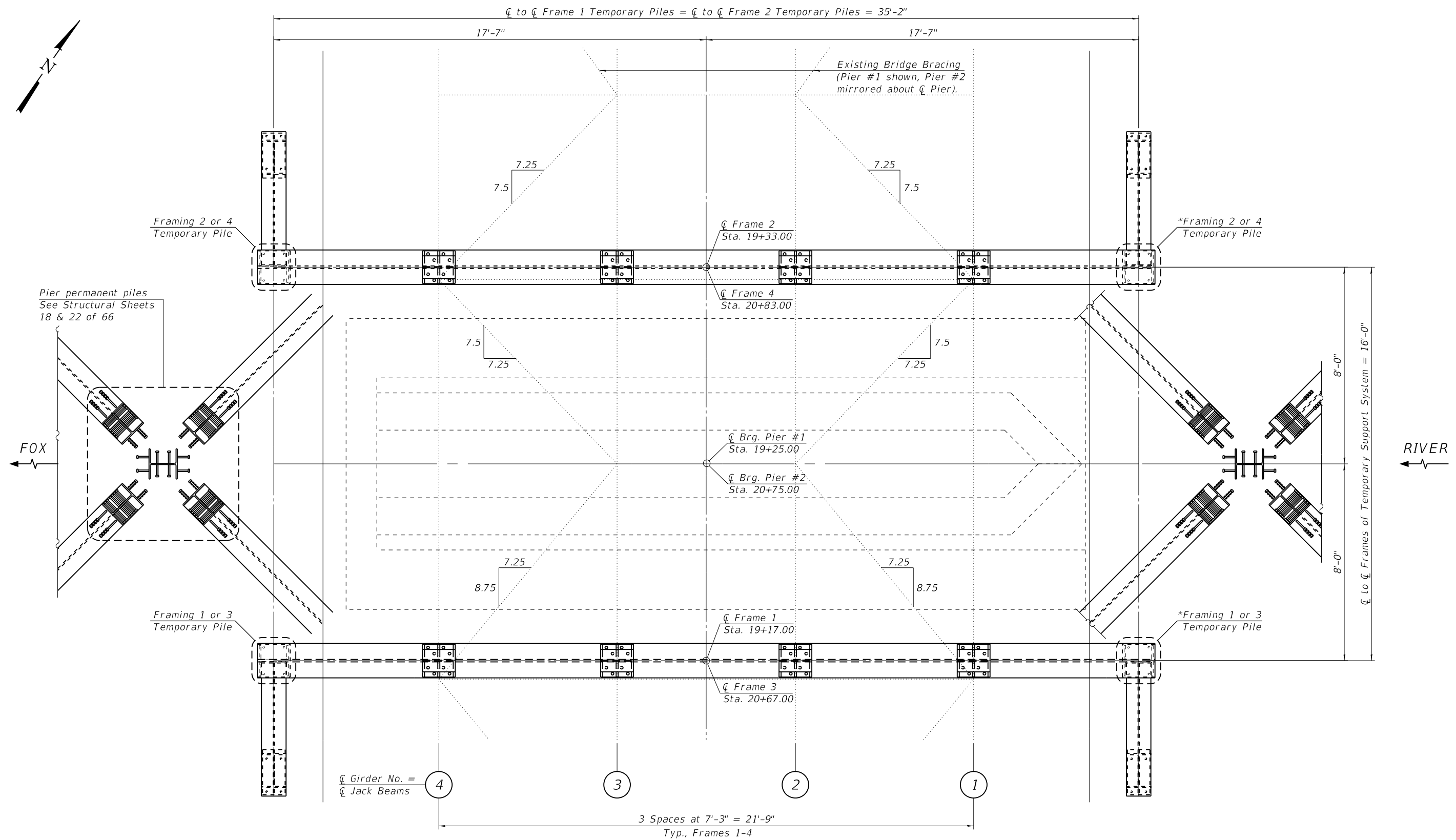
WHA# 1087J17	ILLINOIS	FED. AID PROJECT	WZPE(199)	CONTRACT NO. 87683
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PILE DATA FOR TEMPORARY SUPPORT SYSTEMS

Type: Steel Pile HP 14X117 with shoes
Nominal Required Bearing: 929 kips
Factored Resistance Available: 511
Est. Length: 70
No. Production Piles: 6
No. Test Piles: 2



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NOTE:

See Structural Sheets 31, 53, and 65 of 67 (existing plans) for layout of existing bridge bracing.
*Prior to installing Pier 2 upstream temporary piles, Contractor shall remove grout bags. See Structural sheet 4 of 67.

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DESIGNED	-	SM	REVISED	-
CHECKED	-	PLP	REVISED	-
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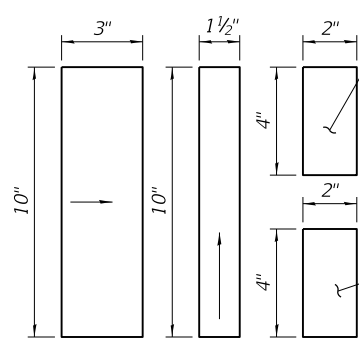
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CHECKED	-	PLP	REVISED	-
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LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

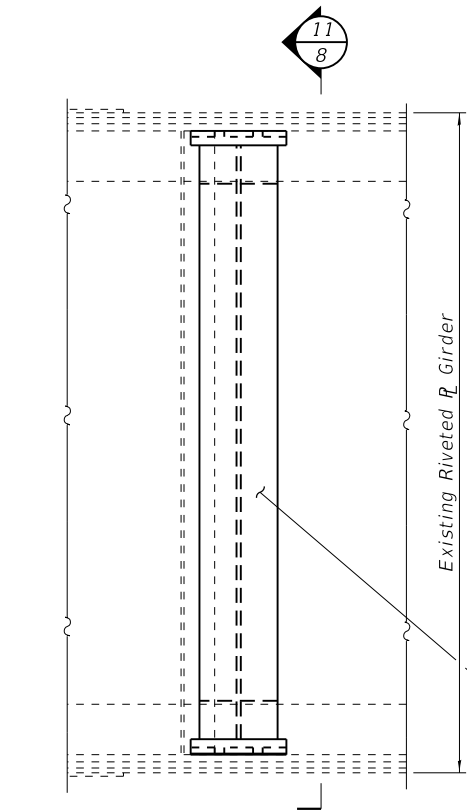
PHASE 2: TEMPORARY SUPPORT SYSTEM
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 7 OF 67 SHEETS

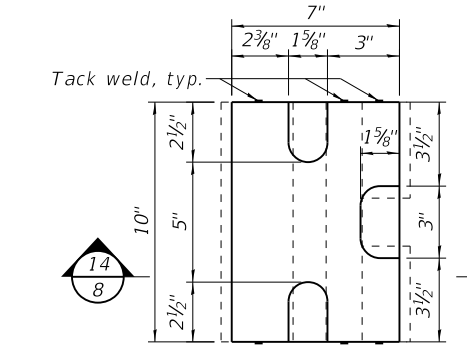
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	19
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				



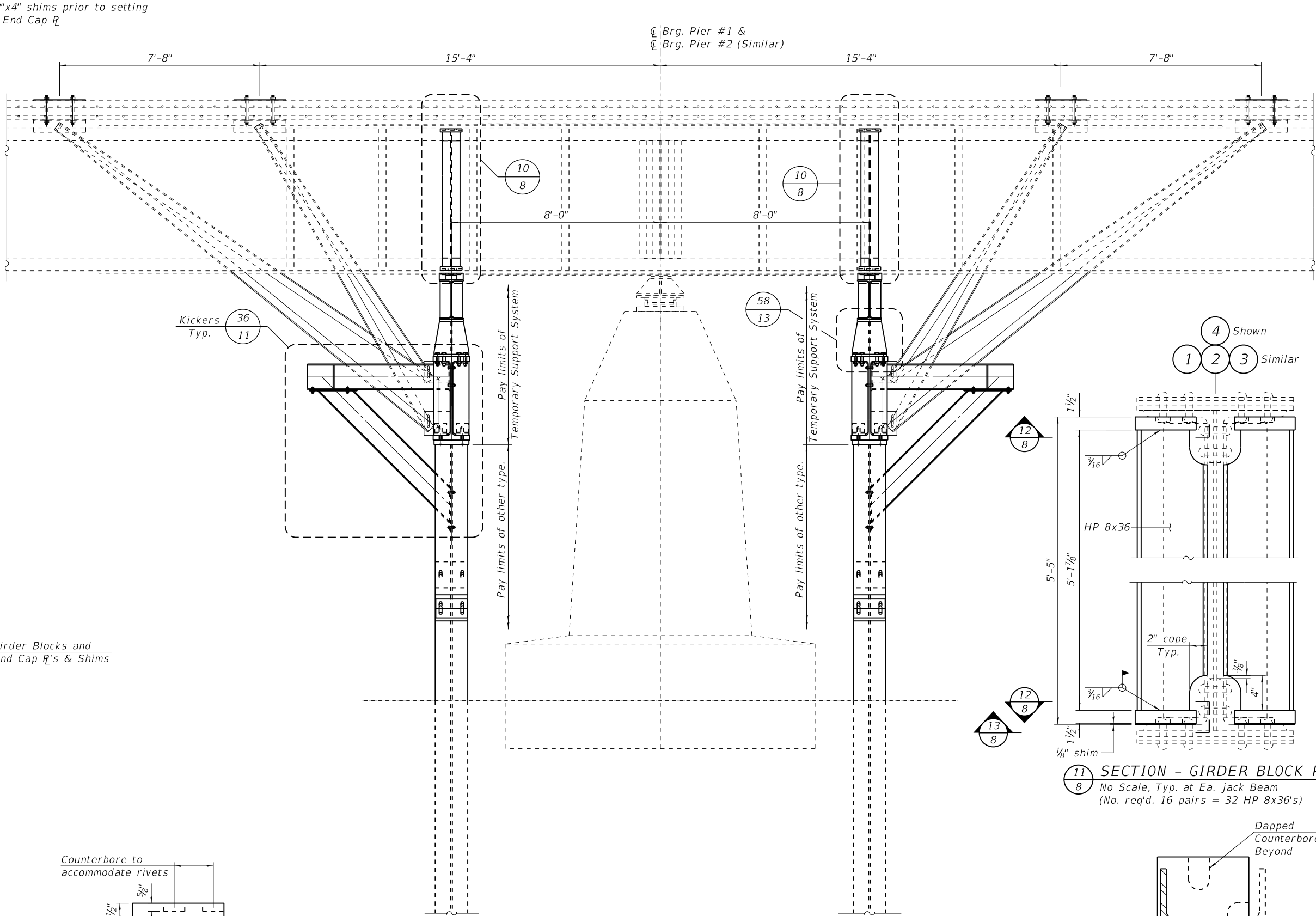
15 SHIMS
 8 No Scale,
 (No. req'd. 32 Ea.)
 Arrows indicate direction
 of shim installation



10 DETAIL - GIRDER BLOCKING
 8 No Scale



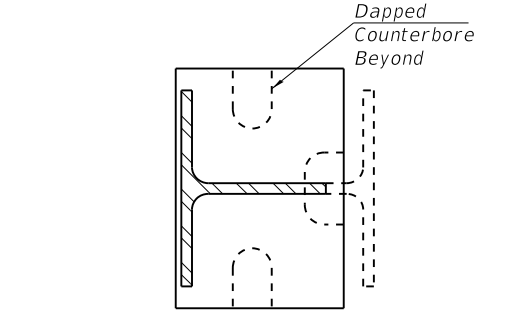
13 DETAIL - END CAP PL
 8 No Scale
 (No. req'd. = 64)



9 SIDE VIEW - TEMPORARY SUPPORT SYSTEM LAYOUT
 8 No Scale - Upstream - Looking West
 Jacks & Jack Stands omitted for clarity

14 SECTION - END CAP PL
 8 No Scale

11 SECTION - GIRDER BLOCK PAIR
 8 No Scale, Typ. at Ea. Jack Beam
 (No. req'd. 16 pairs = 32 HP 8x36's)



12 SECTION - GIRDER BLOCKING
 8 No Scale

NOTE:
 Field welding of Bottom End Cap PL and Tack Welding
 of Bottom Shims shall be performed prior to application
 of the jacking loads on Structural Sheet 15 of 67.

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

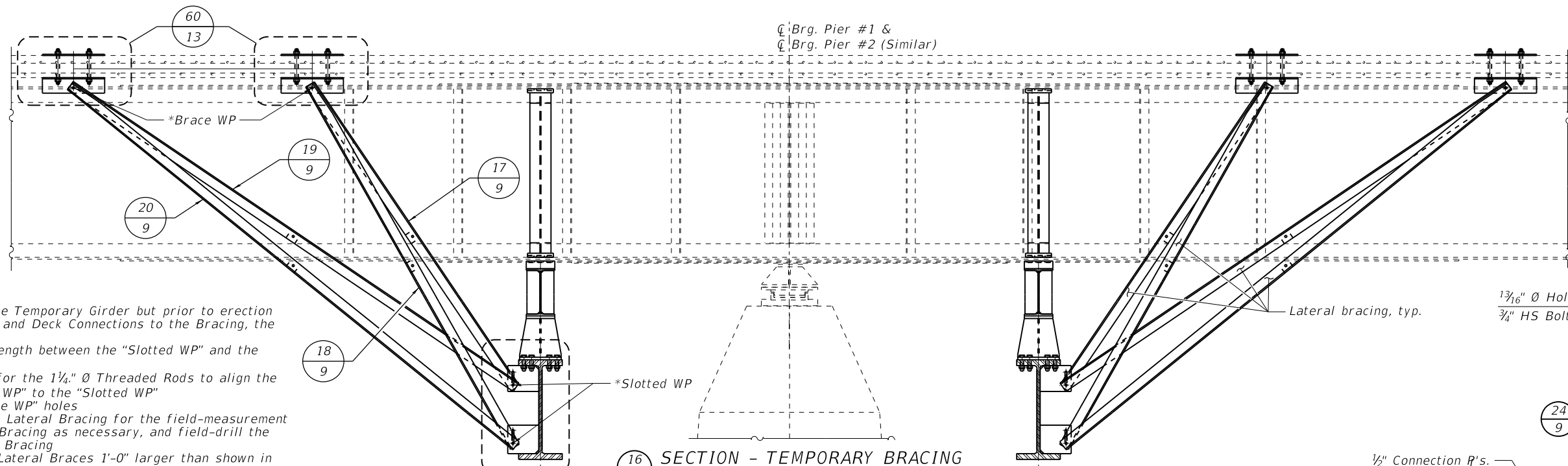
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CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

PHASE 2: TEMPORARY SUPPORT SYSTEM
STRUCTURE NO. 047-3000
 STRUCTURAL SHEET NO. 8 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	20
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



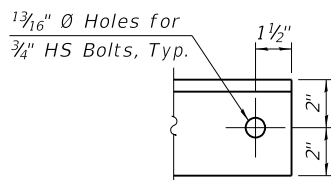
NOTES:

*After installation of the Temporary Girder but prior to erection of the Lateral Bracing and Deck Connections to the Bracing, the Contractor shall:

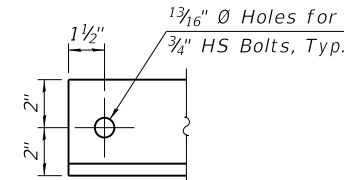
- 1) Field measure the length between the "Slotted WP" and the "Brace WP"
- 2) Drill holes in deck for the 1 1/4" Ø Threaded Rods to align the Connection L "Brace WP" to the "Slotted WP"
- 3) Field-drill the "Brace WP" holes
- 4) Verify length of the Lateral Bracing for the field-measurement in (1). Trim Lateral Bracing as necessary, and field-drill the holes in the Lateral Bracing

Contractor shall order Lateral Braces 1'-0" larger than shown in Details 17-20 to account for field variance.

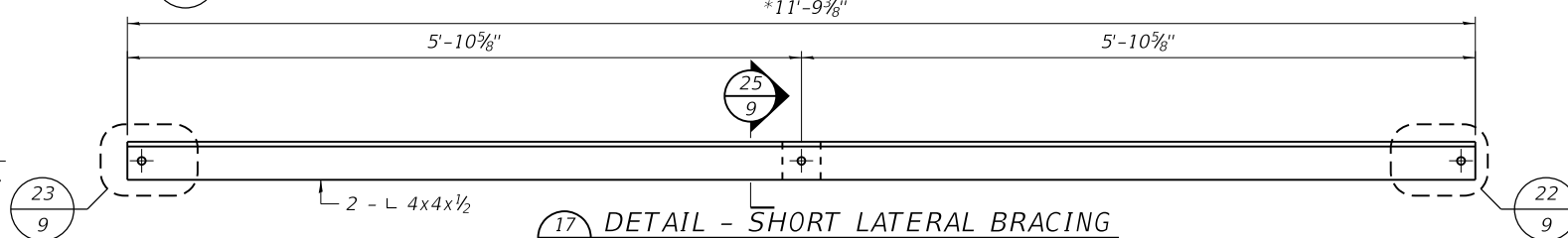
Field welding of Short and Long Lateral Bracing to the Temporary Girder Connection PLs shall be performed after the superstructure has been jacked to the Raised Position per Structural Sheet 15 of 67.



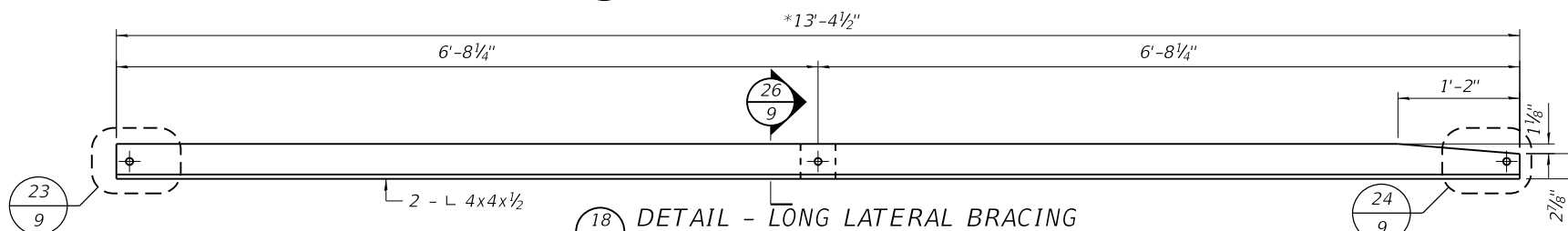
22
9
DETAIL AT DECK
No Scale
Field drill



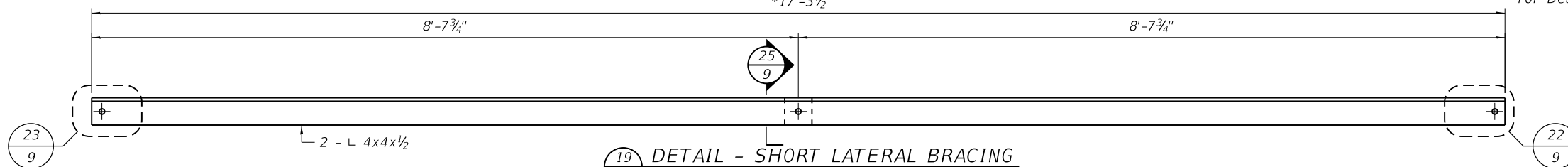
23
9
DETAIL AT TEMPORARY GIRDER
No Scale
Field drill



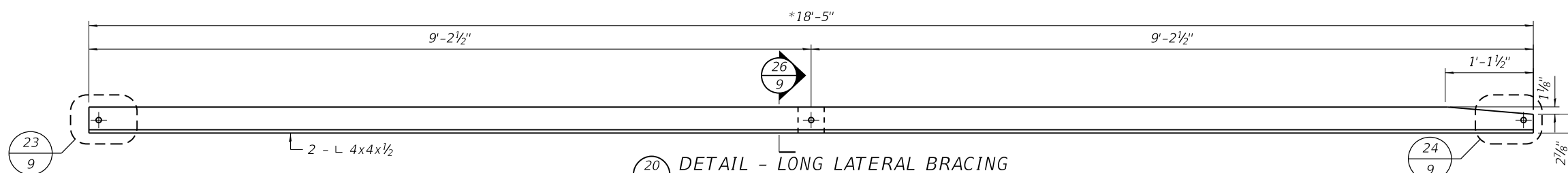
17
9
DETAIL - SHORT LATERAL BRACING
No Scale, (No. req'd. = 16 single angles)



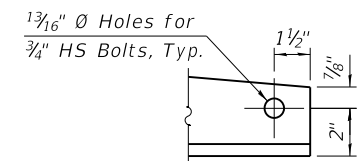
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9
DETAIL - LONG LATERAL BRACING
No Scale, (No. req'd. = 16 single angles)



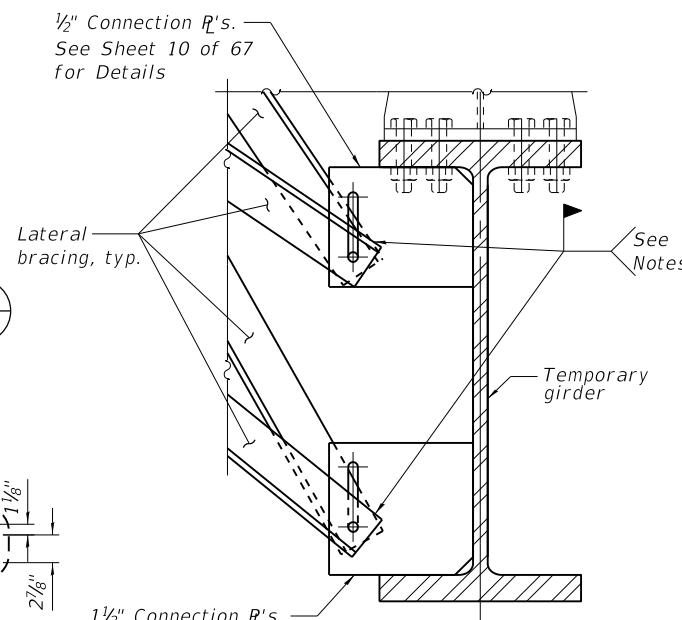
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9
DETAIL - SHORT LATERAL BRACING
No Scale, (No. req'd. = 16 single angles)



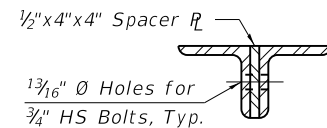
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9
DETAIL - LONG LATERAL BRACING
No Scale, (No. req'd. = 16 single angles)



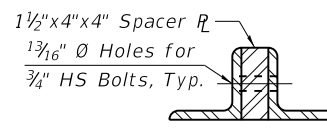
24
9
DETAIL AT DECK
No Scale



21
9
DETAIL
No Scale

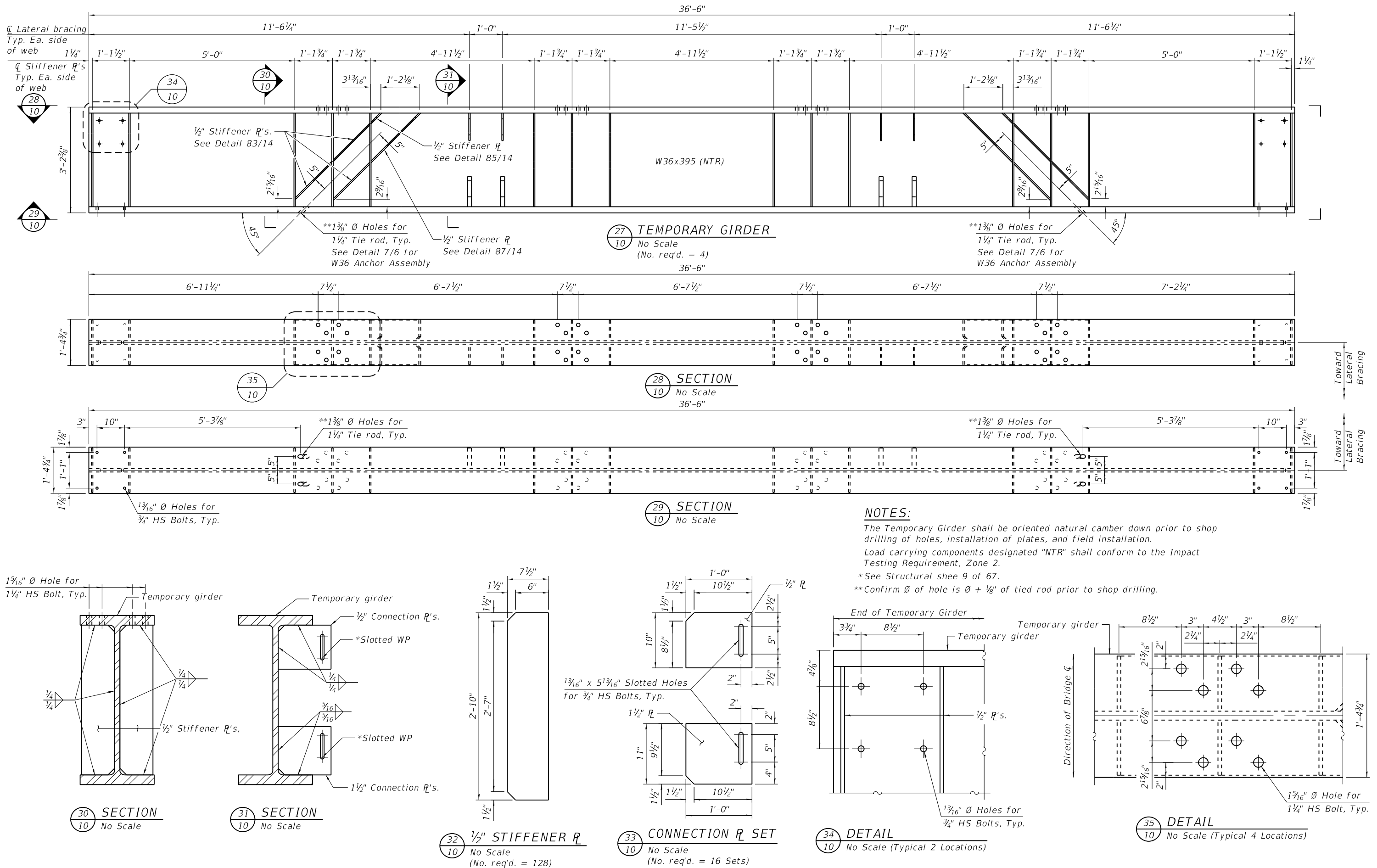


25
9
SECTION - SPACER PL
No Scale, (No. req'd. = 16)



26
9
SECTION - SPACER PL
No Scale, (No. req'd. = 16)

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier_Support_Details.dgn



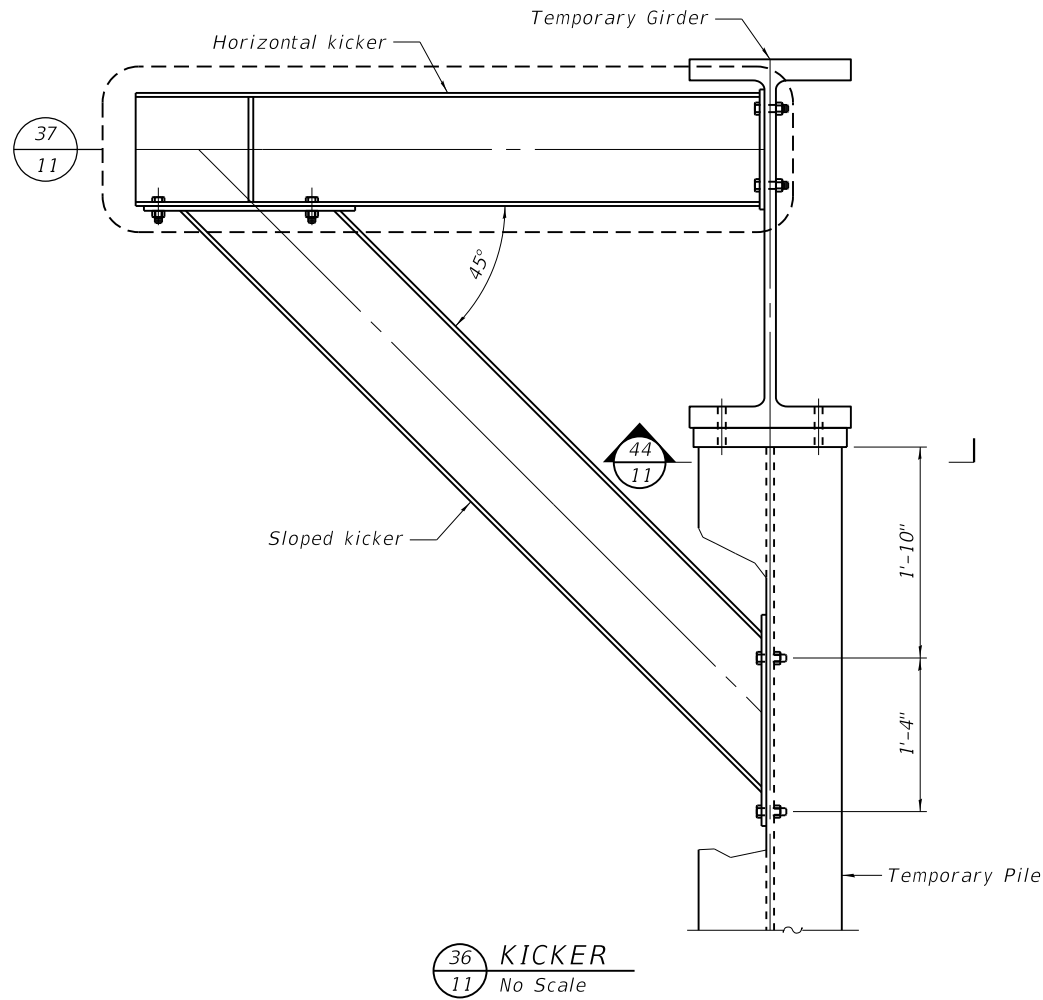
NOTES:

The Temporary Girder shall be oriented natural camber down prior to shop drilling of holes, installation of plates, and field installation.

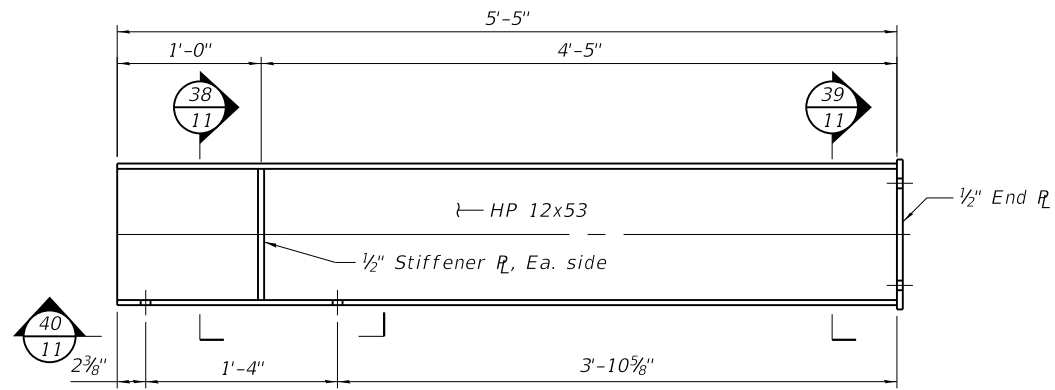
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

*See Structural shee 9 of 67.

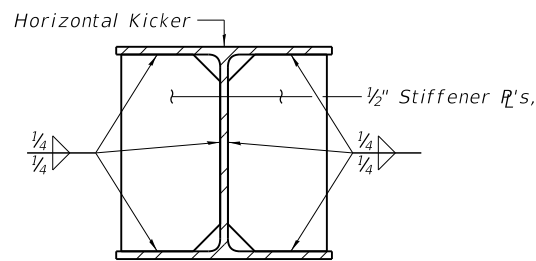
**Confirm Ø of hole is Ø + 1/8" of tied rod prior to shop drilling.



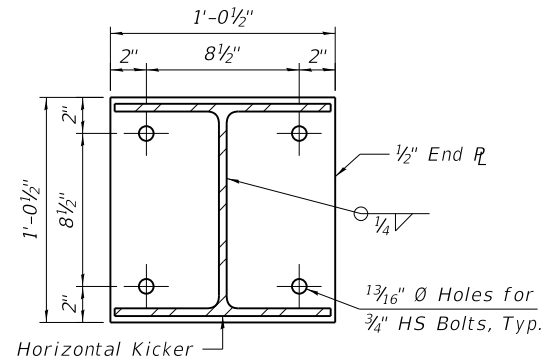
36
11 KICKER
No Scale



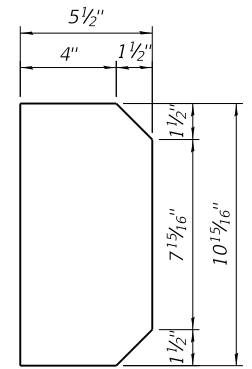
37
11 DETAIL - HORIZONTAL KICKER
No Scale
(No. req'd. = 8)



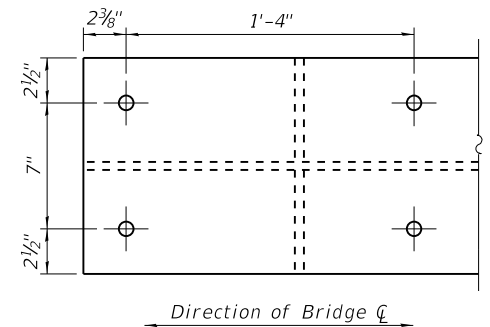
38
11 SECTION
No Scale



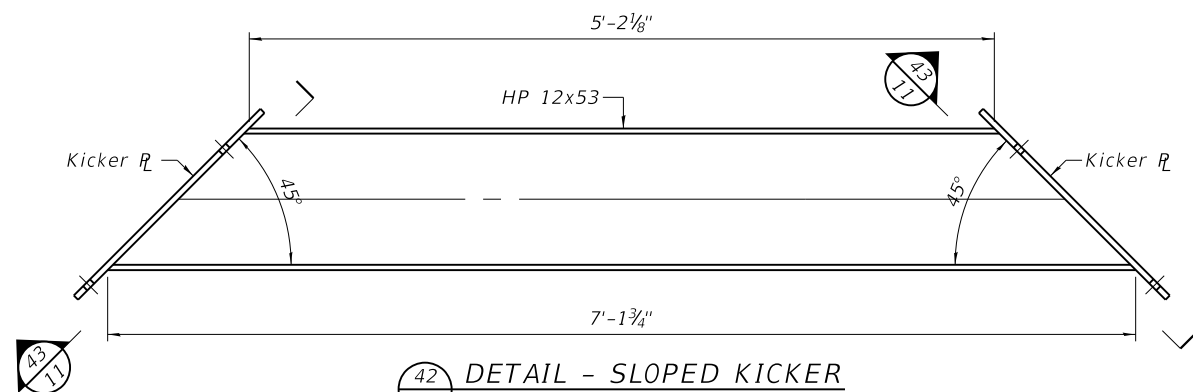
39
11 SECTION
No Scale
(No. End R's req'd. = 8)



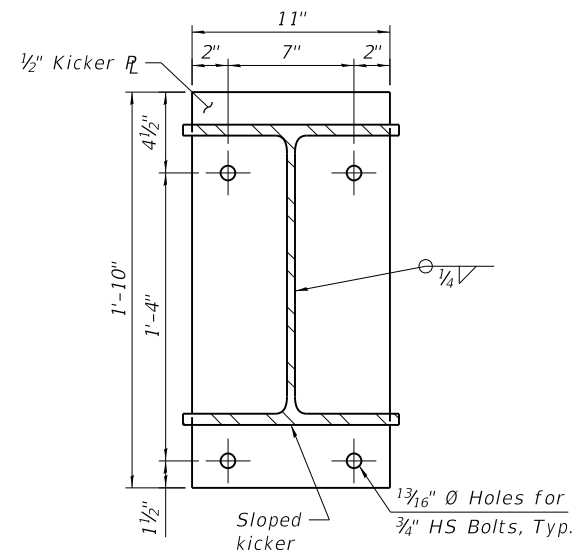
41
11 1/2" STIFFENER R
No Scale
(No. req'd. = 16)



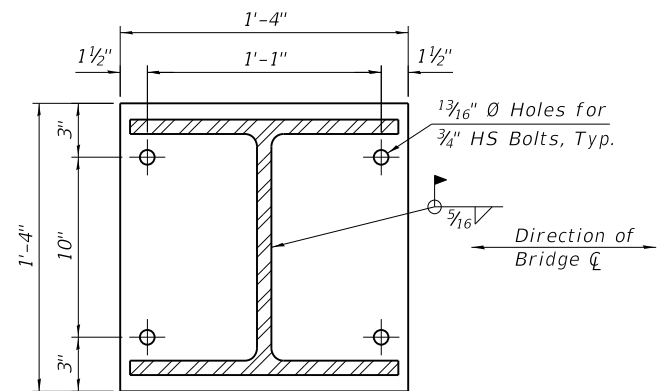
40
11 SECTION
No Scale



42
11 DETAIL - SLOPED KICKER
No Scale
(No. req'd. = 8)



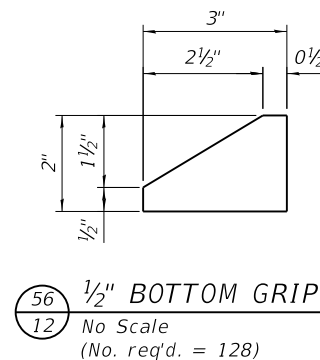
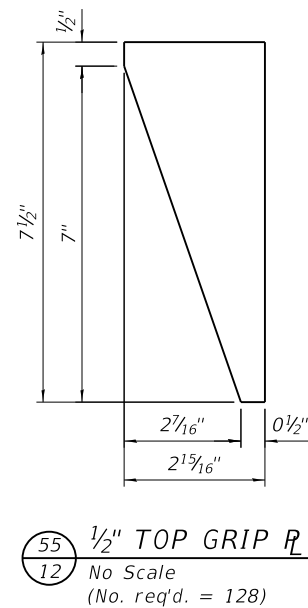
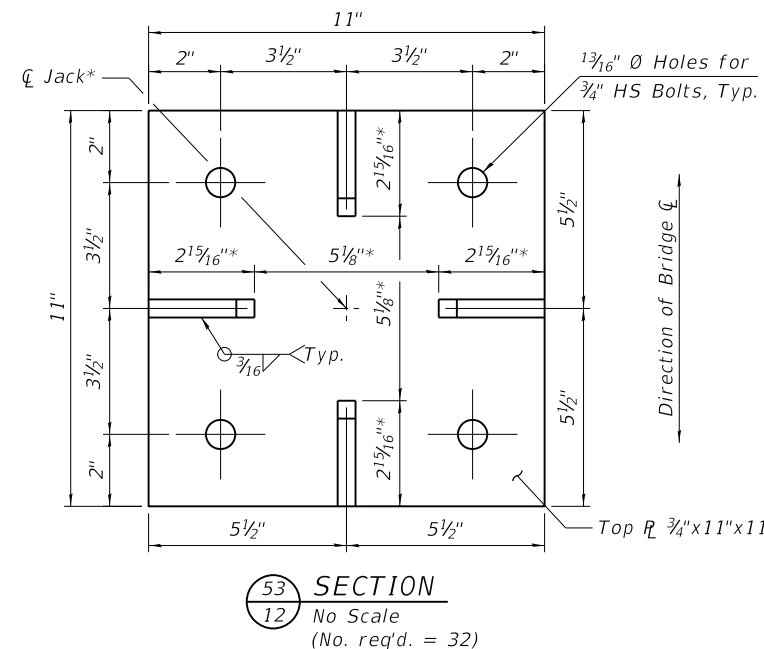
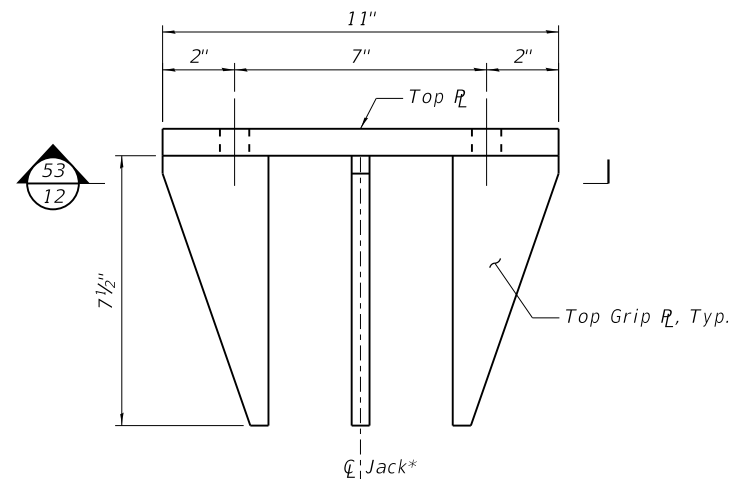
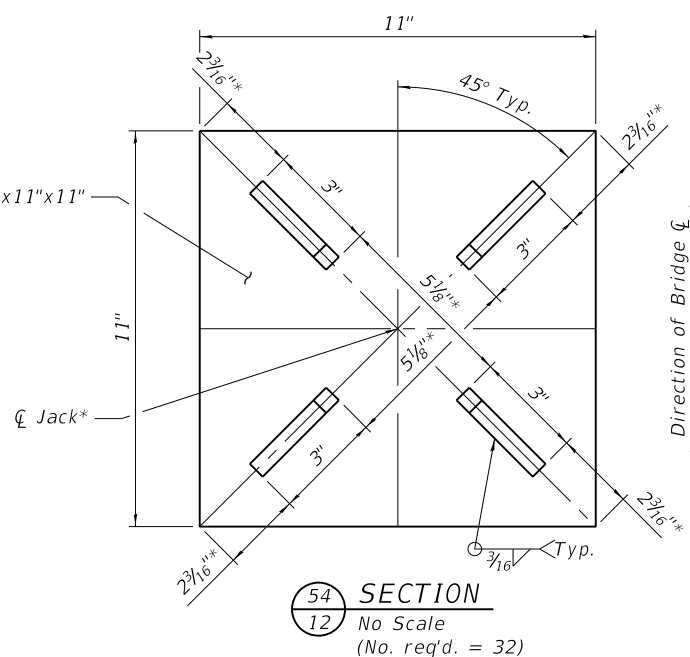
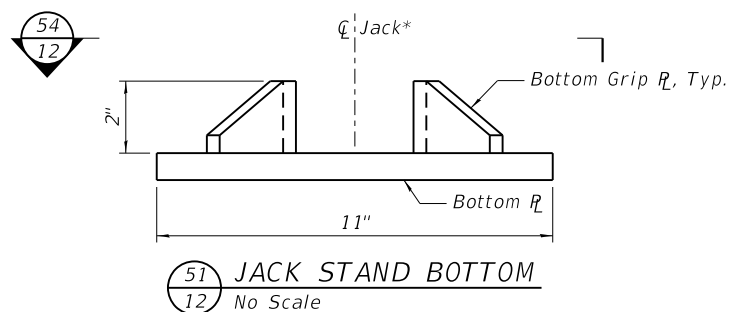
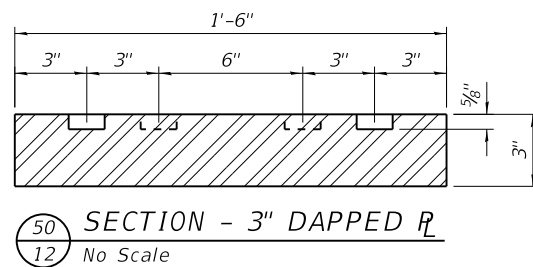
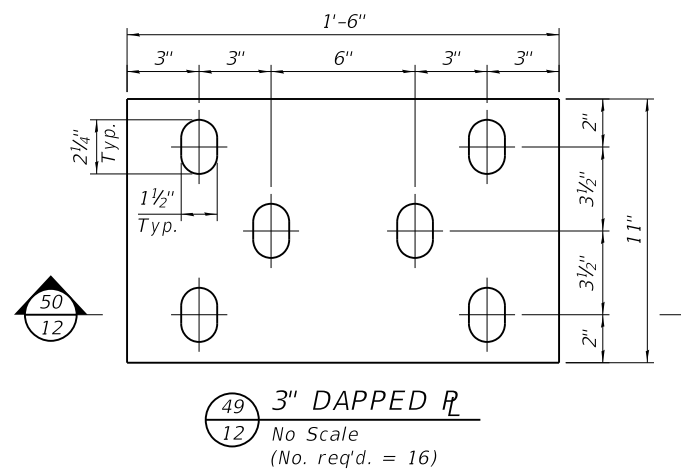
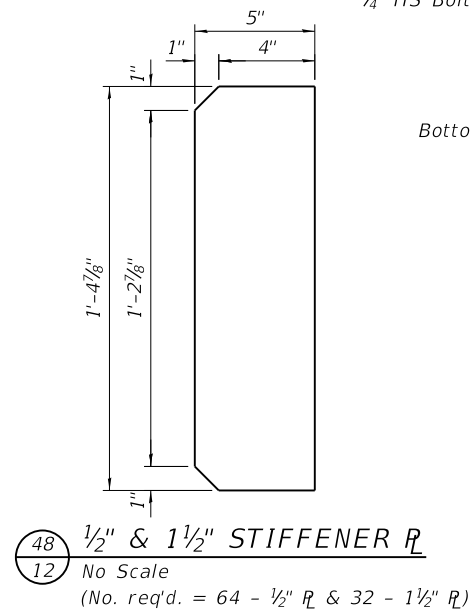
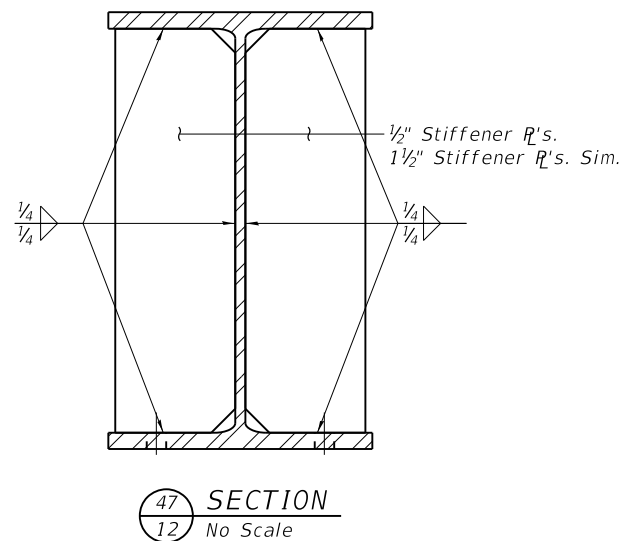
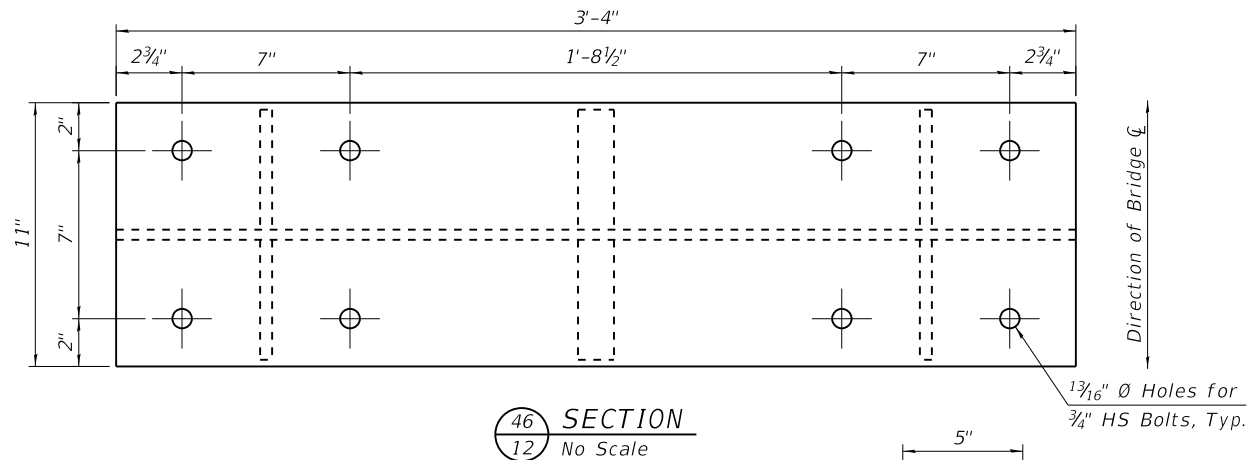
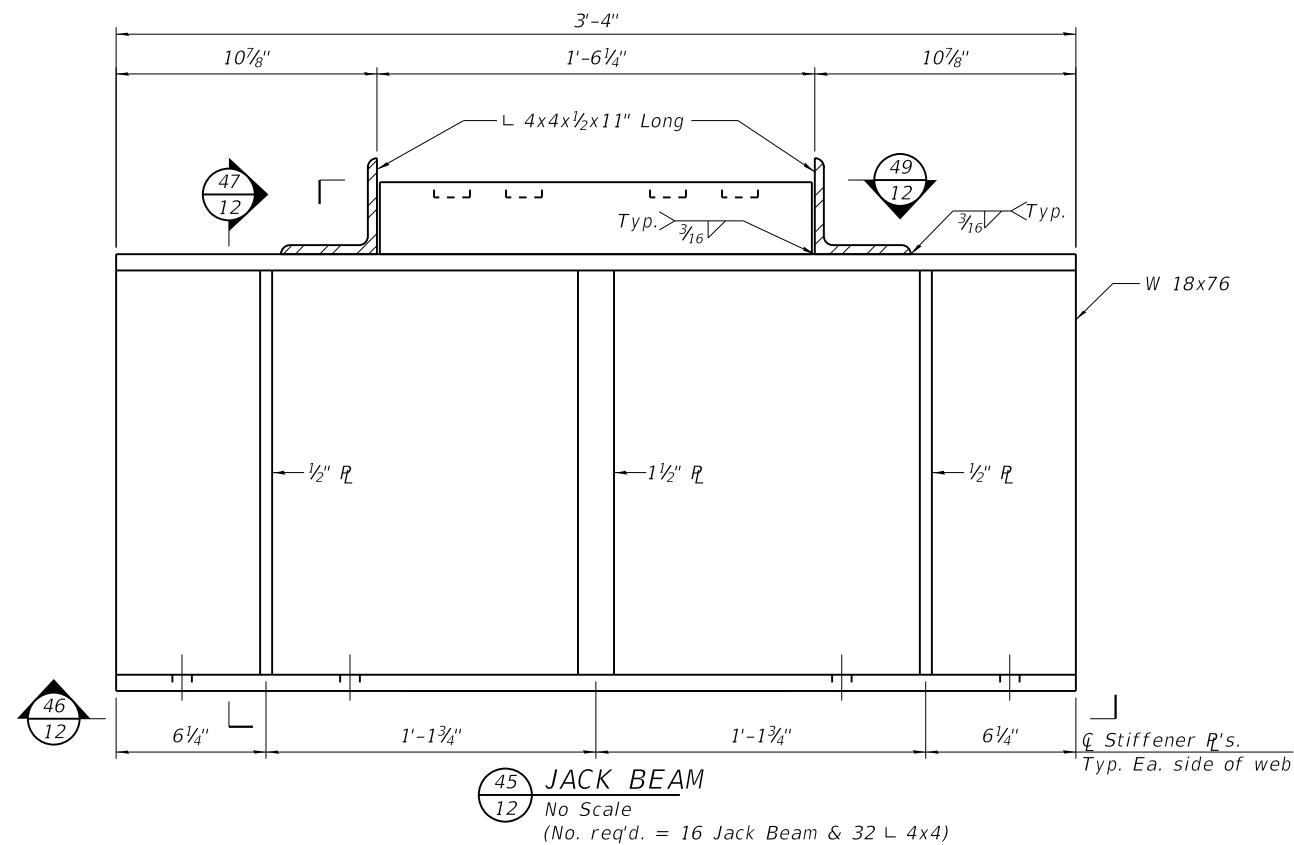
43
11 SECTION
No Scale
(No. req'd. = 16)



44
11 SECTION - 2" CAP R
No Scale
(No. req'd. = 8)

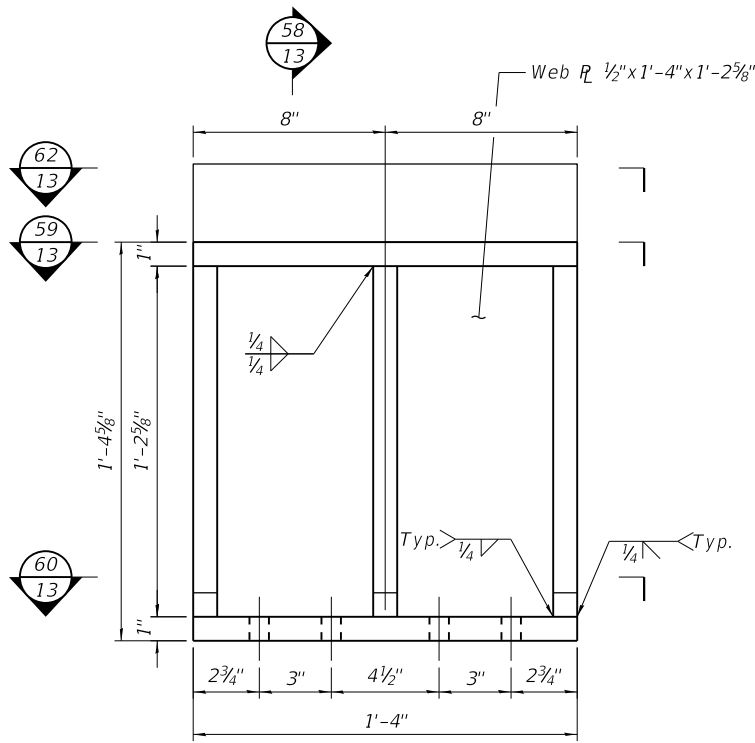
FILE = S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17 Pier Support Details.dgn

FILE = S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17 Per Support Details.dgn

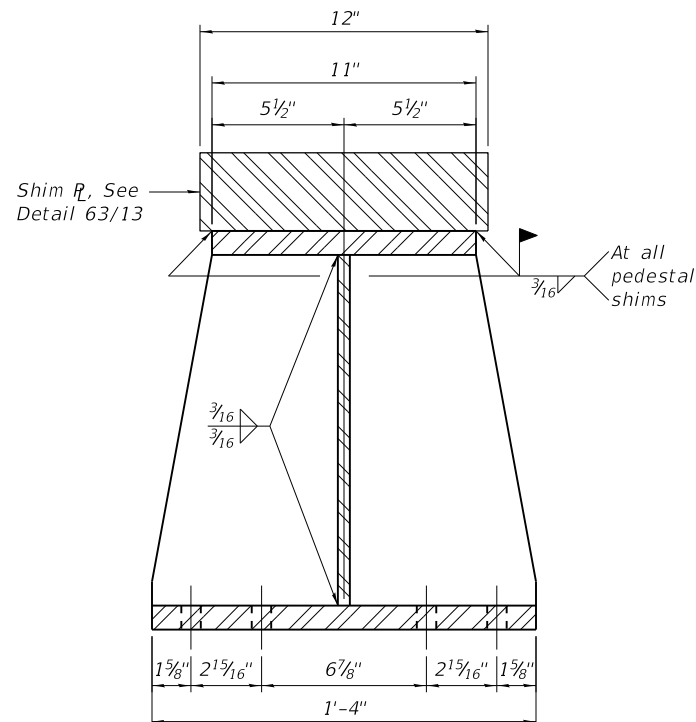


NOTE:
*Dimensions based on a 5" O.D. jack with 14-3/4" minimum height (fully retracted piston). See Special Provisions for JACK AND REMOVE EXISTING BEARINGS if an alternate jack is chosen.

FILE = S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17 Pier Support Details.dgn



57 PEDESTAL
13 No Scale
(No. req'd. = 16 Web R's.)
Pedestal Shim not shown

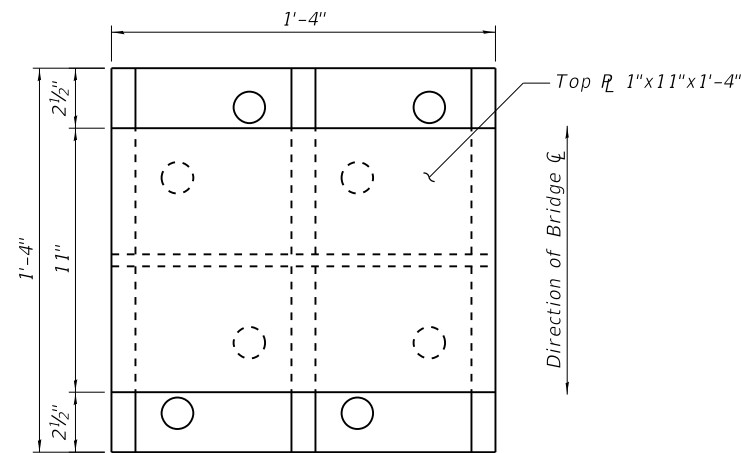


58 SECTION
13 No Scale

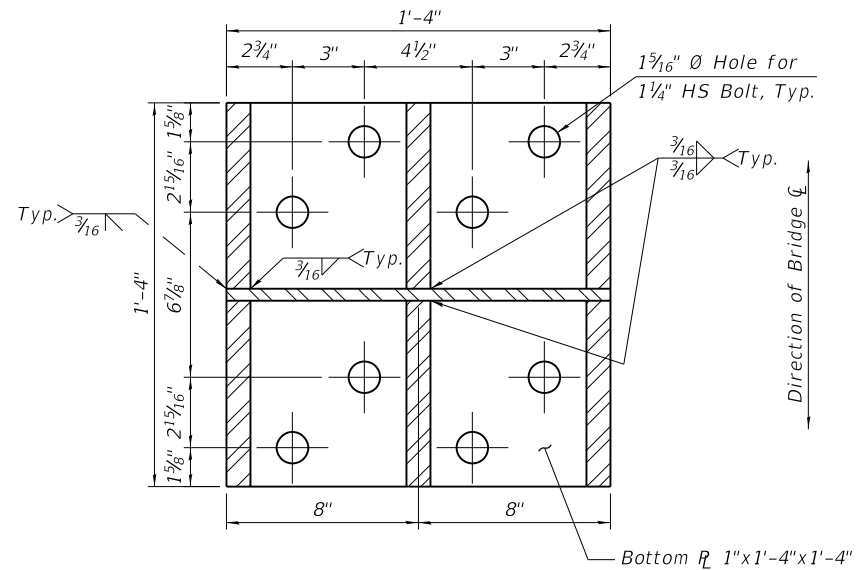
NOTES:

Installation and field welding of Pedestal Shim R's shall be performed once the bridge has been jacked to the "Raised Position" at the respective pier.

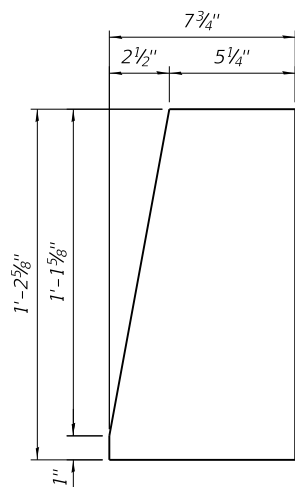
*See Structural sheet 9 of 67.



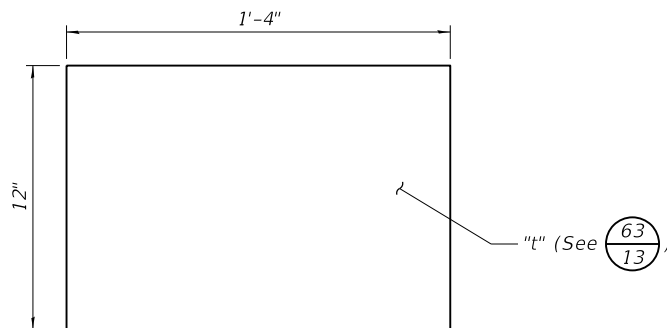
59 SECTION - TOP R
13 No Scale
(No. req'd. = 16 Top R's.)



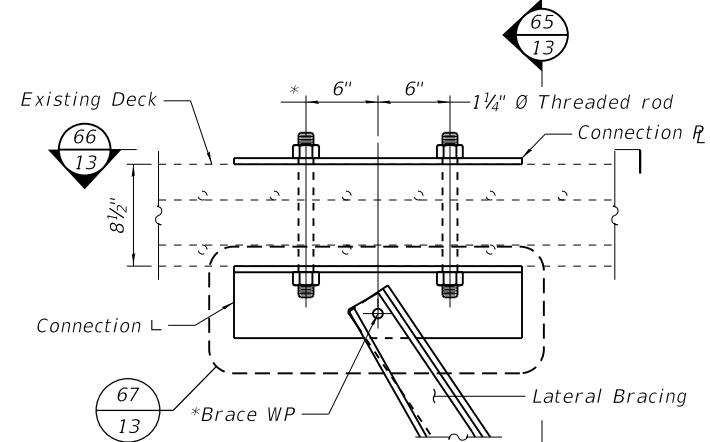
60 SECTION - BOTTOM R
13 No Scale
(No. req'd. = 16 Bottom R's.)



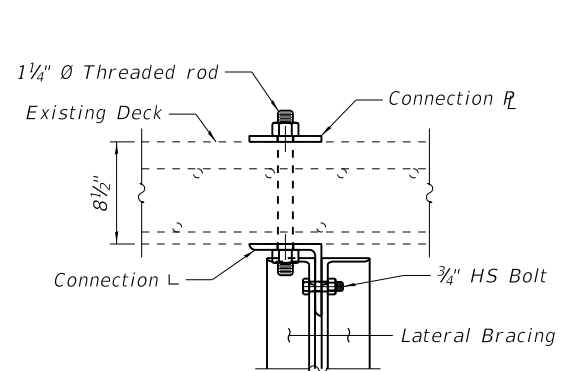
61 1" STIFFENER R
13 No Scale
(No. req'd. = 96, 6 per assembly)



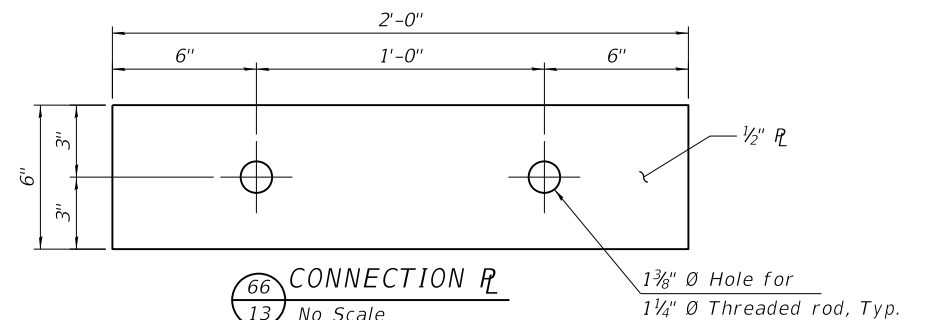
62 PEDESTAL SHIMS
13 No Scale
(No. req'd. = 16 at various sizes)



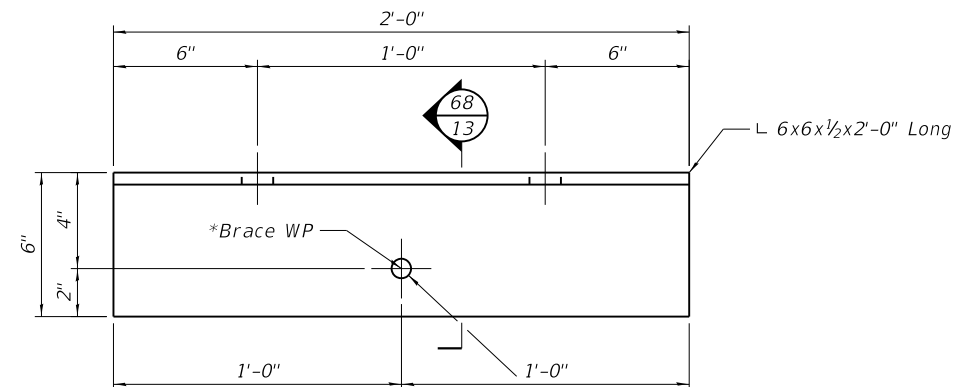
64 DETAIL - DECK CONNECTIONS
13 No Scale



65 SECTION
13 No Scale



66 CONNECTION R
13 No Scale
(No. req'd. = 16)



67 CONNECTION L
13 No Scale
(No. req'd. = 16)

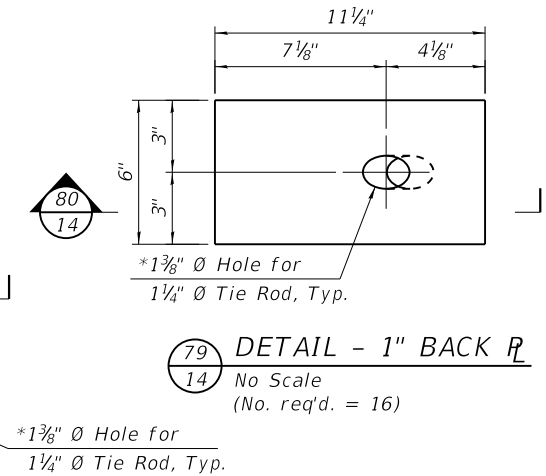
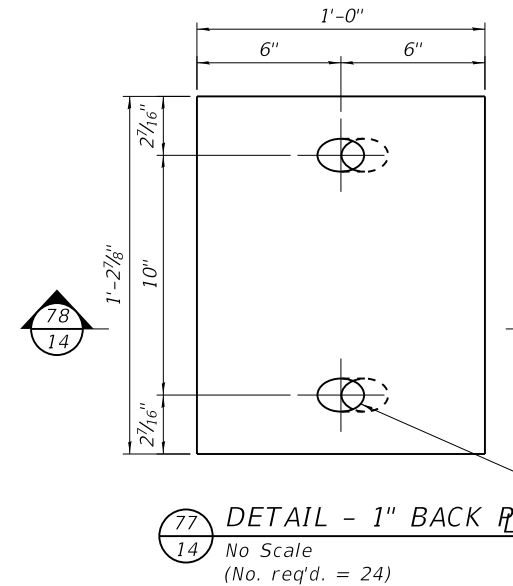
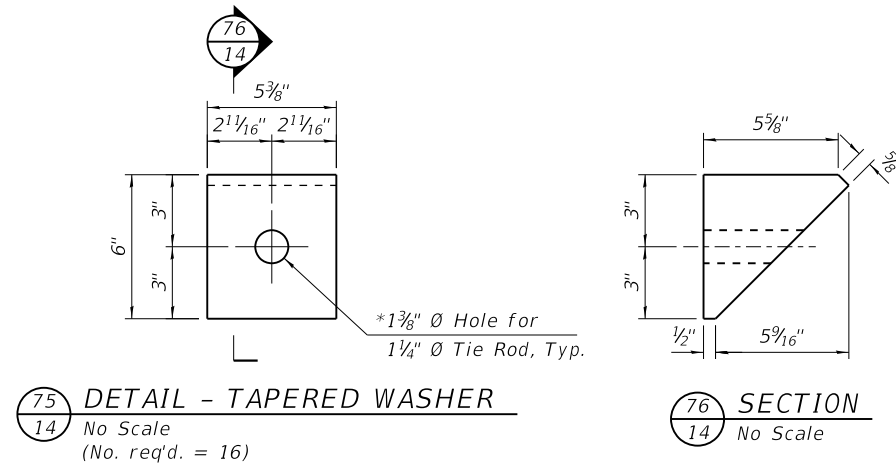
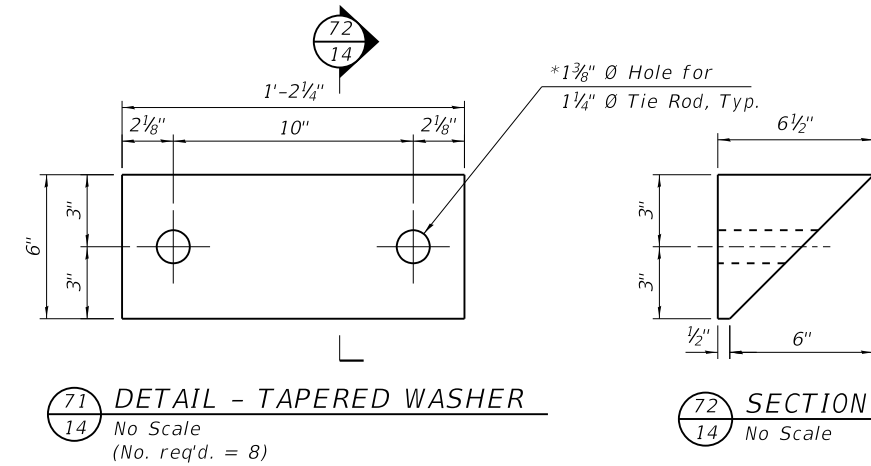
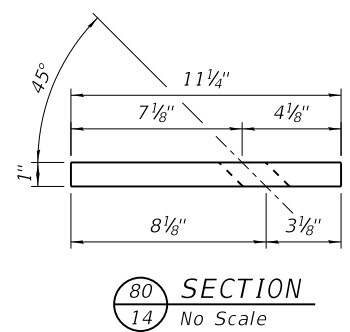
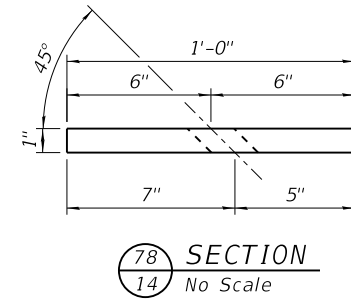
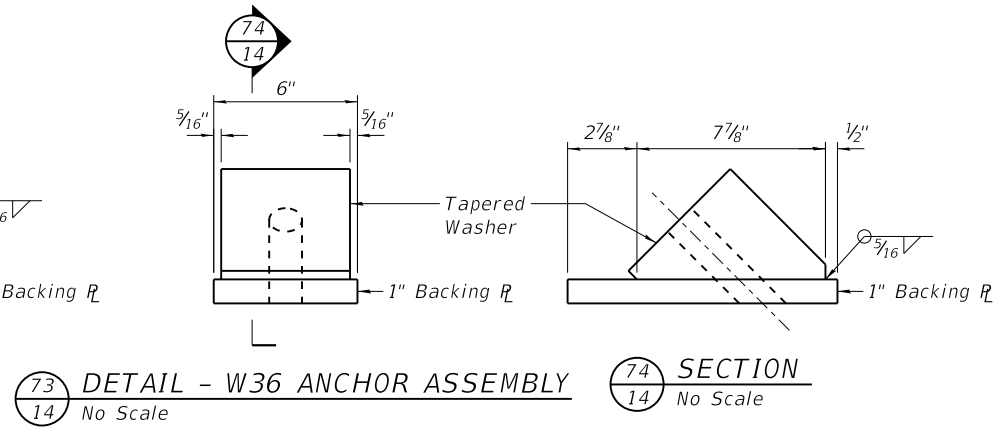
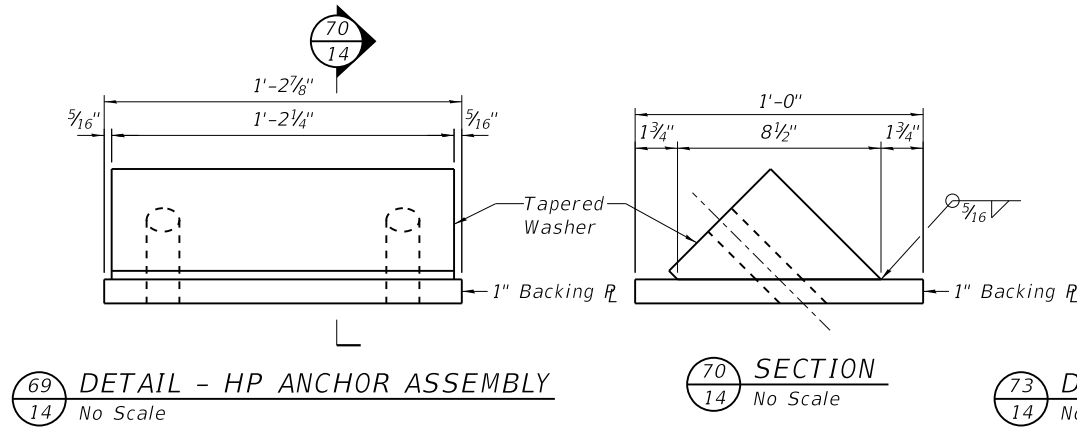
PIER	FRAME #	GIRDER # @ PEDESTAL	
		① or ④	② or ③
1	F1	2 1/4"	3 1/2"
	F2	1 3/4"	3"
2	F3	4"	5 1/8"
	F4	4 5/8"	5 1/8"

63 PEDESTAL SCHEDULE FOR "t"

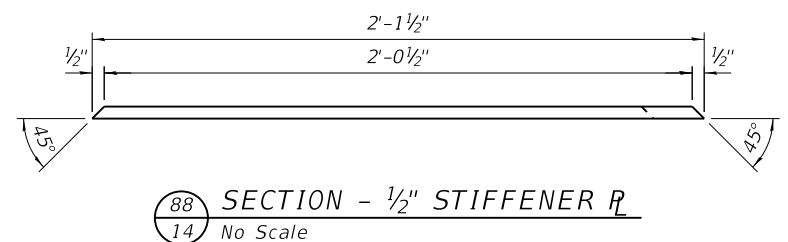
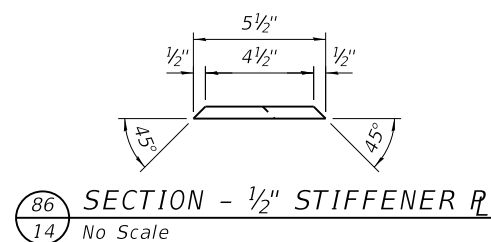
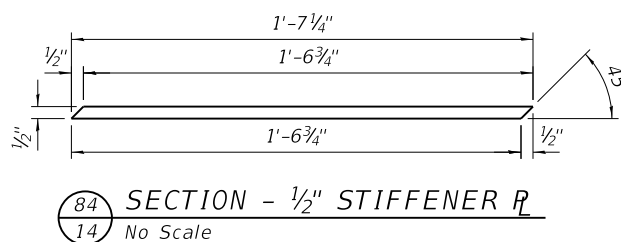
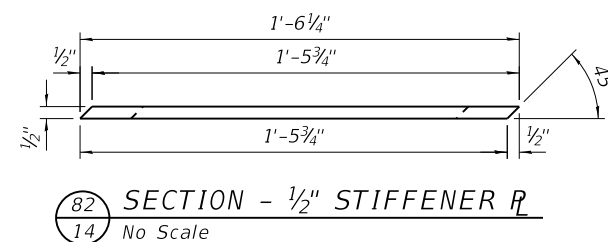
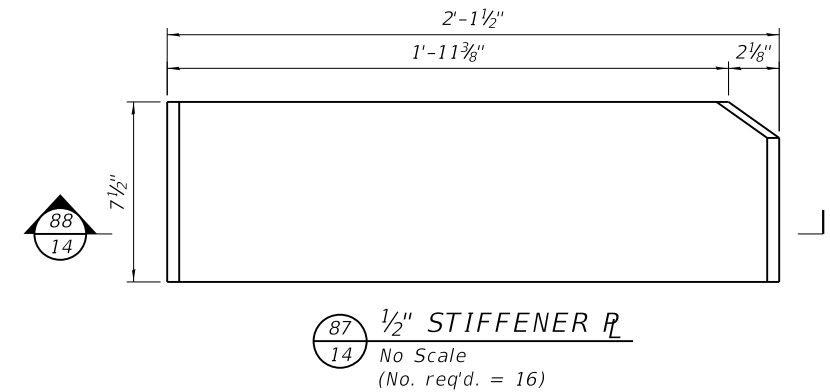
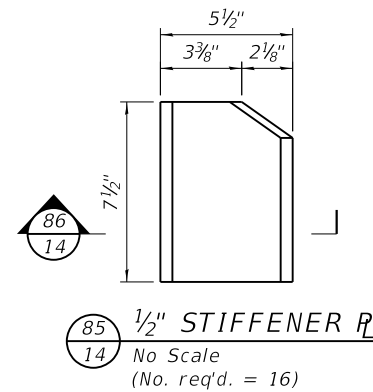
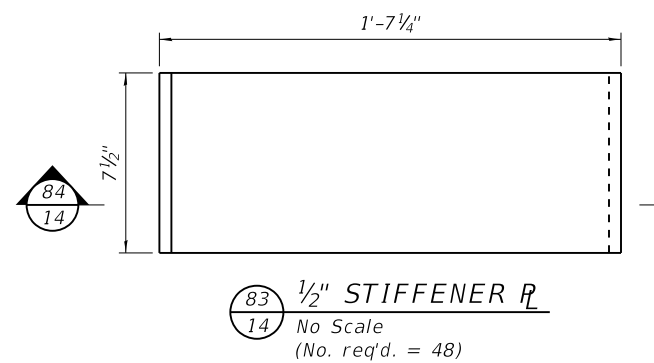
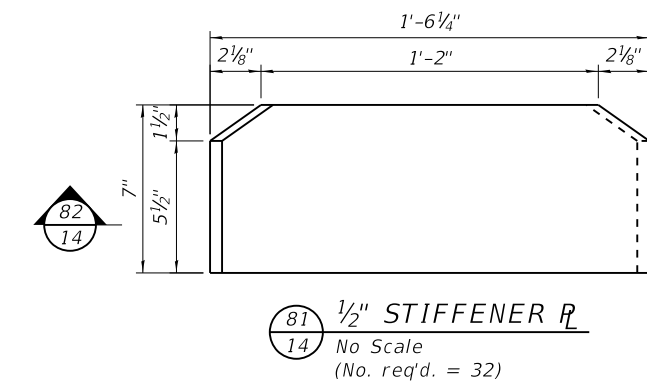
BILL OF MATERIAL

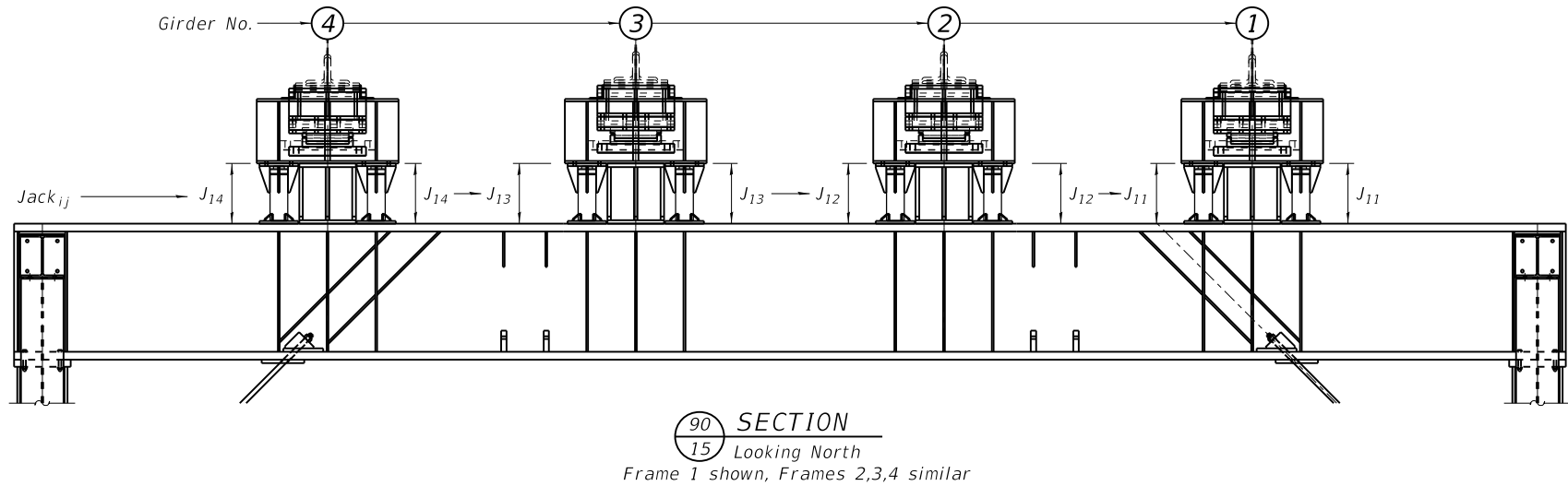
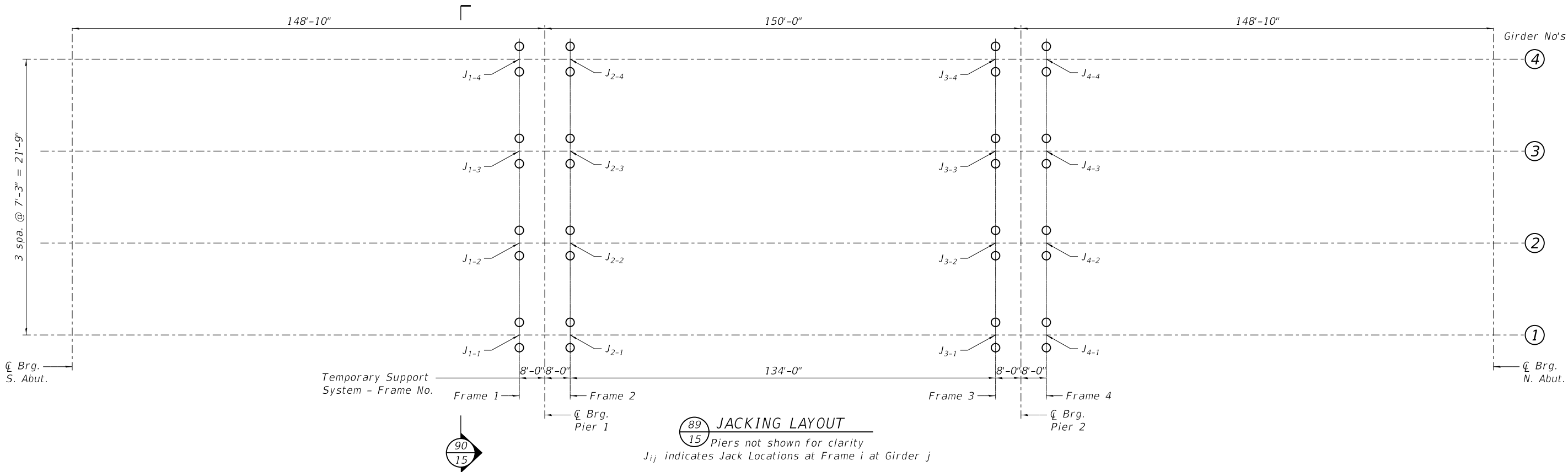
ITEM	UNIT	QUANTITY
Furnishing Steel Piles HP 14x117	Foot	420
Driving Piles	Foot	420
Test Piles Steel HP 14x117	Each	2
Pile Shoes	Each	8
Temporary Support System, Location 1	L. Sum	1
Temporary Support System, Location 2	L. Sum	1

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier_Support_Details.dgn



NOTE:
*Confirm Ø of hole is Ø + 1/8" of tied rod prior to shop drilling.





Step	Start Elevation*				Required Jack Load at Frame "F"																End Elevation*			
	Pier 1		Pier 2		F=1				F=2				F=3				F=4				Pier 1		Pier 2	
	Girder "G"		Girder "G"		Girder "G"				Girder "G"				Girder "G"				Girder "G"				Girder "G"		Girder "G"	
	G=1	G=4	G=1	G=4	G=1	G=2	G=3	G=4	G=1	G=2	G=3	G=4	G=1	G=2	G=3	G=4	G=1	G=2	G=3	G=4	**G=1	**G=4	**G=1	**G=4
1: Pier 2 "Deflected Position" (J _{F-G} , Kips per Jack)	558.10	558.13	557.90	558.09	—	—	—	—	—	—	—	—	J ₃₋₁ = ***	J ₃₋₂ = ***	J ₃₋₃ = ***	J ₃₋₄ = ***	J ₄₋₁ = ***	J ₄₋₂ = ***	J ₄₋₃ = ***	J ₄₋₄ = ***	558.10	558.13	558.18	558.18
2: Pier 2 "Raised Position" (J _{F-G} , Kips per Jack)	558.10	558.13	558.18	558.18	—	—	—	—	—	—	—	—	J ₃₋₁ = 34.95	J ₃₋₂ = 41.05	J ₃₋₃ = 41.05	J ₃₋₄ = 34.95	J ₄₋₁ = 65.3	J ₄₋₂ = 70.05	J ₄₋₃ = 70.05	J ₄₋₄ = 65.3	558.10	558.13	558.20	558.20
3: Pier 1 "Raised Position" (J _{F-G} , Kips per Jack)	558.10	558.13	558.20	558.20	J ₁₋₁ = 63.6	J ₁₋₂ = 68.4	J ₁₋₃ = 68.4	J ₁₋₄ = 63.6	J ₂₋₁ = 38.3	J ₂₋₂ = 44.5	J ₂₋₃ = 44.5	J ₂₋₄ = 38.3	—	—	—	—	—	—	—	—	558.20	558.20	558.20	558.20
4: Pier 1 & 2 "Design Position" (J _{F-G} , Kips per Jack)	558.20	558.20	558.20	558.20	J ₁₋₁ = 63.6	J ₁₋₂ = 68.4	J ₁₋₃ = 68.4	J ₁₋₄ = 63.6	J ₂₋₁ = 38.3	J ₂₋₂ = 44.5	J ₂₋₃ = 44.5	J ₂₋₄ = 38.3	J ₁₋₁ = 38.3	J ₁₋₂ = 44.5	J ₁₋₃ = 44.5	J ₁₋₄ = 38.3	J ₂₋₁ = 63.6	J ₂₋₂ = 68.4	J ₂₋₃ = 68.4	J ₂₋₄ = 63.6	558.18	558.18	558.18	558.18

NOTES:
See Special Provisions for Jack and Remove Existing Bearings
— Indicates no Jacking Required or Indicates Girders are supported by Temporary Pedestals.
* Contractor shall verify this elevation at the fascia girders at $\bar{C}$ Bearing of the Piers.
** Contractor shall verify that Girder 2 and Girder 3 are 0.07' higher than Girder 1 and Girder 4 respectively.
*** Increase jack force from 0.0 kips until Girder 1 and Girder 4 are level.

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Phase 2 and 3 Initial and Final Jacking.dgn

WILLET HOFMANN

& ASSOCIATES INC

ENGINEERING ARCHITECTURE LAND SURVEYING

809 EAST 2ND STREET, DIXON, IL 61021-0367

T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED	-	PLP	REVISED	-
CHECKED	-	SM	REVISED	-
DRAWN	-	RDA	REVISED	-
CHECKED	-	BKC	REVISED	-

LASALLE & KENDALL COUNTY

FAS 171(CH 3—MILLINGTON RD) OVER FOX RIVER

STATION 20 + 00

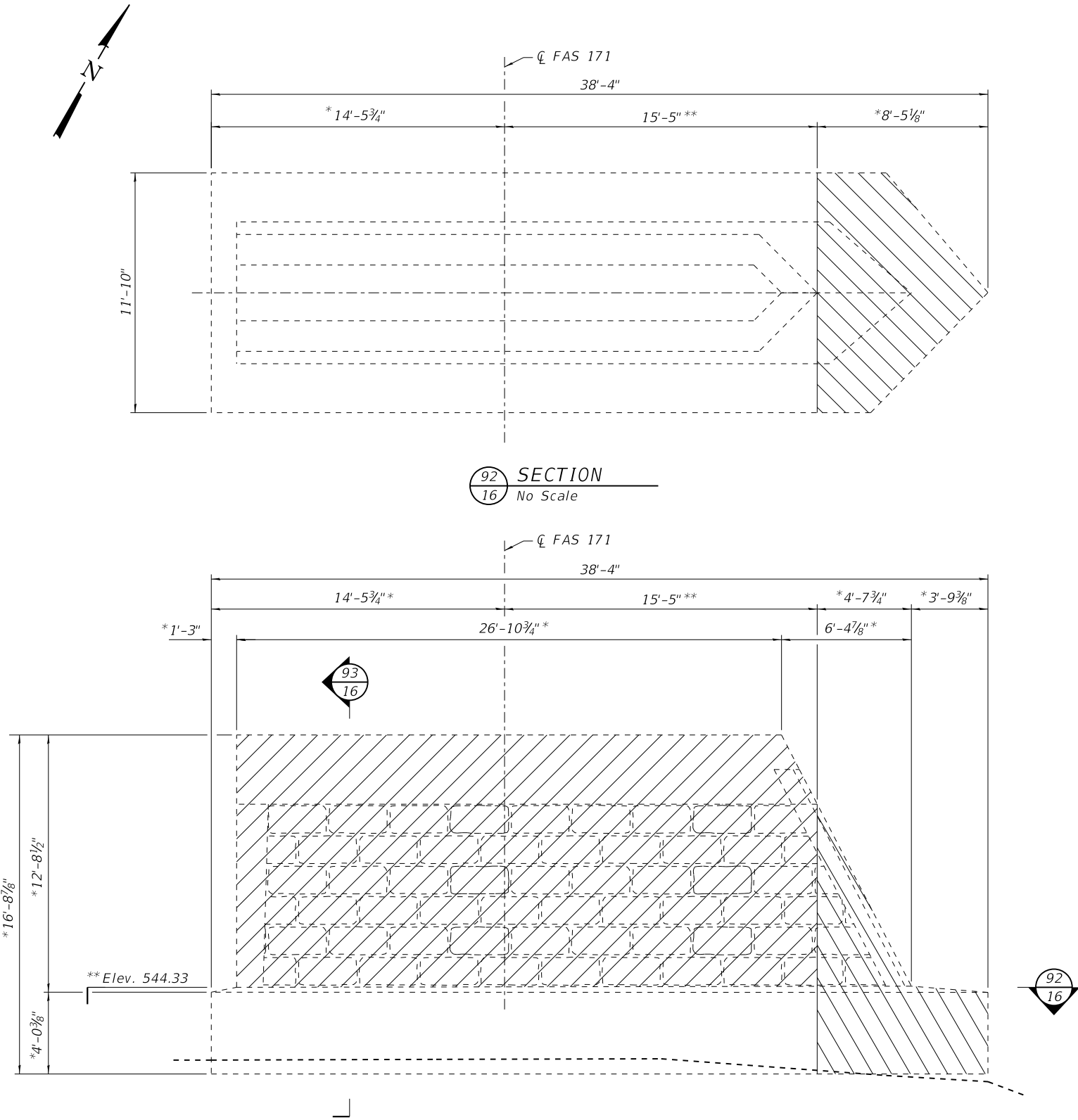
PHASE 2 & 3: INITIAL & FINAL JACKING

STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 15 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	27
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 1 Concrete Removal.dgn



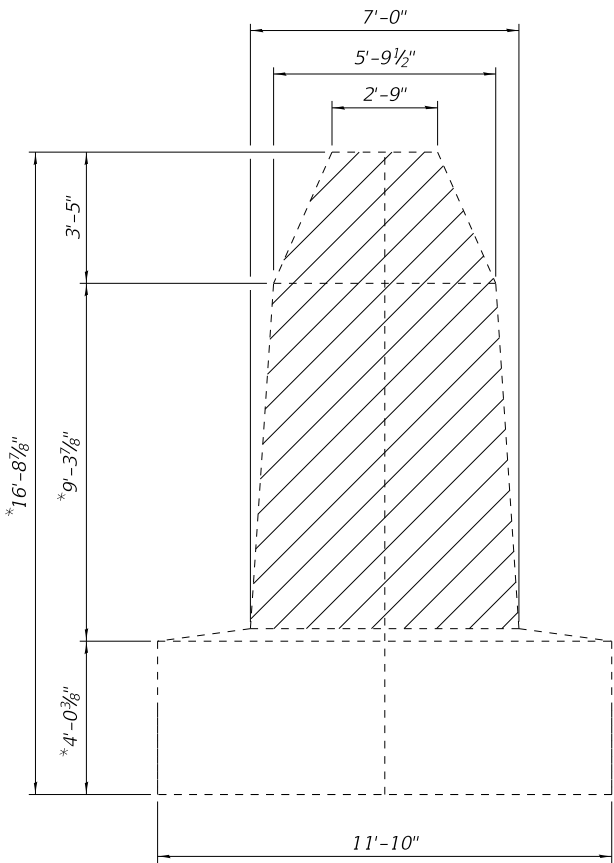
91 CONCRETE REMOVAL ELEVATION VIEW - PIER 1
16 No Scale

NOTES:

- * Measurements based on May 2017 field survey. Contractor shall field verify due to potential pier settlement since May 2017.
- ** Indicates elevations and offsets that Contractor shall adhere to accommodate proposed Concrete Structures.

LEGEND:

-  = Full-Depth Concrete Removal of Pier 1
-  = Partial Concrete Removal of Pier 1



93 SECTION
16 No Scale

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	92.2



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

DESIGNED - SM
CHECKED - PLP
DRAWN - RDA
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

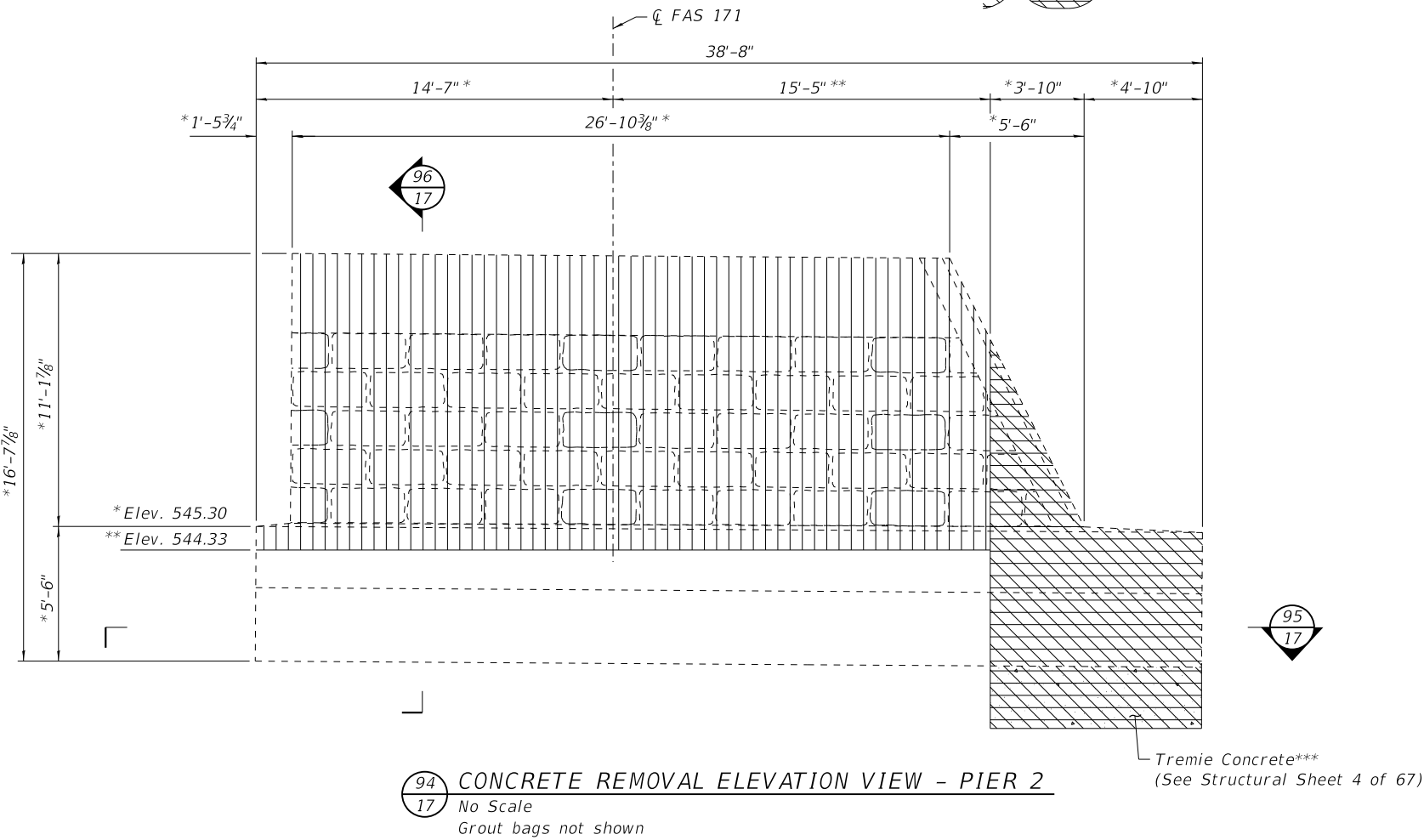
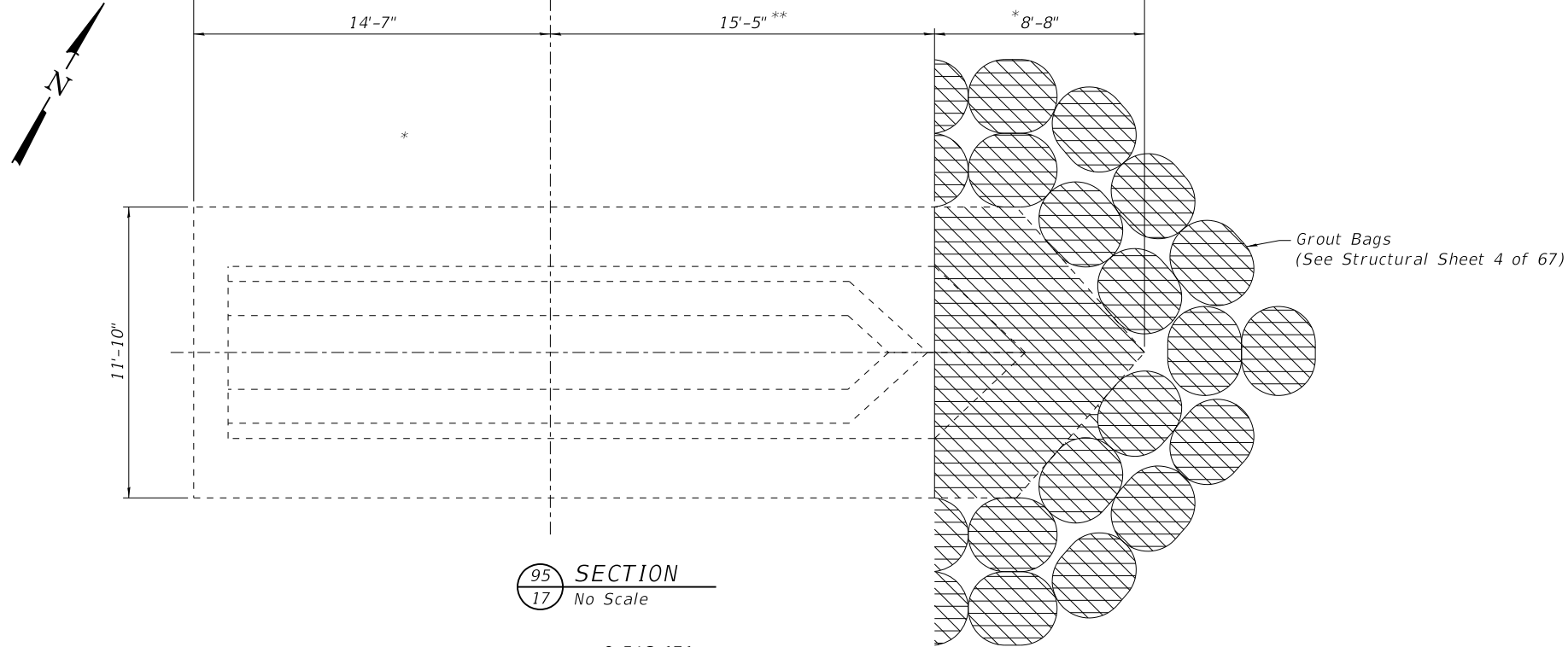
PHASE 2: PIER 1 CONCRETE REMOVAL
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 16 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR 17-00142-00-BR	LASALLE KENDALL	93	28

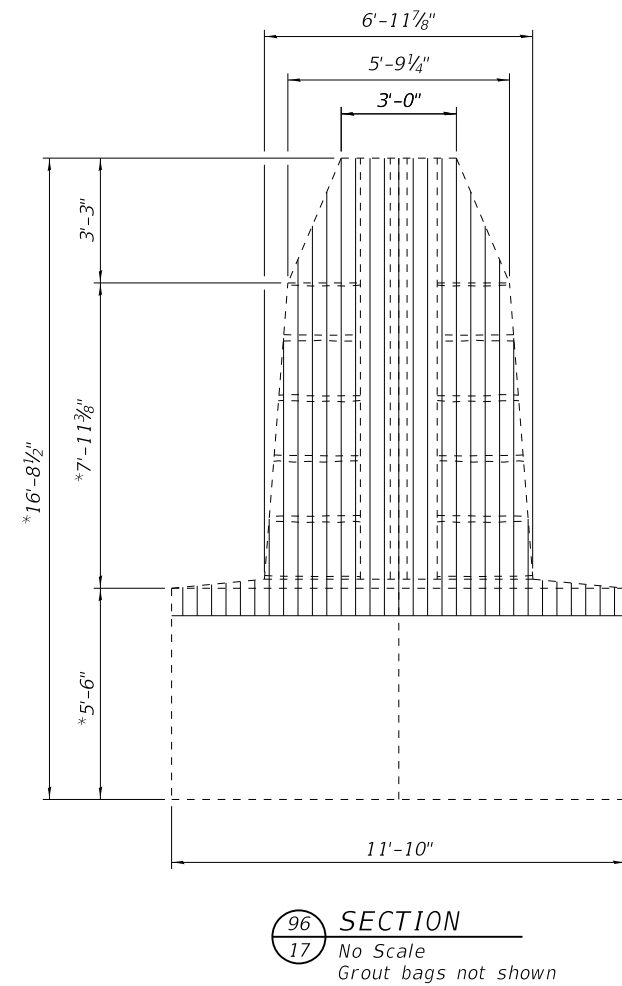
WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683

FILE : S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17_Pier 2 Concrete Removal.dgn



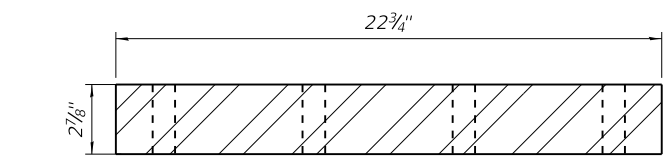
NOTES:
* Measurements based on May 2017 field survey. Contractor shall field verify due to potential pier settlement since May 2017.
** Indicates elevations and offsets that Contractor shall adhere to accommodate proposed Concrete Structures.
*** Cost to be included with Concrete Removal. See Special Provisions.

LEGEND:
= Full-Depth Concrete Removal of Pier 2
= Partial Concrete Removal of Pier 2

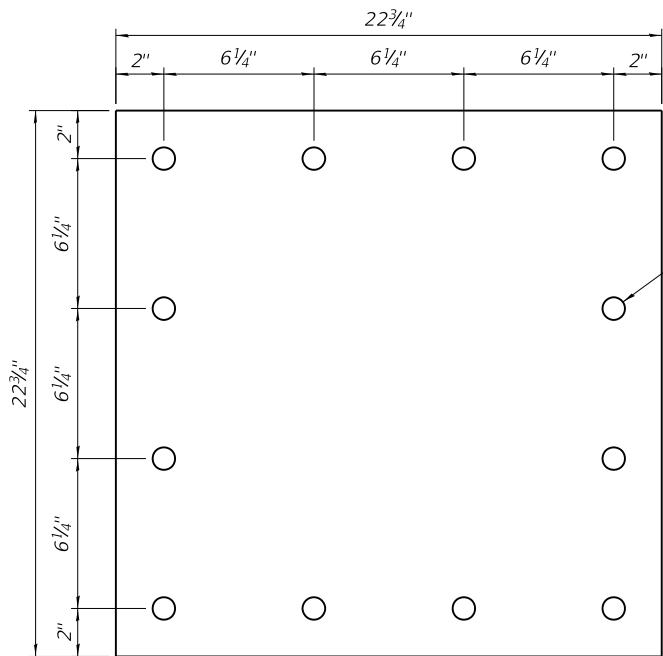


BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	102.7

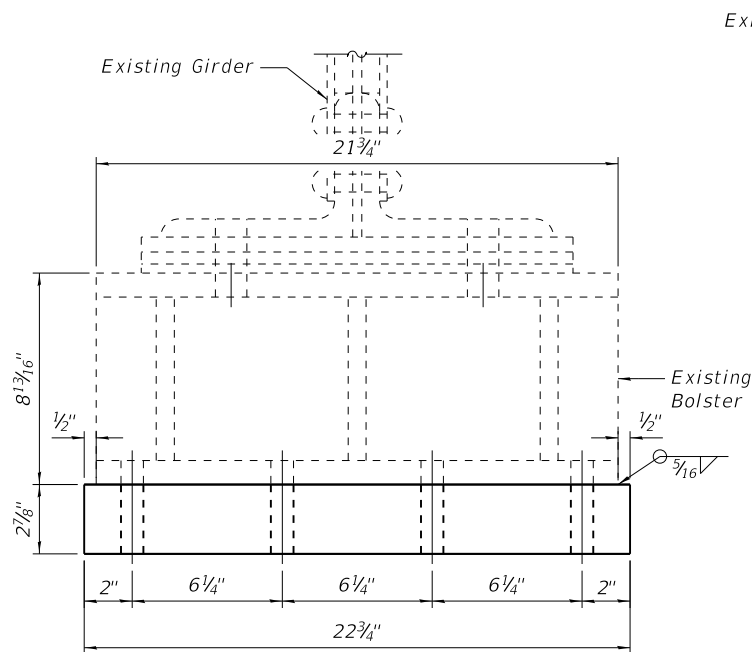
FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Bearing_Details.dgn



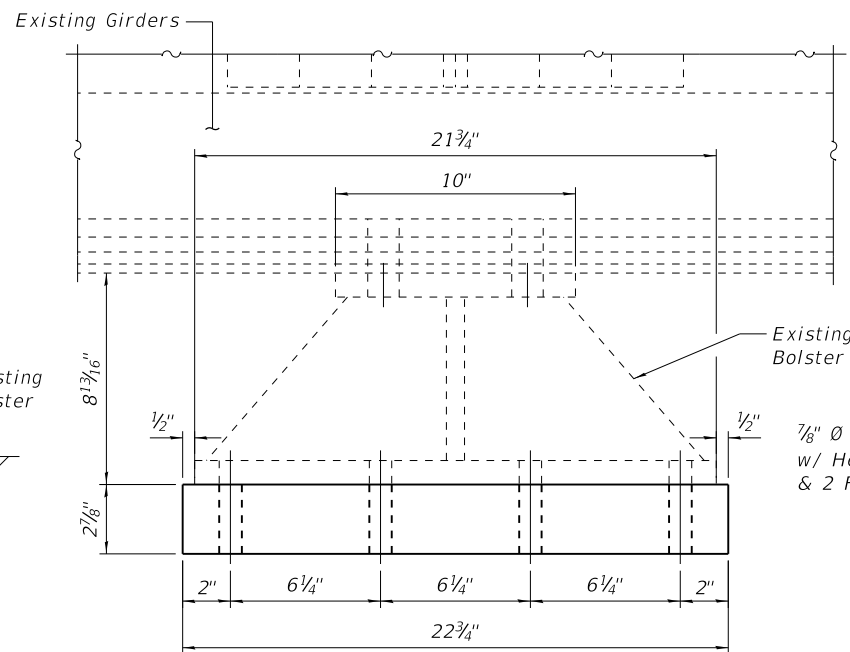
PROFILE VIEW
PIER #1 FILLER PLATE*



PLAN VIEW
PIER #1 FILLER PLATE*



PIER #1 FILLER PLATE DETAILS



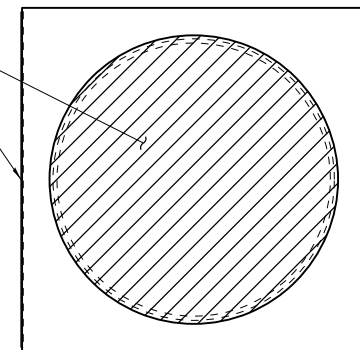
PIER #1 FILLER PLATE DETAILS

PIER #1 BEARING MODIFICATIONS

3/32" TFE to be ground
flush with piston prior
to welding

PROFILE VIEW
EXISTING PISTON PLATE

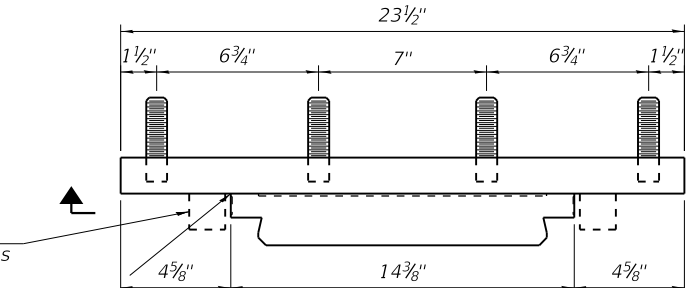
3/32" TFE to be removed
prior to welding



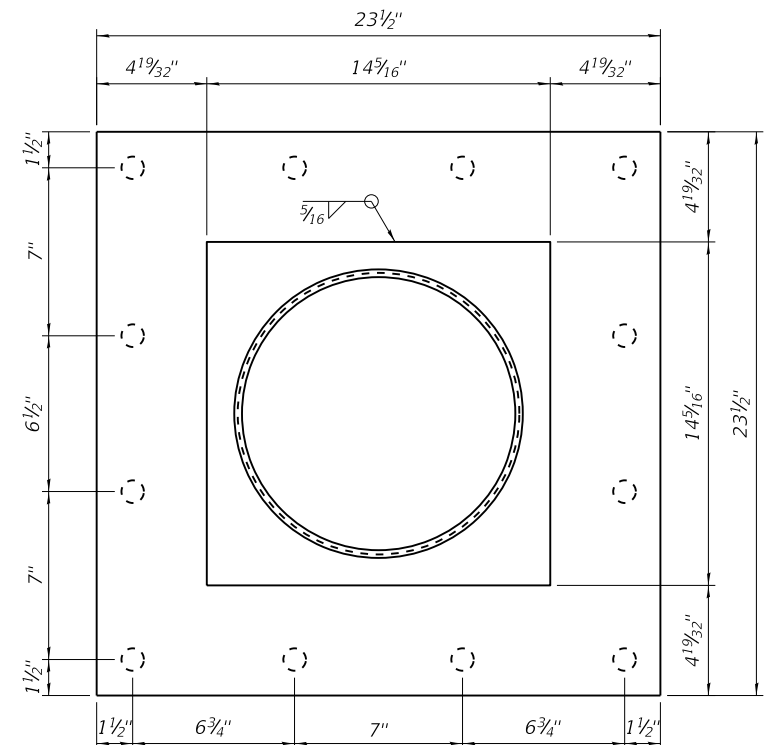
TOP VIEW
EXISTING PISTON PLATE

3/32" TFE to be ground
flush with piston prior
to welding

Guide bars to be
removed and welds
ground smooth



PROFILE VIEW
MODIFIED TOP & PISTON PLATES



BOTTOM VIEW
MODIFIED TOP & PISTON PLATES

PIER #2 BEARING MODIFICATIONS

NOTE - PIERS #1 & #2

See Special Provisions for all requirements of bearing modifications.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

(2) 1/8" adjusting shims shall be provided for each bearing in addition to all other R's required and placed as shown on bearing details.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Jack and Remove Existing Bearings	Each	8
Anchor Bolts, 1 1/4"	Each	32

*Cost included with Jack and Remove Existing Bearings



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CHECKED - PLP
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

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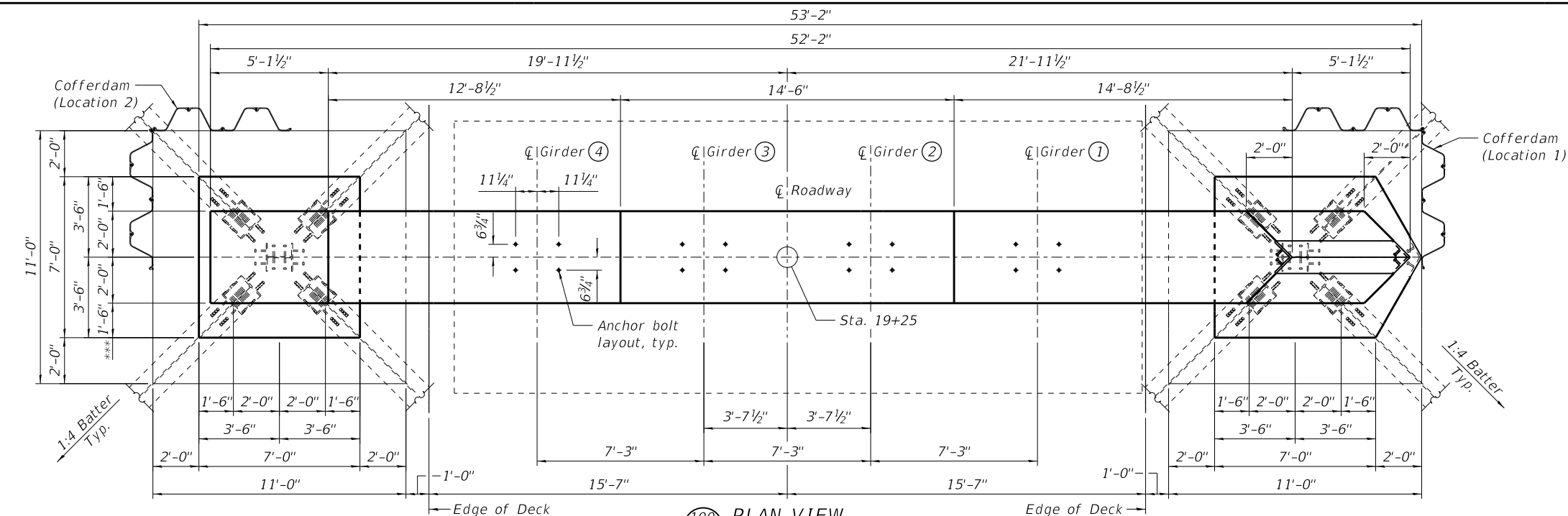
PHASE 3: PIER #1 & PIER #2 BEARING MODIFICATIONS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 18 OF 67 SHEETS

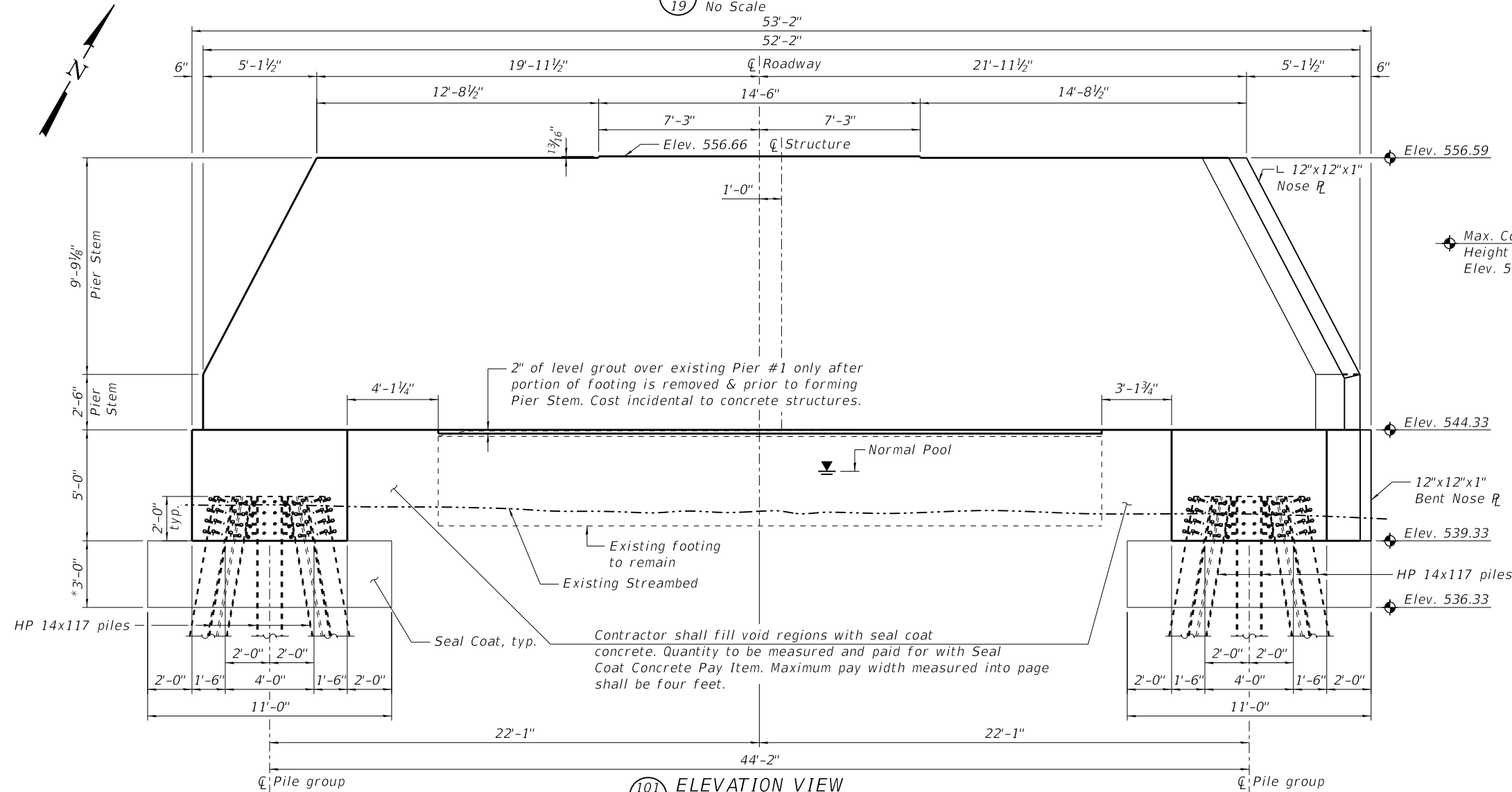
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	30
171	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

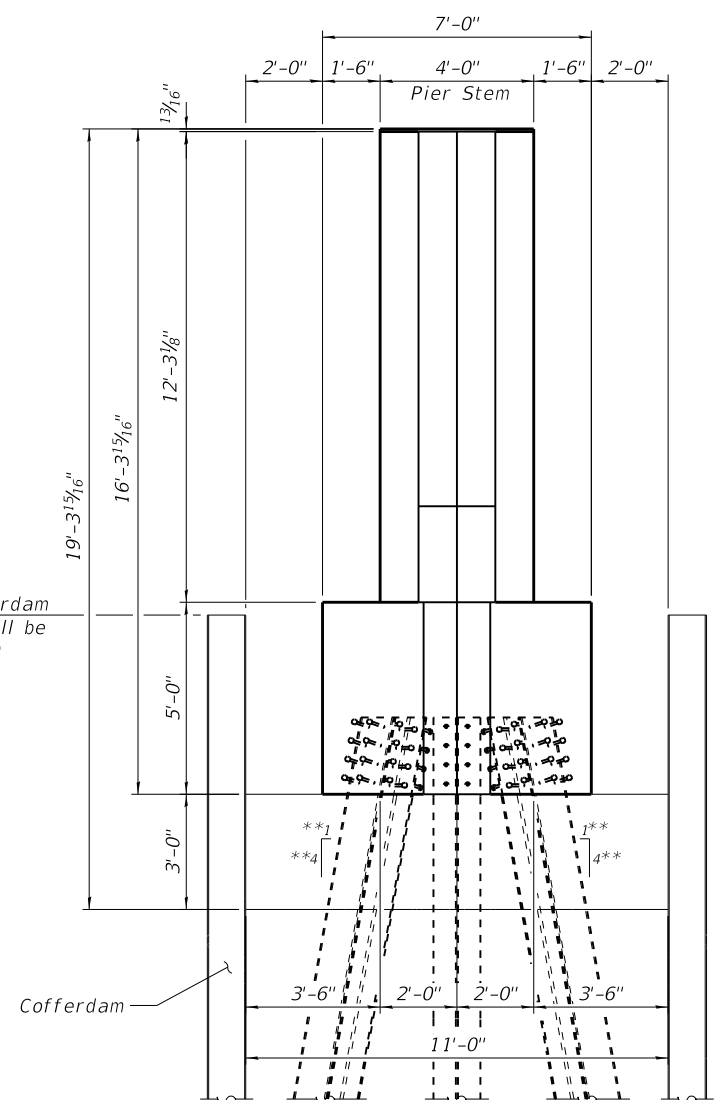
FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 1 Details.dgn



100 PLAN VIEW
19 No Scale



101 ELEVATION VIEW
19 No Scale



102 EAST END VIEW
19 No Scale
See plan View for Batter

NOTES

See Structural Sheet 22 of 67 for Bill of material.
Plan View pile dimensions are referenced from bottom of pile cap at Elev. 539.33, typ..
Details 97 - 99 are reserved.

*Minimum Seal Coat thickness.

**See Plan View for correct orientation



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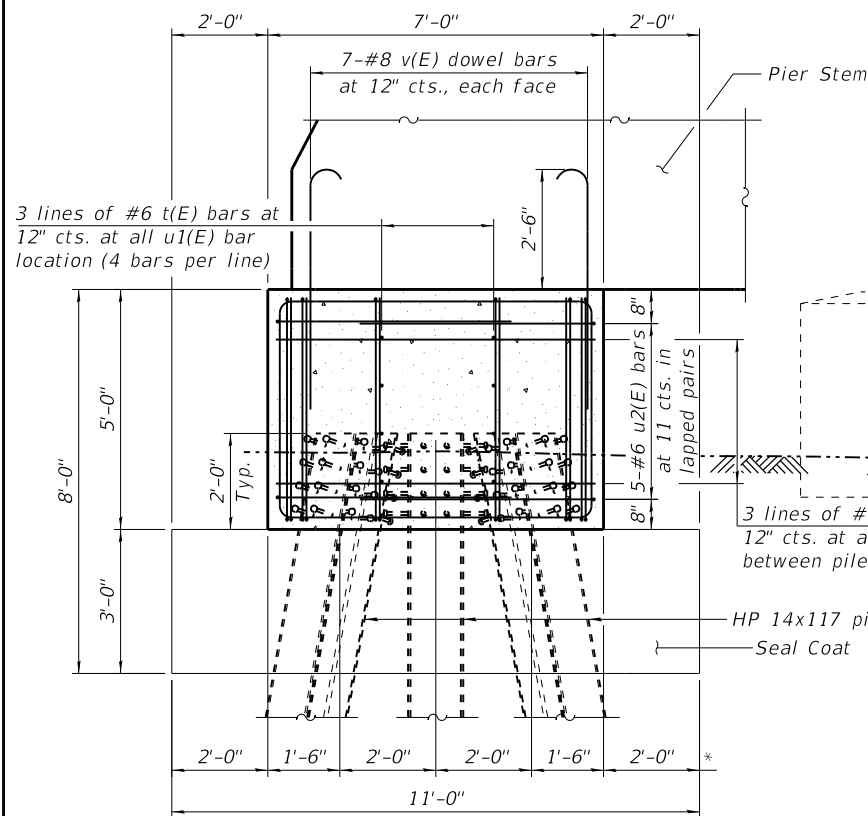
PHASE 3: PIER # 1 - PLAN AND ELEVATION
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 19 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	31
171	17-00142-00-BR	KENDALL		

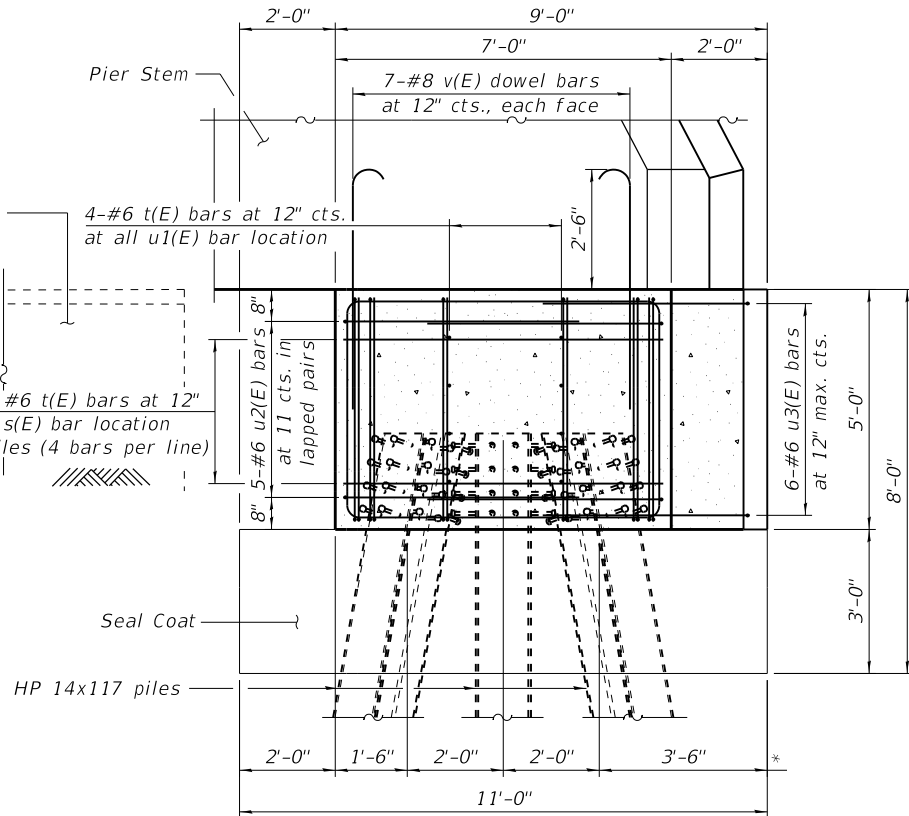
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

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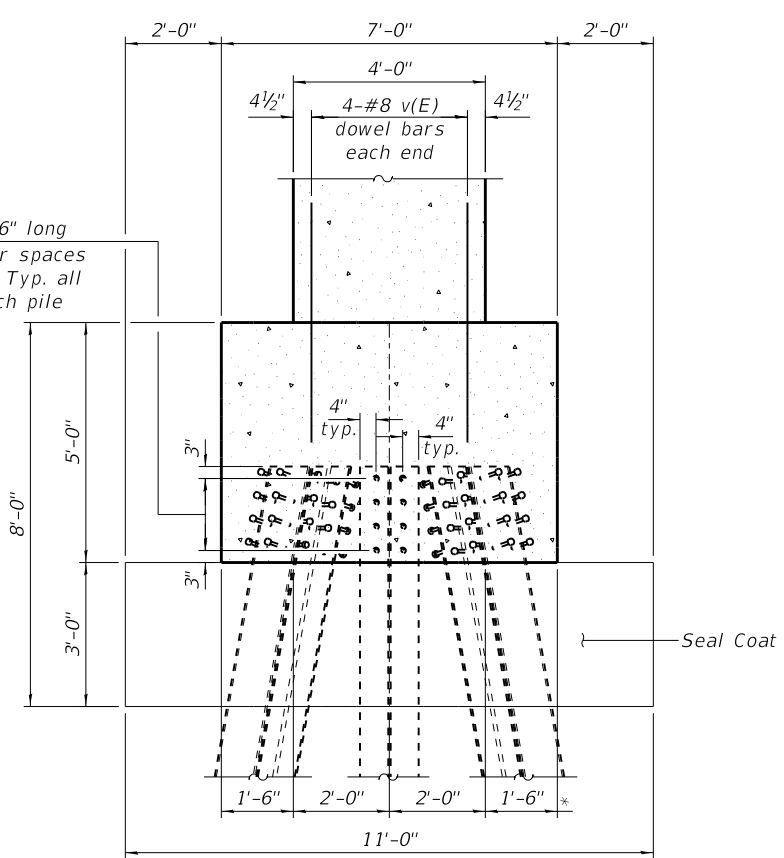
DOWNSTREAM FOOTING

103 ELEVATION VIEWS
20 No Scale

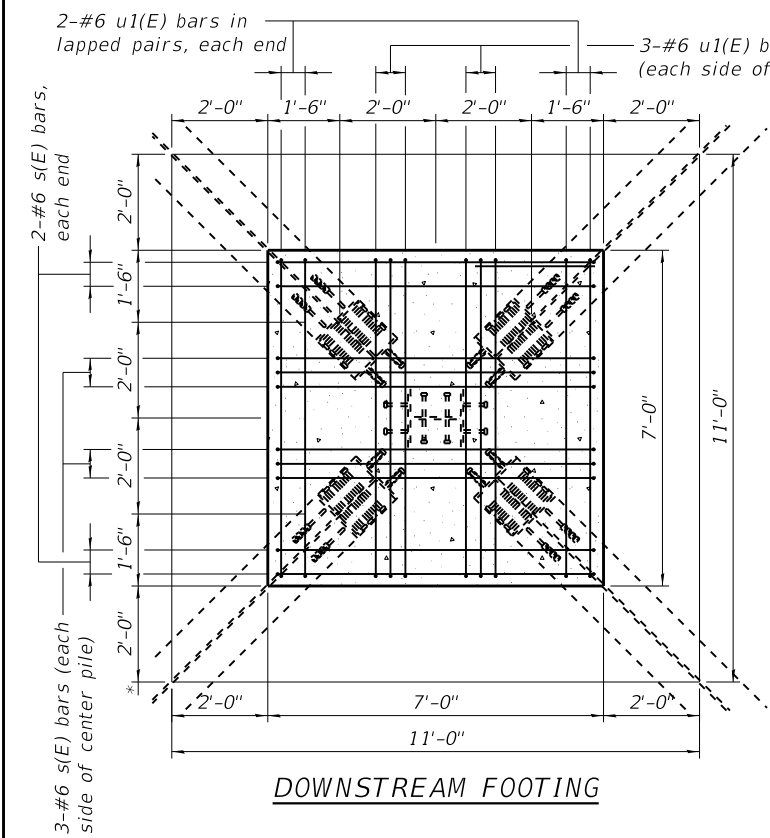


UPSTREAM FOOTING

NOTE:
Stud shear connectors shall be 3/4" Ø X 6" Granular or solid flux filled headed studs, automatically end welded to flange. (320 Required)

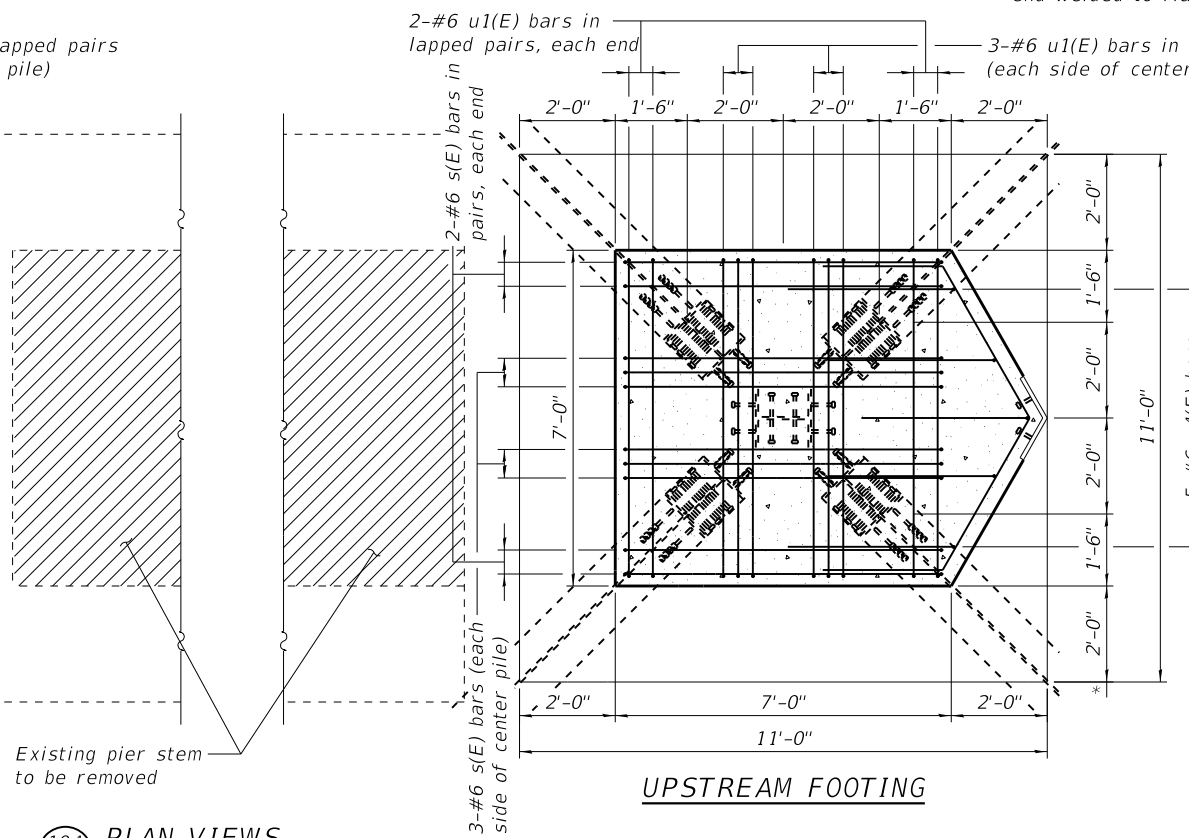


105 DOWNSTREAM END - ELEVATION SECTION
20 No Scale

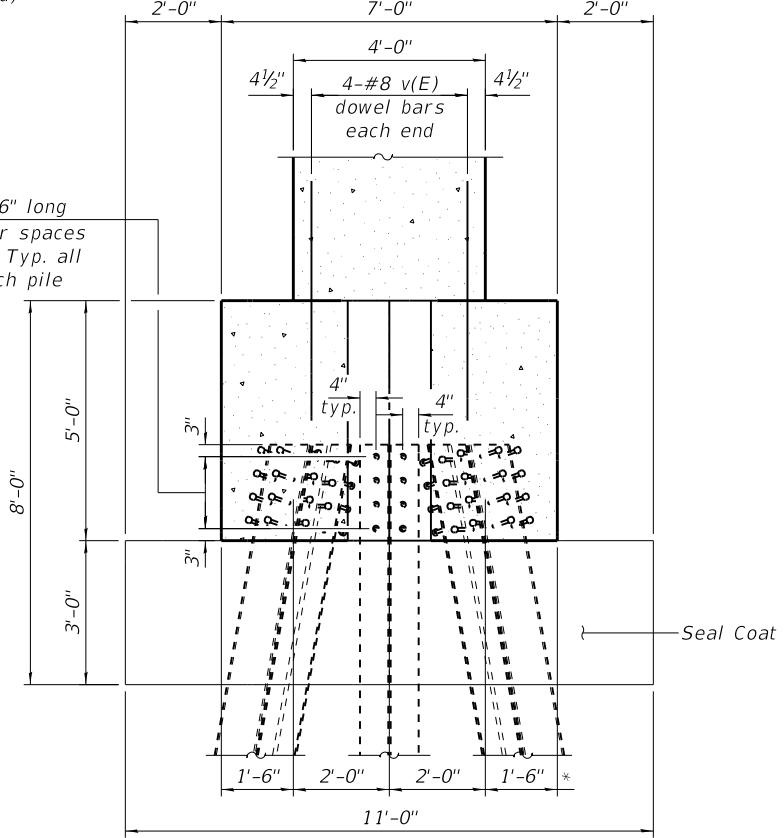


DOWNSTREAM FOOTING

104 PLAN VIEWS
20 No Scale



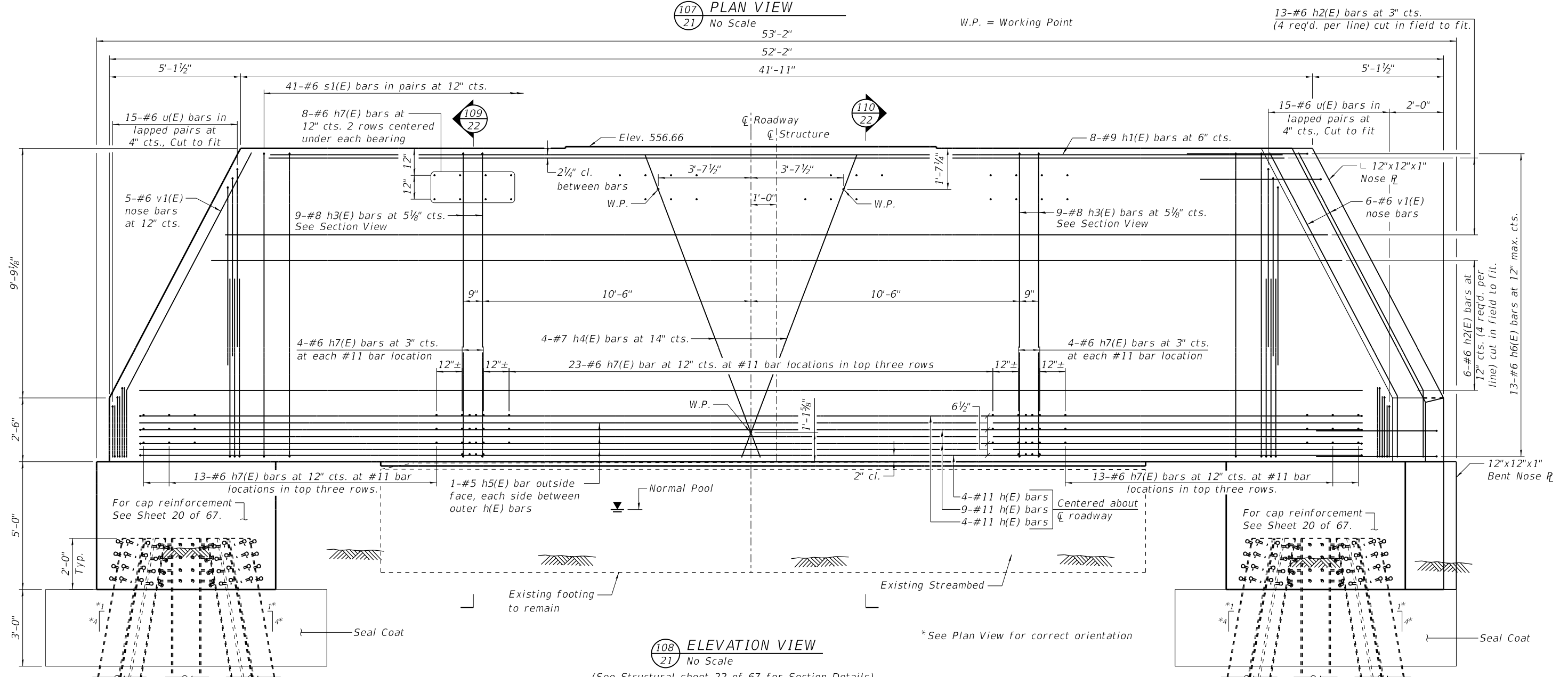
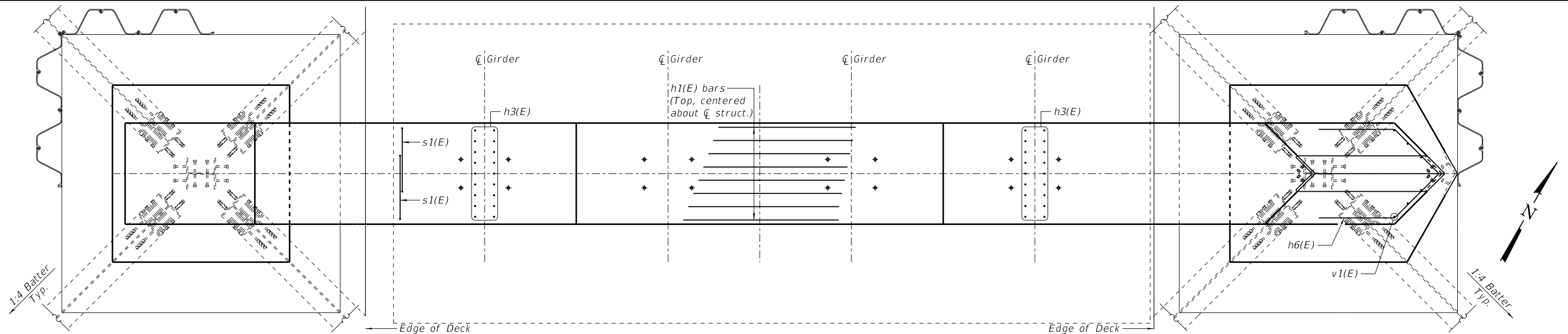
UPSTREAM FOOTING



106 UPSTREAM END - ELEVATION SECTION
20 No Scale

*Dimensions at Elev. 539.33, typ.

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 1 Details.dgn



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DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

DESIGNED	- BKC	REVISED	-
CHECKED	- BKC/SM	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

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PHASE 3: PIER # 1 - PIER STEM REINFORCEMENT DETAILS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 21 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	33
	17-00142-00-BR	KENDALL		

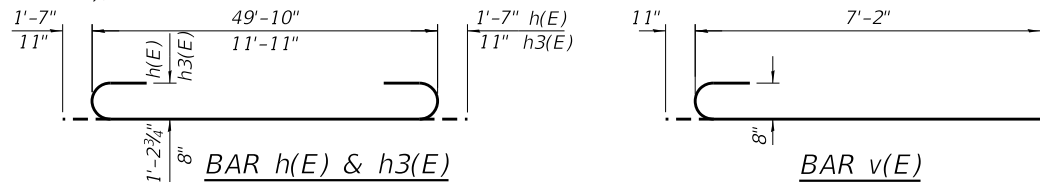
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 1 Details.dgn

PILE DATA

Type: Steel Pile HP 14X117 with shoes
Nominal Required Bearing: 929 kips
Factored Resistance Available: 511 kips
Est. Length: 61' (Battered) & 59.5' (non-Battered)
(Piles shall be driven to top of rock)
No. Production Piles: 10
No. Test Piles: None

109 SECTION
22 No Scale
(Showing placement of h3(E) bars only)



BAR h(E) & h3(E)

BAR v(E)

BAR h6(E)

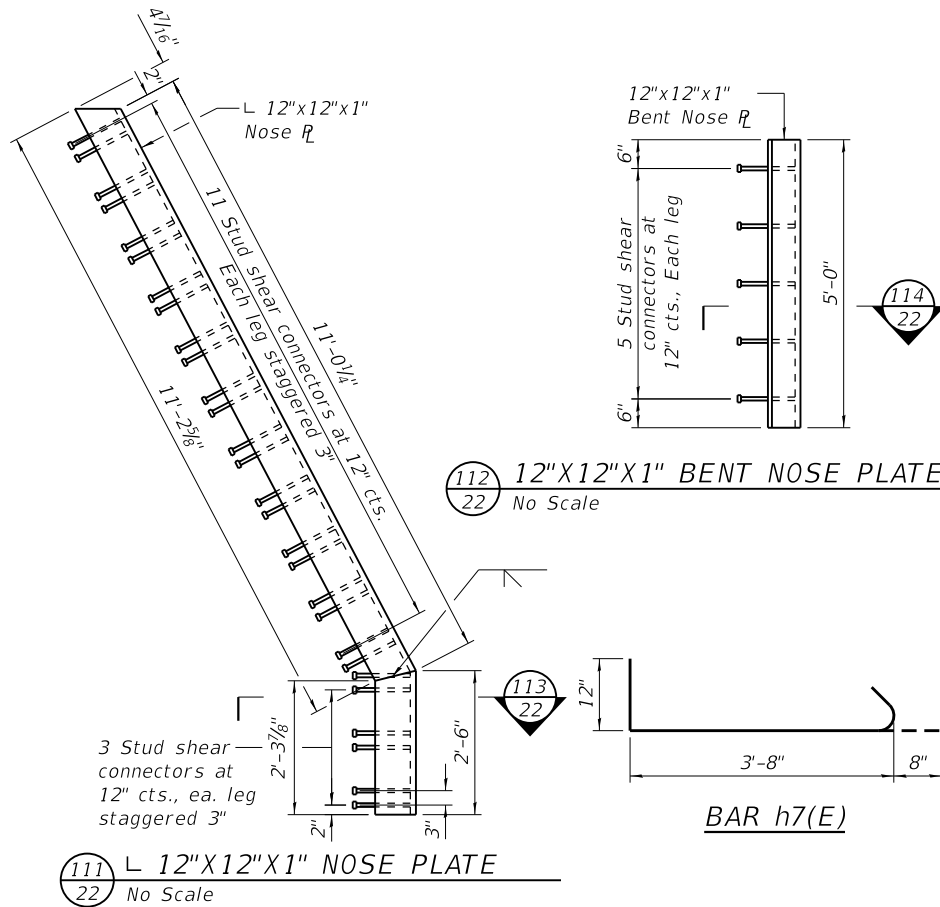
BAR v1(E)

NOTES

Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Position of reinforcement shall be adhered to for this Strut & Tie design.
See Structural sheet 16 of 67 for detail of existing pier removal.
Steel nose angles and plates shall be hot-dipped galvanized in accordance with AASHTO M232.

PIER #1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	26	#11	53'-0"	
h1(E)	8	#9	39'-7"	
h2(E)	76	#6	49'-10"	
h3(E)	36	#8	13'-9"	
h4(E)	8	#7	12'-8"	
h5(E)	6	#5	49'-10"	
h6(E)	13	#6	11'-2"	
h7(E)	211	#6	5'-4"	
s(E)	20	#6	24'-0"	
s1(E)	82	#6	30'-0"	
t(E)	48	#6	6'-8"	
u(E)	120	#6	16'-5"	
u1(E)	40	#6	16'-0"	
u2(E)	20	#6	16'-6"	
u3(E)	6	#6	12'-6"	
u4(E)	5	#6	11'-8"	
v(E)	44	#8	8'-1"	
v1(E)	11	#6	18'-3"	
Cofferdam Excavation			Cu. Yd.	36
Cofferdam Type 2 (Location 1)			Each	1
Cofferdam Type 2 (Location 2)			Each	1
Concrete Structures			Cu. Yd.	107
Seal Coat Concrete			Cu. Yd.	31.1
Furnishing & Erecting Structural Steel			Pound	1,456
Stud Shear Connectors			Each	358
Reinforcement Bars, Epoxy Coated			Pound	28,600
Furnishing Steel Piles HP14x117			Foot	607
Driving Piles			Foot	607
Pile Shoes			Each	10



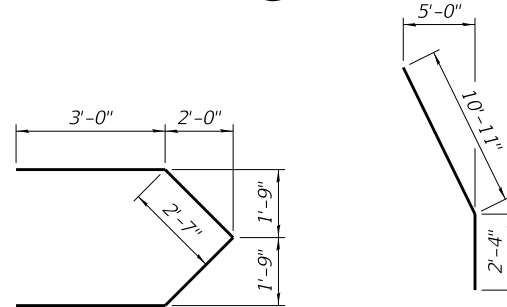
111 SECTION
22 No Scale

3/4" Ø X 12" Granular or solid flux filled headed studs, automatically end welded to flange. (28 Required)

113 SECTION
22 No Scale

3/4" Ø x 12" Granular or solid flux filled headed studs, automatically end welded to flange. (10 Required)

114 SECTION
22 No Scale



BAR h6(E)

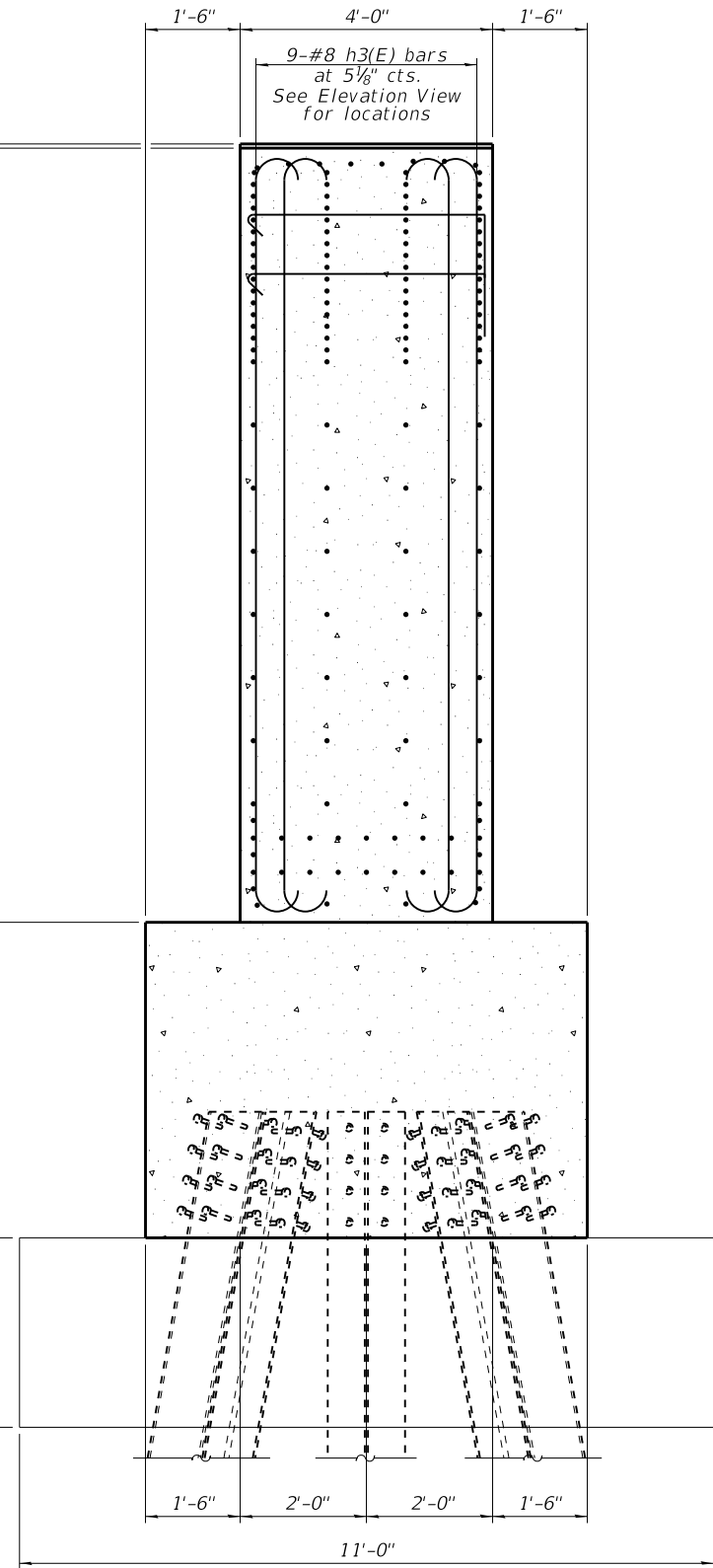
BAR v1(E)

BAR u(E) & u1(E)

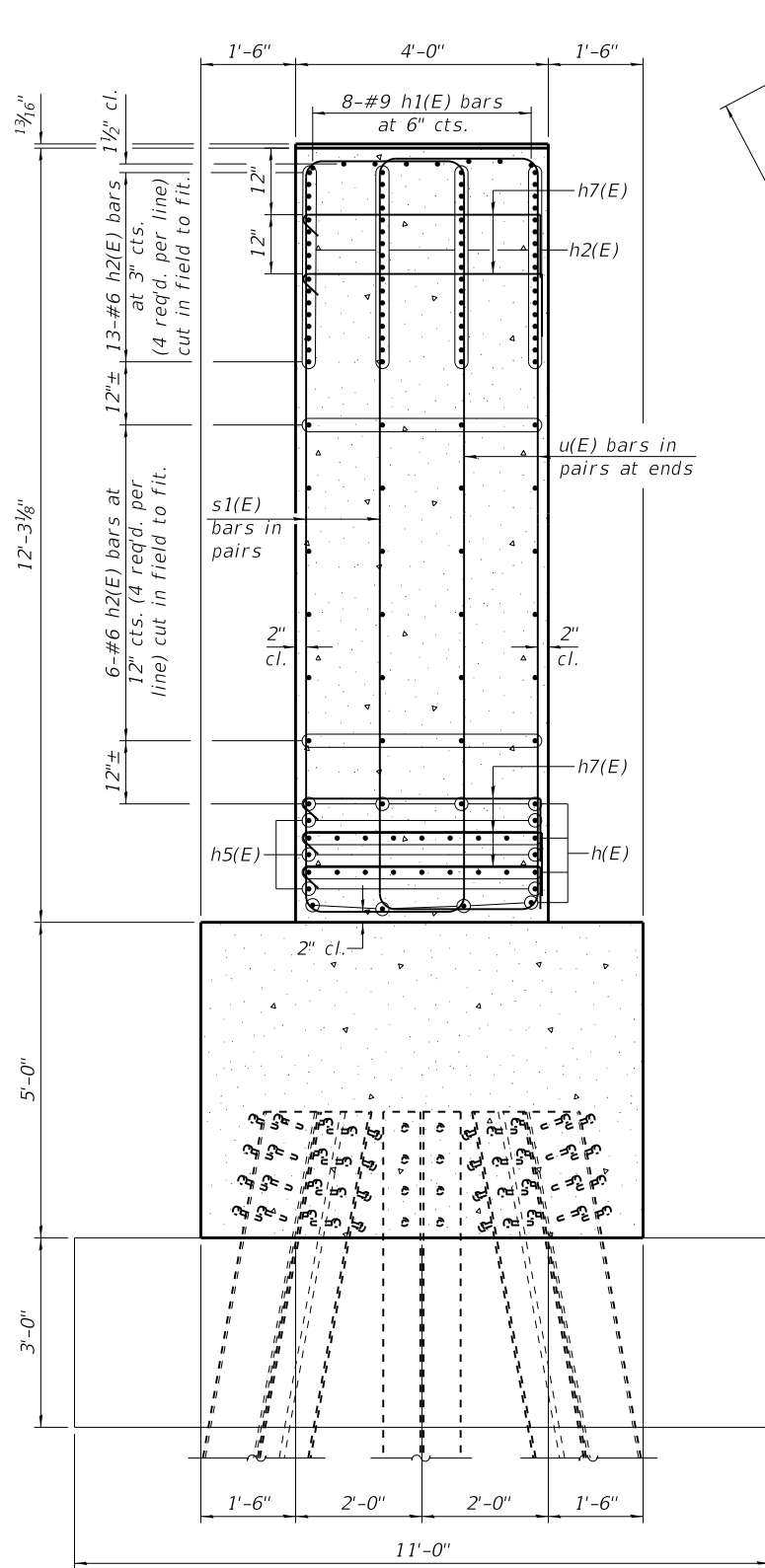
BAR u3(E)

BAR u2(E) & u4(E)

BAR s(E) & s1(E)



109 SECTION
22 No Scale



110 SECTION
22 No Scale

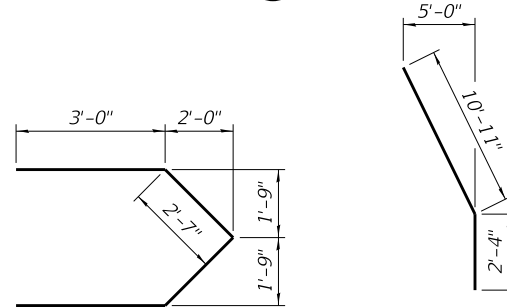
111 SECTION
22 No Scale

3/4" Ø X 12" Granular or solid flux filled headed studs, automatically end welded to flange. (28 Required)

113 SECTION
22 No Scale

3/4" Ø x 12" Granular or solid flux filled headed studs, automatically end welded to flange. (10 Required)

114 SECTION
22 No Scale



BAR h6(E)

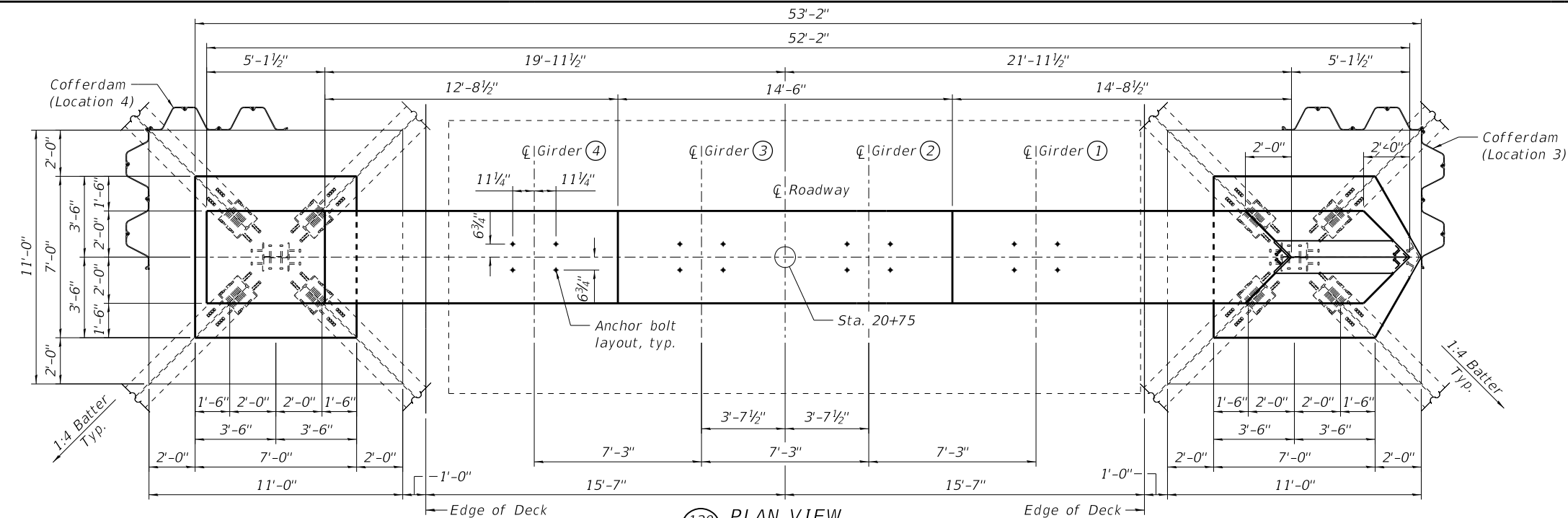
BAR v1(E)

BAR u(E) & u1(E)

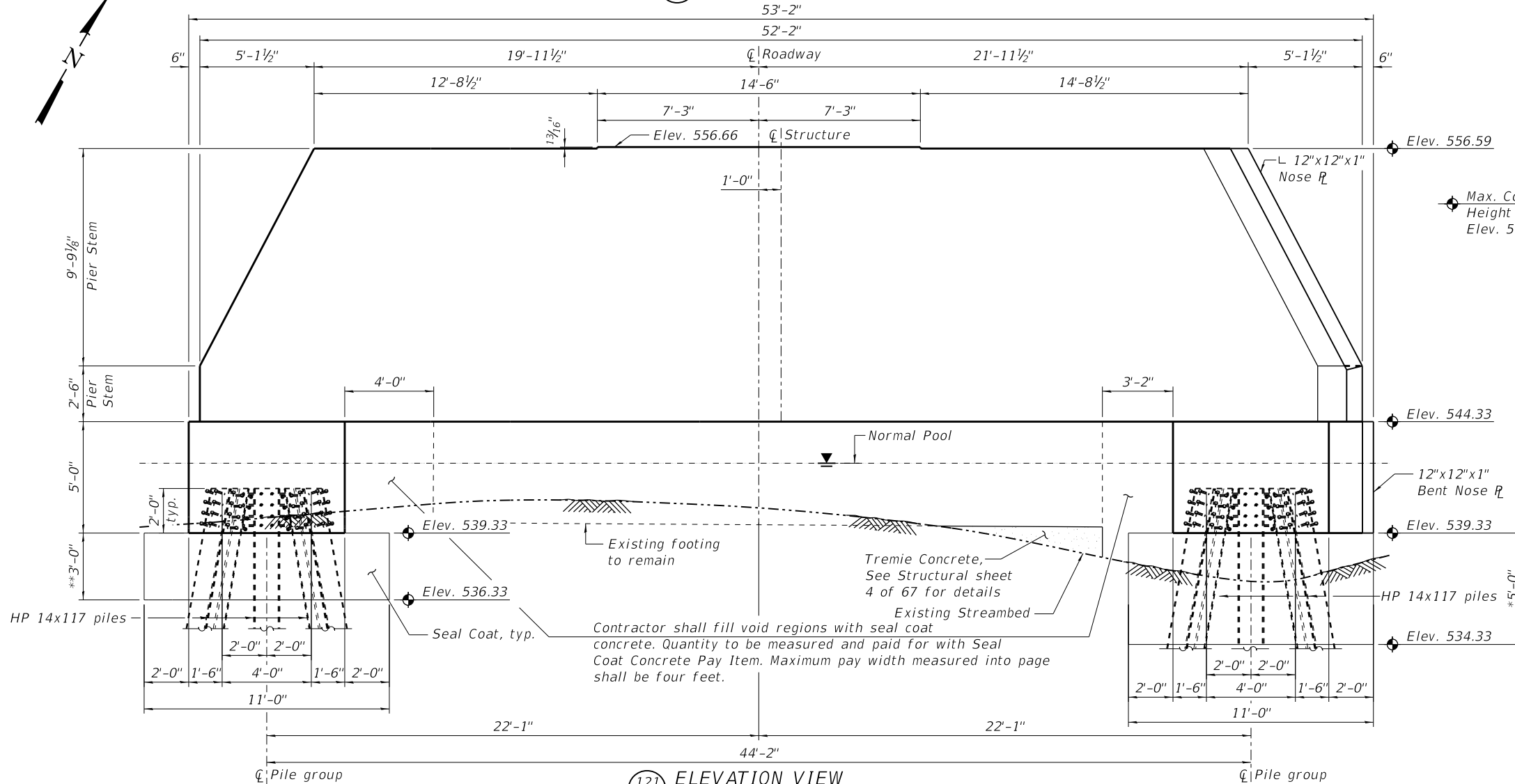
BAR u3(E)

BAR u2(E) & u4(E)

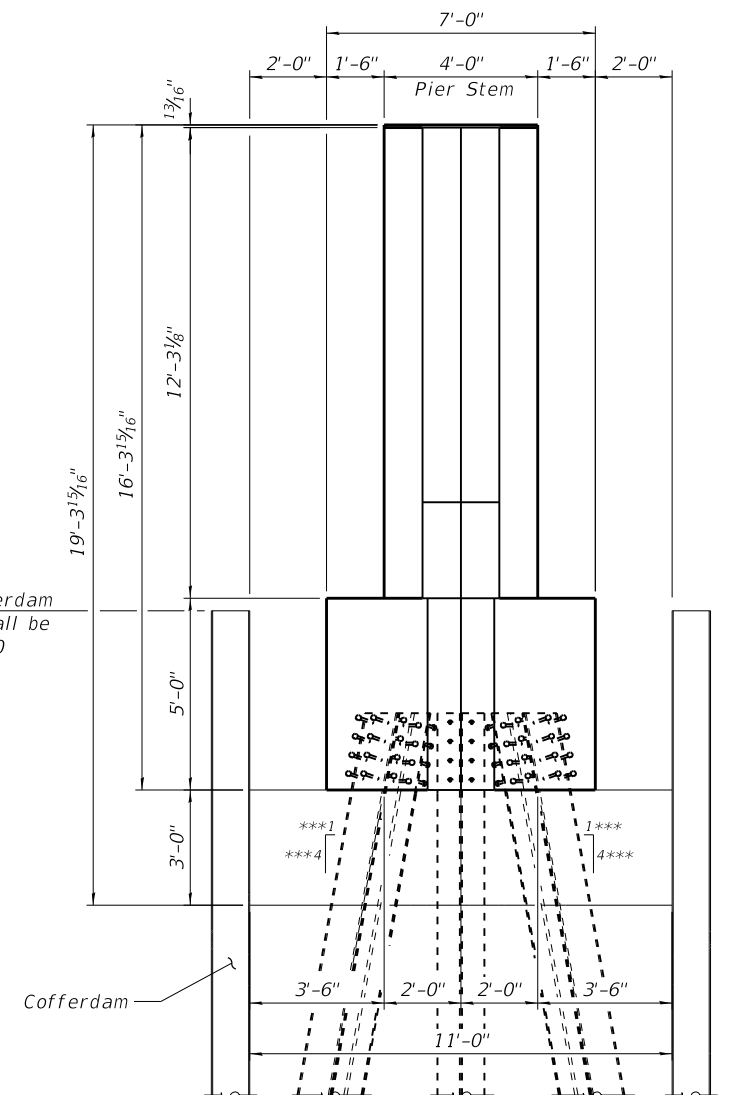
BAR s(E) & s1(E)



120 PLAN VIEW
23 No Scale



121 ELEVATION VIEW
23 No Scale



122 EAST END VIEW
23 No Scale

NOTES

See Structural Sheet 26 of 67 for Bill of material.
Plan View pile dimensions are referenced from bottom of pile cap at Elev. 539.33, typ..

Details 115 - 119 are reserved.

* East end of Pier #2 shall have a minimum seal coat thickness of 5'-0" regardless of calculations.

** Minimum seal coat thickness.

*** See Plan View for correct orientation

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 2 Detail.dgn



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DESIGNED - BKC
CHECKED - BKC/SM
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
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LASALLE & KENDALL COUNTY
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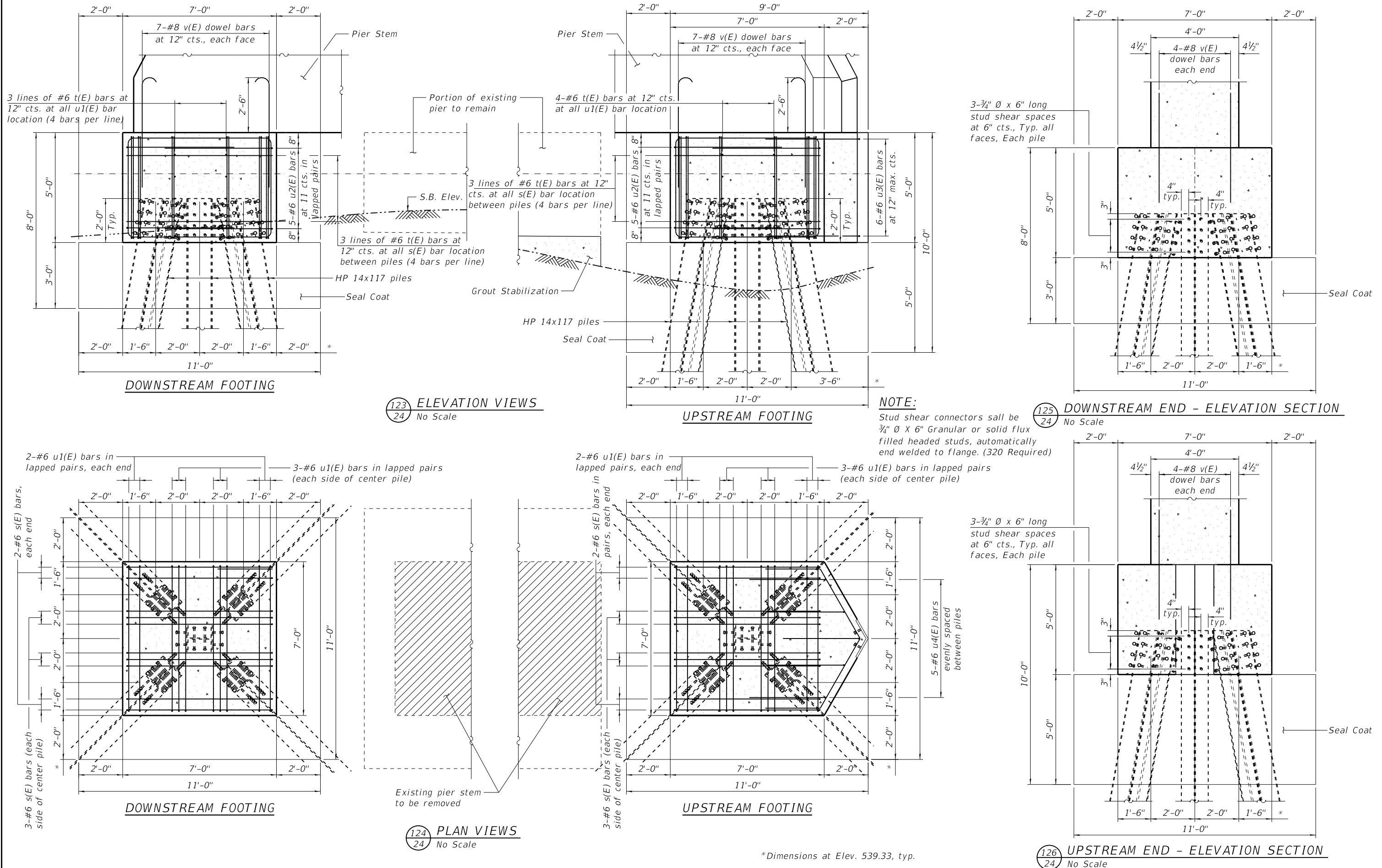
PHASE 3: PIER # 2 - PLAN AND ELEVATION
STRUCTURE NO. 047-3000

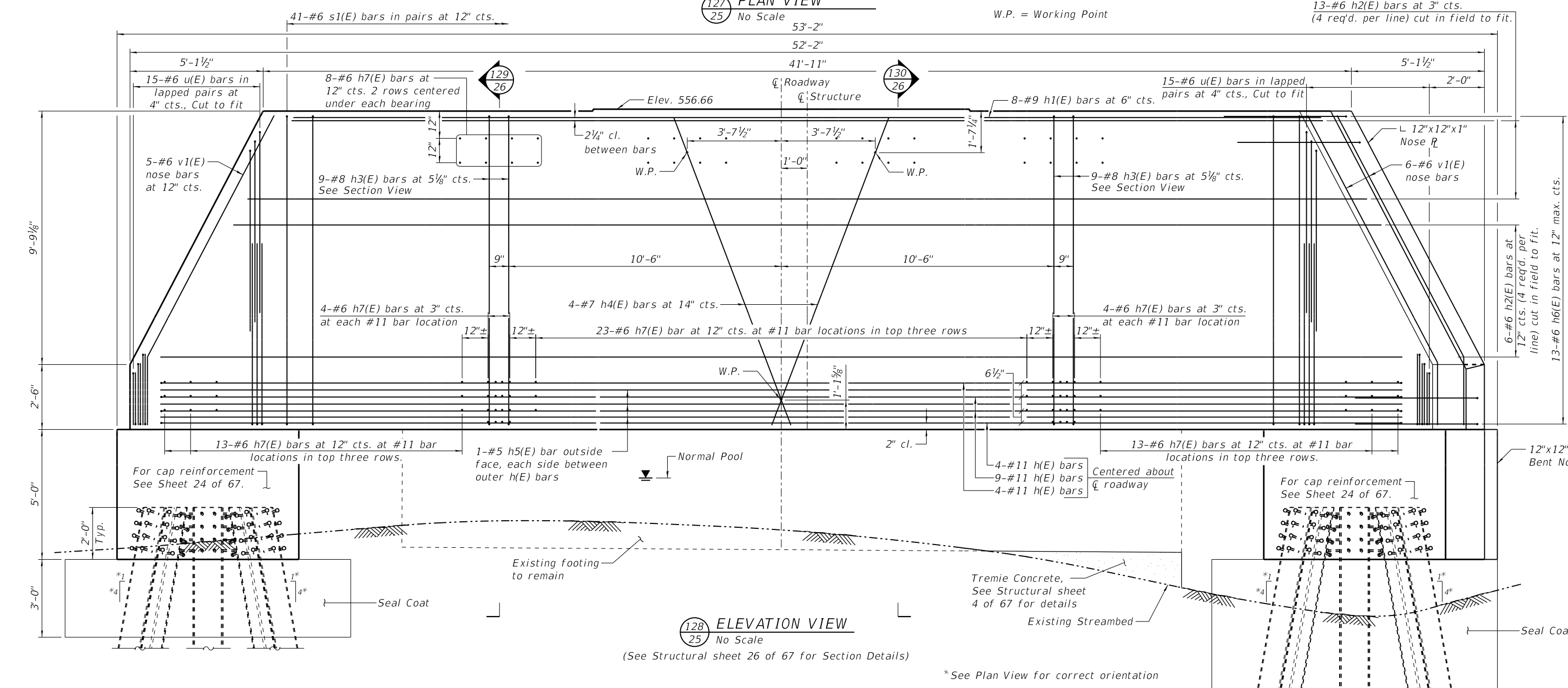
STRUCTURAL SHEET NO. 23 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	35
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 2 Detail.dgn





FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	37
	17-00142-00-BR	KENDALL		
WHA* 1087J17ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_Pier 2 Detail.dgn

PILE DATA

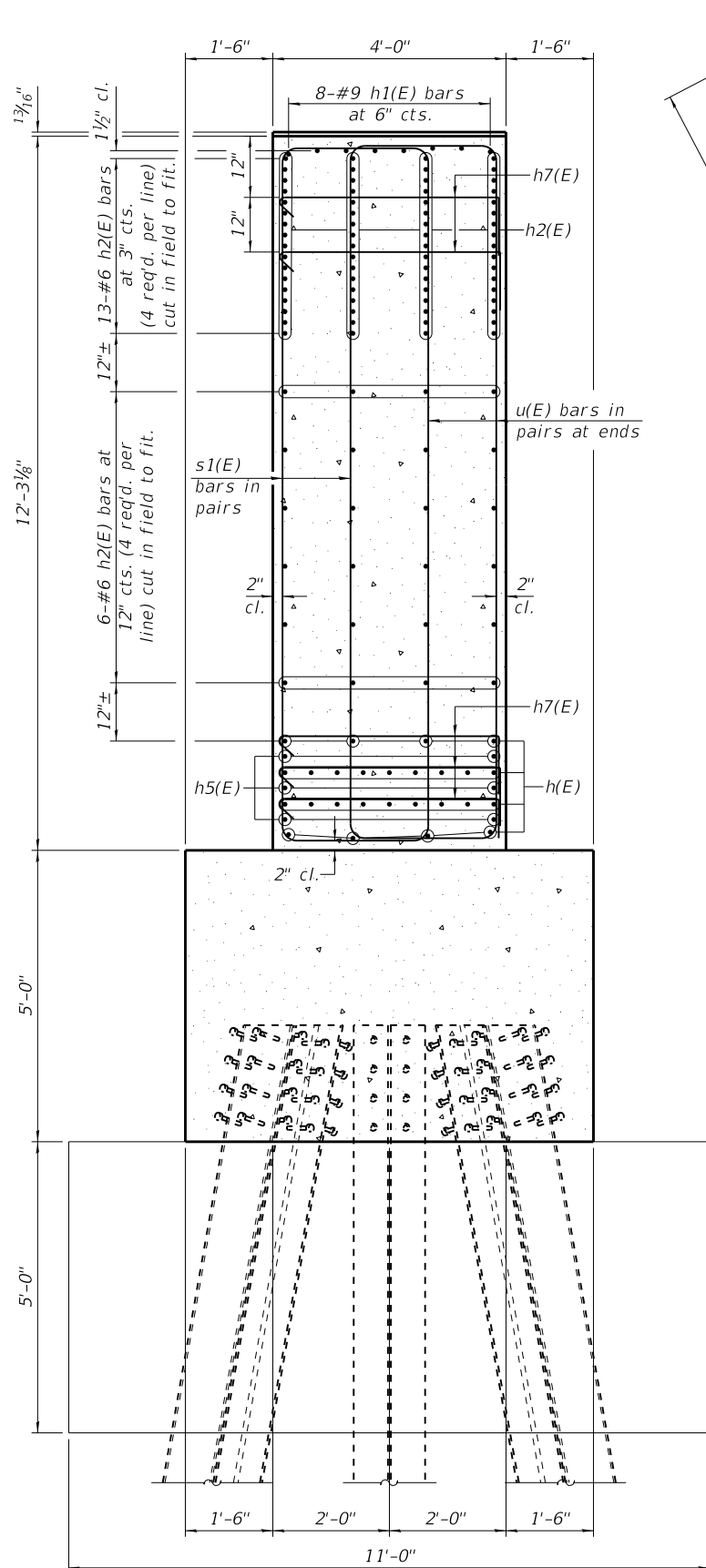
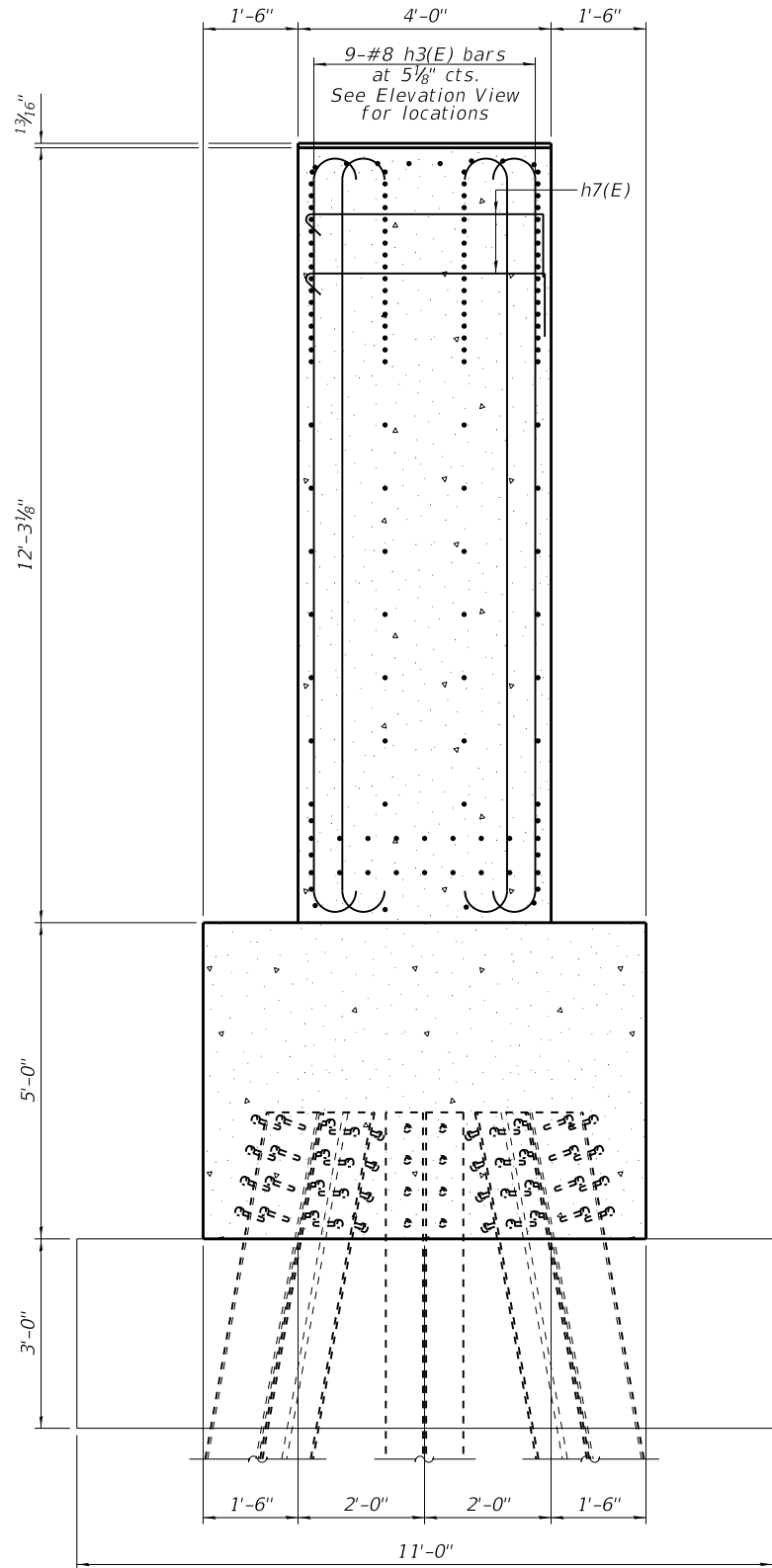
Type: Steel Pile HP 14X117 with shoes
Nominal Required Bearing: 929 kips
Factored Resistance Available: 511 kips
Est. Length: 61' (Battered) & 59.5' (non-Battered)
(Piles shall be driven to top of rock)
No. Production Piles: 10
No. Test Piles: None



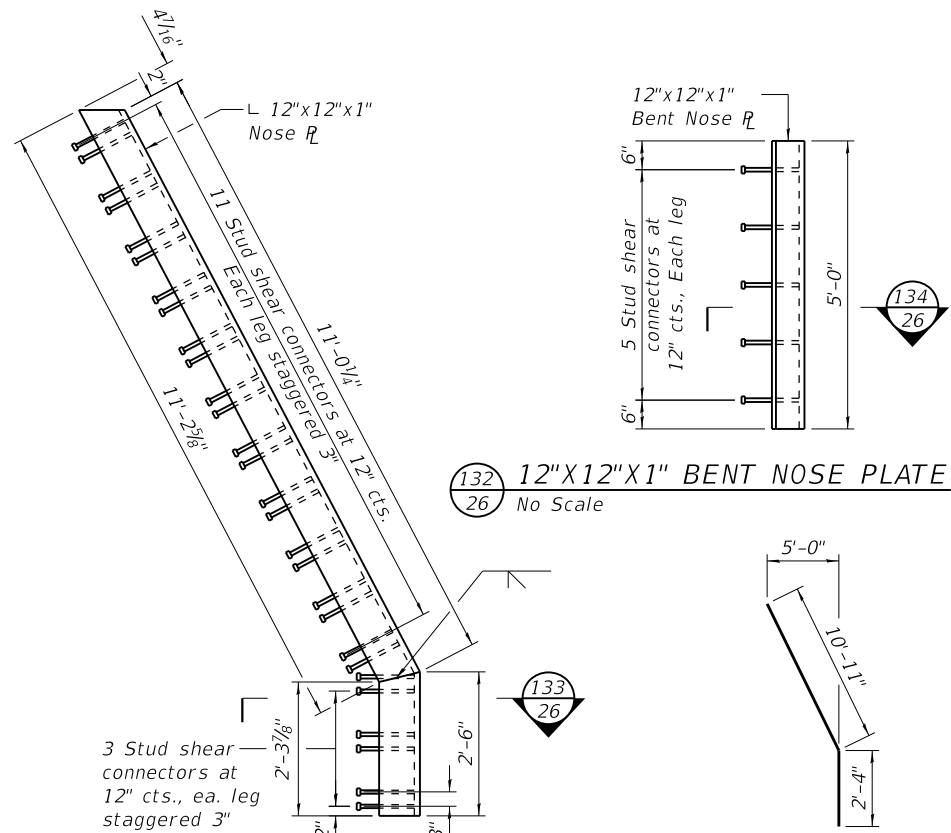
BAR h7(E)

129 SECTION
26 No Scale

(Showing placement of h3(E) bars only)



130 SECTION
26 No Scale



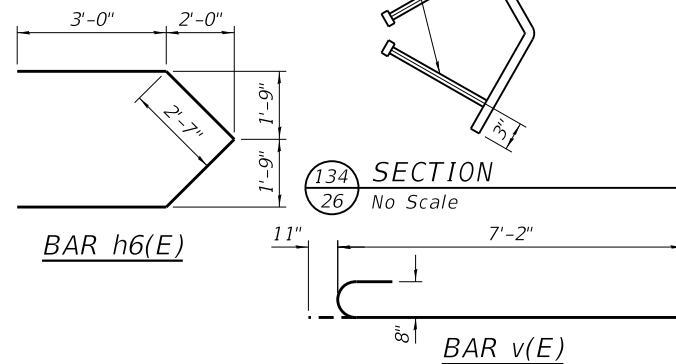
132 12"X12"X1" BENT NOSE PLATE
26 No Scale

131 L 12"X12"X1" NOSE PLATE
26 No Scale

3/4" Ø X 12" Granular or solid flux filled headed studs, automatically end welded to flange. (28 Required)

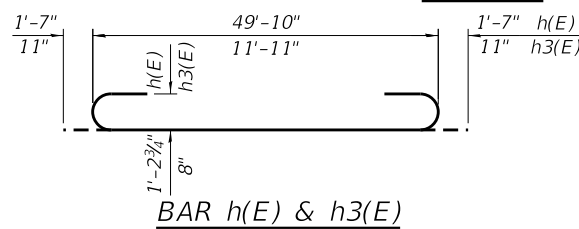
133 SECTION
26 No Scale

3/4" Ø x 12" Granular or solid flux filled headed studs, automatically end welded to flange. (10 Required)



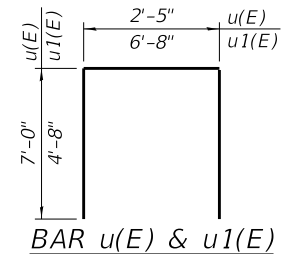
BAR h6(E)

BAR v(E)

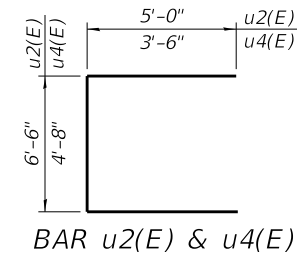


BAR h(E) & h3(E)

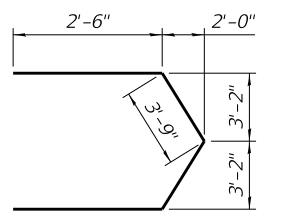
BAR v1(E)



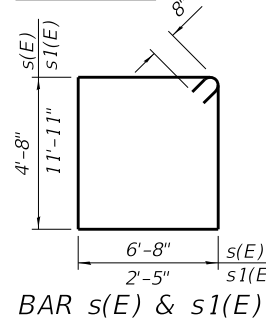
BAR u(E) & u1(E)



BAR u2(E) & u4(E)



BAR u3(E)



BAR s(E) & s1(E)

NOTES

Pour steps monolithically with cap.

Reinforcement bars designated (E) shall be epoxy coated.

Position of reinforcement shall be adhered to for this Strut & Tie design.

See Structural sheet 17 of 67 for detail of existing pier removal.

Steel nose angles and plates shall be hot-dipped galvanized in accordance with AASHTO M232.

PIER #2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	26	#11	53'-0"	
h1(E)	8	#9	39'-7"	
h2(E)	76	#6	49'-10"	
h3(E)	36	#8	13'-9"	
h4(E)	8	#7	12'-8"	
h5(E)	6	#5	49'-10"	
h6(E)	13	#6	11'-2"	
h7(E)	211	#6	5'-4"	
s(E)	20	#6	24'-0"	
s1(E)	82	#6	30'-0"	
t(E)	48	#6	6'-8"	
u(E)	120	#6	16'-5"	
u1(E)	40	#6	16'-0"	
u2(E)	20	#6	16'-6"	
u3(E)	6	#6	12'-6"	
u4(E)	5	#6	11'-8"	
v(E)	44	#8	8'-1"	
v1(E)	11	#6	18'-3"	
Cofferdam Excavation				Cu. Yd. 33
Cofferdam Type 2 (Location 3)				Each 1
Cofferdam Type 2 (Location 4)				Each 1
Concrete Structures				Cu. Yd. 107
Seal Coat Concrete				Cu. Yd. 41.4
Furnishing & Erecting Structural Steel				Pound 1,456
Stud Shear Connectors				Each 358
Reinforcement Bars, Epoxy Coated				Pound 28,600
Furnishing Steel Piles HP14x117				Foot 607
Driving Piles				Foot 607
Pile Shoes				Each 10

LASALLE & KENDALL COUNTY
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STATION 20 + 00

PHASE 3: PIER #2 - SECTION, BILL OF MATERIAL & DETAILS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 26 OF 67 SHEETS

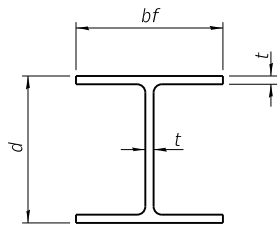
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	38
171	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

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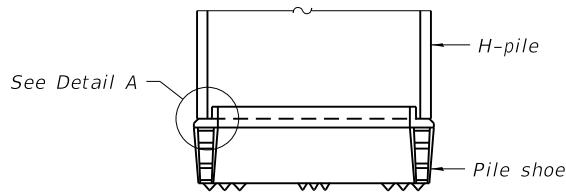
DESIGNED - BKC
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CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

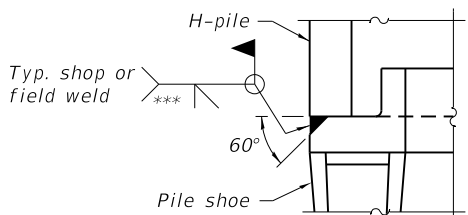


STEEL PILE TABLE

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"



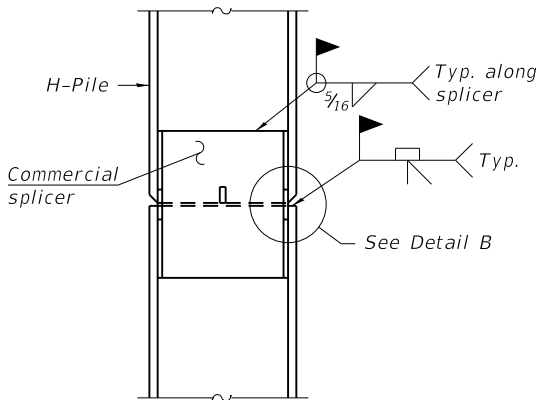
ELEVATION



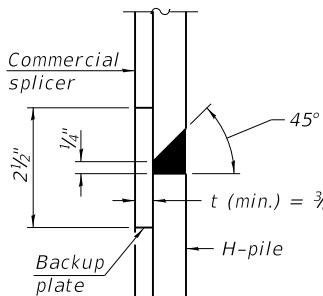
DETAIL A

SHOE ATTACHMENT

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

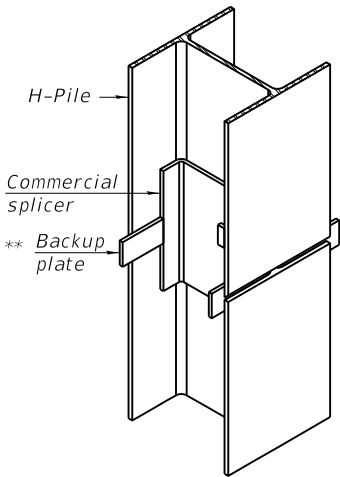


ELEVATION

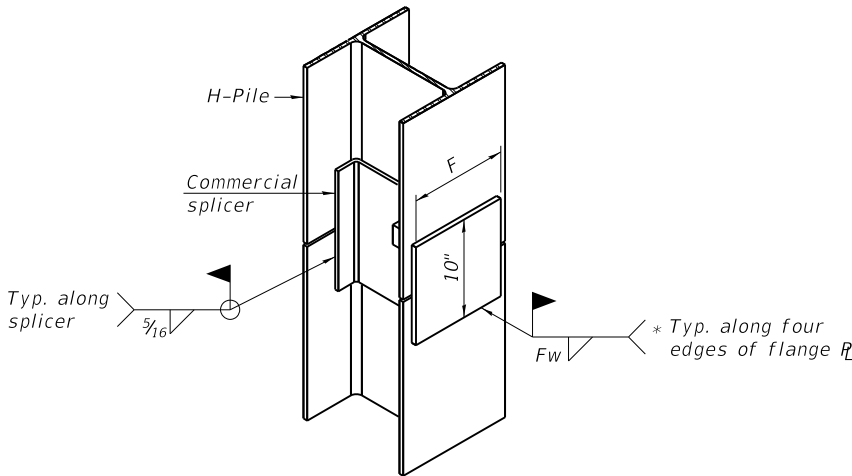


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



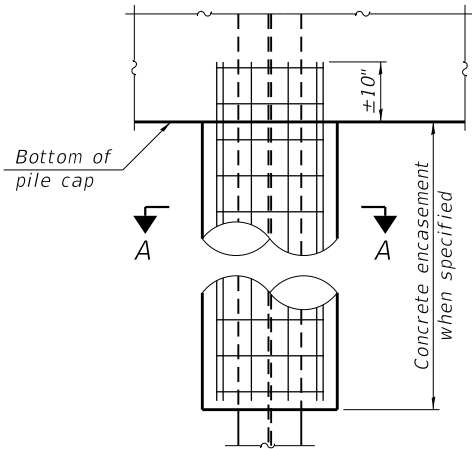
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

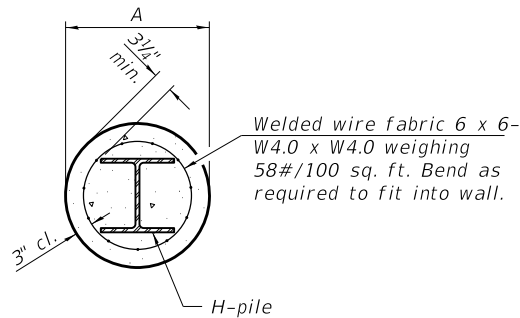
* Interrupt welds 1/4" from end of web and/or each flange.

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

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

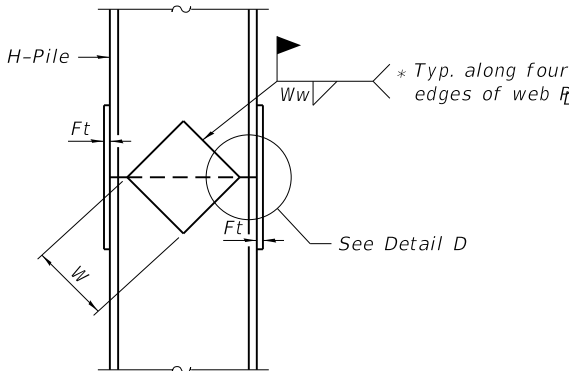


ELEVATION

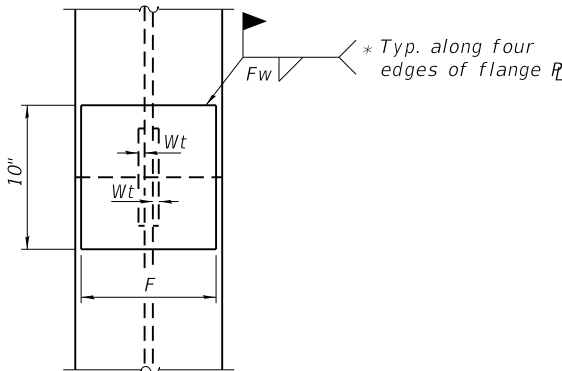


SECTION A-A

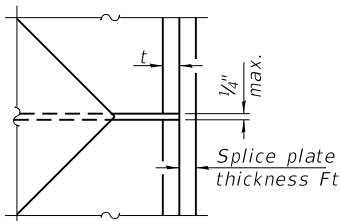
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(Forms for encasement may be omitted when
soil conditions permit).



ELEVATION



END VIEW



DETAIL D

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"

WELDED PLATE FIELD SPLICE

F-HP

8-11-2017



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

DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- RDA	REVISED	-
CHECKED	- BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

HP PILE DETAILS
STRUCTURE NO. 047-3000

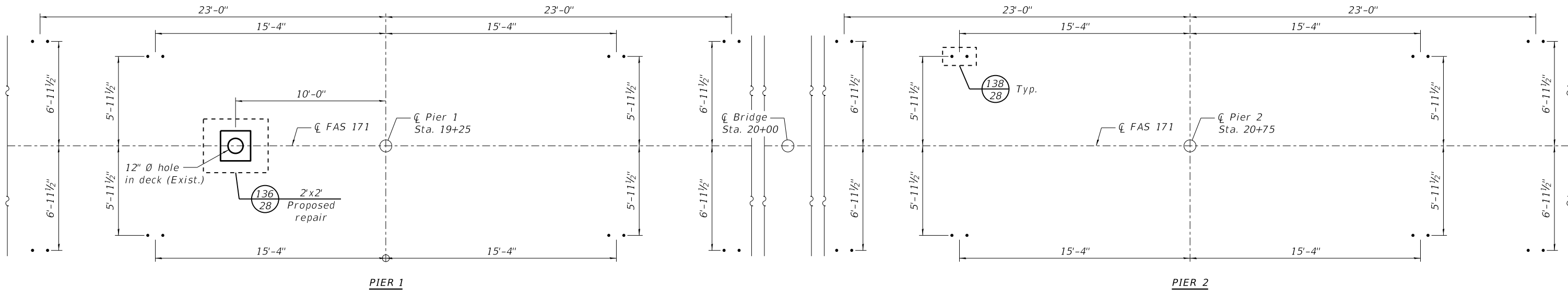
STRUCTURAL SHEET NO. 27 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	39
	17-00142-00-BR	KENDALL		

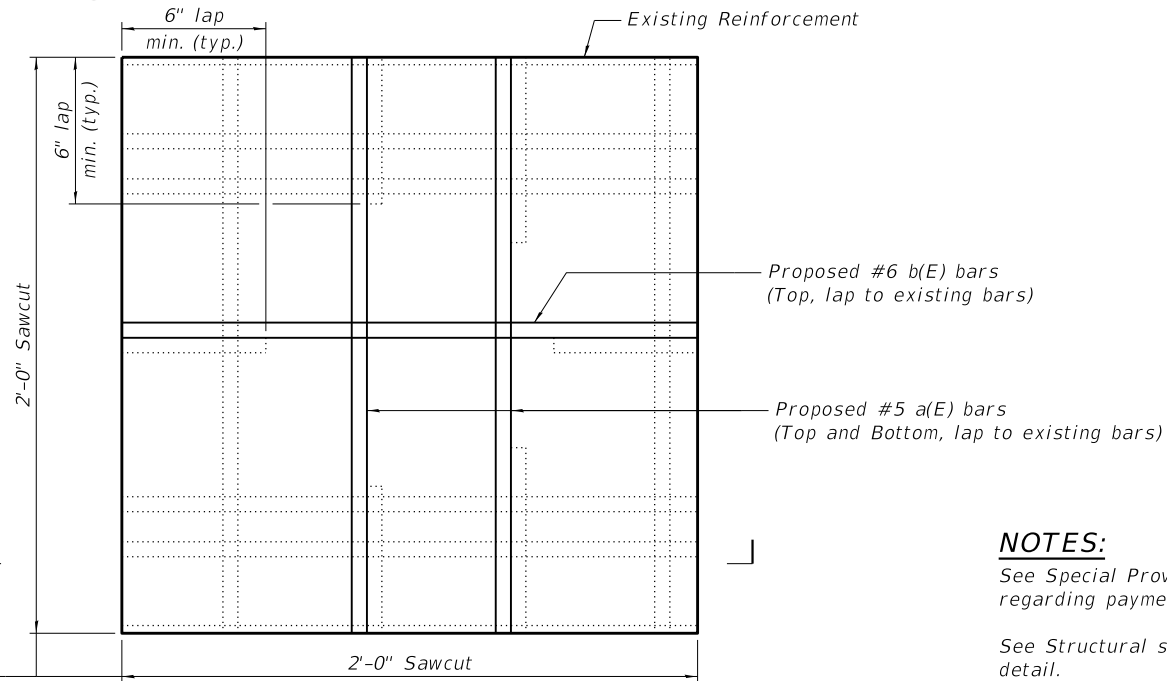
WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683

FILE = S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_HP_Pile_Details.dgn

FILE = S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17 Deck Repair.dgn



135
28 PARTIAL PLAN
No Scale

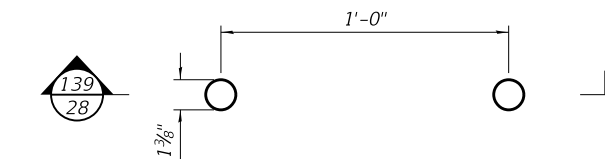


136
28 DETAIL
No Scale

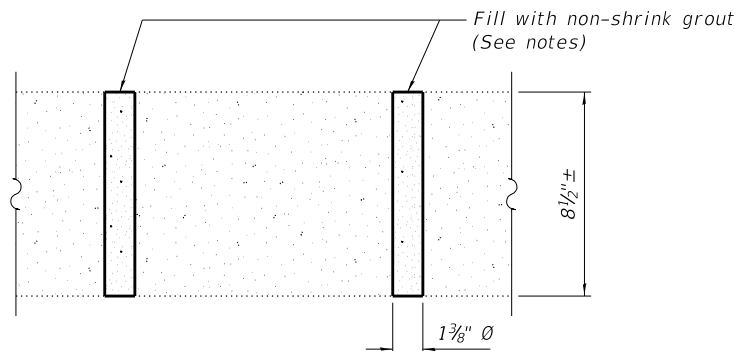
NOTES:
See Special Provision for "Temporary Support System" regarding payment for non-shrink grout repairs.
See Structural sheet 51 of 67 for existing reinforcement detail.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	3	#5	2'-0"	
b(E)	1	#6	2'-0"	
Structural Repair of Concrete (Depth Greater Than 5 Inches)			Sq. Ft.	4
Reinforcement Bars, Epoxy Coated			Pound	10

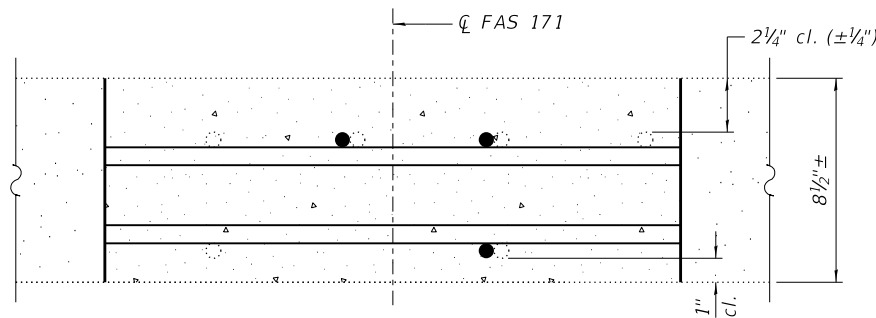


138
28 DETAIL
No Scale



139
28 SECTION THRU LATERAL BRACE CONNECTIONS
No Scale

No. Locations = 16



137
28 SECTION THRU DECK
No Scale



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

DESIGNED - SM
CHECKED - PLP
DRAWN - RDA
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

PHASE 3: BRIDGE DECK REPAIRS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 28 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	40
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

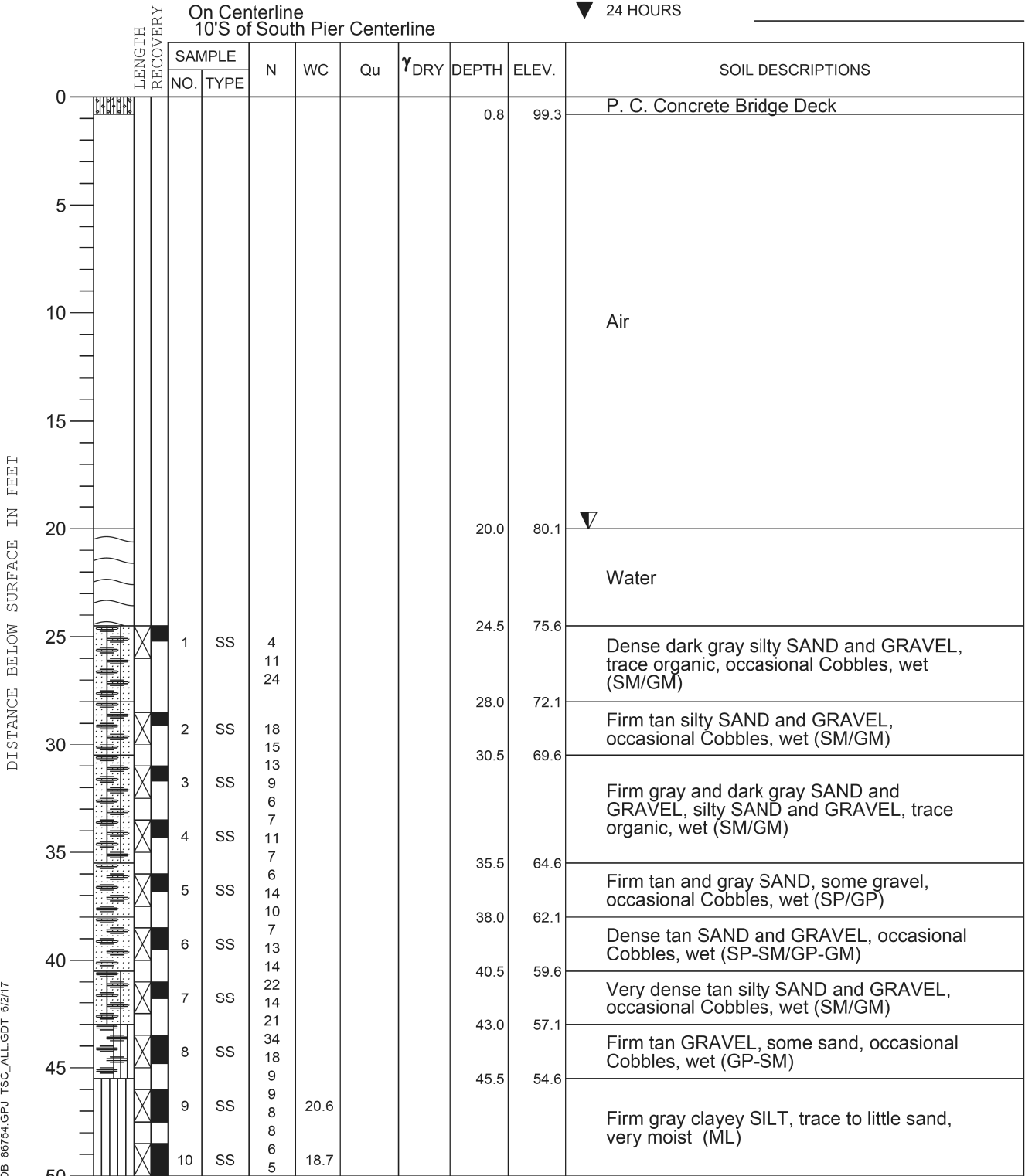
PROJECT **Proposed Bridge Repairs, Millington Road over Fox River, Kendall Co., Illinois**

CLIENT **Willett Hofmann and Associates, Inc., Dixon, Illinois**

BORING **101** DATE STARTED **5-23-17** DATE COMPLETED **5-25-17** JOB **L-86,754**

ELEVATIONS
GROUND SURFACE **100.1 (564.82)**
END OF BORING **11.4 (476.12)**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **20.0 '**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS



DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 88.7'

Page 1 of 2

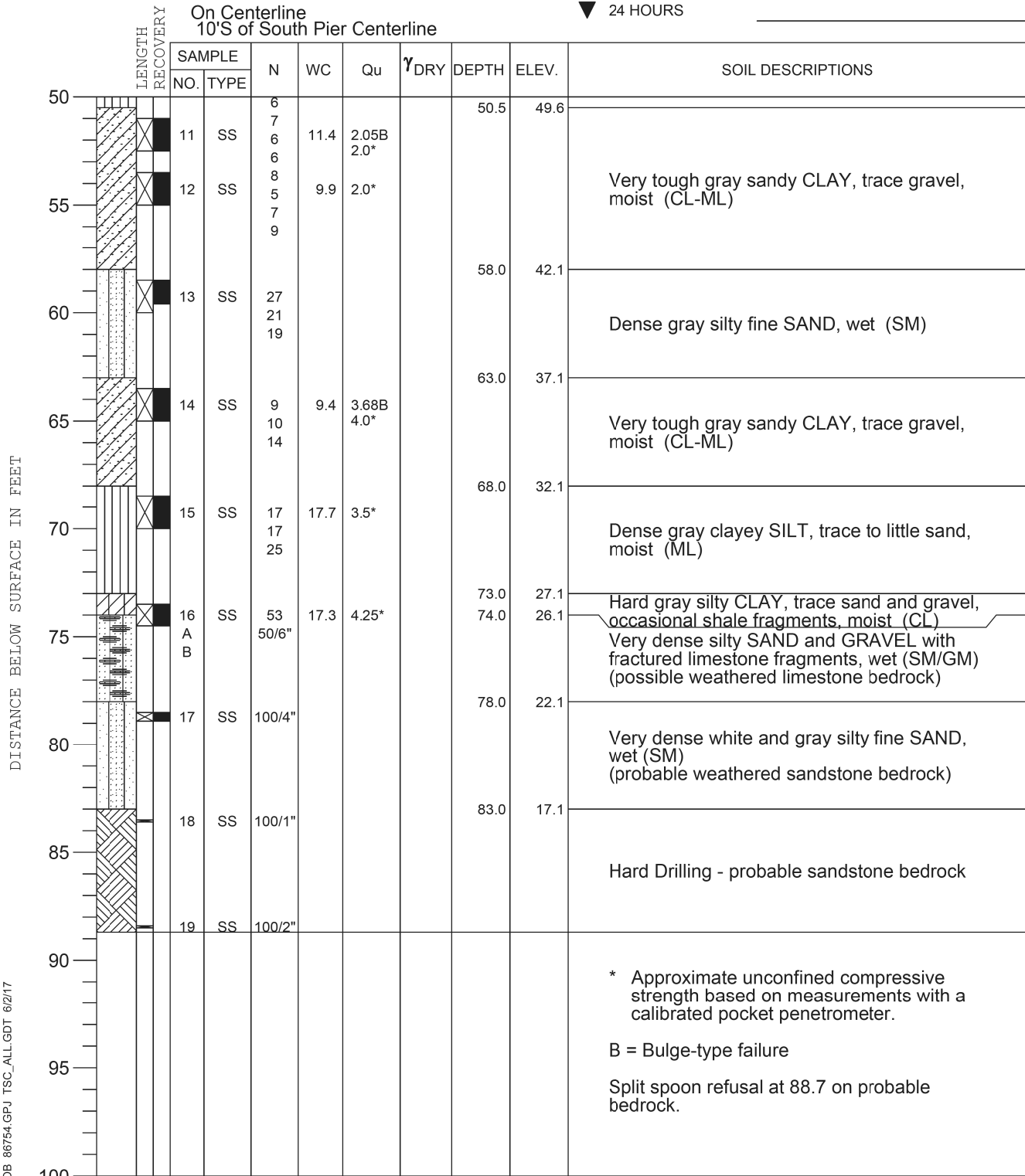
PROJECT **Proposed Bridge Repairs, Millington Road over Fox River, Kendall Co., Illinois**

CLIENT **Willett Hofmann and Associates, Inc., Dixon, Illinois**

BORING **101** DATE STARTED **5-23-17** DATE COMPLETED **5-25-17** JOB **L-86,754**

ELEVATIONS
GROUND SURFACE **100.1 (564.82)**
END OF BORING **11.4 (476.12)**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **20.0 '**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS



DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 88.7'

Page 2 of 2



DESIGNED - BKC
CHECKED - PLP
DRAWN - RDA
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 29 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	41
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

PROJECT **Proposed Bridge Repairs, Millington Road over Fox River, Kendall Co., Illinois**

CLIENT **Willett Hofmann and Associates, Inc., Dixon, Illinois**

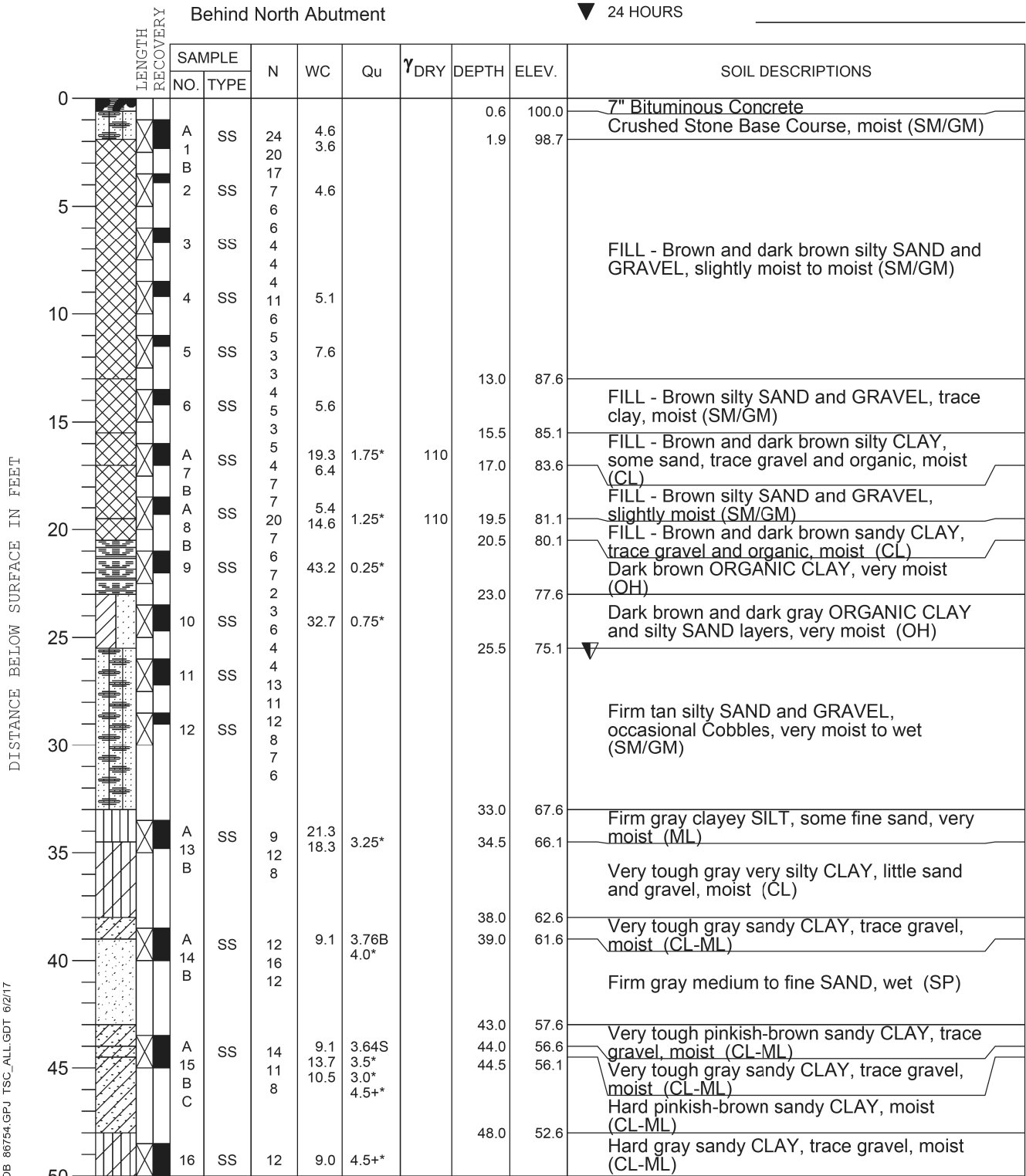
BORING **102** DATE STARTED **5-19-17** DATE COMPLETED **5-22-17** JOB **L-86,754**



ELEVATIONS
GROUND SURFACE **100.6 (565.26)**
END OF BORING **18.1 (482.76)**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **26.0 '**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS

Behind North Abutment



DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 82.5'

Page 1 of 2

PROJECT **Proposed Bridge Repairs, Millington Road over Fox River, Kendall Co., Illinois**

CLIENT **Willett Hofmann and Associates, Inc., Dixon, Illinois**

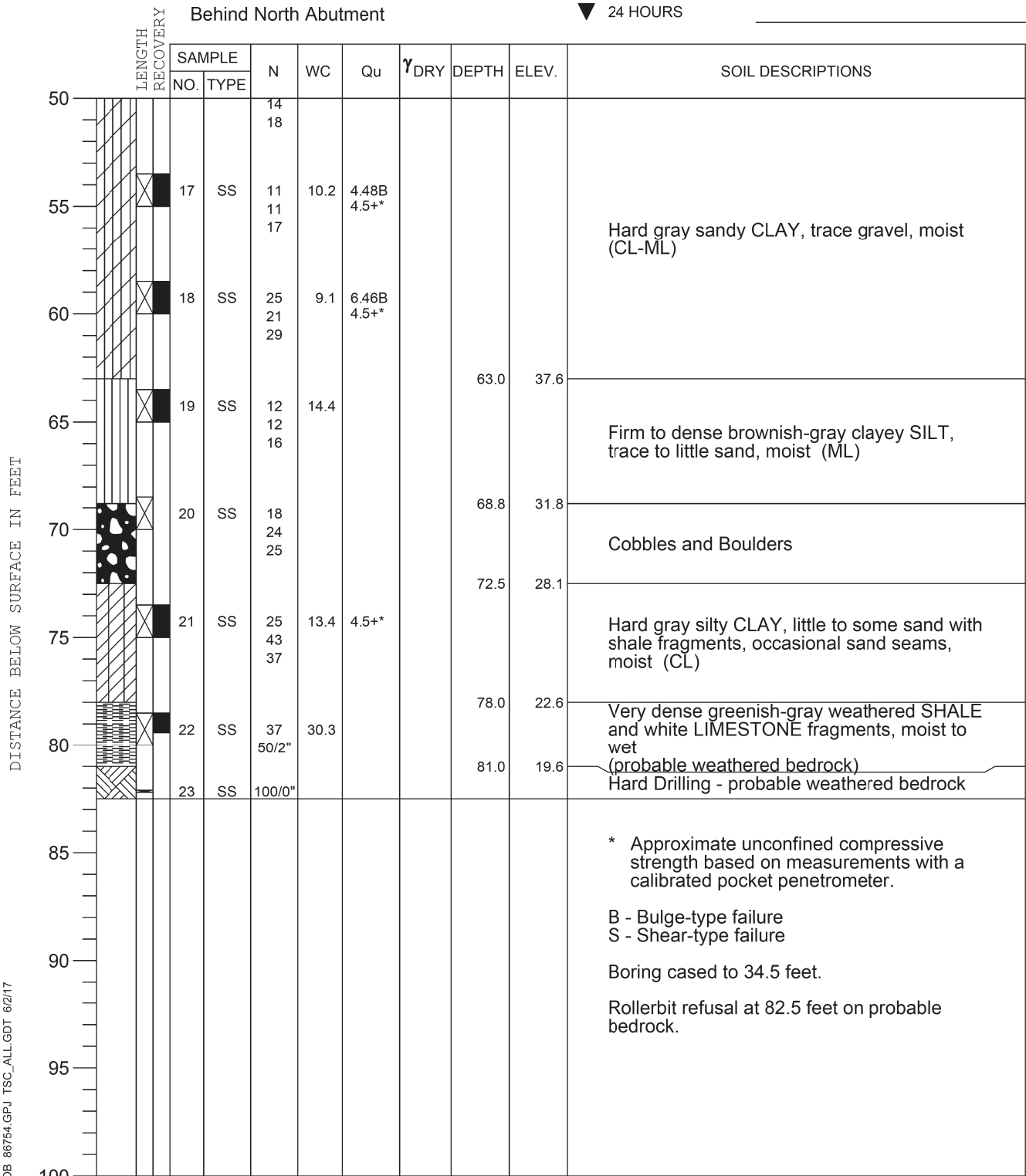
BORING **102** DATE STARTED **5-19-17** DATE COMPLETED **5-22-17** JOB **L-86,754**



ELEVATIONS
GROUND SURFACE **100.6 (565.26)**
END OF BORING **18.1 (482.76)**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **26.0 '**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS

Behind North Abutment



DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

End of Boring at 82.5'

Page 2 of 2



DESIGNED	-	BKC	REVISED	-
CHECKED	-	PLP	REVISED	-
DRAWN	-	RDA	REVISED	-
CHECKED	-	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 30 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	42
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

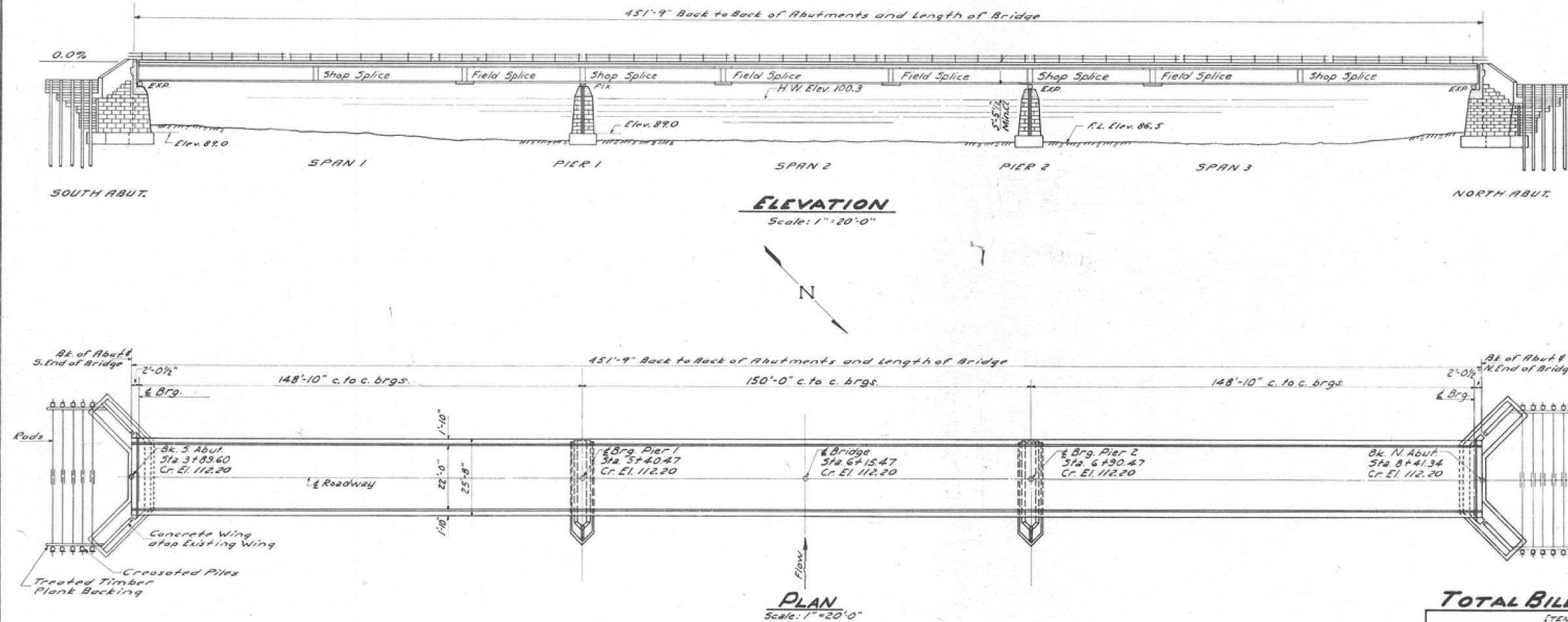
B.M. - Nail in 36" Elm S.E. of Sta. 0+00
Elev. 100.00
Existing Structure: Steel Truss, 3 Spans
@ 147'-9" (Pin to Pin), 16 Ft Roadway
on stone abutments & piers.
Superstructure shall be removed
by bridge contractor.
Substructure shall remain in place.
(Upper Portion only to be removed)
Salvage: Usable Plants and Steel.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17	KENDALL	93	43
F.A.S.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

Class X Concrete shall be used thruout.
The concrete floor slab shall be finished in accordance with Article 51.18(a) of the Standard Specifications and shall be poured in one continuous operation between joints.
The curbs and slabs outside of longitudinal construction joints shall be poured monolithically.
No transverse construction joints shall be made in the slab without written permission of the Engineer.
All connections shall be riveted except as noted.
Rivets shall be 3/4" ϕ and open holes 1 1/4" ϕ except as noted.
All holes for splices shall be sub-punched 1 1/4" ϕ and reamed to 1 3/8" ϕ for 3/4" rivets and 1 1/2" ϕ for 1" rivets, with girders assembled in shop in proper position with or without cross frames in place.
Matchmark and leave assembled for shop inspection.
All structural steel and metal handrail shall be inspected by the Illinois Division of Highways before painting.
All shoes, bolsters, rockers, bearing plates, lead plates and anchor bolts shall be fabricated and set in accordance with Article 51.14 of Standard Specifications and are included for payment as Structural Steel. Estimated Weight = 13,450 Lbs.
Metal handrail and structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 57.1 to 57.5 of the Standard Specifications.
All paint shall be furnished and applied by the contractors involved.
Anchor bolts shall be set before riveting cross frames over piers and abutments.
Contractor for Section F shall contact the Engineer for actual field dimensions before fabricating structural steel.
Welding shall comply with Article 55.1(a) of the Standard Specifications.
The Contractor shall drive one test pile at each abutment as directed by the Engineer before ordering remainder of piles.



WATERWAY INFORMATION

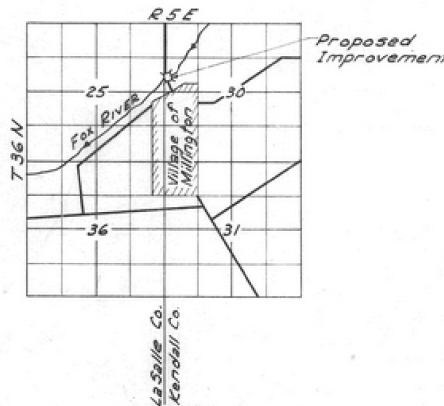
Drainage Area ----- 1,339,520 Acres
Character Level, Wooded, Cultivated & Swampy
Required Opening (15 yr. Flood) 3525 sq. ft.
Present Opening ----- 5180 sq. ft.
Proposed Opening ----- 5180 sq. ft.

DESIGN STRESSES

f_c = 1400 p.s.i. Superstructure
 f_c = 800 p.s.i. Substructure
 f_s = 20000 p.s.i. Reinforcement
 f_s = 18000 p.s.i. Structural
 n = 10

MILLINGTON BRIDGE
FOX RIVER
BUILT 195 BY
LASALLE-KENDALL COUNTIES
LOADING H15-512

LETTERING FOR NAME PLATE
See 51d.2113



LOCATION SKETCH

FOR INFORMATION ONLY

LOADING H15-512-44

TOTAL BILL OF MATERIAL-SECTION B

ITEM	UNIT	SUPER.	SUB.	TOTAL
Class X Concrete	Cu. Yds.	310.7	105.0	415.7
Reinforcement Bars	Lbs.	55180	5950	61130
Erecting Structural Steel	Lbs.	670750		670750
Erecting Metal Handrail	Lin. Ft.	906		906
Name Plates	Each	1		1
Masonry Removal	Cu. Yds.		130.0	130.0
Expansion Bolts 3/8"	Each		66	66
Hardware	Lbs.		1670	1670
Treated Timber	Ft. B.M.		2480	2480
Creosoted Piles (20.1' to 38')	Lin. Ft.		600	600
Test Piles	Each		2	2
Removal of Existing Superstructure	Each		1	1
Class A Excavation for Structures	Cu. Yds.		116	116

TOTAL BILL OF MATERIAL-SECTION F

Furnishing Structural Steel	Lbs.	670750	670750
Furnishing Metal Handrail	Lin. Ft.	906	906

GENERAL PLAN & ELEVATION

MILLINGTON BRIDGE

OVER FOX RIVER

LASALLE-KENDALL COUNTIES

STATION 6+15.47

SECTION B-B

BRIDGE NO. 3000

MILLINGTON Pond

DESIGNED Joseph J. Rimsay
CHECKED J.J. Rimsay & SAMI ALPER
DRAWN H.P. Wedler J. Ganci
CHECKED J.J.R. & S.A.

EXAMINED MAY 6 1957
PASSED
APPROVED

DESIGNED - BKC
CHECKED - PLP
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

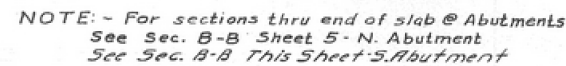
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000

STRUCTURAL SHEET NO. 31 OF 67 SHEETS

FAS RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
171 17-00802-00-BR LASALLE 93 43
171 17-00142-00-BR KENDALL

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



25'-8" o.to o.

10" 1'-0" 11'-0" 11'-0" 1'-10"

7" 1'-0" 10'-0" Circular Crown - 1" Drop

9'-0" 1" 1" Crown Drop - Total

Longitudinal Bonded Jt. Full length of Bridge - Do not edge

Symm. abt. & Rdwy.

7" slab

449 $\frac{3}{4}$ bars - d @ 1'-0" cts. each curb

b₁ - b₄ or b₅

a₂

$\frac{1}{4}$ " Δ Drip Notch Full length of Bridge Both Sides

7" $\frac{3}{4}$ bars - b₁ @ 10" cts. 5'0" 1'-1 1/2"

Typical spacing between beams

1'-11 1/2" 3 spaces @ 7'-3" = 21'-9" 1'-11 1/2"

OVER PIERS

METHOD OF DETERMINING FILLET HEIGHT "f"
Fillet Height "f" = 1/4 uniform plus the difference between shop camber chord and theoretical camber curve as shown in camber diagram bottom of Sheet No. 3.

For details of Expansion Devices
@ Each Abutment See Sheet # 5

BAR	No.	SIZE	LENGTH	SHAPE
a	384	# 5	28'-0"	
a ₁	776	# 5	25'-0"	
a ₂	226	# 4	1'-6"	
b	272	# 5	27'-7"	
b ₁	471	# 4	27'-4"	
b ₂	68	# 6	36'-9"	
b ₃	68	# 6	15'-3"	
b ₄	16	# 4	17'-6"	
b ₅	48	# 4	25'-9"	
d	898	# 4	1'-0"	
x	34	# 5	4'-3"	

Class X Concrete	Cu.Yds.	310.7
Reinforcement Bars	Lbs.	55180
*Structural Steel	Lbs.	670750
Name Plate	Each	1

* Includes weight of Bearing Assemblies and expansion devices

MILLINGTON BRIDGE
OVER FOX RIVER

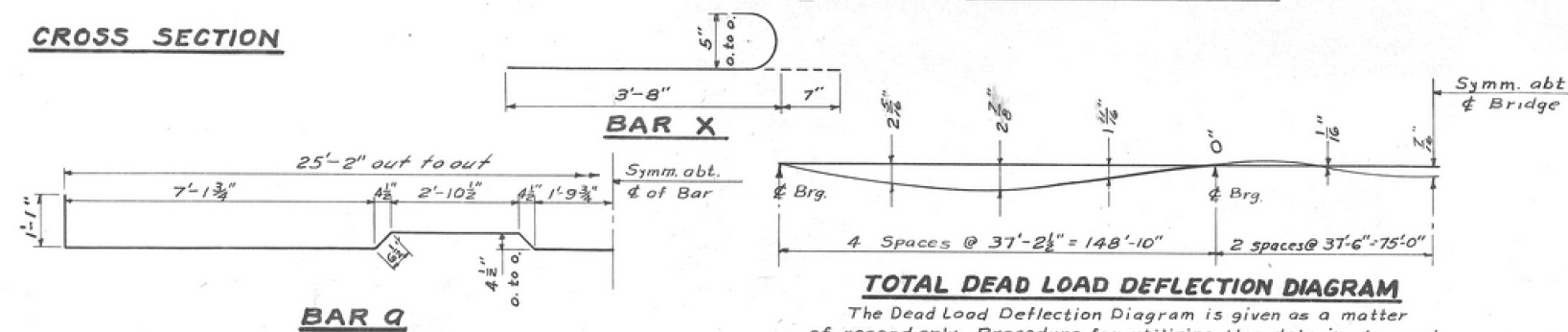
LA SALLE-KENDALL COUNTIES

STATION 6+15.47

SECTION B-1
BRIDGE NO. 3000

DESIGNED	Harold P. Wendler
CHECKED	Joseph J. Rimsay
DRAWN	J.P. Cummings H.P.W.
CHECKED	J.J.R.

MAY 6 1957
 EXAMINED *W. M. J. J. J. J.*
 ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
 PASSED *E. L. J. J. J.*
 ENGINEER OF DESIGN
 APPROVED *B. B. Bartlett*
 CHIEF HIGHWAY ENGINEER



The Dead Load Deflection Diagram is given as a matter of record only. Procedure for utilizing this data in shop and field is given in camber diagram on sheet #3

LLINGTON BRIDGE
ER FOX RIVER

LA SALLE-KENDALL COUNTIES

STATION 6+15.47

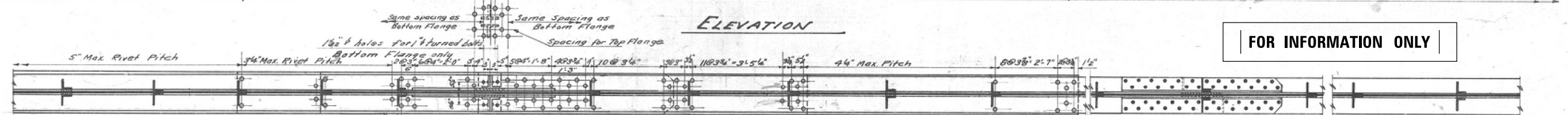
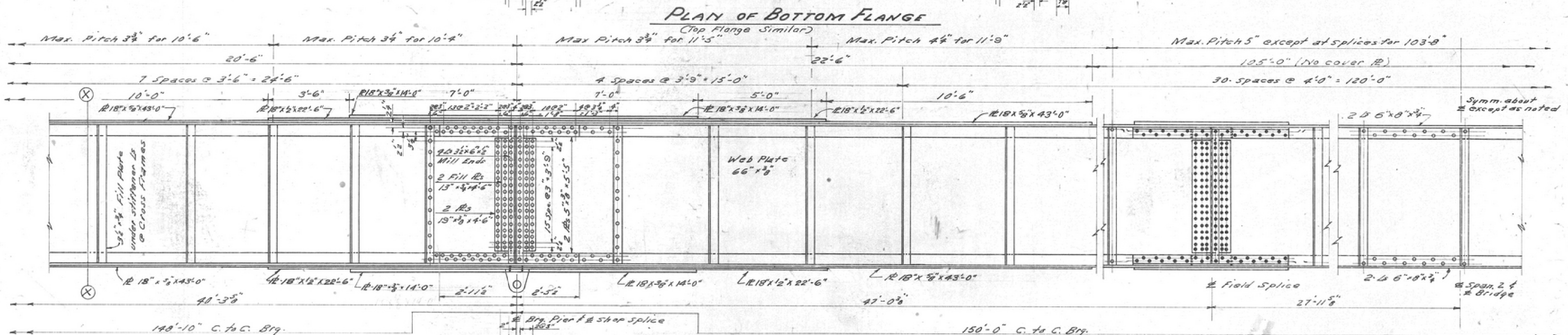
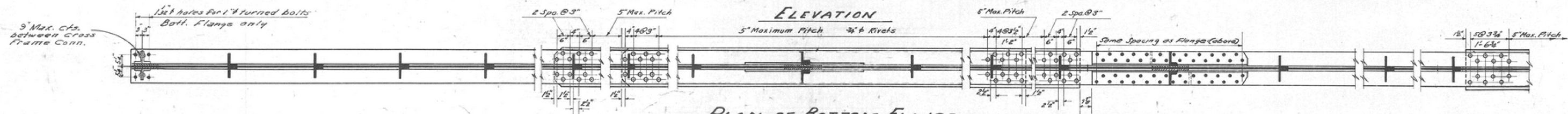
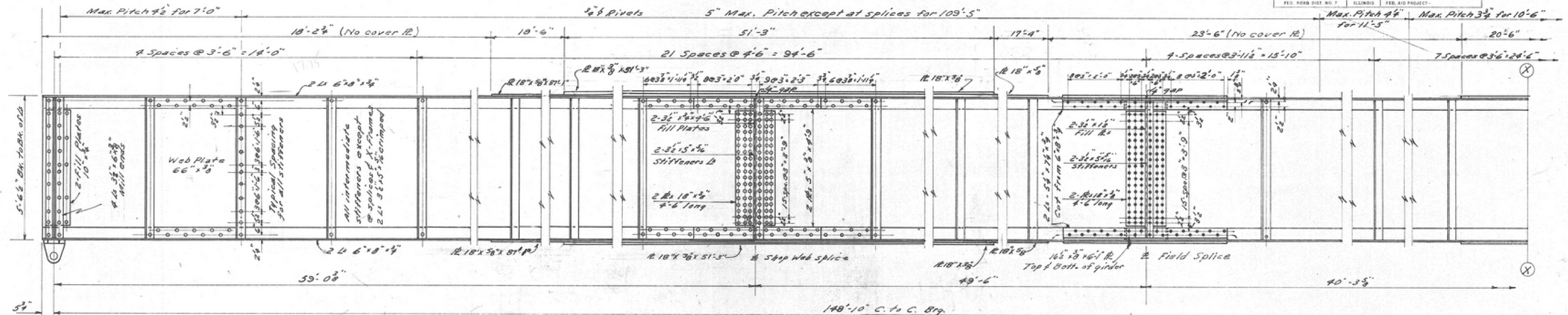
SECTION B-1
BRIDGE NO. 3000

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

SHEET NO. 3

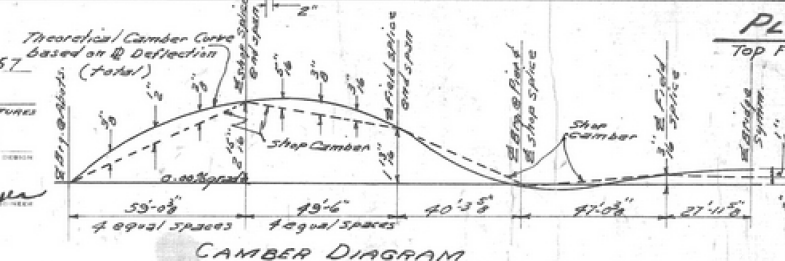
7 SHEETS



FOR INFORMATION ONLY

COMPUTED	Joseph J. Rimsey
CHECKED	Louis W. W.
DRAWN	J. J. R.
CHECKED	S. A.

EXAMINED	MAY 6, 1957
ENGINEER	W. M. B.
PASSED	E. L. Shurt
APPROVED	B. B. Bartlett



PLAN OF BOTTOM FLANGE
Top Flange Similar except as noted.

Camber girders in shop in accordance with dashed lines shown in diagram. Camber bottom of slab in field as shown by solid line labeled "Theoretical Camber Curve with shop camber aschord. The control points at bearings and splices will then follow grade line after D.O. occurs. D.O. deflections are calculated on the following basis for one girder:
Concrete & Future Fill Super-800 in. ft.
Structural Steel - - - 350 in. ft.
Total D.L. per girder - 1150 in. ft.

Note: All field splices are alike.
All shop splices at piers are alike.
All shop splices in end spans are alike.

GIRDER DETAILS
MILLINGTON BRIDGE
OVER FOX RIVER
LASALLE-KENDALL CO.'S
STATION 6+15.97
SECTION B-B



DESIGNED	- BKC
CHECKED	- PLP
DRAWN	- FDL
CHECKED	- BKC

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000

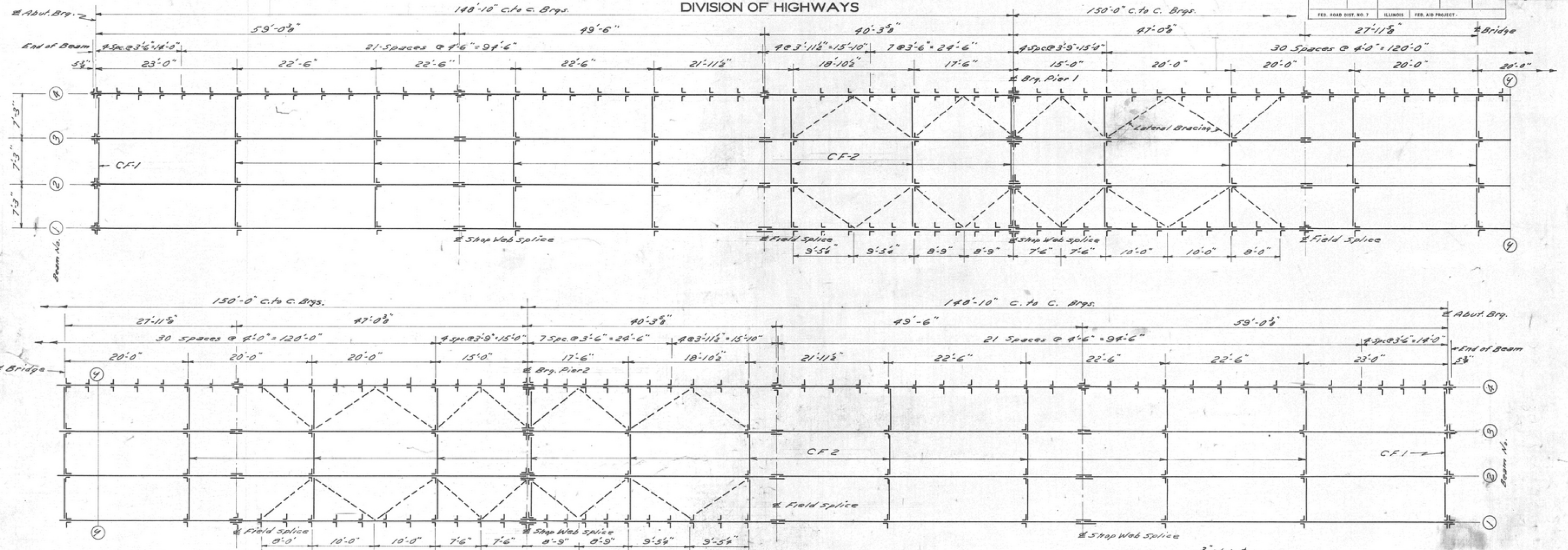
STRUCTURAL SHEET NO. 33 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	45
	17-00142-00-BR	KENDALL		

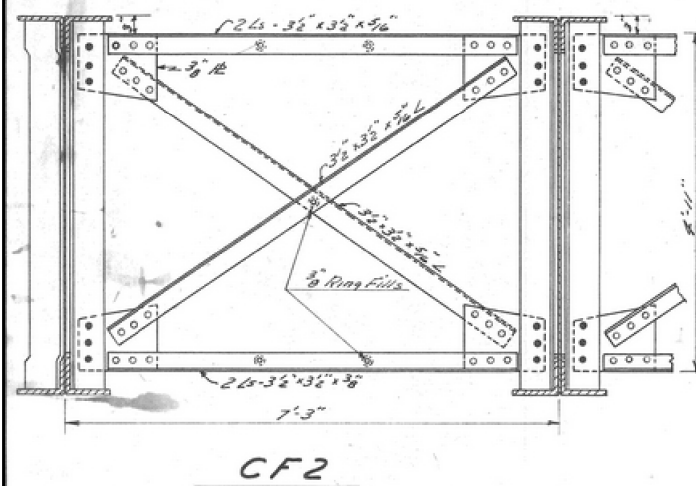
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

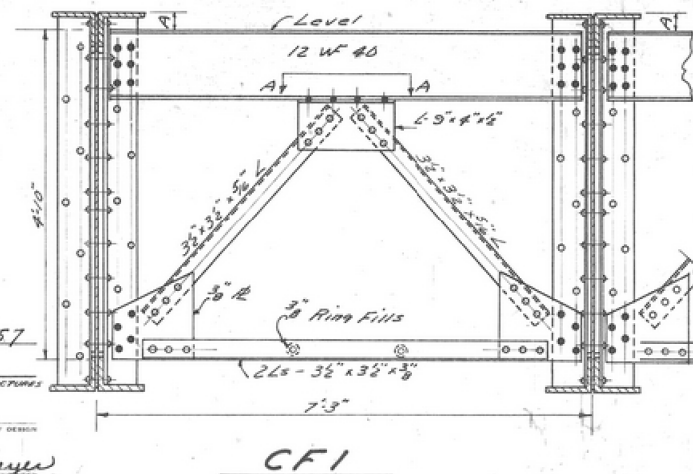
ROAD ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		7 SHEETS



PLAN OF STRUCTURAL STEEL



SECTION A-A

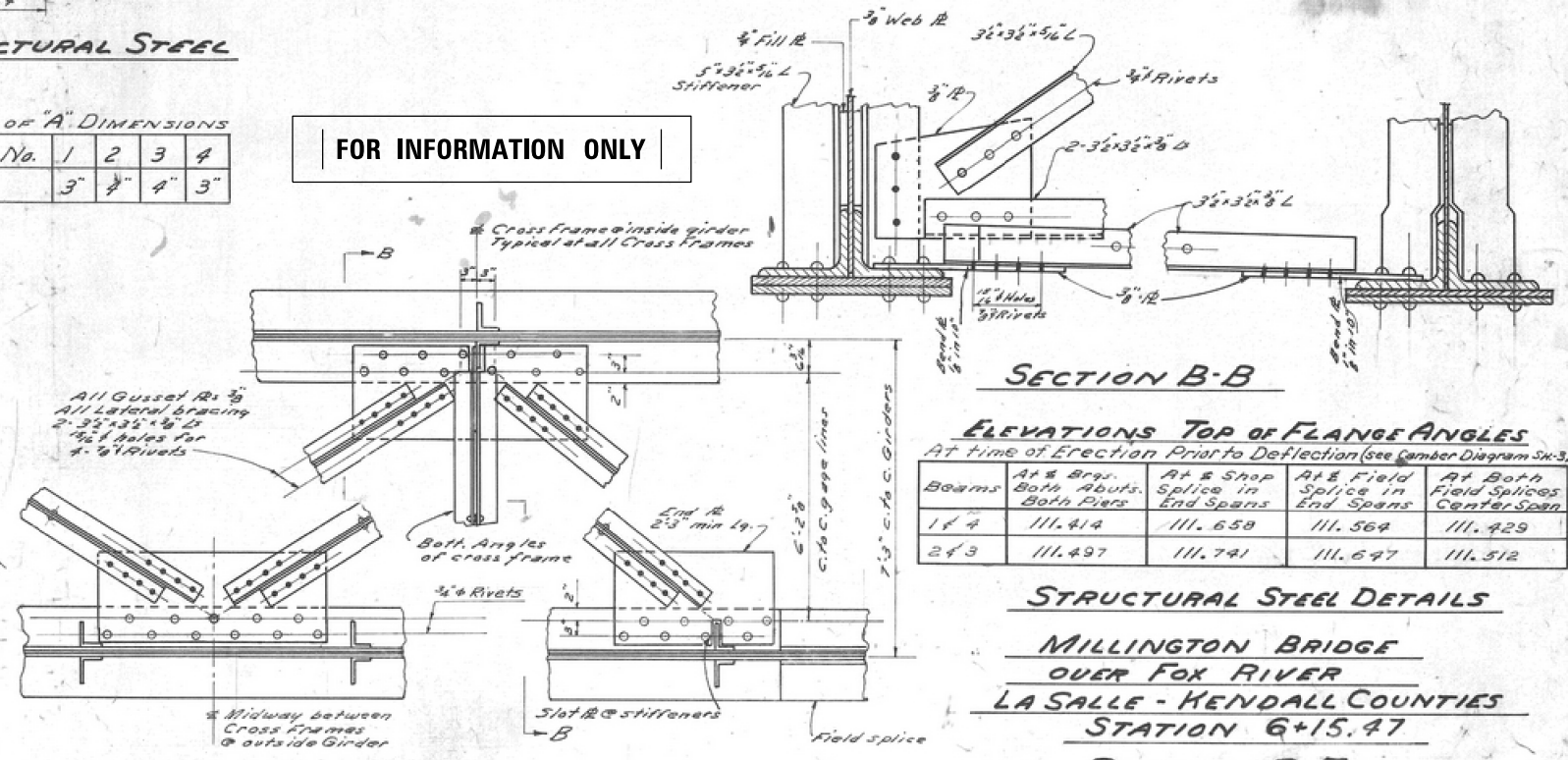


SECTION B-B

TABLE OF "A" DIMENSIONS

Beam No.	1	2	3	4
"A"	3"	4"	4"	3"

FOR INFORMATION ONLY



ELEVATIONS TOP OF FLANGE ANGLES

At Time of Erection Prior to Deflection (see Camber Diagram S-3)

Beams	At & Brq.	At & Shop	At & Field	At Both
	Both	Splice in	Splice in	Field
	End	End	End	Center
	Span	Span	Span	Span
1 & 4	111.414	111.658	111.564	111.429
2 & 3	111.497	111.741	111.647	111.512

COMPUTED H.P. Wender & J.J. Rimsay
CHECKED J.J.R. & Sami Alper
DRAWN H.P.W. & J.J.R. Fatio
CHECKED S. Alper

EXAMINED MAY 6 1957
DESIGNED BY J.M. Romine
ENGINEER OF BRIDGE AND TRUSS STRUCTURES
PASSED BY J.M. Romine
APPROVED A.B. Bartelmeier
CHIEF HIGHWAY ENGINEER

STRUCTURAL STEEL DETAILS
MILLINGTON BRIDGE
OVER FOX RIVER
LASALLE - KENDALL COUNTIES
STATION 6+15.47
SECTION B-B
BRIDGE NO. 3000

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

DESIGNED - BKC
CHECKED - PLP
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

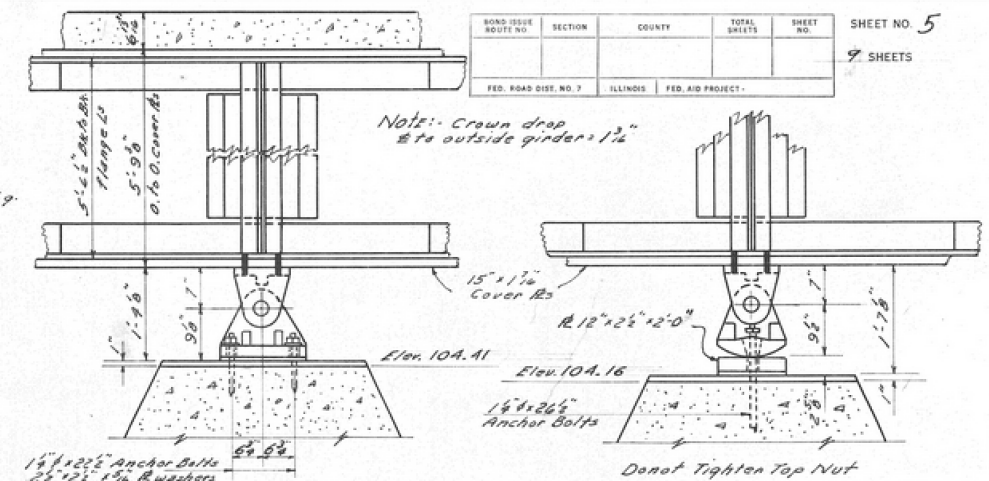
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000

STRUCTURAL SHEET NO. 34 OF 67 SHEETS

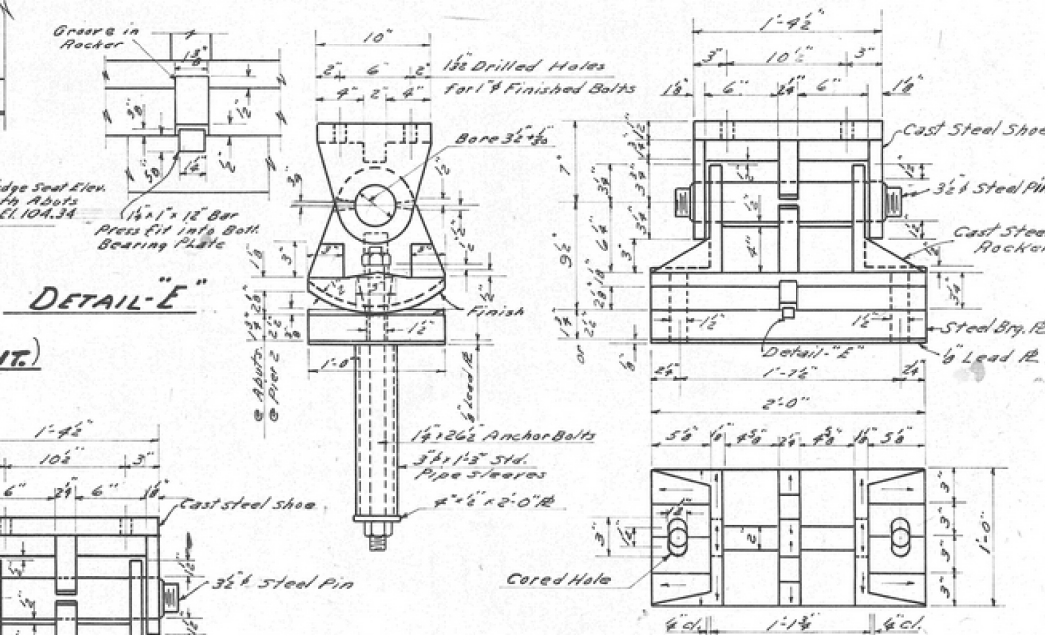
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	46
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



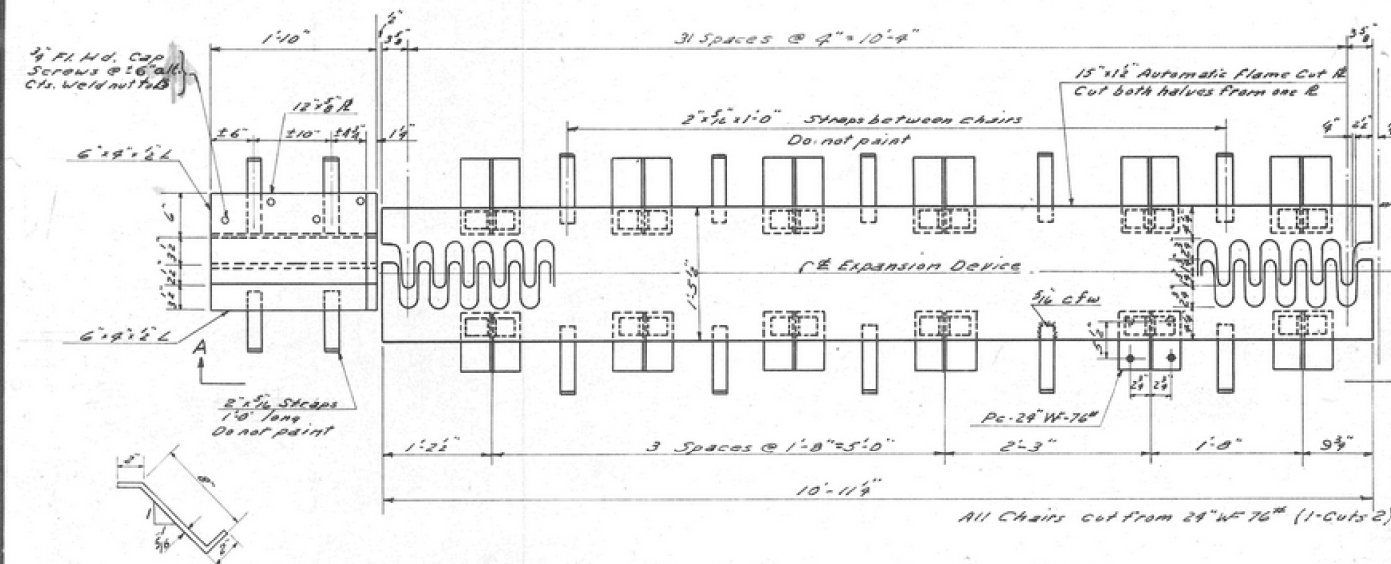
SECTION AT PIER 1

SECTION AT PIER 2



DETAIL 'E'

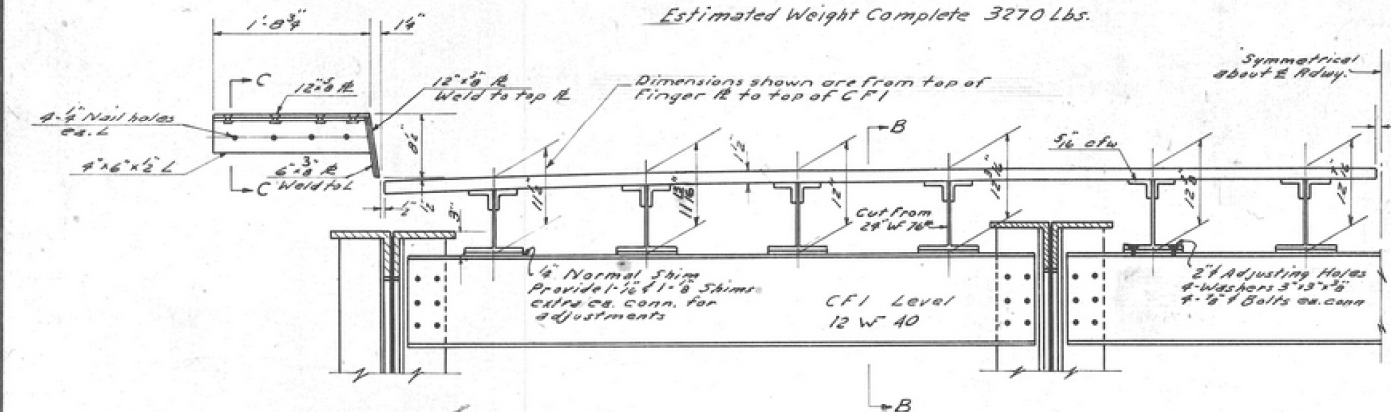
SECTION B-B (N. ABUT.)



PLAN OF EXPANSION DEVICE AT N. ABUTMENT

Openings between expansion plates are shown
for a normal temperature of 50°F.
Estimated Weight Complete 3270 Lbs.

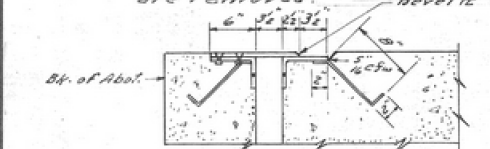
STRAP DETAIL



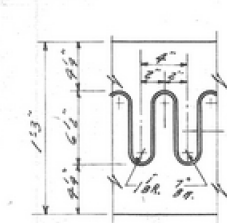
SECTION A-A

FOR INFORMATION ONLY

Note:
The top sidewalk plate shall
be seam welded to side plate
only and the assembly shall not
be attached until the forms
are removed.



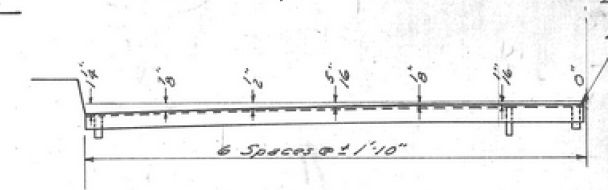
SECTION C-C



DETAIL OF EXPANSION PLATE

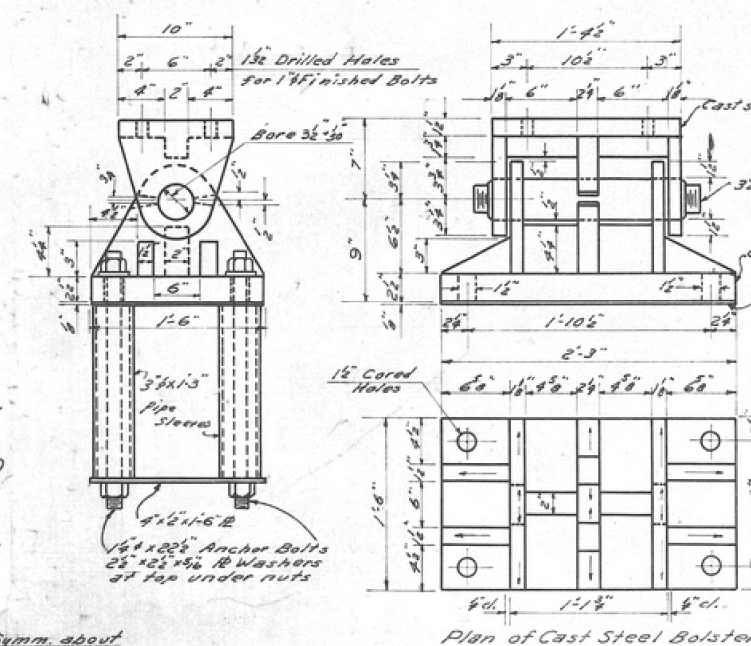
PLAN OF EXPANSION DEVICE AT S. ABUT.

Estimated Weight Complete 630 Lbs.



SECTION D-D

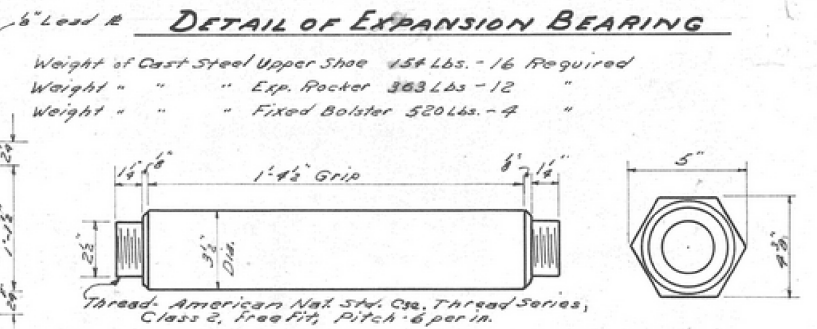
For Vertical Section thru Expansion
Device S. Abut. See Sec. B-B Sheet 2



DETAIL OF FIXED BEARING

NOTE:

Copper bearing steel (ASTM designation A7 with 0.2% copper added) shall be
used in the Expansion Guard at North Abut. The roadway expansion plate
shall be fabricated and erected in accordance with Art. 51.12(d) of the Std. Specs.
Roadway expansion guards shall be assembled in the shop in proper position
with adjacent ends in place and shall be left assembled for shop inspection.
The 1/2 inch finger plates shall be flame cut as provided in Art. 55.4 (f) of
the Std. Specifications. All surfaces shall receive two shop coats of red lead
paint except the 2 inch anchor straps and 2 inch anchor bolts which shall not be painted.
Estimated Weight, the sum of both expansion devices complete is 3900 Lbs.
and is included for payment as Structural Steel sheets 142.



DETAIL OF EXPANSION BEARING

Weight of Cast Steel Upper Shoe 454 Lbs. - 16 Required
Weight " " Exp. Roster 303 Lbs. - 12
Weight " " Fixed Bolster 520 Lbs. - 4



STANDARD PIN & RECESSED NUT

16 Pins, 2 Pilot Nuts, 2 Driving Nuts - Required

EXPANSION DEVICES
AND BEARING DETAILS

MILLINGTON BRIDGE
OVER FOX RIVER
LA SALLE - KENDALL CO'S.
STATION 6+15.47
SECTION B-B

COMPUTED Joseph J. Rimsay
CHECKED Sami Alper
DRAWN J. J. Rimsay
CHECKED Sami Alper

EXAMINED MAY 6 1957
PASSED
APPROVED

MAY 6 1957

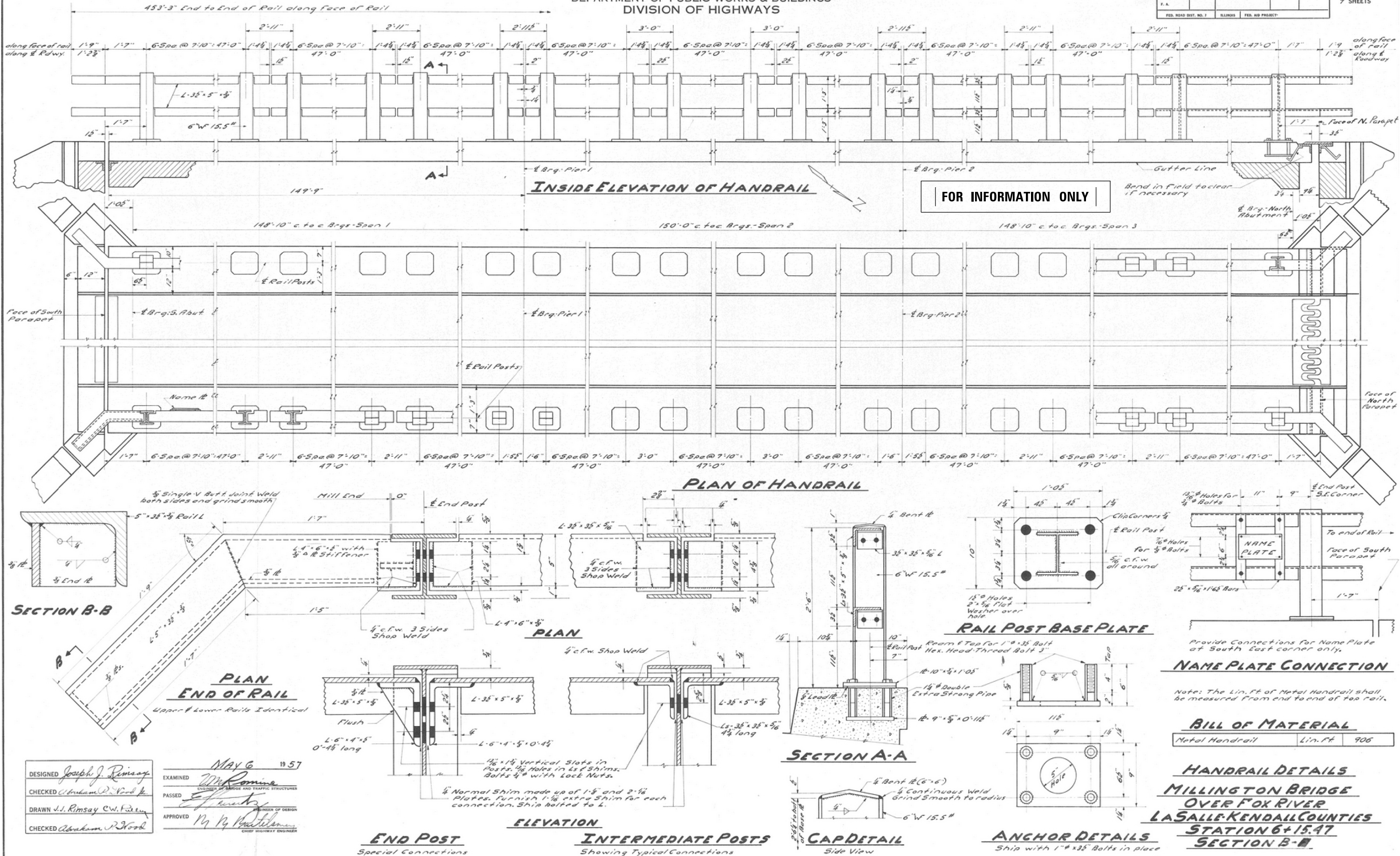
ENGINEER OF BRIDGES AND
TRAFFIC STRUCTURES

CHIEF HIGHWAY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00142-00-BR	LASALLE	93	48
171	17-00142-00-BR	KENDALL	93	48

SHEET NO. 6
7 SHEETS



DESIGNED Joseph J. Rimsay
CHECKED Abraham P. Wood
DRAWN J. J. Rimsay, C.W. Fidler
CHECKED Abraham P. Wood

EXAMINED *Dr. Rimsay*
PASSED *E. Rimsay*
APPROVED *M. R. Rimsay*

MAY 6 1957

WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-00018

DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000
STRUCTURAL SHEET NO. 36 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	48
171	17-00142-00-BR	KENDALL	93	48

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

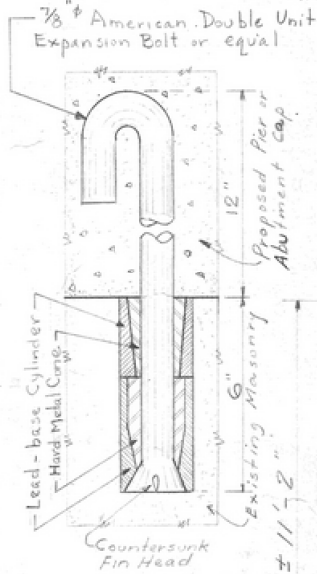
NOTE :- Remove that portion of existing Abutment above Elev. ± 101.59 that is necessary for proposed construction. This work shall be paid for per cu. yd. as Masonry Removal. 30.7 cu. yd. per abutment estimated. Exposed Masonry joints shall be raked clean of all loose material and shall be tuck pointed. Cost shall be incidental to the Contract.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

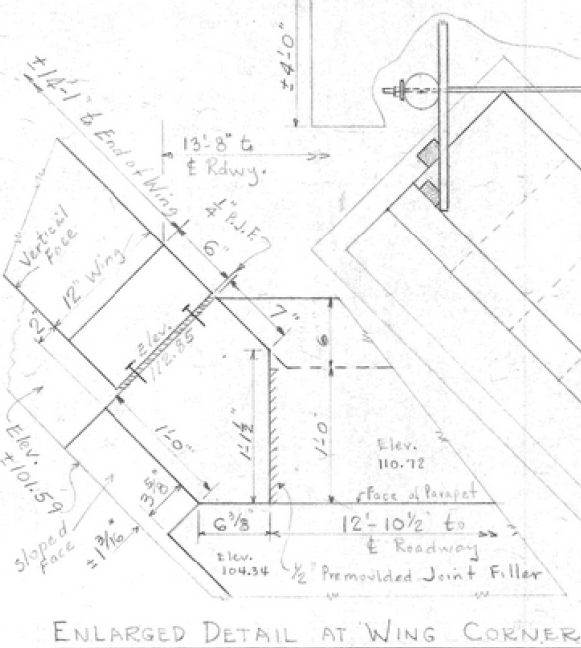
Note: - At North Abutment, the spacing of V bars may be varied to accommodate Expansion device.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17	LASALLE	93	49

SHEET NO. 7
9 SHEETS



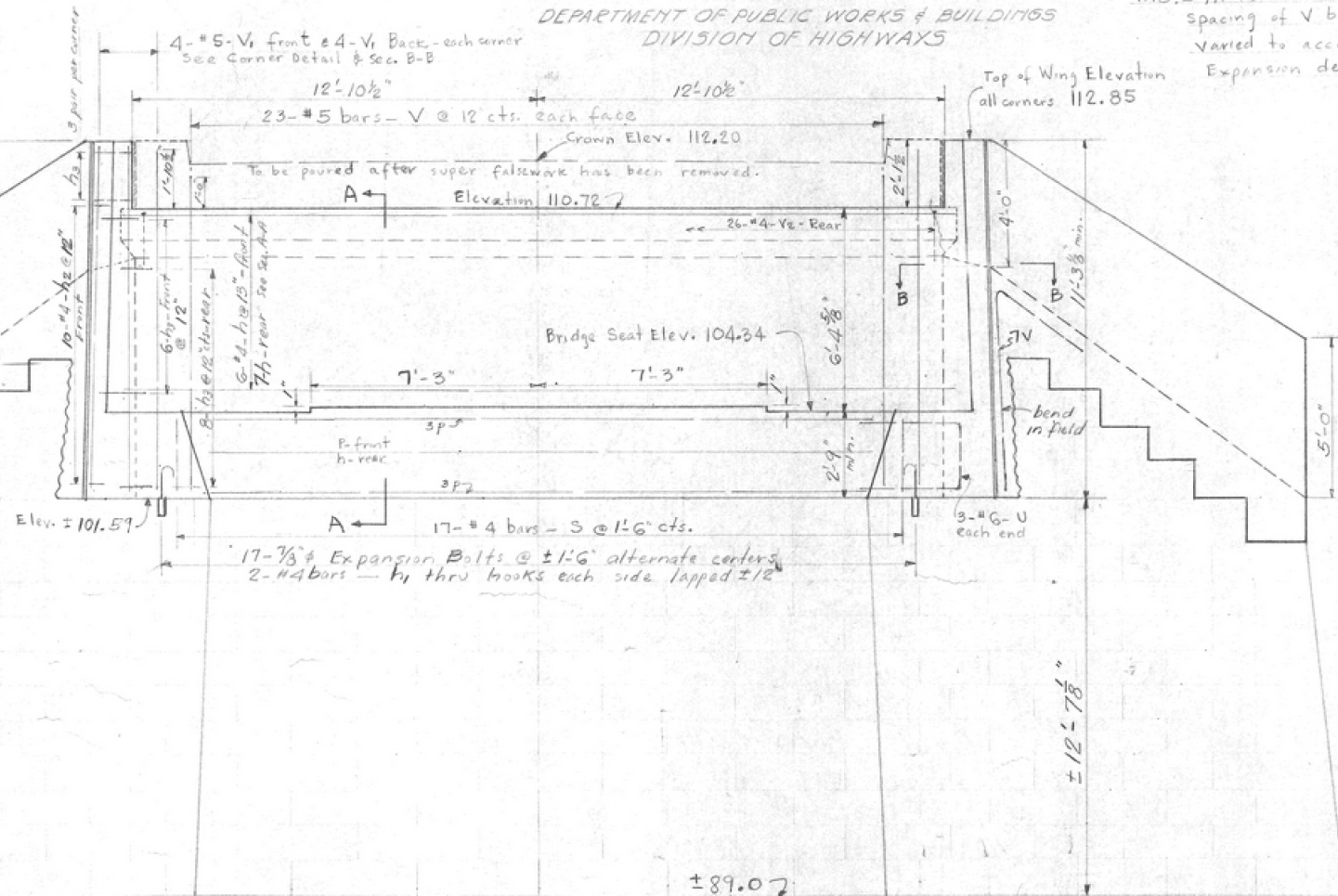
EXPANSION BOLT DETAIL



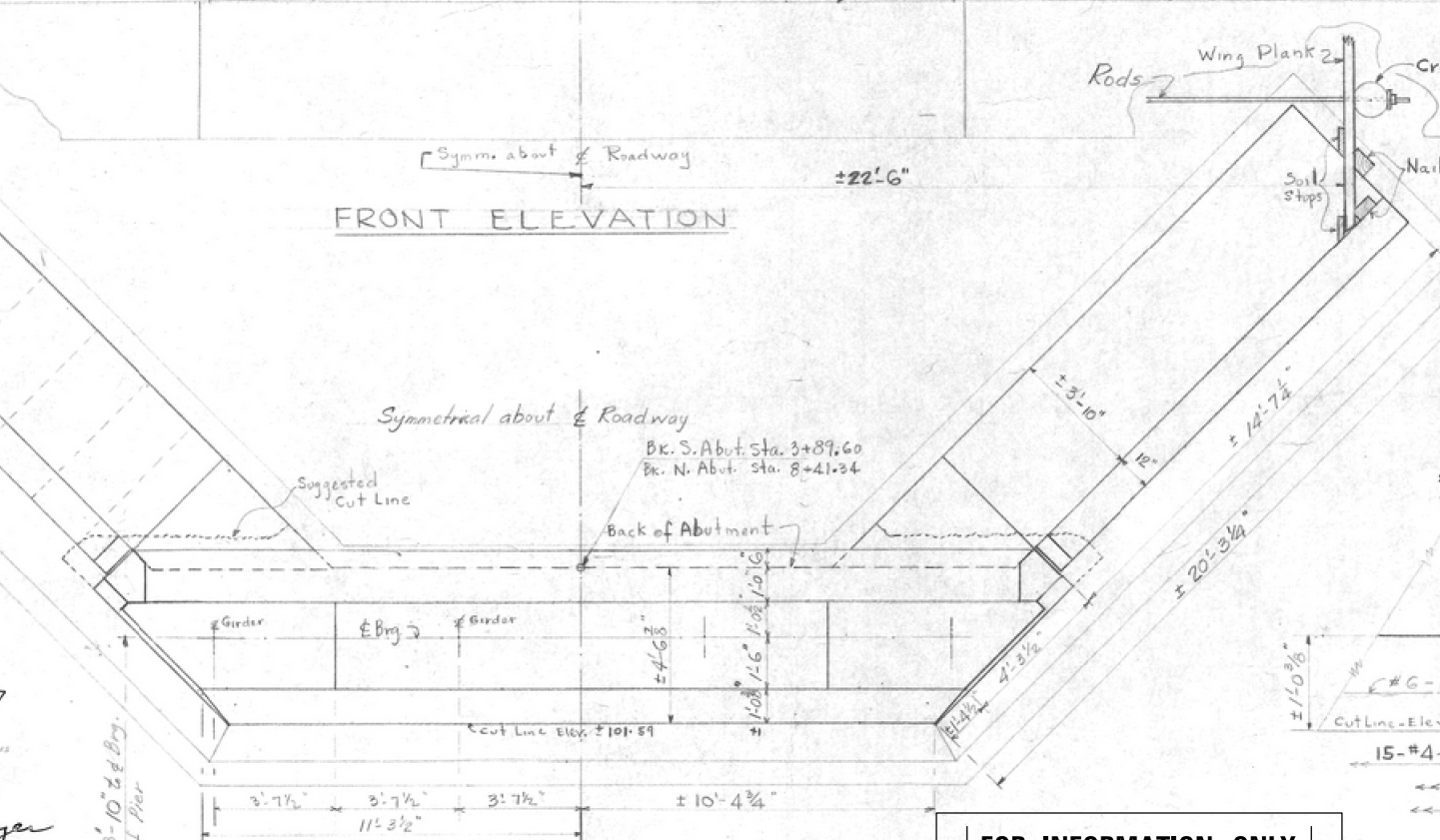
ENLARGED DETAIL AT WING CORNER

DESIGNED *Graph J. B. Bony*
CHECKED
DRAWN *J. RIMSAY*
CHECKED

MAY 6 1957
STAMPED
PASSED
APPROVED

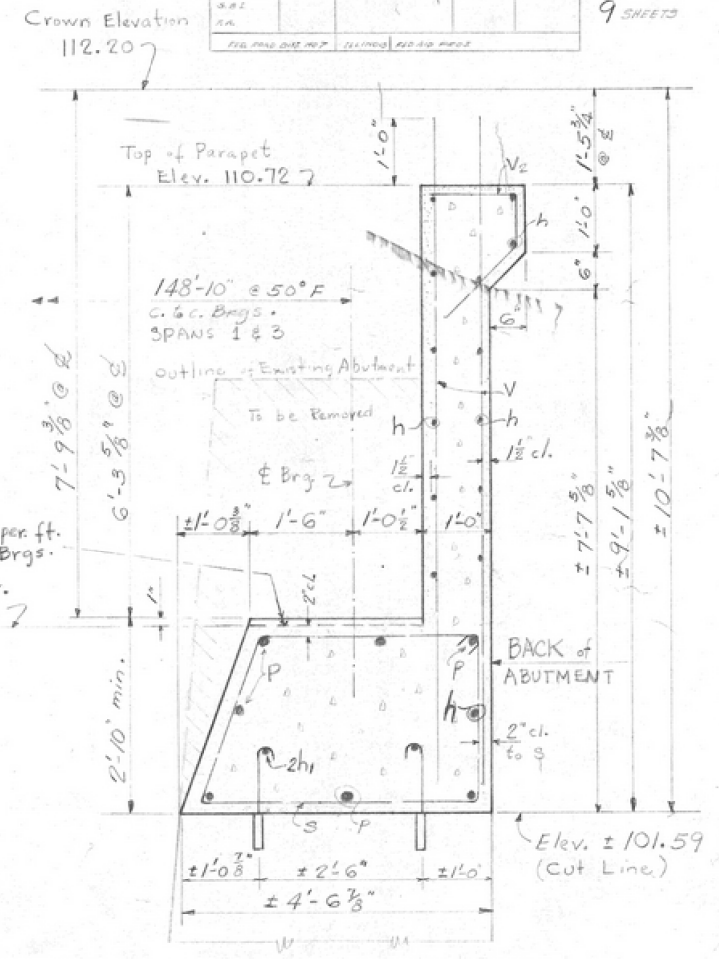


FRONT ELEVATION



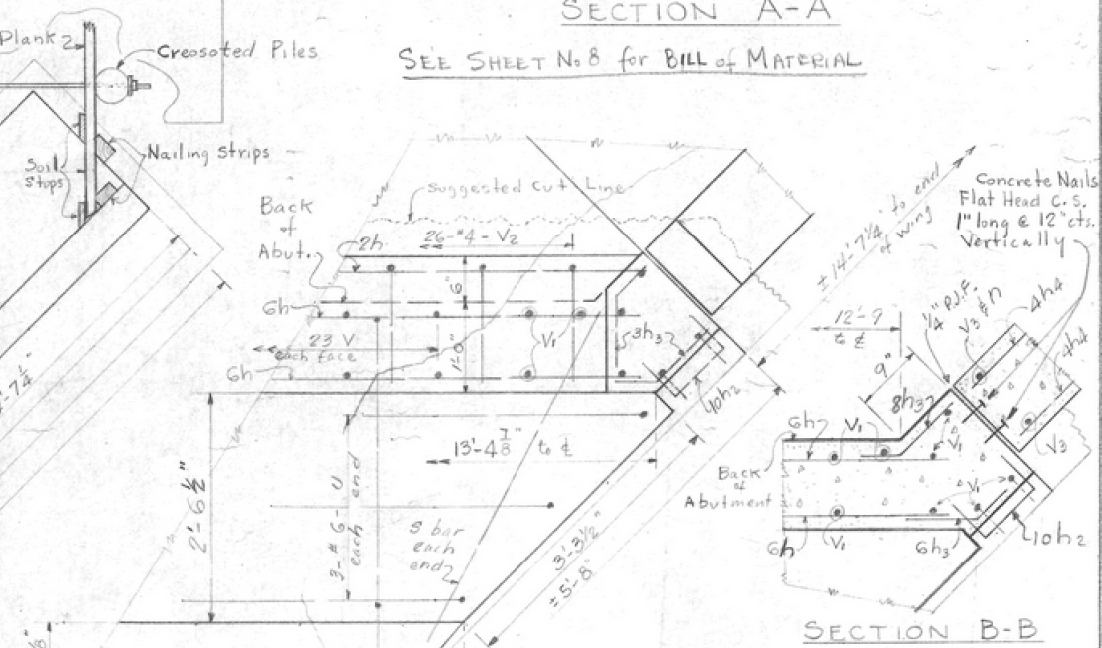
PLAN

FOR INFORMATION ONLY



SECTION A-A

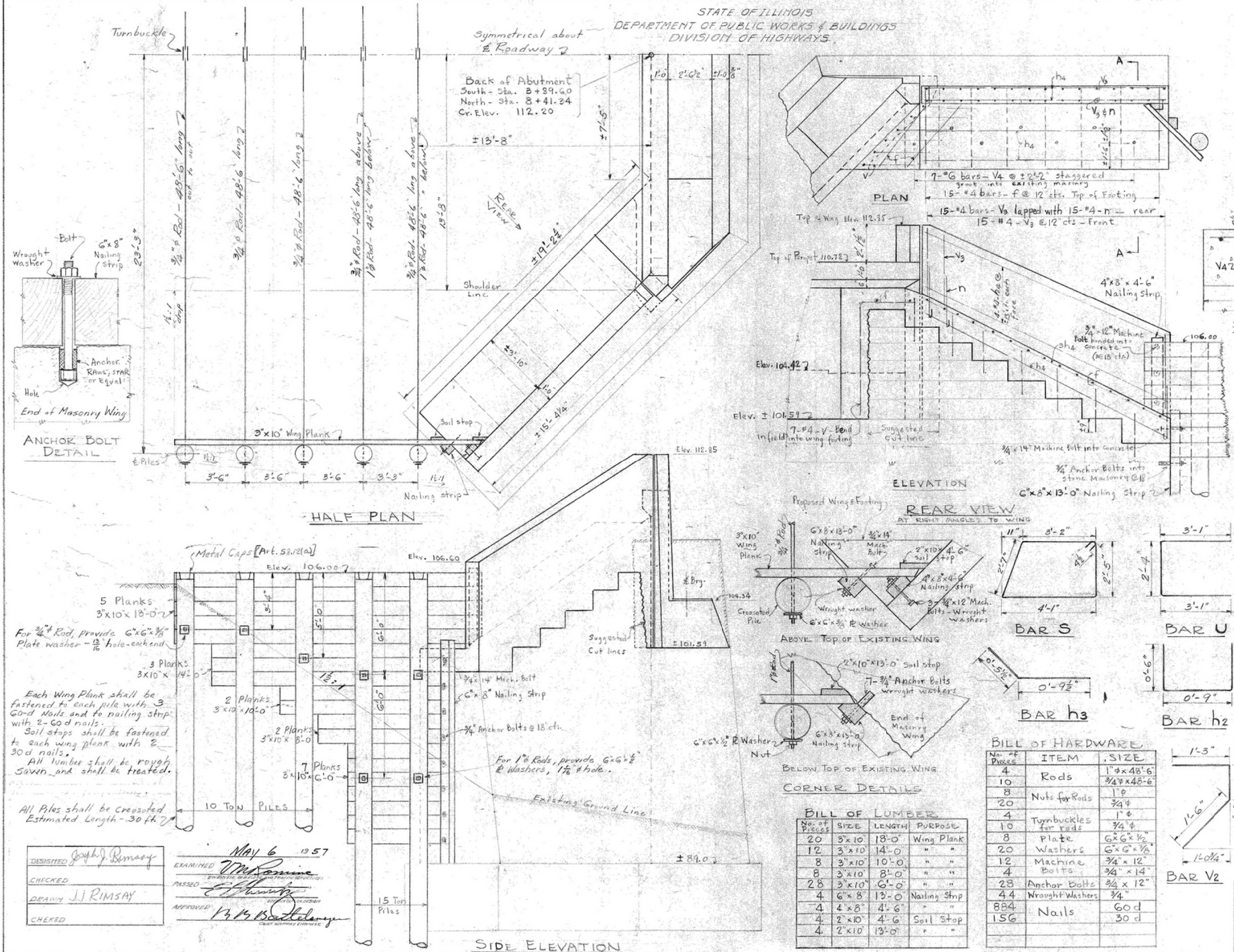
SEE SHEET No 8 for BILL of MATERIAL



SECTION B-B

MILLINGTON BRIDGE
OVER FOX RIVER
LA SALLE - KENDALL COUNTIES
STATION 6+15.47
SECTION B
BRIDGE NO. 3000

CORNER DETAIL



FOR INFORMATION ONLY

BILL OF MATERIAL TWO ABUTMENTS				
BAR	No.	SIZE	LENGTH	SHAPE
f	68	#4	5'-0"	U
h	28	#4	26'-6"	U
h1	8	#4	12'-9"	U
h2	40	#4	1'-9"	U
h3	80	#4	1'-3"	U
h4	48	#4	15'-9"	U
n	60	#4	3'-6"	U
p	14	#6	21'-3"	U
s	34	#4	13'-0"	U
u	12	#6	8'-6"	U
v	120	#5	9'-9"	U
v1	32	#5	10'-9"	U
v2	52	#4	3'-6"	U
v3	120	#4	4'-3"	U
v4	28	#6	2'-6"	U
Class X Concrete			Cu. Yd.	75.7
Reinforcement Bars			Lbs.	4590
Masonry Removal			Cu. Yd.	61.4
Expansion Bolts			Each	34
Hardware			Lbs.	1670
Treated Timber			Ft. B.M.	2480
Creosoted Piles (6" x 13")			Lin. Ft.	600
Test Piles			Each	2

BILL OF HARDWARE		
No. of Pieces	ITEM	SIZE
4	Rods	1" x 48'-6"
10	Nuts for Rods	3/4" x 48'-6"
8	Turnbuckles for rods	1" x 1/2"
20	Plate	6" x 6" x 1/2"
4	Washers	6" x 6" x 1/2"
12	Machine Bolts	3/4" x 12"
4	Anchor Bolts	3/4" x 12"
28	Wrought Washers	3/4"
44	Nails	60d
884		30d
156		

BILL OF LUMBER			
No. of Pieces	SIZE	LENGTH	PURPOSE
20	3" x 10"	18'-0"	Wing Plank
12	3" x 10"	14'-0"	"
8	3" x 10"	10'-0"	"
8	3" x 10"	8'-0"	"
28	3" x 10"	6'-0"	"
4	6" x 8"	13'-0"	Nailing Strip
4	4" x 8"	4'-6"	"
4	2" x 10"	4'-6"	Soil Stop
4	2" x 10"	13'-0"	"

ABUTMENTS
MILLINGTON BRIDGE
OVER FOX RIVER
LA SALLE - KENDALL COUNTIES
STATION 6+15.47
SECTION B

DESIGNED: Joseph J. Rimsay
CHECKED: J. J. Rimsay
DRAWN: J. J. Rimsay
CHECKED: J. J. Rimsay
MAI 6 1957
EXAMINED: J. J. Rimsay
PASSED: J. J. Rimsay
APPROVED: J. J. Rimsay



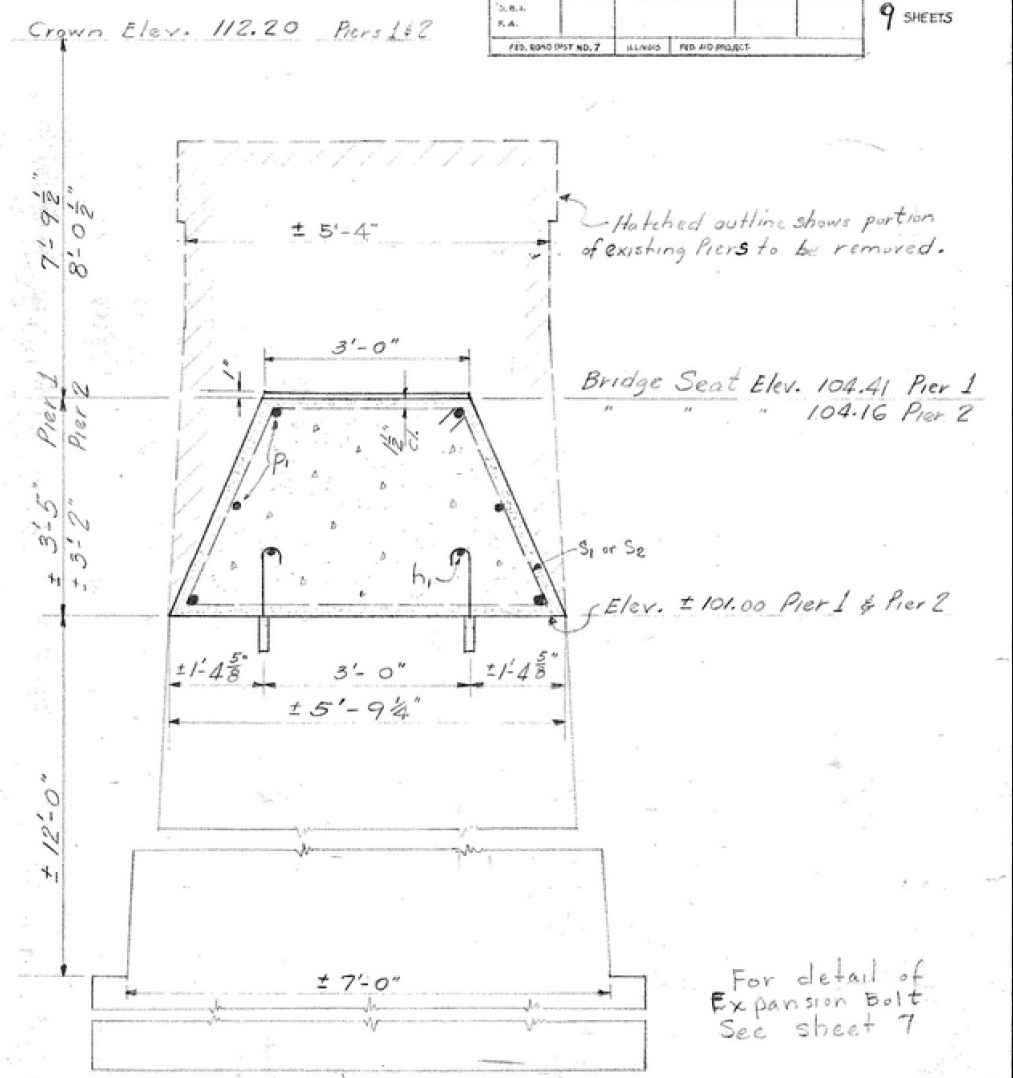
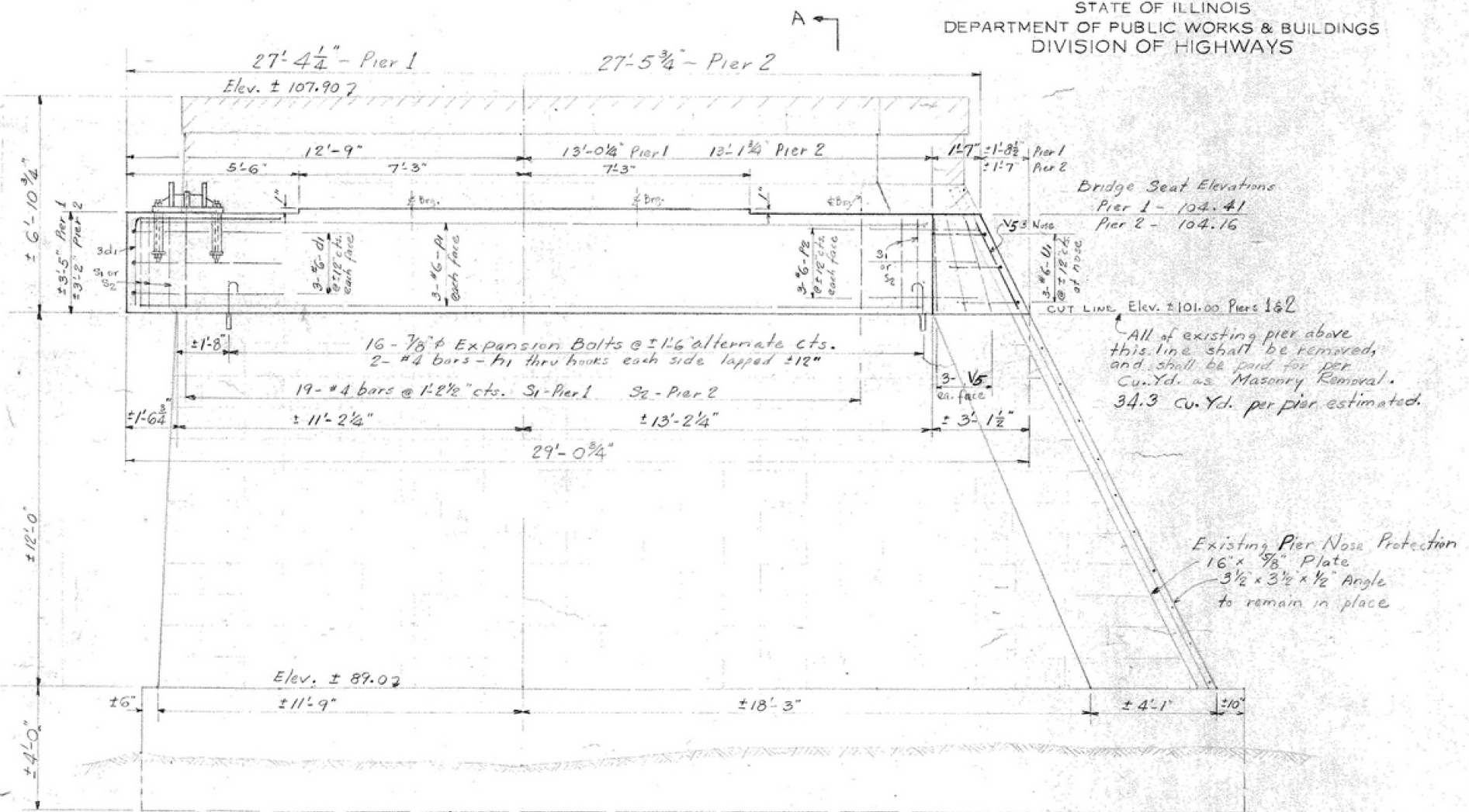
DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000
STRUCTURAL SHEET NO. 38 OF 67 SHEETS

F&S R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	50
171	17-00142-00-BR	KENDALL	93	50

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SECTION A-A

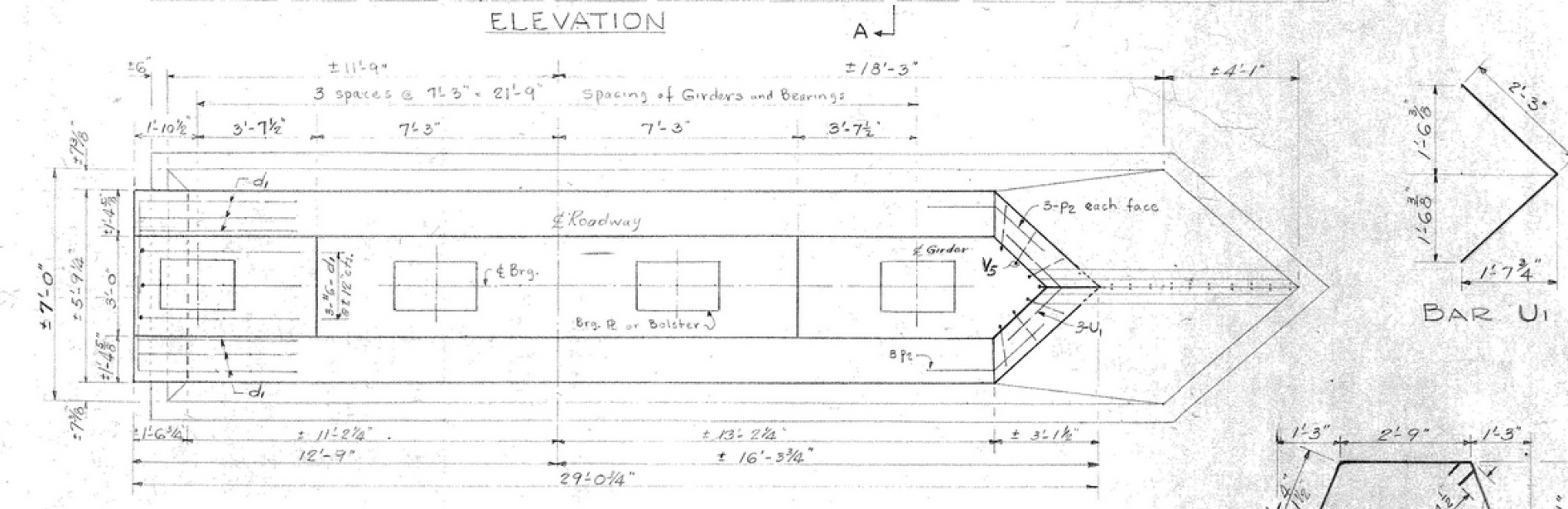
BILL OF MATERIAL
TWO PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
d1	18	# 6	7'-6"	┌
h1	8	# 4	12'-9"	└
P1	12	# 6	25'-3"	┌
P2	12	# 6	4'-0"	└
S1	24	# 4	15'-5"	△
S2	24	# 4	15'-0"	△
U1	6	# 6	4'-6"	>
V5	14	# 4	3'-0"	—
Class X Concrete			Cu. Yds.	29.3
Reinforcement Bars			Lbs.	1360
Masonry Removal			Cu. Yds.	68.0
Expansion Bolts			Each	32

PIERS

MILLINGTON BRIDGE
OVER FOX RIVER
LA SALLE - KENDALL COUNTIES
STATION 6+15.47
SECTION B

FOR INFORMATION ONLY



PLAN

NOTE :- Flame-cut existing steel Pier Nose protection flush with top of proposed pier caps. Weld suitable lugs to protection R and imbed into new concrete. All Masonry joints shall be raked clean of all loose material and shall be tuck pointed. Cost of above shall be incidental to the contract.

DESIGNED Joseph J. Rimsay
CHECKED
DRAWN J.J. RIMSAY
CHECKED

EXAMINED
PASSED
APPROVED

MAY 6 1957



DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

1957 EXISTING PLANS
STRUCTURE NO. 074-3000
STRUCTURAL SHEET NO. 39 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	51
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

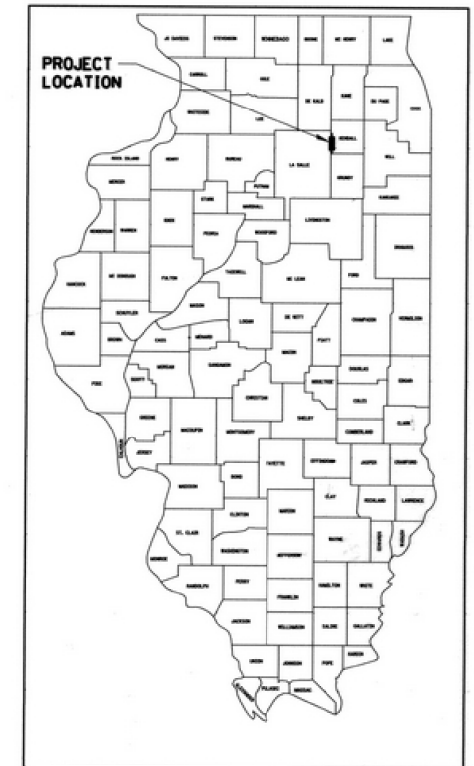
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED LOCAL AGENCY IMPROVEMENT
FEDERAL AID – MAJOR BRIDGE PROGRAM

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	94-00036-00-BR	KENDALL	25	1

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, DETAIL & SUMMARY OF QUANTITIES
3	DETOUR ROUTE DETAILS
4	PLAN AND PROFILE
5	TYPICAL SECTIONS, DETAILS & QUANTITY SCHEDULES
6-7	ROADWAY CROSS SECTIONS
8 S-1	GENERAL PLAN AND ELEVATIONS
9 S-2	GENERAL NOTES AND SUMMARY OF QUANTITIES
10 S-3	DECK ELEVATION LAYOUT
11 S-4	DECK ELEVATION
12 S-5	DECK PLAN AND SECTION
13 S-6	SUPERSTRUCTURE DETAILS
14 S-7	STEEL FRAMING PLAN
15 S-8	SUPERSTRUCTURE STEEL DETAILS AND TABLES
16 S-9	BEARING DETAILS
17 S-10	BEARING DETAILS 2
18 S-11	SOUTH AND NORTH ABUTMENT RECONSTRUCTION
19 S-12	ABUTMENT DETAILS
20 S-13	ABUTMENTS REPAIRS
21 S-14	PIER RECONSTRUCTION AND REPAIRS
22 S-15	NEOPRENE JOINT DETAILS
23 S-16	ANCHOR BOLT DETAILS FOR BEARINGS
24 S-17	RETAINING WALL
25 S-18	SOIL BORING LOG

KENDALL COUNTY
FAS 171 (C.H. 3)
MILLINGTON BRIDGE
OVER FOX RIVER
SECTION: 94-00036-00-BR
PROJECT: BHS-171 (106)
JOB: C-93-036-98

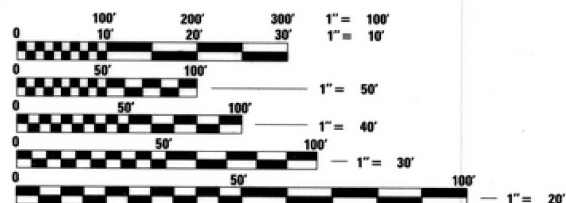


LIST OF STANDARDS

- 000001-03 Standard Symbols, Abbreviations and Patterns
420401-02 Bridge Approach Pavement
515001 Name Plate for Bridges
542401 Metal End Section for Pipe Culverts
601001 Sub-Surface Drains
601101 Concrete Headwall for Pipe Drains
606001-01 Concrete Curb & Combination Concrete Curb & Gutter
606006 Outlet for Concrete Curb and Gutter, Type B-15.60 (B-6.24)
609001-01 Bridge Approach Shoulder Pavement and Drain
630001-02 Steel Plate Beam Guardrail
630201-02 PCC/Bituminous Stabilization at Steel Plate Beam Guardrail
631031-02 Traffic Barrier Terminal, Type 6
702001-01 Traffic Control Devices
BLR 21-5 Typical Application of Traffic Control Devices on Rural Local Highways

COUNTY HIGHWAY 3 (BRIDGE STREET)
CLASSIFICATION: MAJOR COLLECTOR
CURRENT ADT = 1700 (1999)
DESIGN ADT = 2100 (2019)
95% P.C. 4% S.U. 1% MU
DESIGN SPEED 50 M.P.H.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS. THE J.U.L.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.



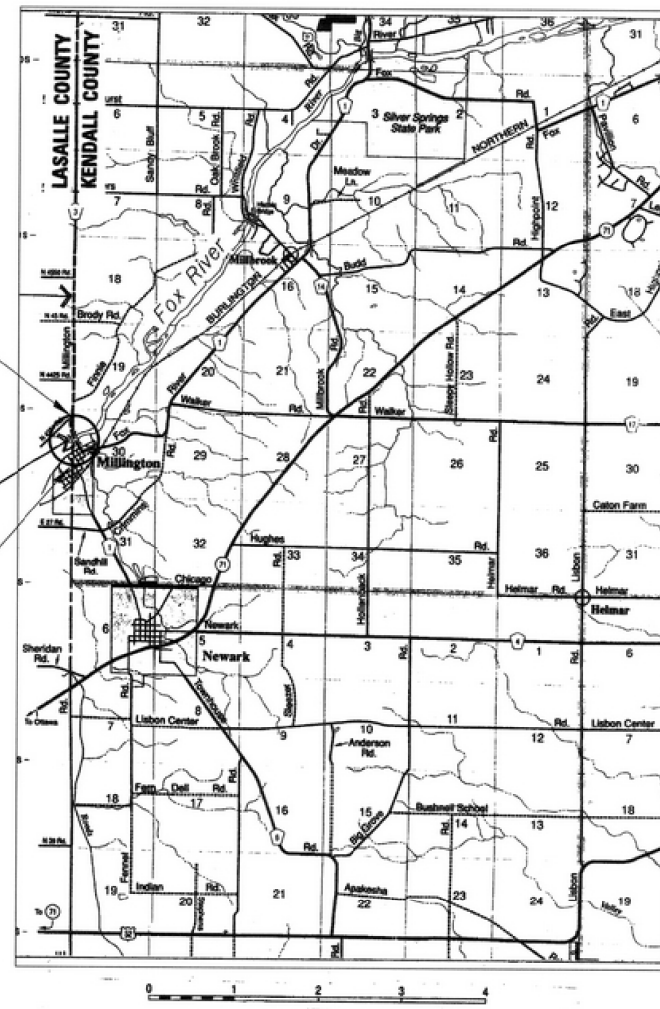
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 87180

PROJECT ENDS
STA. 20+24

PROPOSED S.N. 047-3000

BEGIN PROJECT
STA. 11+35



SECTION 30, TOWNSHIP 36N, RANGE 6E OF THIRD PRINCIPAL MERIDIAN
LOCATION PLAN
GROSS AND NET LENGTH OF PROJECT = 889 LIN. FT. = 0.168 MILES



FOR INFORMATION ONLY

POLICY STATEMENT:
THESE PLANS WERE DEVELOPED USING THE FEDERAL AID PROCEDURES FOR LOCAL HIGHWAY IMPROVEMENT.

APPROVED DECEMBER 30 19 99
James C. Hahn KENDALL COUNTY ENGINEER
APPROVED DECEMBER 30 19 99
James G. Krizan LASALLE COUNTY ENGINEER
PASSED 1-3 19 2000
D. P. M. Smith DISTRICT ENGINEER OF LOCAL ROADS AND STREETS
APPROVED 1-3 19 2000
A. A. Hahn DISTRICT ENGINEER



DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 40 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	52
	17-00142-00-BR	KENDALL		

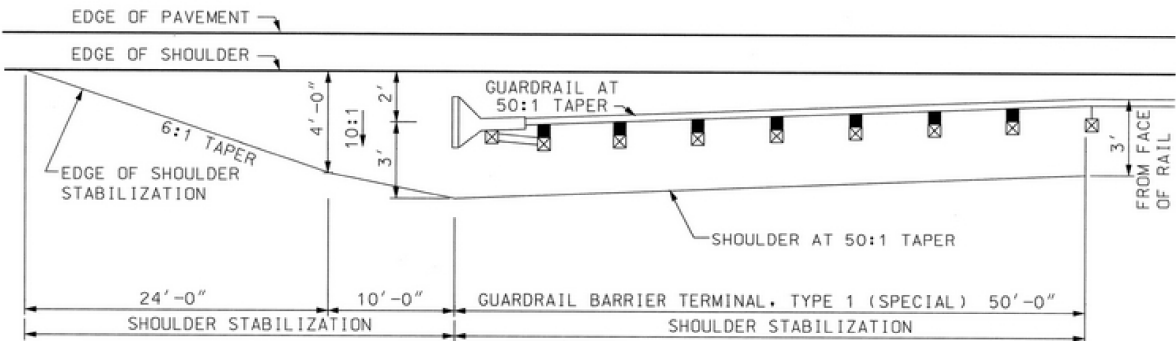
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	X071-2A TOTAL	ROAD
20200100	EARTH EXCAVATION	CU YD	401	401
20500150	EMBANKMENT	CU YD	200	200
20800150	TRENCH BACKFILL	CU YD	4	4
35101400	AGGREGATE BASE COURSE, TYPE B	TON	288	288
40600100	BITUMINOUS MATERIAL (PRIME COAT)	GAL	410	410
40600760	BITUMINOUS CONCRETE BINDER COURSE MIXTURE B, TYPE 2	TON	65	65
40600840	BITMINOUS CONCRETE SURFACE COURSE MIXTURE C, CLASS I, TYPE 2	TON	39	39
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	188	188
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	38	38
48200400	BITUMINOUS SHOULDERS 6"	SQ YD	328	328
48200600	BITUMINOUS SHOULDERS 8"	SQ YD	42	42
50102400	CONCRETE REMOVAL	CU YD	23.2	23.2
* 50104100	BRIDGE HANDRAIL REMOVAL	FOOT	904	904
* 50104800	REMOVAL OF EXISTING CONCRETE DECK	L.SUM	1	1
50200100	STRUCTURE EXCAVATION	CU YD	268	268
50300100	FLOOR DRAINS	EACH	54	54
50300150	NEOPRENE EXPANSION JOINT 2"	FOOT	30	30
50300160	NEOPRENE EXPANSION JOINT 4"	FOOT	30	30
50300225	CONCRETE STRUCTURES	CU YD	141.5	141.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	492.2	492.2
50300260	BRIDGE DECK GROOVING	SQ YD	1,398	1,398
50300300	PROTECTIVE COAT	SQ YD	2,054	288 1,766
* 50301250	FORMED CONCRETE REPAIR (DEPTH GREATER THAN 5")	SQ FT	128	128
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L.SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	3,664	3,664
* 50500715	JACK AND REMOVE EXISTING BEARINGS	EACH	16	16
* 50600300	CLEANING AND PAINTING STEEL BRIDGE	L.SUM	1	1
* 50606200	BLASTING RESIDUE CONTAINMENT AND DISPOSAL	L.SUM	1	1
* 50606300	POWER TOOL CLEANING RESIDUE CONTAINMENT AND DISPOSAL	L.SUM	1	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	132,780	132,780
51201400	FURNISHING STEEL PILES HP10x42	FOOT	228	228
51202700	DRIVING STEEL PILES	FOOT	228	228
51500100	NAME PLATES	EACH	1	1
54213447	END SECTIONS 12"	EACH	1	1
55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III	FOOT	24	24
58700200	BRIDGE SEAT SEALER	SQ FT	159	159
59000100	EPOXY CRACK SEALING	FOOT	38	38
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	2	2
60100915	PIPE DRAINS 6"	FOOT	20	20
60100945	PIPE DRAINS 12"	FOOT	50	50
60107700	PIPE UNDERDRAINS 6"	FOOT	234	112 122
* 60603400	GUTTER OUTLET (SPECIAL)	EACH	2	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	280	280
* 60900130	TYPE B INLET BOX, STANDARD 609001 (SPECIAL)	EACH	2	2
60900515	CONCRETE THRUST BLOCKS	EACH	1	1
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	388	388
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100165	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	4	4
63200310	GUARD RAIL REMOVAL	FOOT	908	908
* 70101700	TRAFFIC CONTROL AND PROTECTION	L.SUM	1	1
* 78200405	GUARD RAIL MARKERS	EACH	46	46
78201000	TERMINAL MARKER DIRECT APPLIED	EACH	4	4
*	FLOATING BEARINGS, FIXED	EACH	4	4
*	FLOATING BEARINGS, GUIDED EXPANSION	EACH	12	12
* X0322001	STONE MASONRY TUCK POINTING	FOOT	107	107

* SPECIAL PROVISION



SHOULDER WIDENING FOR GUARDRAIL
BARRIER TERMINAL, TYPE 1 (SPECIAL)

GENERAL NOTES

THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1.5 INCHES UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-0123 FOR FIELD LOCATIONS OF ALL PUBLIC UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL UTILITIES WITHIN THE WORK AREA AND ALL PROPERTY ADJACENT TO THE WORK AREA.

THE EXISTING DECK SHALL BE MARKED, SAWN AND REMOVED IN SLABS AS DIRECTED BY THE ENGINEER TO MINIMIZE THE AMOUNT OF DEBRIS THAT FALLS IN THE FOX RIVER.

PROTECTIVE COAT SHALL BE APPLIED TO THE EXPOSED PORTIONS OF THE DECK, APPROACH SLABS AND INSIDE FACE OF THE PARAPET WALLS, IN ACCORDANCE WITH ARTICLE 503.

DETOUR SIGNING, ROAD CLOSURE SIGN AND BARRICADES, AS WELL AS TRAFFIC CONTROL SURVEILLANCE SHALL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION. TRAFFIC CONTROL DEVICES, TEMPORARY SIGNS AND THE METHOD OF THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH IDOT STANDARDS 702001 AND BLR 21-5 AND SHALL BE APPROVED BY THE ENGINEER IN ADVANCE.

THE FOLLOWING WORK ITEMS WILL NOT BE PAID FOR AS SEPARATE ITEMS BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT:

FURNISHING AND PLACING TOPSOIL, 4", EROSION CONTROL BLANKET, SEEDING, CLASS 2, AND FERTILIZERS APPROXIMATELY 0.3 ACRES PER IDOT STANDARD SPECIFICATIONS, SECTIONS 211, 250, 251 AS SHOWN IN TYPICAL SECTIONS AND CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER.

FOR INFORMATION ONLY

MILLINGTON BRIDGE
OVER FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
GENERAL NOTES, DETAIL AND
SUMMARY OF QUANTITIES



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

DESIGNED - BKC
CHECKED - PLP
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

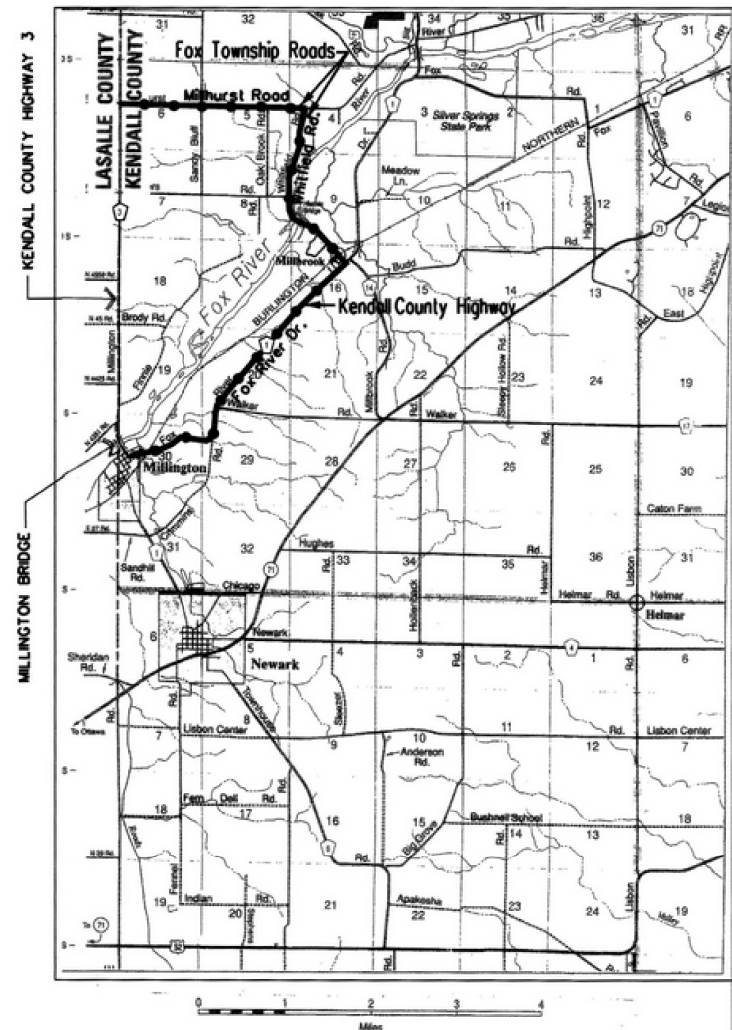
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

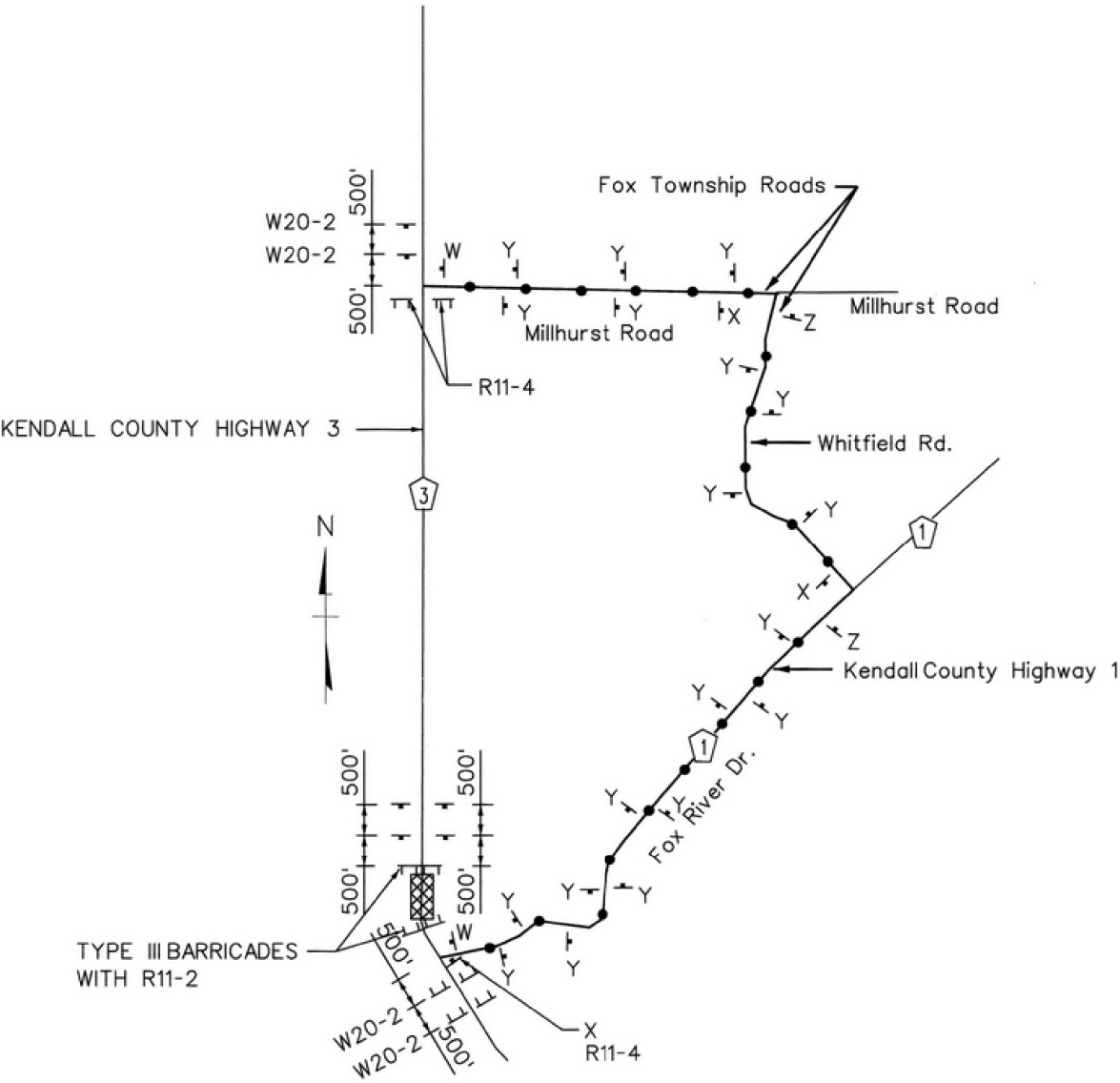
STRUCTURAL SHEET NO. 41 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	53
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

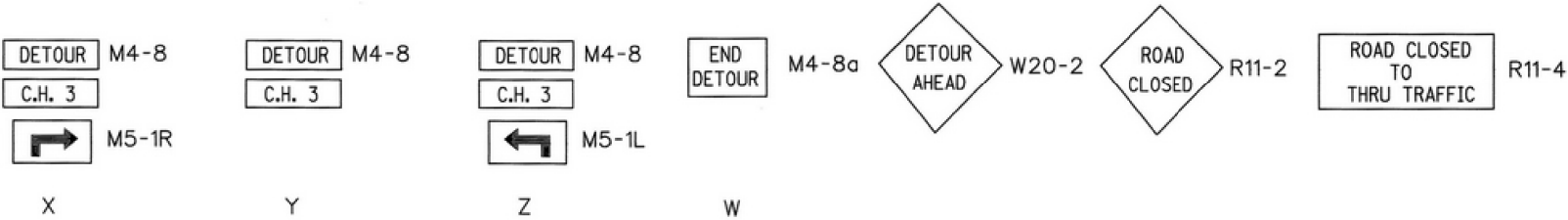
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	94-00036-00-BR	KENDALL	25	3
STA.		TO STA.		
FED. ROAD DIST. NO.		BLDG. NO.		FED. AID PROJECT



DETOUR ROUTE
 RECOMMENDED DETOUR ROUTE



ROAD CLOSURE DETAIL
 RECOMMENDED DETOUR ROUTE
 MILLINGTON BRIDGE CONSTRUCTION ZONE
 TYPE III BARRICADE



DETOUR SIGNING ASSEMBLY

FOR INFORMATION ONLY

MILLINGTON BRIDGE
OVER FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
DETOUR ROUTE DETAILS

FILE : S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17_2000 Existing Plans.dgn

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	94-00036-00-BR	KENDALL	25	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		
		FED. AID PROJECT		

P.I. STA. 22+43.77
 $\Delta = 34^{\circ}-15'-09''$
 $R = 787.24'$

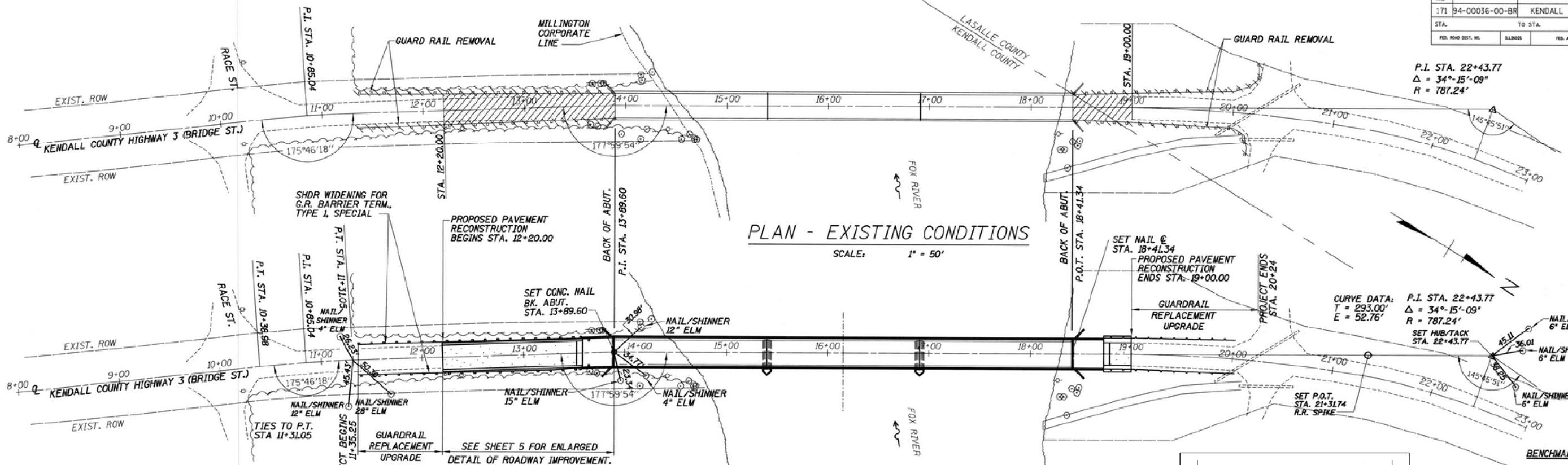
CURVE DATA:
 $T = 293.00'$
 $E = 52.76'$

P.I. STA. 22+43.77
 $\Delta = 34^{\circ}-15'-09''$
 $R = 787.24'$

SET HUB/TACK
 STA. 22+43.77

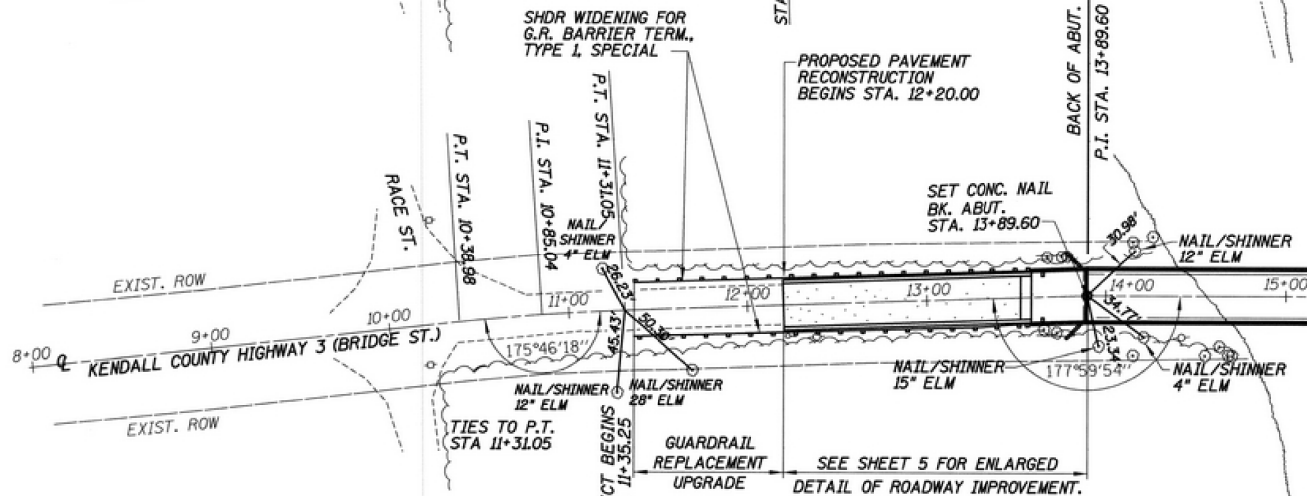
SET P.O.T.
 STA. 21+31.74
 R.R. SPIKE

- BENCHMARKS**
- CUT IN BRIDGE CURB, STA. 13+89.6 RT. ELEVATION 112.82
 - CUT IN BRIDGE CURB, STA. 18+41.34 RT. ELEVATION 112.85



PLAN - EXISTING CONDITIONS

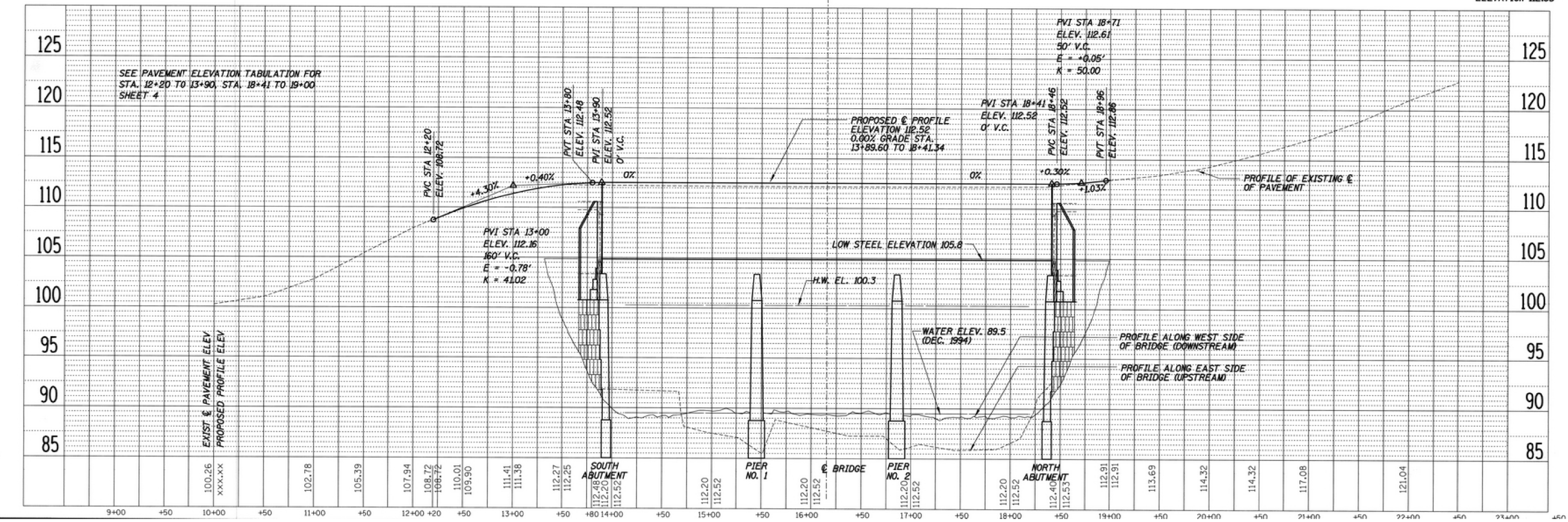
SCALE: 1" = 50'



PLAN - PROPOSED CONSTRUCTION

SCALE: 1" = 50'

FOR INFORMATION ONLY



SEE PAVEMENT ELEVATION TABULATION FOR
 STA. 12+20 TO 13+90, STA. 18+41 TO 19+00
 SHEET 4

PROPOSED E PROFILE
 ELEVATION 112.52
 0.00% GRADE STA.
 13+89.60 TO 18+41.34

PVI STA. 18+41
 ELEV. 112.52
 0' V.C.

PVI STA. 18+96
 ELEV. 112.86
 0' V.C.

PROFILE OF EXISTING E
 OF PAVEMENT

LOW STEEL ELEVATION 105.8

H.W. EL. 100.3

WATER ELEV. 89.5
 (DEC. 1994)

PROFILE ALONG WEST SIDE
 OF BRIDGE (DOWNSTREAM)

PROFILE ALONG EAST SIDE
 OF BRIDGE (UPSTREAM)



DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000
 STRUCTURAL SHEET NO. 43 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	55
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

FILE : S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17_2000 Existing Plans.dgn

- (A) STA. 12+20 TO 13+53.60
159 C.Y. EARTH EXCAVATION
246 TONS AGGREGATE BASE COURSE, TYPE B
178 GAL. BITUMINOUS MATERIALS, (PRIME COAT)
51 TONS BIT. CONC. B.C., MIX B, T-2
31 TONS BIT. CONC. S.C., MIX D, CL I, T-1
- (B) STA. 13+53.60 TO 13+59.60
16 S.Y. BRIDGE APPROACH PAVT CONNECTOR (FLEXIBLE)
- (C) STA. 13+59.60 TO 13+89.60
94 S.Y. BRIDGE APPROACH PAVEMENT (STD 420401)
94 S.Y. PROTECTIVE COAT
- (D) STA. 18+41.34 TO 18+71.34
94 S.Y. BRIDGE APPROACH PAVEMENT (STD 420401)
94 S.Y. PROTECTIVE COAT
- (E) STA. 18+71.34 TO 18+77.34
16 S.Y. BRIDGE APPROACH PAVT CONNECTOR (FLEXIBLE)
9 S.Y. BITUMINOUS SHOULDER 8"
- (F) STA. 18+77.34 TO 19+00
27 C.Y. EARTH EXCAVATION
42 TONS AGGREGATE BASE COURSE, TYPE B
35 GALS. BITUMINOUS MATERIALS (PRIME COAT)
9 TONS BIT. CONC. B.C., MIX B, T-2
7 TONS BIT. CONC. S.C. MIX D, CL I, T-1
42 S.Y. BITUMINOUS SHOULDER 8"
- (G) AT PROPOSED GUARDRAIL
164 GALS. BITUMINOUS MATERIALS (PRIME COAT)
328 S.Y. BITUMINOUS SHOULDER 6"
101 C.Y. EARTH EXCAVATION

STATION	12' LT.	℄	12' RT.
12+20	* ME	* ME	* ME
12+50	109.89	109.90	109.29
12+75	110.62	110.72	110.22
13+00	111.20	111.38	110.98
13+25	111.71	111.89	111.59
13+50	112.07	112.25	112.07
13+60	112.17	112.35	112.17
STATION	14' LT.	℄	14' RT.
13+60	112.19	112.40	112.19
13+90	112.31	112.52	112.31
STATION	14' LT.	℄	14' RT.
18+41	112.31	112.52	112.31
18+71	112.45	112.66	112.45
STATION	12' LT.	℄	12' RT.
18+71	112.48	112.66	112.48
18+85	112.59	112.77	112.59
19+00	* ME	* ME	* ME

* ME = MATCH EXISTING

STA. 13+66 RT.
1 EA. TYPE B INLET BOX
STD. 609001 (SPECIAL)
RIM ELEV. 112.21
INV. ELEV. 108.43
24 L.F. STORM SEWER, TYPE 2,
RCP CL III, 12"
4 C.Y. TRENCH BACKFILL

STA 13+66 LT.
1 EA. TYPE B INLET BOX
STD 609001 (SPECIAL)
RIM ELEV. 112.21
INV. ELEV. 108.18
50 L.F. PIPE DRAIN, 12"
(2-30° BENDS REQ'D)
1 EA. CONCRETE THRUST BLOCK
(ALIGNMENT OF 12" PIPE DRAIN
TO BE DETERMINED BY THE
ENGINEER TO AVOID TREE REMOVAL)

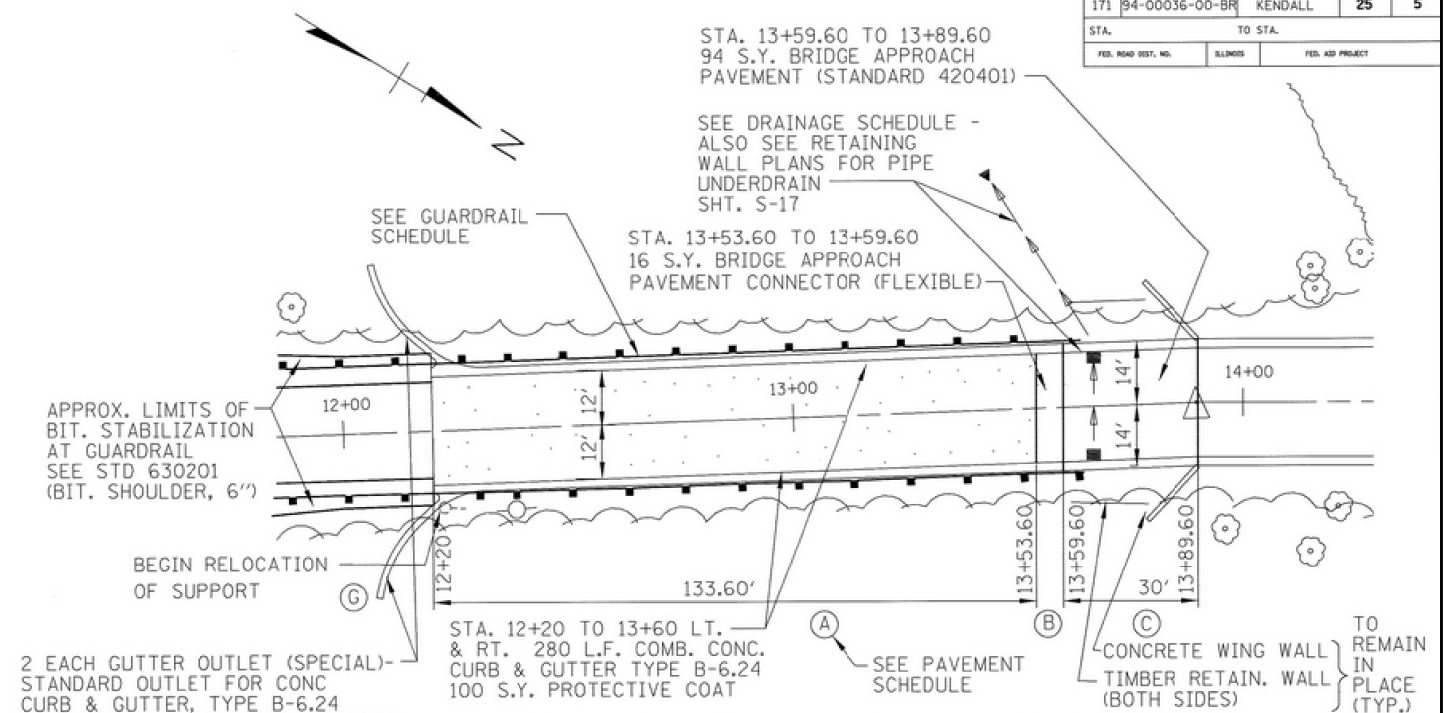
GUARD RAIL REMOVAL	
STATION TO STATION	
11+36 - 13+90 LT& RT	508
18+41 - 20+25 LT	205
18+41 - 20+25 RT	195
TOTAL	<u>908 FT</u>

STEEL PLATE BEAM GUARD RAIL, TYPE A	
STA. 11+85.25 TO 13+29.02 LT & RT	288 FT
STA. 19+02 TO 19+52 LT & RT	100 FT
TOTAL	<u>388 FT</u>

TRAF. BARRIER TERMINAL, TYPE 6	
STA. 13+29.02 TO 13+59.60 LT & RT	2 EACH
STA. 18+71.34 TO 19+02.00 LT & RT	<u>2 EACH</u>
TOTAL	4 EACH

L

TRAF. BARRIER TERM., TYPE 1 (SPECIAL)	
SEE DETAIL SHEET 2	
STA. 11+35.75 TO 11+85.25 LT & RT	2 EACH
STA. 19+52.00 TO 20+02.00 LT & RT	<u>2 EACH</u>
TOTAL	4 EACH



CONCRETE WING WALL TO REMAIN IN PLACE

18+00

30'

6'

22.66'

18+41.34

18+71.30

18+77.30

19+00

14'

11'

11'

11'

19+00

20+00

20+02

20+24

APPROX. LIMITS OF BIT. STABILIZATION AT GUARDRAIL SEE STD 630201

SEE GUARDRAIL SCHEDULE

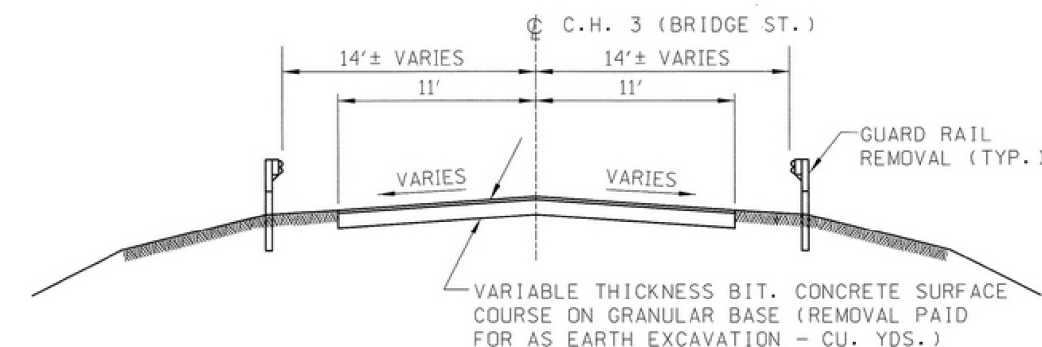
SEE RETAINING WALL PLANS FOR PIPE UNDERDRAINS SHT. S-17

CONCRETE DITCH

APPROX. LIMITS OF SHOULDER WIDENING FOR G.R. BARRIER TERMINAL, TYPE 1 (SPECIAL) SEE DETAIL SHEET 2

FOR INFORMATION ONLY

MILLINGTON BRIDGE
OVER FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
TYPICAL SECTIONS, DETAILS,
AND QUANTITY SCHEDULES



12' 12' 2'-0" 2'-0" 3' 3' 11' 11'

PROP. GUARDRAIL
SEE SCHEDULE

2:1 MAX

VARIES*

VARIES*

PROFILE GRADE ELEV.

STA 12+50 TO 13+60 LT. & RT.
COMB. CONC. C & G, TYPE B-6.24

TOPSOIL, 4", EROSION
CONTROL, SEEDING CLASS 2
& FERTILIZERS (INCIDENTAL
TO CONTRACT)

1 1/2" BIT. CONC. SURFACE
COURSE, CL 1, MIX D, T-1
2 1/2" BIT. CONC. BINDER
COURSE, MIX B, T-2
AGGR. BASE COURSE, T-B, 12"

*SEE PAVEMENT ELEV. TABULATION

PROFILE GRADE ELEV.

2'-6" 4'-0" 11'-0" 11'-0" 4'-0" 2'-6"

4% VARIES* VARIES* 4%

2:1 MAX

BIT. SHOULDER, 8" (AT PROP. PAVEMENT)
BIT. STABILIZATION (BIT. SHOULDER, 6")
AT PROP. G.R. STD 630201 (& AT EXIST. PAVEMENT)

1 1/2" BIT. CONC. SURFACE COURSE, CL 1, MIX D, T-1
2 1/2" BIT. CONC. BINDER COURSE, MIX B, T-2
AGGR. BASE COURSE, T-B, 12"

PROP. GUARDRAIL, SEE SCHEDULE

TOPSOIL, 4", EROSION CONTROL, SEEDING CLASS 2 & FERTILIZERS (INCIDENTAL TO CONTRACT)

* SEE PAVEMENT ELEV. TABULATION

WILLETT HOFMANN
 & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000218

DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**

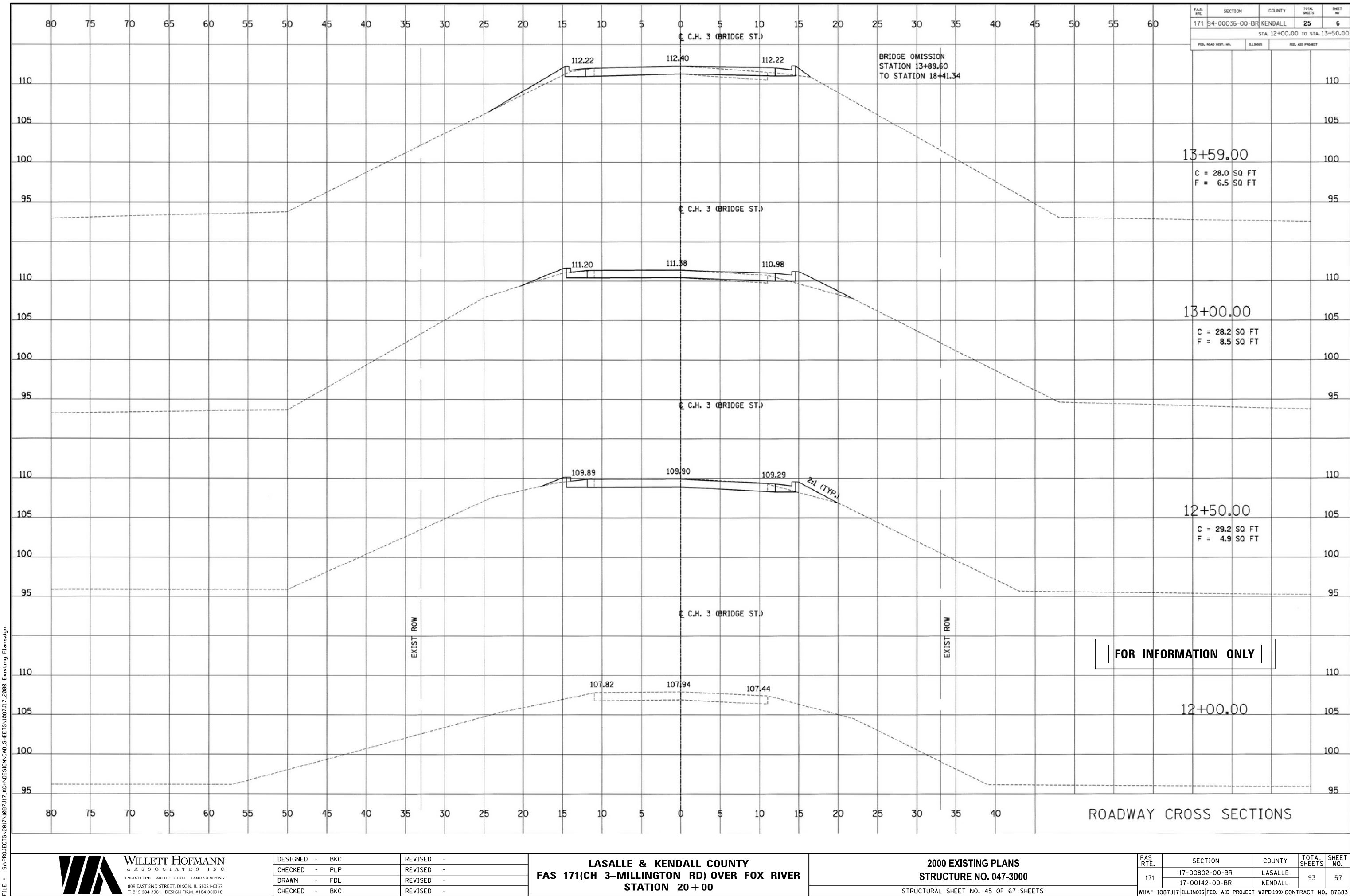
2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 44 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	56
	17-00142-00-BR	KENDALL		

WHA# 1087-117	ILLINOIS	FED. AID PROJECT WZPF(199)	CONTRACT NO. 87683
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	94-00036-00-BR	KENDALL	25	6
STA. 12+00.00 TO STA. 13+50.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



DESIGNED	-	BKC
CHECKED	-	PLP
DRAWN	-	FDL
CHECKED	-	BKC

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 45 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	57
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
171	94-00036-00-BR	KENDALL	25	7
STA. 18+50.00 TO STA. 19+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

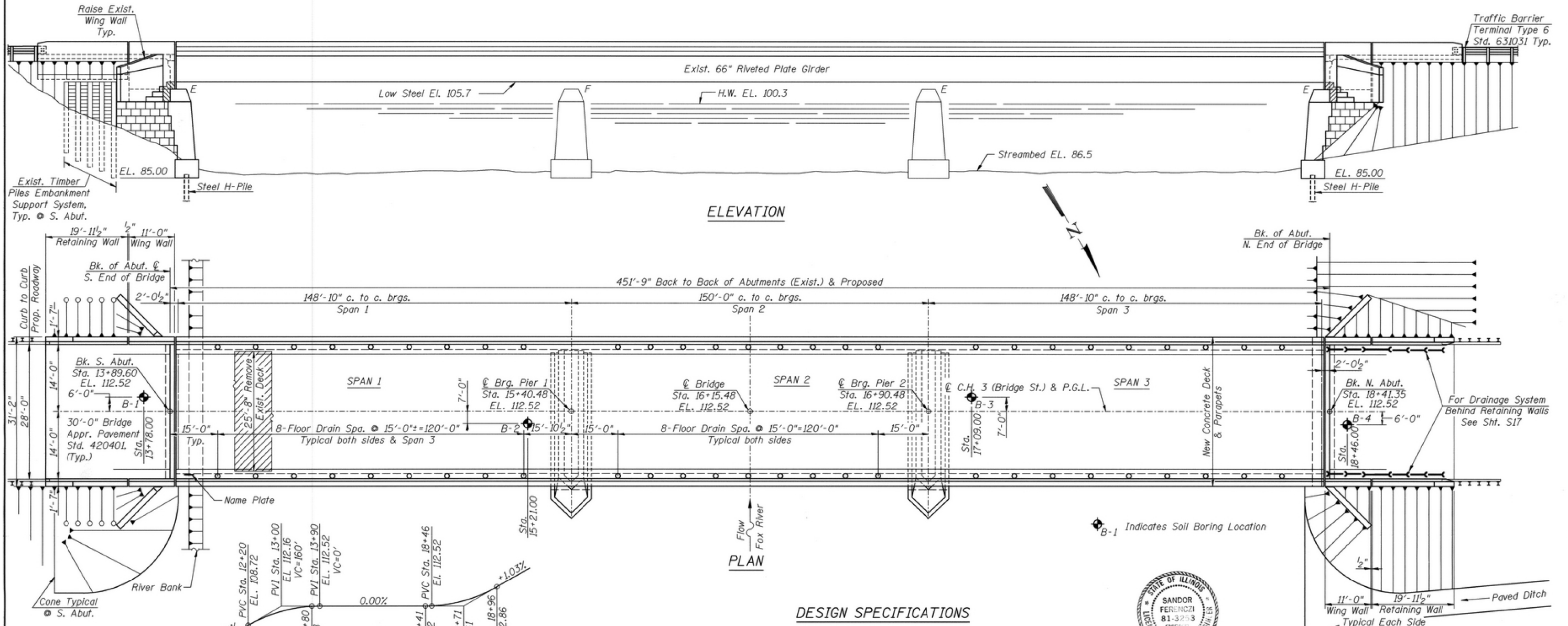
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
00802-00-BR	LASALLE	93	58
00142-00-BR	KENDALL		
IN015 FED. AID PROJECT WZPE(199)		CONTRACT NO. 87683	

Benchmark:
Nail in 36" Elm S.E. of Sta. 10+00
EL. 100.00

KENDALL COUNTY
HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. OF
94-00036-00-BR	171	LASALLE & KENDALL	25	8
F.A. PROJ. BHS-171	106			
STR. NO. 047-3000				

S18 SHEETS



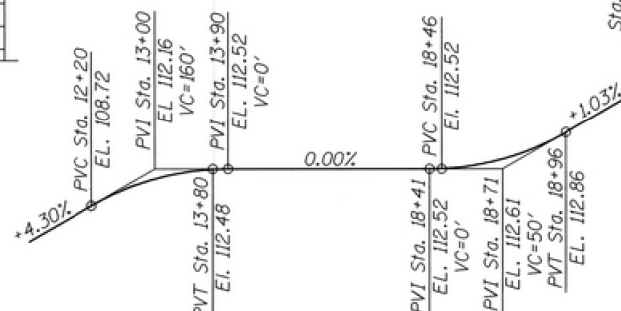
EXISTING STRUCTURE DESCRIPTION:

The existing bridge is a three-span reinforced concrete deck bridge supported by riveted plate girders. The total length back to back of abutments is 451'-9". The spans are: 148'-10", 150'-0" and 148'-10". The out to out width of the structure is 25'-8". The substructure consists of closed masonry abutments and solid masonry piers supported on spread footings. The structure was built as Millington Bridge, Section B at Sta. 16+15.48 in 1958. The deck will be replaced and widened and incorporate New Jersey Type Parapet walls. The existing girders will be strengthened and made composite in positive moment areas to provide HS20 capacity. Neoprene expansion joints will also be provided. Abutments and piers will be repaired and widened and new wing walls will be constructed. There will be no salvage.

DESIGNED	LM
CHECKED	SF
DRAWN	CED
CHECKED	LM

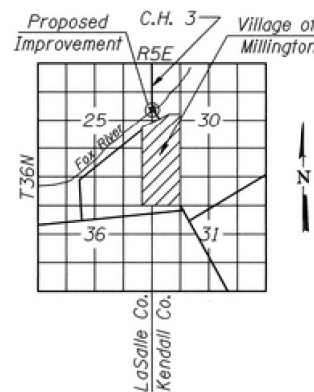
DATE: 12-31-99

PROFILE GRADE



WATERWAY INFORMATION

Drainage Area ----- 1,339,520 Acres
Character Level, Wooded, Cultivated & Swampy
Required Opening (15 yr. flood) 3,525 sq. ft.
Present Opening ----- 5,180 sq. ft.
Proposed Opening ----- 5,180 sq. ft.



LOCATION SKETCH

DESIGN SPECIFICATIONS

1992 AASHTO, 1993 & 1994 Interims

LOADING HS20

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

NEW DECK & REHAB. STRUCTURE

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 36,000$ psi
(M270 Grade 36 Structural Steel Elements)

EXISTING STRUCTURE

$f_c = 1,400$ psi (Super. & Sub. No Earth Pressure)
 $f_c = 1,000$ psi (Sub. with Earth Pressure)
 $n = 10$
 $f_s = 20,000$ psi Reinf.
 $f_y = 33,000$ psi Struct. (A.S.T.M. A33)

SEISMIC DATA

S.P.C. = "A"
 $A = 0.043$ g
 $S = 1.0$



Sandor Ferenczi
License Expires: 11-30-00
Date: 12-31-99

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

FOR INFORMATION ONLY

STATION 16+15.48
FOX RIVER
REBUILT 2000 BY
LASALLE & KENDALL COUNTIES
FAS RTE. 171 SEC. 94-00036-00-BR
F.A. PROJ. BHS-171 (106)
LOADING HS20
STR. NO. 047-3000

NAME PLATE

See Std. 515001

GENERAL PLAN & ELEVATION

MILLINGTON BRIDGE OVER

FOX RIVER

SECTION 94-00036-00-BR

LASALLE-KENDALL COUNTIES

STATION 16+15.48

S.N. 047-3000



DESIGNED	BKC	REVISED	-
CHECKED	PLP	REVISED	-
DRAWN	FDL	REVISED	-
CHECKED	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 47 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	59
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

KENDALL COUNTY
HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET OF
C.H. F.A.S. 171	94-00036-00-BR	LASALLE & KENDALL	25	9	518 SHEETS
FED. ROAD DIST. NO. 7	BLANDISS	FED. AID PROJECT			

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " ϕ , open holes $\frac{1}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 12,400 lbs.

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing structural steel within 5 feet of either side of expansion joints shall be cleaned by Method 1. The exterior and the bottom flange of the fascia beams shall be cleaned by Method 3. The aluminum epoxy mastic/acrylic paint system shall be used for painting of existing structural steel. The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8.

The Inorganic zinc rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all steel surfaces shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose, detrimental foreign material shall be removed from the embedded portions of flanges of beams or girders in contact with concrete. The removal shall be accomplished with appropriate power hand tools. Cost shall be included in "Cleaning and Painting Steel Bridge".

Bridge Seat Sealer shall be applied to the seat area of both abutments.

When the deck pour is stopped for the day at one or more of the Transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:

- At least 72 hours shall have elapsed from the end of the previous pour.
- The concrete strength shall have attained a minimum modulus of rupture of 650 psi or a minimum compressive strength of 3500 psi.

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

Quantities for "Formed Concrete Repair" and "Epoxy Crack Sealing" have been inflated to account for deterioration since initial bridge inspection. Areas of repair shall be designated by Engineer.

TOTAL BILL OF MATERIAL

	ITEM	MEASURE	SUPER	SUB	TOTAL
50102400	Concrete Removal	Cu. Yd.	-	23.2	23.2
50104100	Bridge Handrail Removal	Foot	904	-	904
50104800	Removal of Existing Concrete Deck	L. Sum	1	-	1
50200100	Structure Excavation	Cu. Yd.	-	268	268
50300100	Floor Drains	Each	54	-	54
50300150	Neoprene Expansion Joint 2"	Foot	30	-	30
50300160	Neoprene Expansion Joint 4"	Foot	30	-	30
50300225	Concrete Structures	Cu. Yd.	-	141.5	141.5
50300255	Concrete Superstructure	Cu. Yd.	492.2	-	492.2
50300260	Bridge Deck Grooving	Sq. Yd.	1,398	-	1,398
50300300	Protective Coat	Sq. Yd.	1,766	-	1,766
50301250	Formed Concrete Repair (Depth Greater Than 5")	Sq. Ft.	-	128	128
50500105	Furnishing and Erecting Structural Steel	L. Sum	1	-	1
50500505	Stud Shear Connecters	Each	3,664	-	3,664
50500715	Jack and Remove Existing Bearings	Each	16	-	16
50600300	Cleaning and Painting Steel Bridge	L. Sum	1	-	1
50606200	Blasting Residue Containment and Disposal	L. Sum	1	-	1
50606300	Power Tool Cleaning Residue Containment and Disposal	L. Sum	1	-	1
50800205	Reinforcement Bars, Epoxy Coated	Pound	119,860	12,920	132,780
51201400	Furnishing Steel Piles HP10x42	Foot	-	228	228
51202700	Driving Steel Piles	Foot	-	228	228
51500100	Name Plates	Each	1	-	1
58700200	Bridge Seat Sealer	Sq. Ft.	-	159	159
59000100	Epoxy Crack Sealing	Foot	-	38	38
60107700	Pipe Underdrains 6"	Foot	-	122	122
X0322001	Stone Masonry Tuck Pointing	Foot	-	107	107
	Floating Bearings, Fixed	Each	4	-	4
	Floating Bearings, Guided Expansion	Each	12	-	12

*Quantity is for top of deck and top and vertical faces of parapets

DESIGNED	LM
CHECKED	SF
DRAWN	CED
CHECKED	LM

DATE: 12-31-99



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

DESIGNED	-	BKC	REVISED	-
CHECKED	-	PLP	REVISED	-
DRAWN	-	FDL	REVISED	-
CHECKED	-	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 48 OF 67 SHEETS

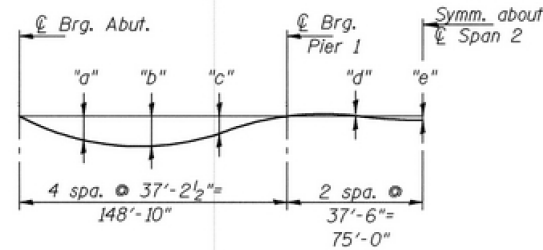
GENERAL NOTES &
TOTAL BILL OF MATERIAL
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR 17-00142-00-BR	LASALLE KENDALL	93	60

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

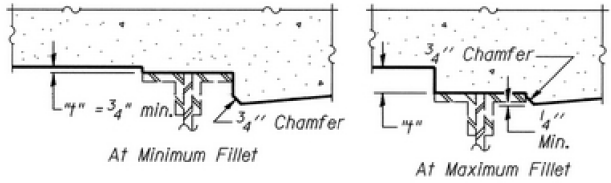
FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\CAD_SHEETS\1087J17_2000 Existing Plans.dgn



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

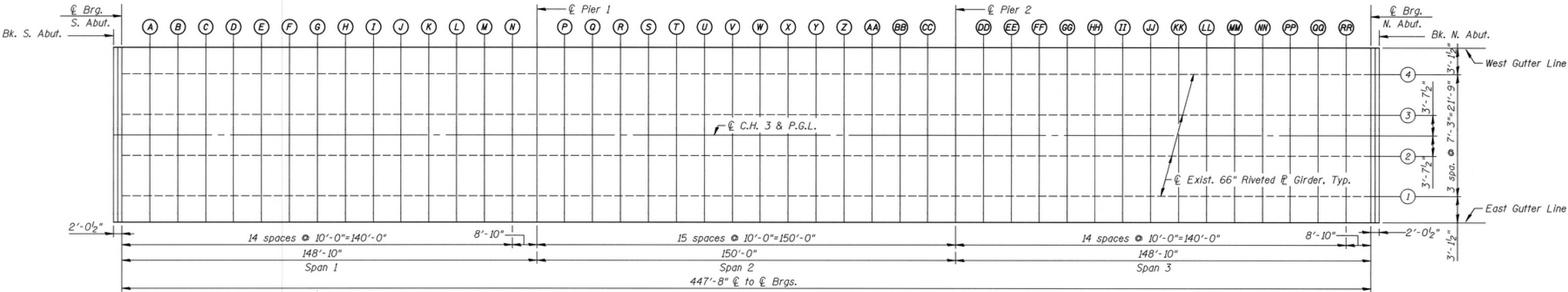
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet S4.

DEFLECTION TABLE					
Location	"a"	"b"	"c"	"d"	"e"
1 and 4	2 1/16"	2 9/16"	1 1/16"	0"	3 8/16"
2 and 3	1 3/4"	2 3/16"	1 1/4"	0"	5 1/16"



To determine "t": Elevations of the top flanges of the existing girders shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet S4 minus slab thickness, equals the fillet heights "t" above top flange of the girders.

FILLET HEIGHTS



PLAN

DESIGNED	BLU
CHECKED	SF
DRAWN	CSL
CHECKED	LM

DATE: 12-31-99



DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

FOR INFORMATION ONLY

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 49 OF 67 SHEETS

DECK ELEVATION LAYOUT
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	61
17-00142-00-BR		KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

KENDALL COUNTY
HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET OF
C.H. 3 F.A.S. 171	94-00036-00-BR	LASALLE & KENDALL	25	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	SHEET NO. S4 OF 518 SHEETS	

WEST GUTTER LINE
(East Gutter Line similar except Offset = 14.000)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	1389.60	-14.000	112.291	112.291
€ BRG. S. ABUT.	1391.64	-14.000	112.291	112.291
A	1401.64	-14.000	112.291	112.331
B	1411.64	-14.000	112.291	112.397
C	1421.64	-14.000	112.291	112.439
D	1431.64	-14.000	112.291	112.471
E	1441.64	-14.000	112.291	112.494
F	1451.64	-14.000	112.291	112.506
G	1461.64	-14.000	112.291	112.507
H	1471.64	-14.000	112.291	112.498
I	1481.64	-14.000	112.291	112.480
J	1491.64	-14.000	112.291	112.453
K	1501.64	-14.000	112.291	112.418
L	1511.64	-14.000	112.291	112.379
M	1521.64	-14.000	112.291	112.342
N	1531.64	-14.000	112.291	112.311
€ PIER 1	1540.48	-14.000	112.291	112.291
P	1550.48	-14.000	112.291	112.279
Q	1560.48	-14.000	112.291	112.277
R	1570.48	-14.000	112.291	112.283
S	1580.48	-14.000	112.291	112.295
T	1590.48	-14.000	112.291	112.307
U	1600.48	-14.000	112.291	112.316
V	1610.48	-14.000	112.291	112.323
W	1620.48	-14.000	112.291	112.323
X	1630.48	-14.000	112.291	112.316
Y	1640.48	-14.000	112.291	112.307
Z	1650.48	-14.000	112.291	112.295
AA	1660.48	-14.000	112.291	112.283
BB	1670.48	-14.000	112.291	112.277
CC	1680.48	-14.000	112.291	112.279
€ PIER 2	1690.48	-14.000	112.291	112.291
DD	1700.48	-14.000	112.291	112.314
EE	1710.48	-14.000	112.291	112.346
FF	1720.48	-14.000	112.291	112.383
GG	1730.48	-14.000	112.291	112.423
HH	1740.48	-14.000	112.291	112.456
II	1750.48	-14.000	112.291	112.482
JJ	1760.48	-14.000	112.291	112.500
KK	1770.48	-14.000	112.291	112.508
LL	1780.48	-14.000	112.291	112.506
MM	1790.48	-14.000	112.291	112.492
NN	1800.48	-14.000	112.291	112.468
PP	1810.48	-14.000	112.291	112.435
QQ	1820.48	-14.000	112.291	112.391
RR	1830.48	-14.000	112.291	112.341
€ BRG. N. ABUT.	1839.31	-14.000	112.291	112.291
BK. N. ABUT.	1841.35	-14.000	112.291	112.291

€ GIRDER 4
(€ Girder 1 similar except Offset = 10.875)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	1389.60	-10.875	112.350	112.350
€ BRG. S. ABUT.	1391.64	-10.875	112.350	112.350
A	1401.64	-10.875	112.350	112.390
B	1411.64	-10.875	112.350	112.456
C	1421.64	-10.875	112.350	112.498
D	1431.64	-10.875	112.350	112.530
E	1441.64	-10.875	112.350	112.553
F	1451.64	-10.875	112.350	112.565
G	1461.64	-10.875	112.350	112.566
H	1471.64	-10.875	112.350	112.557
I	1481.64	-10.875	112.350	112.539
J	1491.64	-10.875	112.350	112.512
K	1501.64	-10.875	112.350	112.477
L	1511.64	-10.875	112.350	112.438
M	1521.64	-10.875	112.350	112.401
N	1531.64	-10.875	112.350	112.370
€ PIER 1	1540.48	-10.875	112.350	112.350
P	1550.48	-10.875	112.350	112.338
Q	1560.48	-10.875	112.350	112.336
R	1570.48	-10.875	112.350	112.342
S	1580.48	-10.875	112.350	112.354
T	1590.48	-10.875	112.350	112.366
U	1600.48	-10.875	112.350	112.375
V	1610.48	-10.875	112.350	112.382
W	1620.48	-10.875	112.350	112.382
X	1630.48	-10.875	112.350	112.375
Y	1640.48	-10.875	112.350	112.366
Z	1650.48	-10.875	112.350	112.354
AA	1660.48	-10.875	112.350	112.342
BB	1670.48	-10.875	112.350	112.336
CC	1680.48	-10.875	112.350	112.338
€ PIER 2	1690.48	-10.875	112.350	112.350
DD	1700.48	-10.875	112.350	112.373
EE	1710.48	-10.875	112.350	112.405
FF	1720.48	-10.875	112.350	112.462
GG	1730.48	-10.875	112.350	112.482
HH	1740.48	-10.875	112.350	112.515
II	1750.48	-10.875	112.350	112.541
JJ	1760.48	-10.875	112.350	112.559
KK	1770.48	-10.875	112.350	112.567
LL	1780.48	-10.875	112.350	112.565
MM	1790.48	-10.875	112.350	112.551
NN	1800.48	-10.875	112.350	112.527
PP	1810.48	-10.875	112.350	112.494
QQ	1820.48	-10.875	112.350	112.450
RR	1830.48	-10.875	112.350	112.400
€ BRG. N. ABUT.	1839.31	-10.875	112.350	112.350
BK. N. ABUT.	1841.35	-10.875	112.350	112.350

€ GIRDER 3
(€ Girder 2 similar except Offset = 3.625)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	1389.60	-3.625	112.463	112.463
€ BRG. S. ABUT.	1391.64	-3.625	112.463	112.463
A	1401.64	-3.625	112.463	112.510
B	1411.64	-3.625	112.463	112.552
C	1421.64	-3.625	112.463	112.587
D	1431.64	-3.625	112.463	112.615
E	1441.64	-3.625	112.463	112.634
F	1451.64	-3.625	112.463	112.645
G	1461.64	-3.625	112.463	112.645
H	1471.64	-3.625	112.463	112.638
I	1481.64	-3.625	112.463	112.623
J	1491.64	-3.625	112.463	112.599
K	1501.64	-3.625	112.463	112.570
L	1511.64	-3.625	112.463	112.537
M	1521.64	-3.625	112.463	112.506
N	1531.64	-3.625	112.463	112.480
€ PIER 1	1540.48	-3.625	112.463	112.463
P	1550.48	-3.625	112.463	112.453
Q	1560.48	-3.625	112.463	112.451
R	1570.48	-3.625	112.463	112.455
S	1580.48	-3.625	112.463	112.466
T	1590.48	-3.625	112.463	112.477
U	1600.48	-3.625	112.463	112.486
V	1610.48	-3.625	112.463	112.490
W	1620.48	-3.625	112.463	112.490
X	1630.48	-3.625	112.463	112.486
Y	1640.48	-3.625	112.463	112.477
Z	1650.48	-3.625	112.463	112.466
AA	1660.48	-3.625	112.463	112.455
BB	1670.48	-3.625	112.463	112.451
CC	1680.48	-3.625	112.463	112.453
€ PIER 2	1690.48	-3.625	112.463	112.463
DD	1700.48	-3.625	112.463	112.483
EE	1710.48	-3.625	112.463	112.510
FF	1720.48	-3.625	112.463	112.541
GG	1730.48	-3.625	112.463	112.574
HH	1740.48	-3.625	112.463	112.602
II	1750.48	-3.625	112.463	112.624
JJ	1760.48	-3.625	112.463	112.639
KK	1770.48	-3.625	112.463	112.646
LL	1780.48	-3.625	112.463	112.644
MM	1790.48	-3.625	112.463	112.632
NN	1800.48	-3.625	112.463	112.613
PP	1810.48	-3.625	112.463	112.584
QQ	1820.48	-3.625	112.463	112.548
RR	1830.48	-3.625	112.463	112.505
€ BRG. N. ABUT.	1839.31	-3.625	112.463	112.463
BK. N. ABUT.	1841.35	-3.625	112.463	112.463

€ C.H. 3 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	1389.60	0.000	112.520	112.520
€ BRG. S. ABUT.	1391.64	0.000	112.520	112.520
A	1401.64	0.000	112.520	112.567
B	1411.64	0.000	112.520	112.609
C	1421.64	0.000	112.520	112.644
D	1431.64	0.000	112.520	112.672
E	1441.64	0.000	112.520	112.691
F	1451.64	0.000	112.520	112.702
G	1461.64	0.000	112.520	112.702
H	1471.64	0.000	112.520	112.695
I	1481.64	0.000	112.520	112.680
J	1491.64	0.000	112.520	112.656
K	1501.64	0.000	112.520	112.627
L	1511.64	0.000	112.520	112.594
M	1521.64	0.000	112.520	112.563
N	1531.64	0.000	112.520	112.537
€ PIER 1	1540.48	0.000	112.520	112.520
P	1550.48	0.000	112.520	112.510
Q	1560.48	0.000	112.520	112.508
R	1570.48	0.000	112.520	112.512
S	1580.48	0.000	112.520	112.523
T	1590.48	0.000	112.520	112.534
U	1600.48	0.000	112.520	112.543
V	1610.48	0.000	112.520	112.547
W	1620.48	0.000	112.520	112.547
X	1630.48	0.000	112.520	112.543
Y	1640.48	0.000	112.520	112.534
Z	1650.48	0.000	112.520	112.523
AA	1660.48	0.000	112.520	112.512
BB	1670.48	0.000	112.520	112.508
CC	1680.48	0.000	112.520	112.510
€ PIER 2	1690.48	0.000	112.520	112.520
DD	1700.48	0.000	112.520	112.540
EE	1710.48	0.000	112.520	112.567
FF	1720.48	0.000	112.520	112.598
GG	1730.48	0.000	112.520	112.631
HH	1740.48	0.000	112.520	112.659
II	1750.48	0.000	112.520	112.681
JJ	1760.48	0.000	112.520	112.696
KK	1770.48	0.000	112.520	112.703
LL	1780.48	0.000	112.520	112.701
MM	1790.48	0.000	112.520	112.689
NN	1800.48	0.000	112.520	112.670
PP	1810.48	0.000	112.520	112.641
QQ	1820.48	0.000	112.520	112.605
RR	1830.48	0.000	112.520	112.562
€ BRG. N. ABUT.	1839.31	0.000	112.520	112.520
BK. N. ABUT.	1841.35	0.000	112.520	112.520

FOR INFORMATION ONLY

DECK ELEVATIONS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

DESIGNED	BLU
CHECKED	SF
DRAWN	BLU
CHECKED	LM

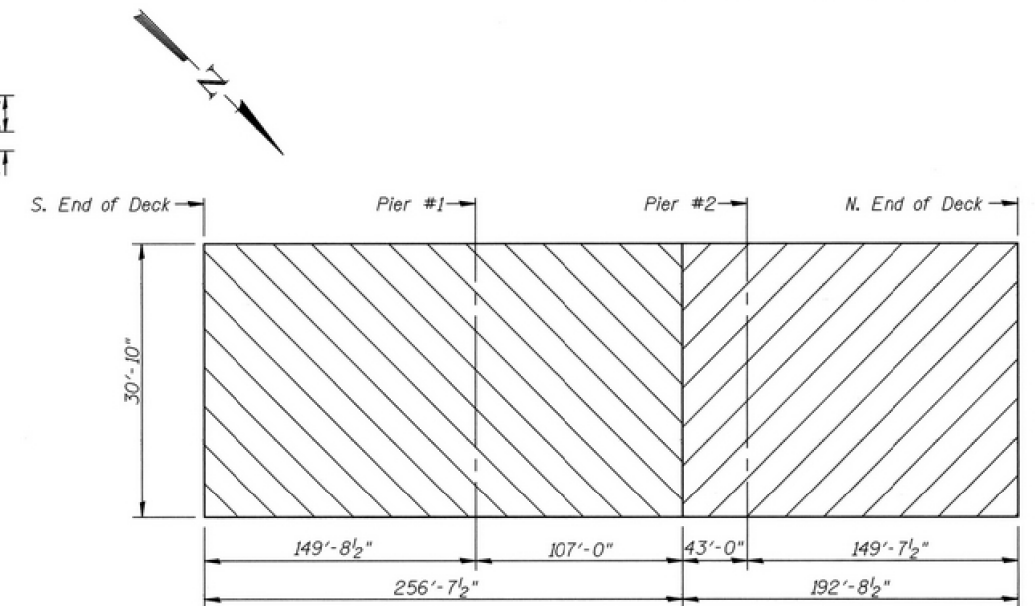
DATE: 12-31-99



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

DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

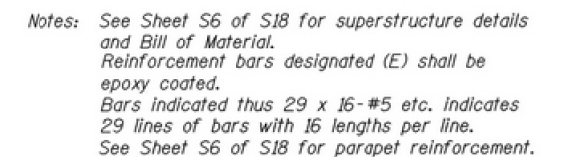
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00



POUR II=156 CU. YD.

Pouring sequence may be waived provided that the contractor sets 2 crews and starts pours from the center of the bridge.

HALF PLAN



DECK PLAN & SECTION
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

DATE: 12-31-99



DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

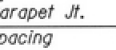
STRUCTURAL SHEET NO. 51 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	63
	17-00142-00-BR	KENDALL		
WHA# 1087117 ILLINOIS FED. AID PROJECT W7PF(199) CONTRACT NO. 87683				

	17-00142-00-BR	KENDALL	
WHA# 1087J17	ILLINOIS FED. AID PROJECT WZPE(199)	CONTRACT NO. 87683	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C. H. P. A. S. 171	94- 00036- 00-BR	LASALLE & KENDALL	25	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 56 OF
S18 SHEETS



FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-0082-00-BR	LASALLE	93	64
	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

FOR INFORMATION ONLY

SUPERSTRUCTURE DETAILS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

Reinforcement bars designated (E) shall be epoxy coated.

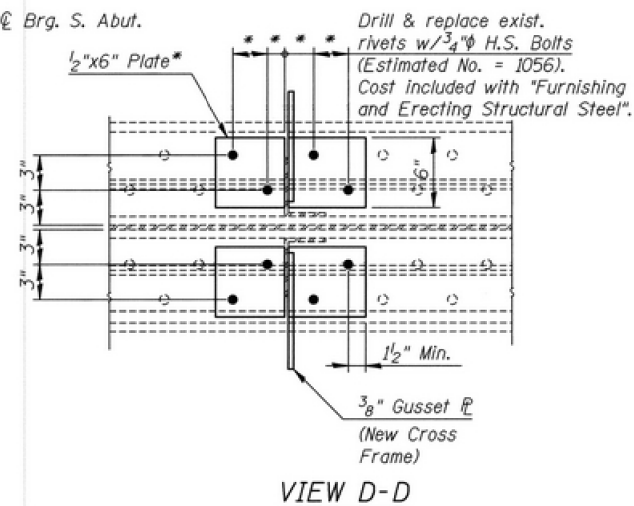
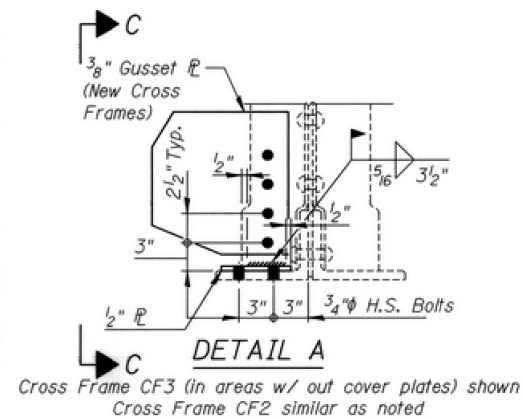
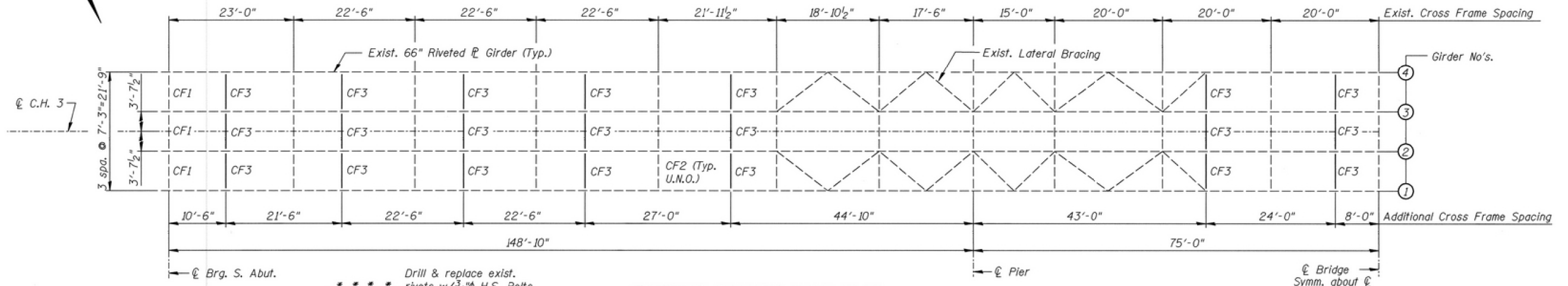
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

KENDALL COUNTY
HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94-00036-00-BR	171	LASALLE & KENDALL	25	14
F.A.S. 171	00036-00-BR	LASALLE & KENDALL	25	14
FED. ROAD DIST. NO. 7	BUILDING	FED. AID PROJECT		

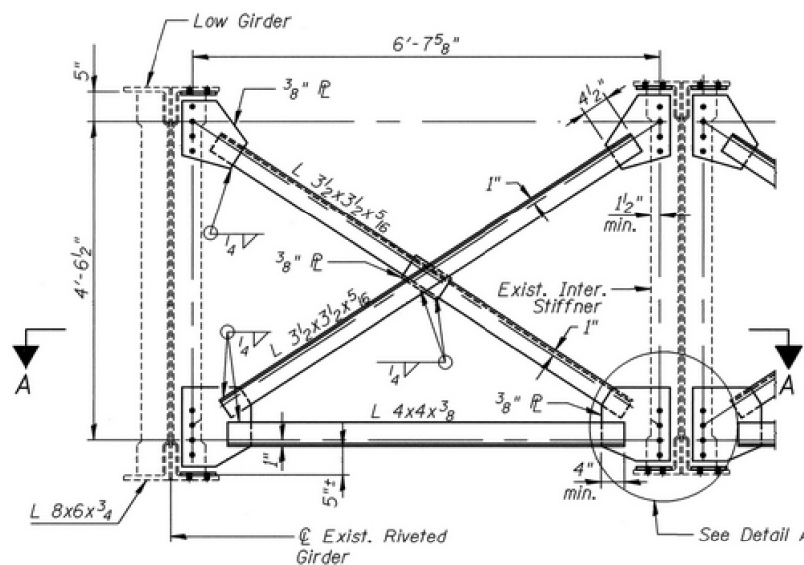
SHEET NO. S7 OF

S18 SHEETS



GENERAL NOTES FOR NEW & EXISTING CROSS FRAMES:

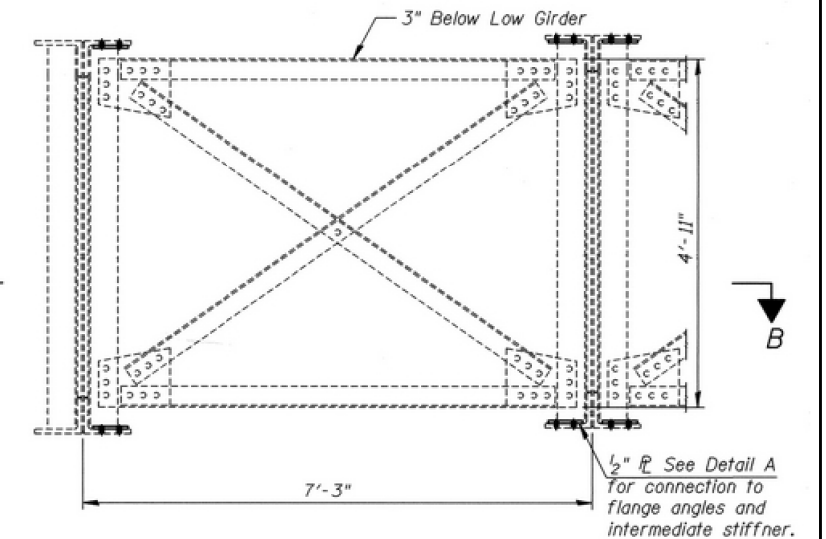
1. Cross Frame CF3 shall be shop fabricated insuring adequate clearance between existing flange angles and new gusset plates is provided as shown.
2. Holes for gusset plates of Cross Frame CF3 shall be field drilled in existing intermediate stiffeners to insure proper fit.
3. Provide 1/2"x6"x7" lg. plates on each side of intermediate stiffeners top & bottom for Cross Frames CF2 & CF3 in areas without cover plates. Field bolt plates to flange angles and then field weld to stiffener. Plates for Cross Frame CF3 shall be installed before cross frame is erected.
4. Provide 1/2"x6" plates on each side of intermediate stiffeners for Cross Frames CF2 & CF3 in regions with cover plates. The length of each plate shall be determined by Contractor after field measurements of the existing rivet spacing (*) are made. Plates must be field bolted to flange angles and field welded to stiffeners before erection of new cross frames.
5. A 1/2"x6"x9" plate was assumed for plates with unknown length in order to calculate weight of structural steel.
6. Cost for field drilling and bolting is included in the cost of "Furnishing and Erecting Structural Steel".
7. Areas of existing structural steel which shall be in contact with new steel shall be cleaned by Method 2 prior to erection of new steel. Cleaning of the existing structural steel shall be as specified by the Special Provision for "Cleaning and Painting Existing Steel Structures".



SECTION A-A

Notes:

All structural steel on sheet S7 shall be M270 Grade 36 unless noted otherwise.
All 3/4" bolts for the gusset plates of cross frame CF3 shall have 15/16" holes all other 3/4" bolts shall have 13/16" holes.
Two hardened washers shall be required over all oversized holes.



SECTION B-B

FRAMING PLAN
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

DESIGNED	BLU
CHECKED	SF
DRAWN	CSL
CHECKED	LM

DATE: 12-31-99



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

DESIGNED	BKC	REVISED	-
CHECKED	PLP	REVISED	-
DRAWN	FDL	REVISED	-
CHECKED	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 53 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	65
	17-00142-00-BR	KENDALL		

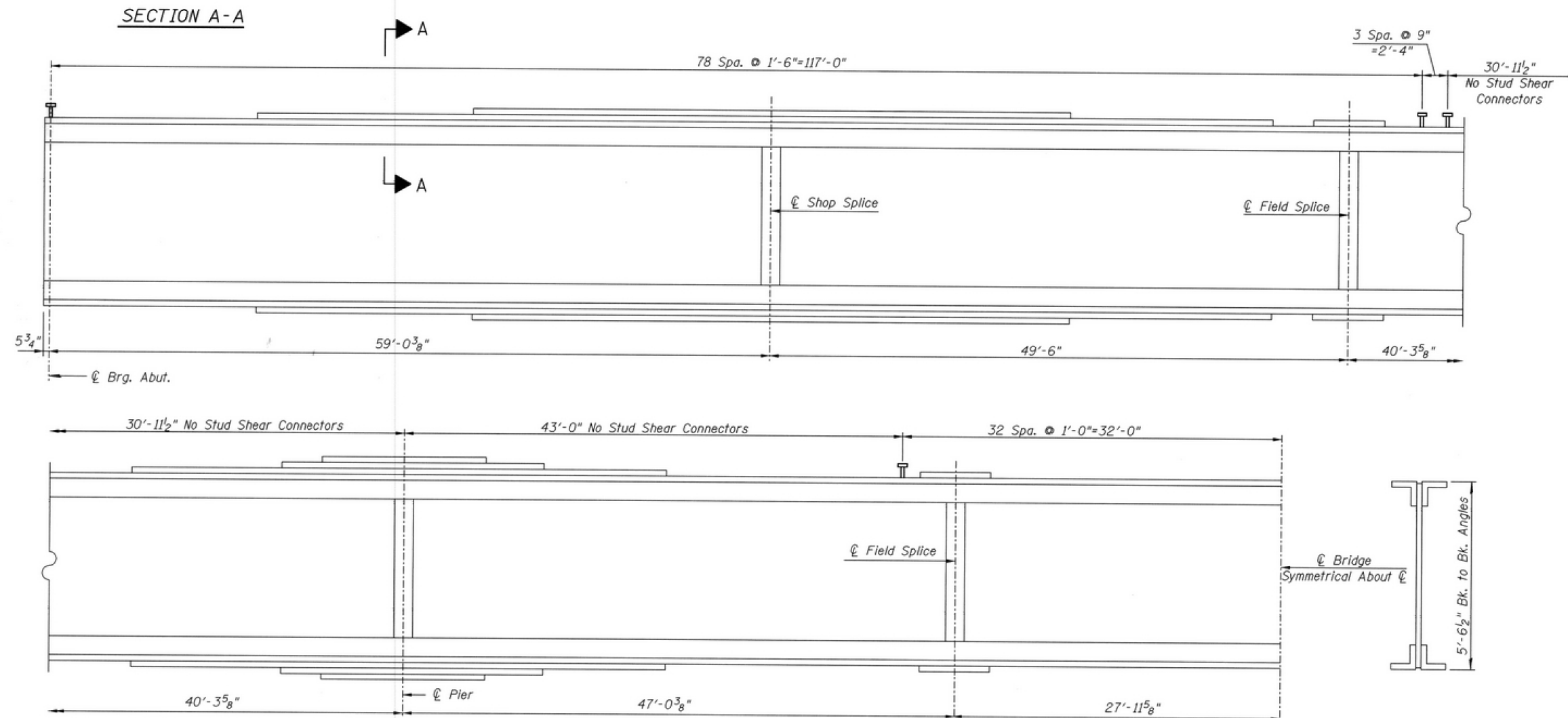
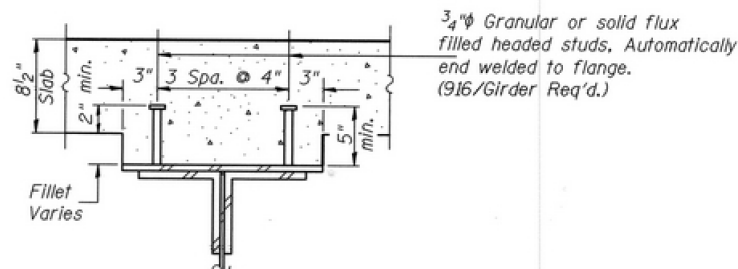
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

FILE : S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD_SHEETS\1087J17_2000 Existing Plans.dgn

*THEORETICAL TOP OF FLANGE ANGLES ELEVATION
AFTER REMOVAL OF EXIST. CONC. DECK

Girder No.	S. & N. Abut. & Pier 1 & 2	Shop Splice in End Spans	Field Splice in End Spans	Both Field Splices in Center Span
1 & 4	111.414	111.591	111.517	111.440
2 & 3	111.497	111.674	111.6	111.637

*Top of Flange Angles Elevations are adopted from Existing Plans. Elevations at all Splices have been adjusted for Structural Steel Deflection.



EXISTING GIRDER HALF ELEVATION

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R _l	(k) 93.8	247.4
R _t	(k) 48.8	90.7
Imp.	(k) 8.9	16.5
R (Total)	(k) 151.5	354.6

EXTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R _l	(k) 102.8	277.8
R _t	(k) 57.9	108.9
Imp.	(k) 10.6	19.8
R (Total)	(k) 171.3	406.5

EXTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1 or 3	Pier 1 or 2	0.5 Sp. 2
Is	(in ⁴) 90,086	111,511	49,076
Ic (n)	(in ⁴) 171,047	-	109,413
Ic (sn)	(in ⁴) 130,480	-	82,809
Ss	(in ³) 2,630	3,209	1,476
Sc (n)	(in ³) 3,154	-	1,920
Sc (sn)	(in ³) 2,949	-	1,778
Z	(in ³) -	-	-
Q	(k/ft.) 1.34	1.69	1.27
M _l	(k) 2,303	3,799	605
s _l	(k/ft.) 0.38	-	0.38
Ms _l	(k) 687	-	262
M _t	(k) 1,538	1,423	1,180
M (Imp)	(k) 281	253	219
S ₃ [M _t +M(Imp)]	(k) 3,032	2,793	2,332
Ma	(k) 7,829	8,570	4,158
Mu	(k) -	-	-
fs _l non-comp (k.s.i.)	10.5	14.2	4.9
fs _l (comp) (k.s.i.)	2.8	-	1.8
fs ₃ (k.s.i.)	11.5	10.4	14.6
fs (Overload) (k.s.i.)	24.8	24.6	21.3
fs (Total) (k.s.i.)	32.2	32.0	27.7
VR	(k) 64	-	67

INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1 or 3	Pier 1 or 2	0.5 Sp. 2
Is	(in ⁴) 90,086	111,511	49,076
Ic (n)	(in ⁴) 167,686	-	107,423
Ic (sn)	(in ⁴) 128,005	-	80,978
Ss	(in ³) 2,630	3,209	1,476
Sc (n)	(in ³) 3,139	-	1,911
Sc (sn)	(in ³) 2,934	-	1,766
Z	(in ³) -	-	-
Q	(k/ft.) 1.17	1.50	1.08
M _l	(k) 2,065	3,411	511
s _l	(k/ft.) 0.38	-	0.38
Ms _l	(k) 687	-	262
M _t	(k) 1,367	1,265	1,049
M (Imp)	(k) 249	230	191
S ₃ [M _t +M(Imp)]	(k) 2,693	2,492	2,067
Ma	(k) 7,079	7,674	3,692
Mu	(k) -	-	-
fs _l non-comp (k.s.i.)	9.4	12.8	4.2
fs _l (comp) (k.s.i.)	2.8	-	1.8
fs ₃ (k.s.i.)	10.3	9.3	13.0
fs (Overload) (k.s.i.)	22.5	22.1	19.0
fs (Total) (k.s.i.)	29.3	28.7	24.7
VR	(k) 63	-	65

DESIGNED	BLU
CHECKED	SF
DRAWN	CED
CHECKED	LM

DATE: 12-31-99



WILLET HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-00018

DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

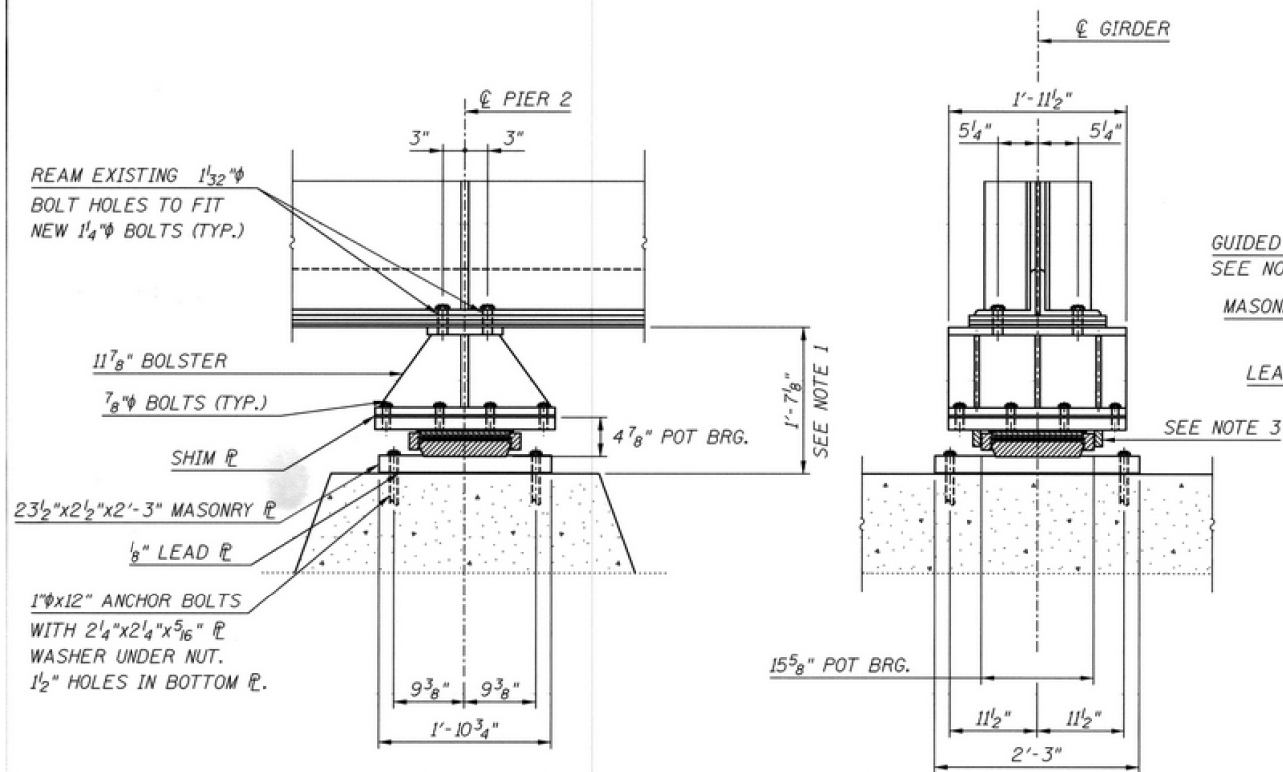
STRUCTURAL SHEET NO. 54 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	66
	17-00142-00-BR	KENDALL		

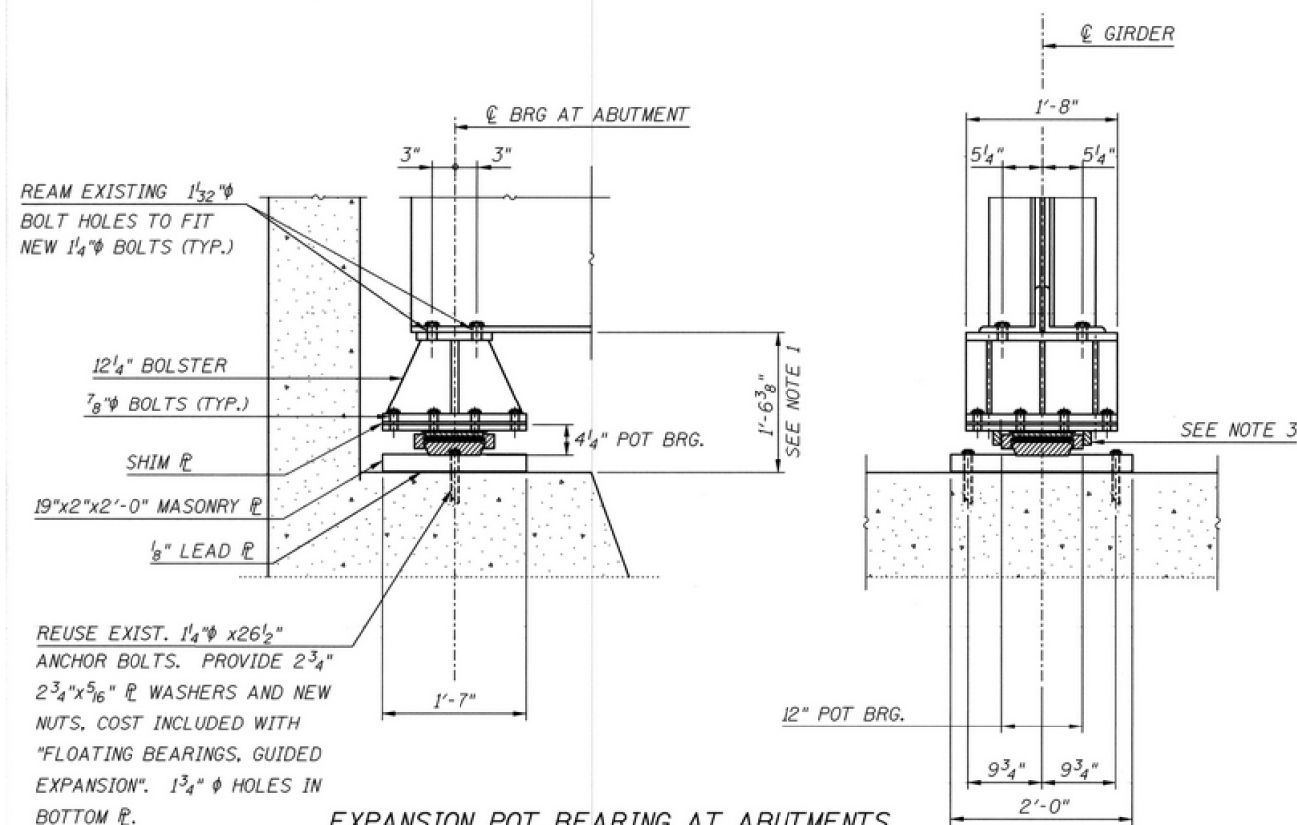
GIRDER DETAILS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

FILE : S:\PROJECTS\2017\1087J17 KCH\DESIGN\CAD SHEETS\1087J17_2000 Existing Plans.dgn



EXPANSION POT BEARING AT PIER 2



EXPANSION POT BEARING AT ABUTMENTS

DESIGNED	JMC
CHECKED	SF
DRAWN	JMC
CHECKED	BLU

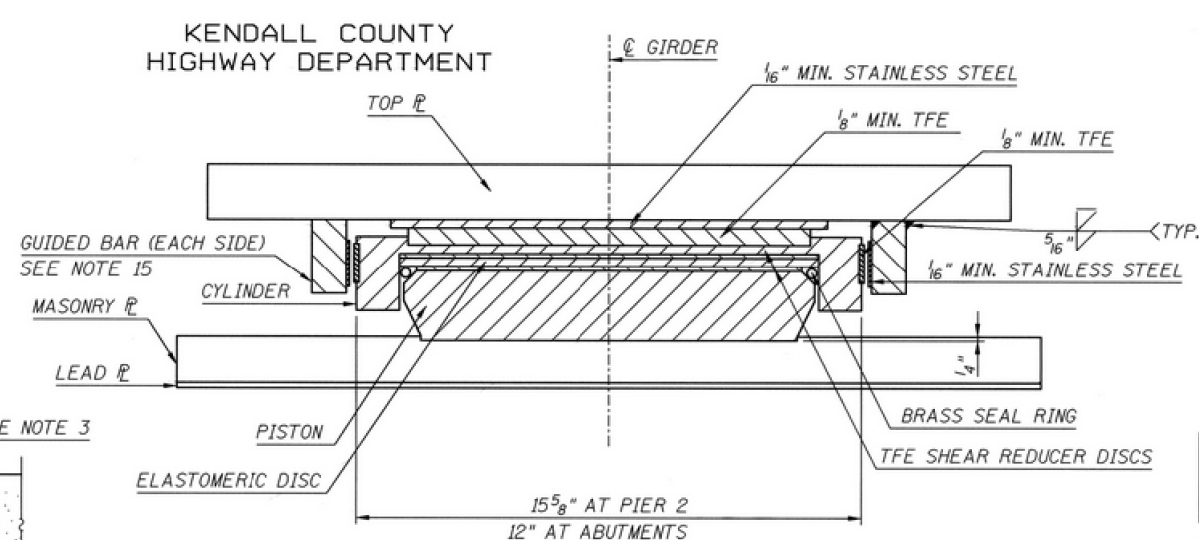
DATE: 12-31-99



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

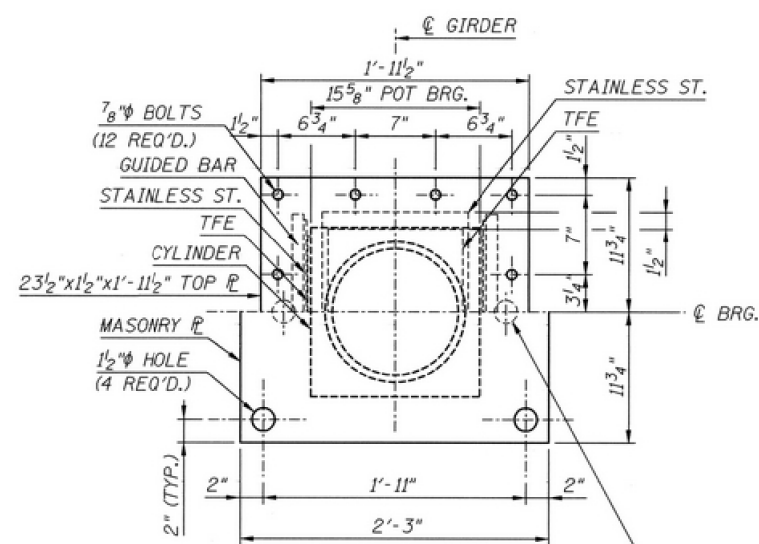
DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**



DETAIL OF EXPANSION BEARING ASSEMBLY

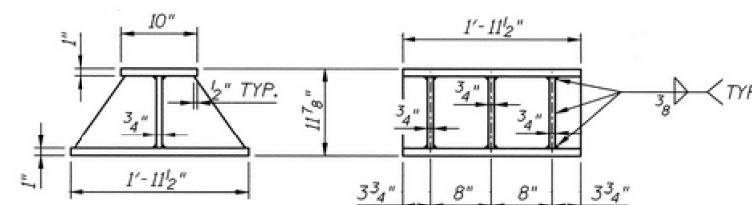
SEE NOTE 2



EXISTING BOLTS TO BE CUT AND
GROUND FLUSH WITH TOP OF PIER CAP

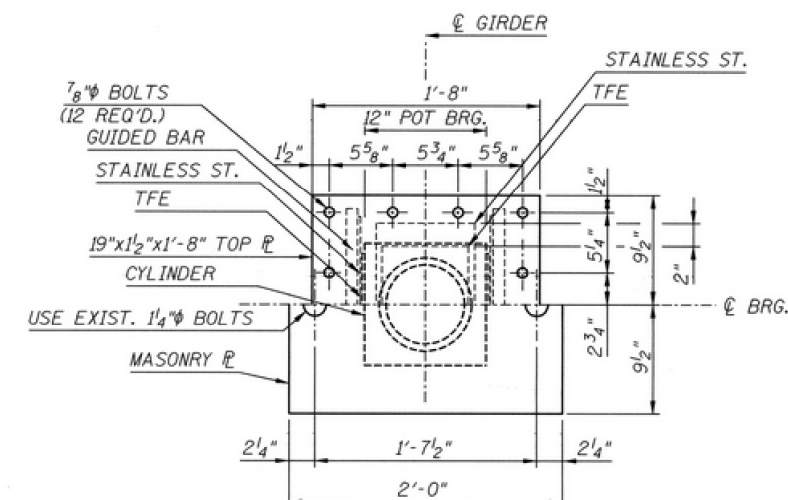
PLAN AT PIER 2

HALF OF TOP $\mathbb{P}$ SHOWN



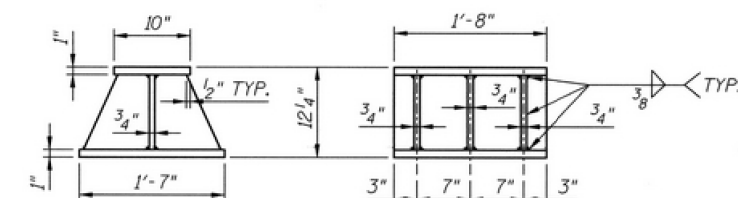
DETAIL OF BOLSTER AT PIER 2

(NO. REQ'D 4)



PLAN AT ABUTMENTS

HALF OF TOP $\mathcal{R}$ SHOWN



DETAIL OF BOLSTER AT ABUTMENTS

(NO. REQ'D 8)

8) BEARING DETAILS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

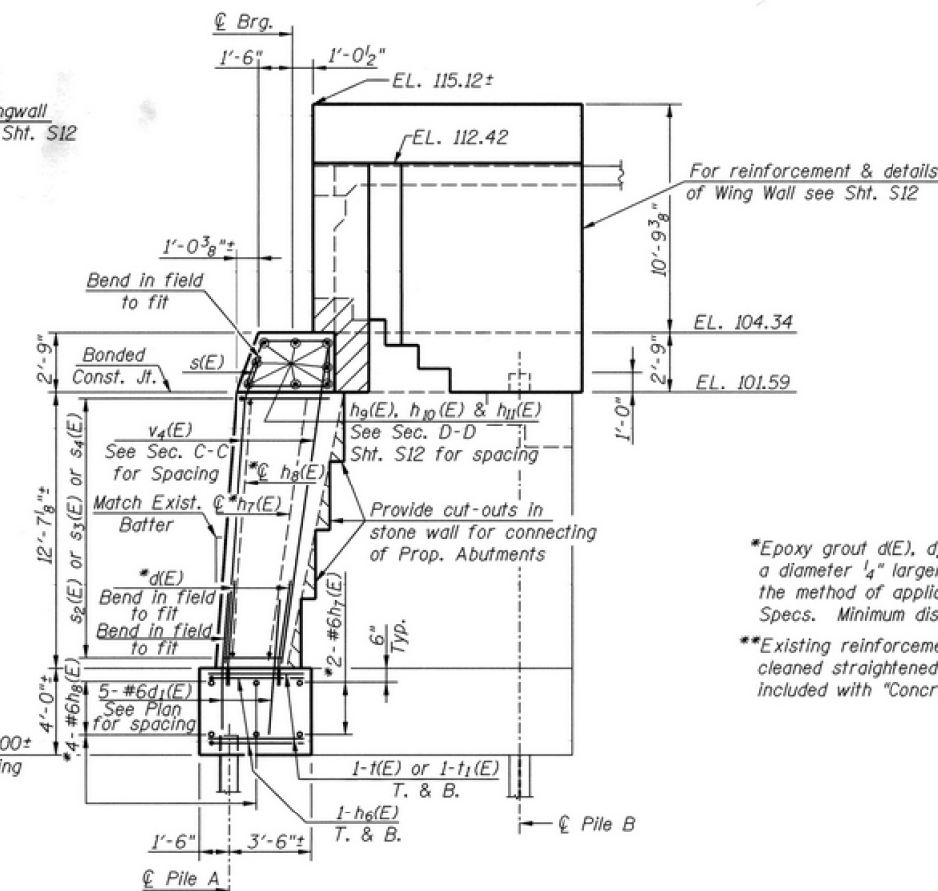
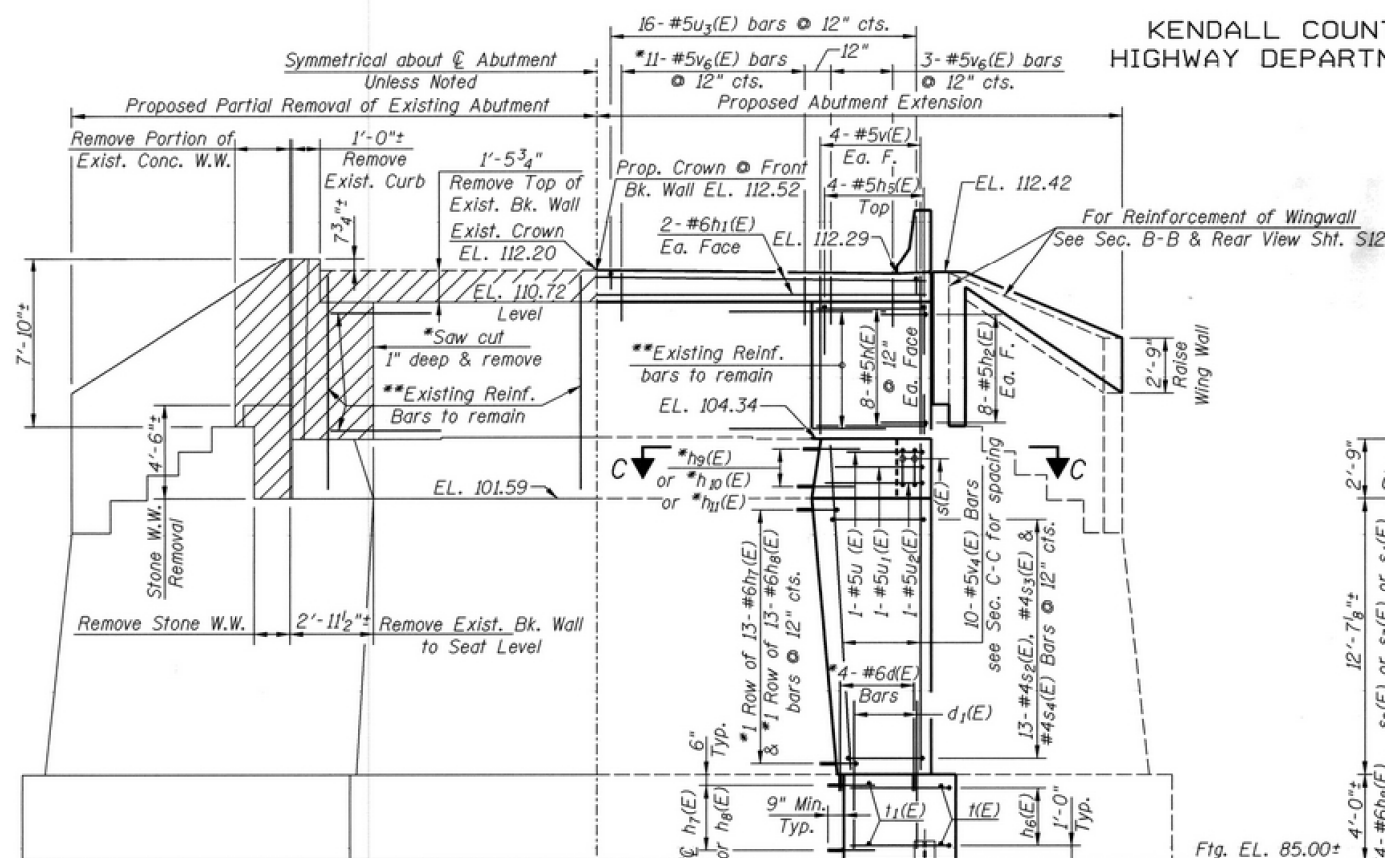
FOR NOTES SEE SHEET S10.
SEE SHEET S16 FOR ANCHOR
BOLT DETAILS

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 55 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	67
	17-00142-00-BR	KENDALL		
WHA# 1087.017 ILLINOIS FED. AID PROJECT W7PF(199) CONTRACT NO. 8768				

KENDALL COUNTY HIGHWAY DEPARTMENT

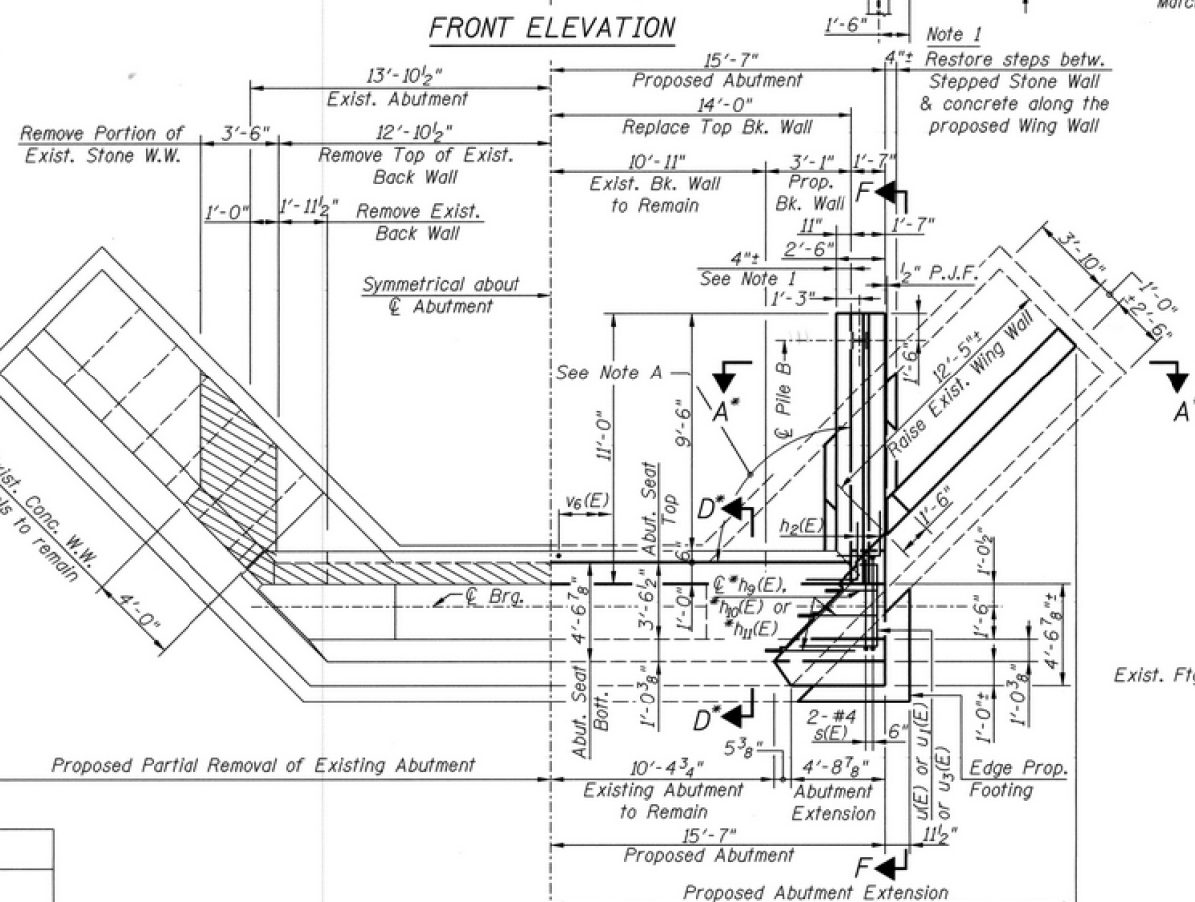


PILE DATA

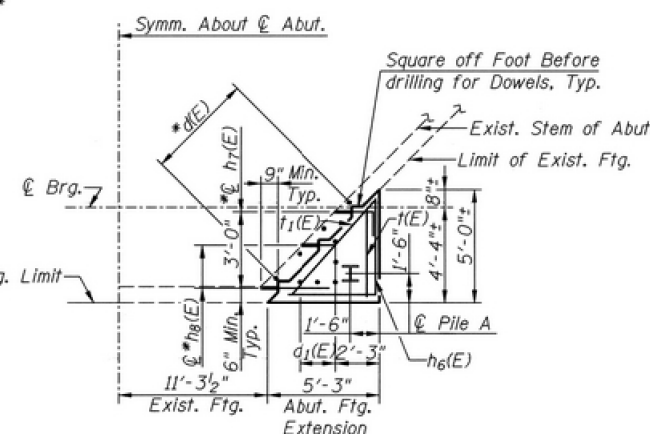
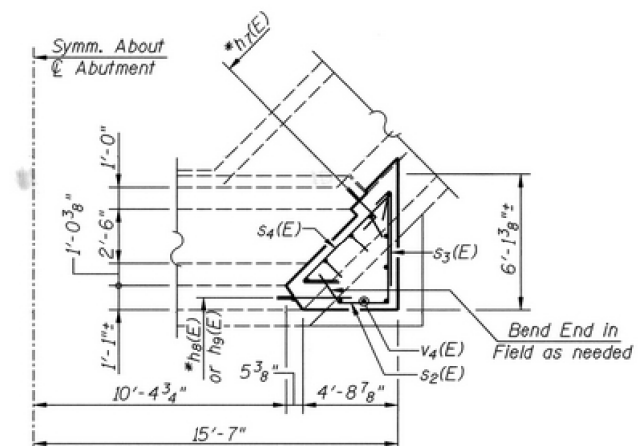
Type: Steel HP10x42
Capacity: Driven to Refusal
Est'd. Length:
Pile A = 20'
Pile B = 37'
No. Req'd:
Pile A = 4
Pile B = 4

*Epoxy grout $d_1(E)$, $d_2(E)$, $h_7(E)$ through $h_{11}(E)$ & $v_6(E)$ bars in holes having a diameter $\frac{1}{4}$ " larger than the bar and a depth of 9". The grout and the method of application shall be according to Sec. 584 of Standard Specs. Minimum distance to edge of existing concrete shall be 3".

**Existing reinforcement bars extending into removed areas shall be cleaned straightened and incorporated into new construction. Cost included with "Concrete Removal".



Note A:
Wing Walls and Retaining Walls shall be constructed parallel to the C.H. 3. The angle indicated between the Bk. of Abut. and face of barrier is 90° at the North Abutment and 92°00'06" (or 87°59'54" depending on the offset) at the South Abutment. See the Plan and Profile sheet.



SECTION C-C

FOOTING PLAN

FOR INFORMATION ONLY

SOUTH & NORTH ABUTMENT
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

DESIGNED	LM
CHECKED	SF
DRAWN	CED
CHECKED	LM

DATE: 12-31-99



DESIGNED	BKC	REVISED	-
CHECKED	PLP	REVISED	-
DRAWN	FDL	REVISED	-
CHECKED	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

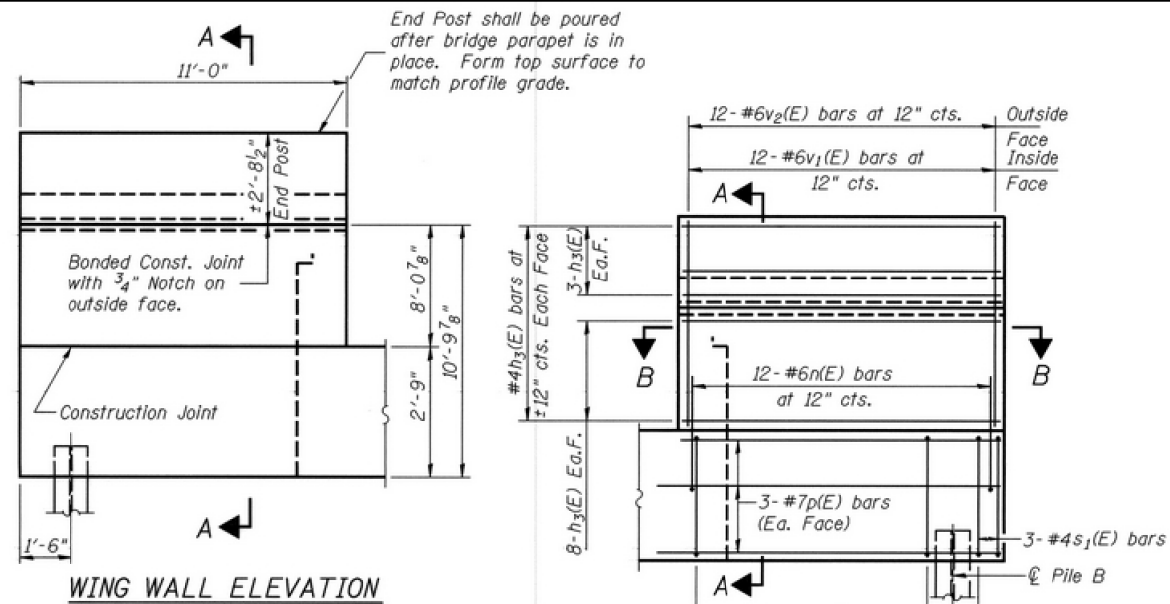
2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 57 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	69
WHA*	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT WZPE1991 CONTRACT NO. 87683				

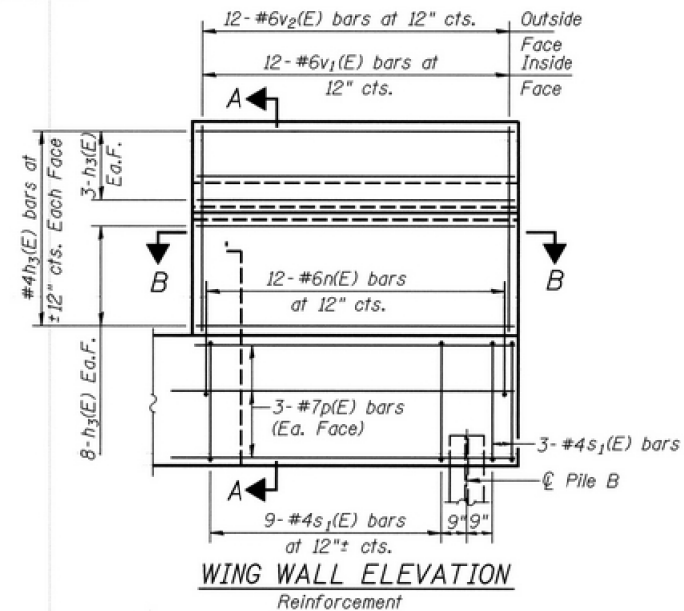
KENDALL COUNTY HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 512 OF
94-00036-00-BR	171	LASALLE & KENDALL	25	19	S18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

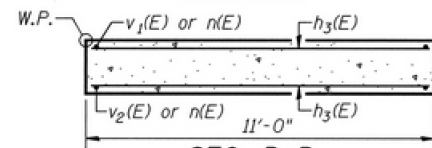


WING WALL ELEVATION

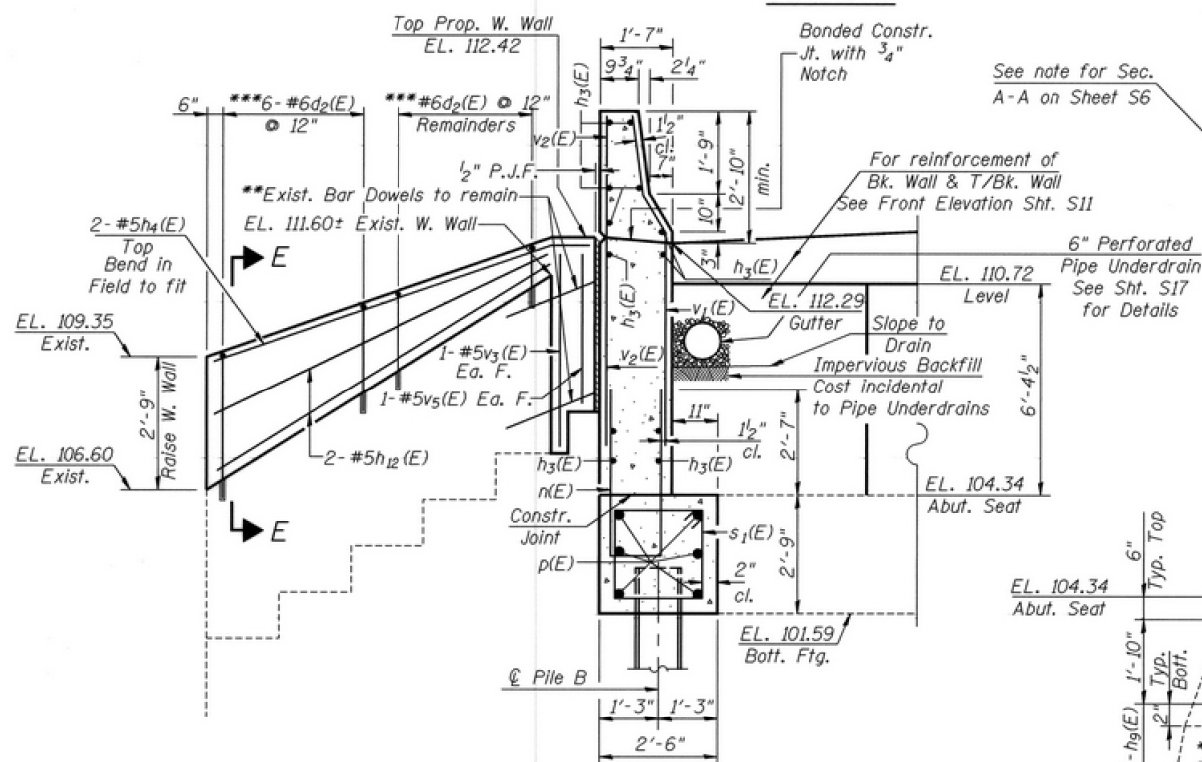
Notes: Reinforcement bars designated (E) shall be epoxy coated.



WING WALL ELEVATION Reinforcement



SEC. B-B



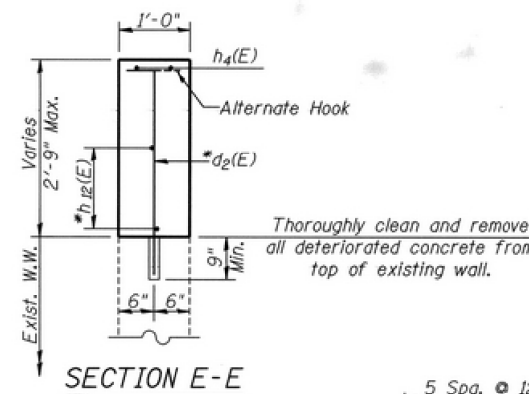
SEC. A-A & REAR VIEW

Scale: 3/8"=1'-0"

*Epoxy grout d(E), d2(E), h7(E) through h11(E) & v6(E) bars in holes having a diameter 1/4" larger than the bar and a depth of 9". The grout and the method of application shall be according to Sec. 584 of the Standard Specs. Minimum edge distance to existing concrete shall be 3".

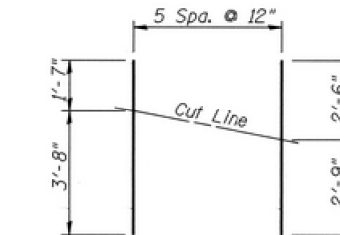
**Existing reinforcement bar dowels to be thoroughly cleaned and incorporated into new concrete.

See Sheet S11 for pile data.



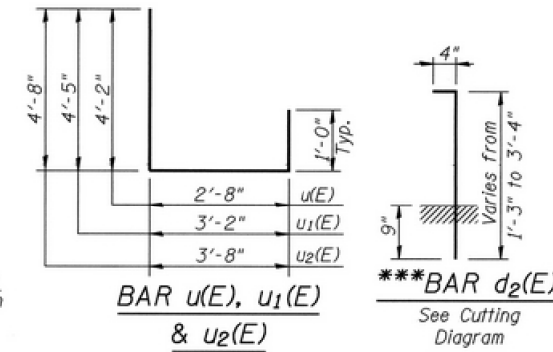
SECTION E-E

Thoroughly clean and remove all deteriorated concrete from top of existing wall.



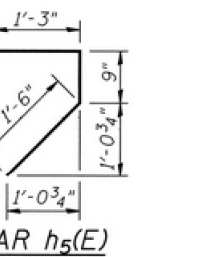
***CUTTING DIAGRAM BAR d2(E)

Order bar d2(E) full length. Use remainder as shown. See Bar d2(E) Bending Diagram

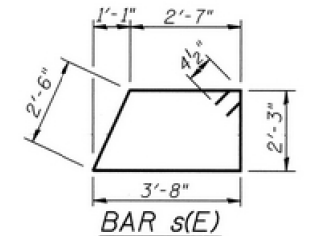


BAR u(E), u1(E) & u2(E)

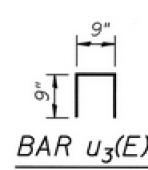
Thoroughly clean and remove all deteriorated concrete from top of existing wall.



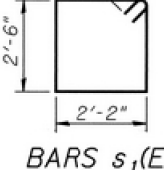
BAR d2(E)



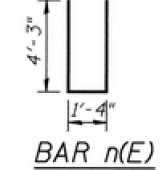
BAR s(E)



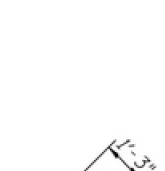
BAR u3(E)



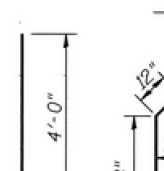
BARS s1(E) & s2(E)



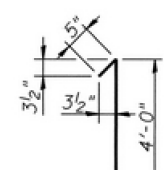
BAR n(E)



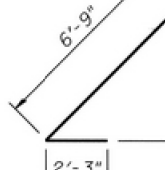
BAR s2(E)



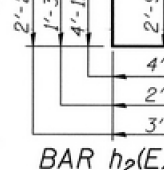
BAR v1(E)



BAR s3(E)



BAR s4(E)



BAR h2(E), h6(E) & h7(E)

BILL OF MATERIAL

Bar	Size	No.	S. Abut.	N. Abut.	Total	Length	Shape
d(E)	#6	8	8	16	3'-9"		
d1(E)	#6	10	10	20	5'-6"		
d2(E)	#6	12	12	24	5'-3"		
h(E)	#5	32	32	64	2'-9"		
h1(E)	#6	4	4	8	27'-8"		
h2(E)	#5	32	32	64	5'-9"		
h3(E)	#4	44	44	88	10'-8"		
h4(E)	#5	4	4	8	11'-0"		
h5(E)	#5	8	8	16	3'-6"		
h6(E)	#6	4	4	8	9'-0"		
h7(E)	#6	30	30	60	3'-4"		
h8(E)	#6	34	34	68	3'-4"		
h9(E)	#6	6	6	12	4'-9"		
h10(E)	#6	4	4	8	4'-3"		
h11(E)	#6	6	6	12	2'-0"		
h12(E)	#5	4	4	8	12'-0"		
n(E)	#6	24	24	48	9'-10"		
p(E)	#7	12	12	24	14'-0"		
s(E)	#4	4	4	8	11'-9"		
s1(E)	#4	24	24	48	10'-1"		
s2(E)	#4	26	26	52	8'-5"		
s3(E)	#4	26	26	52	4'-5"		
s4(E)	#4	26	26	52	9'-0"		
u(E)	#6	4	4	8	4'-3"		
u1(E)	#6	4	4	8	6'-10"		
v(E)	#5	16	16	32	7'-4"		
v1(E)	#6	24	24	48	10'-4"		
v2(E)	#6	24	24	48	10'-2"		
v3(E)	#5	4	4	8	8'-6"		
v4(E)	#5	20	20	40	14'-6"		
v5(E)	#5	4	4	8	7'-6"		
v6(E)	#5	14	14	28	1'-9"		
u(E)	#5	2	2	4	7'-10"		
u1(E)	#5	2	2	4	8'-7"		
u2(E)	#5	2	2	4	9'-4"		
u3(E)	#5	32	32	64	2'-3"		
Measure S. Abut. N. Abut. Total							
Structure Excavation	Cu. Yd.	68.2	68.2	136.4			
Concrete Structures	Cu. Yd.	46.6	46.6	93.2			
Reinforcement Bars, Epoxy Coated	Pound	4,300	4,300	8,600			
Furnishing Steel Piles HP10x42	Foot	114	114	228			
Driving Steel Piles	Foot	114	114	228			
Concrete Removal	Cu. Yd.	11.6	11.6	23.2			

ABUTMENT DETAILS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

DESIGNED	LM
CHECKED	SF
DRAWN	CED
CHECKED	SF

DATE: 12-31-99



DESIGNED	BKC	REVISED	-
CHECKED	PLP	REVISED	-
DRAWN	FDL	REVISED	-
CHECKED	BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 58 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	70
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE199 CONTRACT NO. 87683

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S13 OF S18 SHEETS
C. N. F. & S. 171	94- 00036- 00-BR	LASALLE & KENDALL	25	20	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		



El. 115.12
Top of Proposed Wing Wall
• Abutments

Backwall

Bridge Seat

El. 106.0+
Top Timber Sheeting

Exist. Timber Piles

ELEVATION

EXIST. TIMBER PILE LAYOUT

FOR INFORMATION ONLY

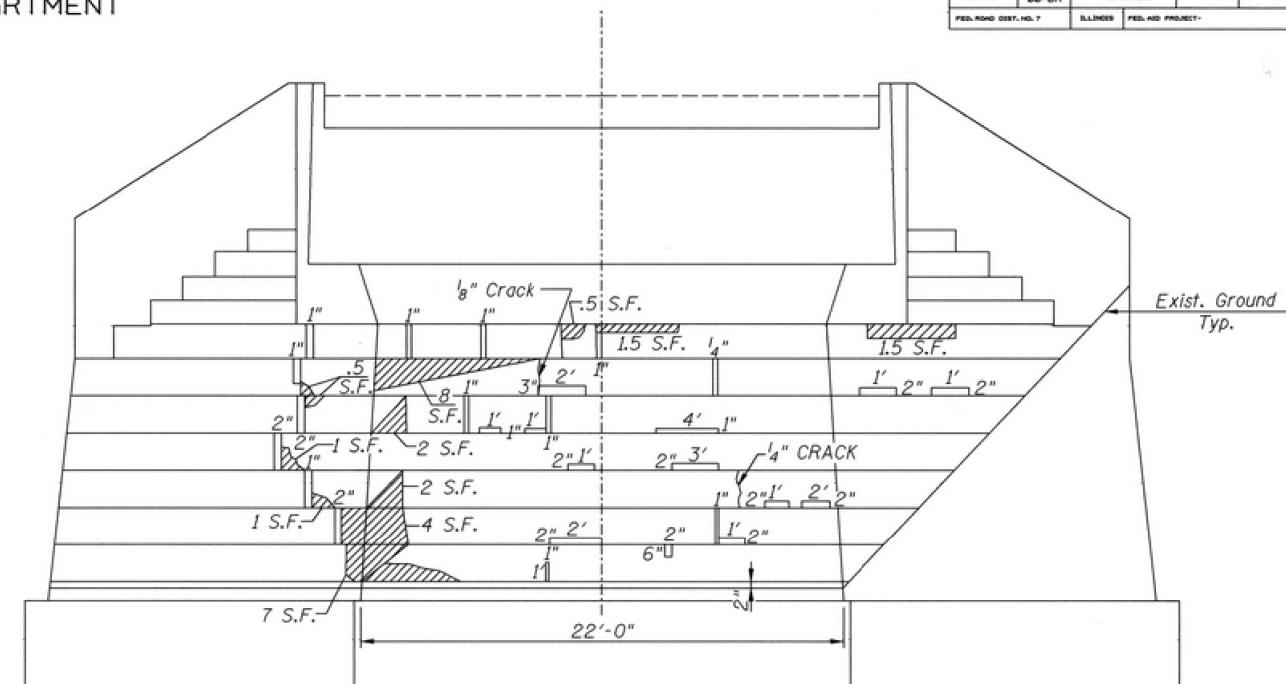
DATE: 12-31-99



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

DESIGNED - BKC	REVISED -
CHECKED - PLP	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00**

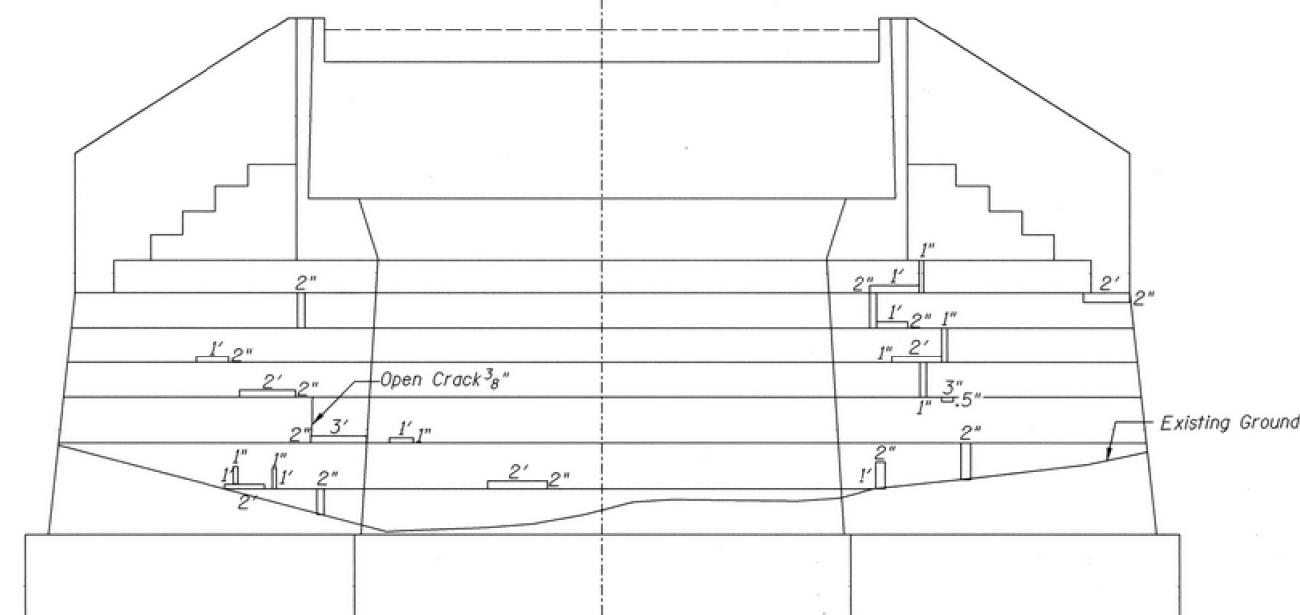


N.W. WING WALL

FRONT ELEVATION

N.E. WING WALL

NORTH ABUTMENT



S.E. WING WALL

FRONT ELEVATION

S.W. WING WALL

SOUTH ABUTMENT

ABUTMENT REPAIRS & EXIST.
TIMBER PILE DETAILS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

<u>BILL OF MATERIAL</u>				
	<i>Measure</i>	<i>S. Abut.</i>	<i>N. Abut.</i>	<i>Total</i>
<i>Formed Concrete Repair Depth > 5 in.</i>	<i>Sq. Ft.</i>	-	29	29
<i>Epoxy Crack Sealing</i>	<i>Foot</i>	2	4	6
<i>Stone Masonry Tuck Pointing</i>	<i>Foot</i>	31	76	107

Legend:  Spall on Stone Masonry or Concrete
Footing = Formed Concrete Repair

Cracks in Stone Masonry
or Concrete Footing to be
Epoxy Sealed.

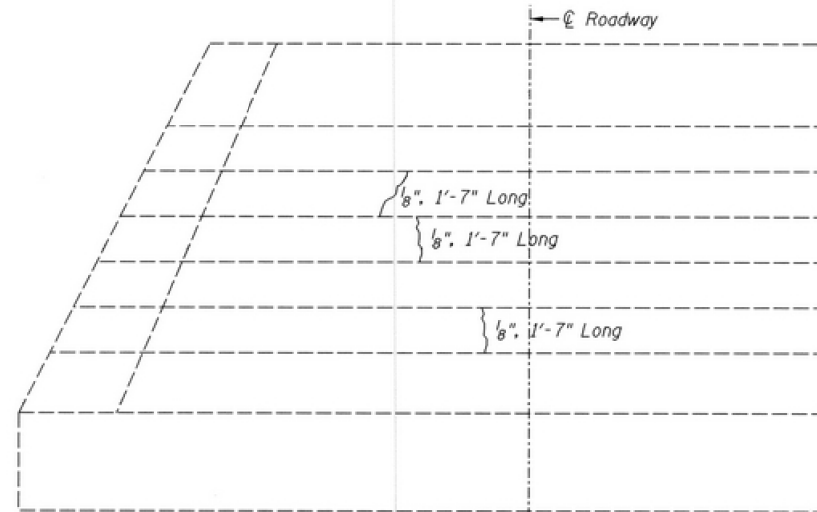
☐ Open Joints to be tuck pointed

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	71
	17-00142-00-BR	KENDALL		
WHA# 1087.117 ILLINOIS FED. AID PROJECT W7PE1199 CONTRACT NO. 876				

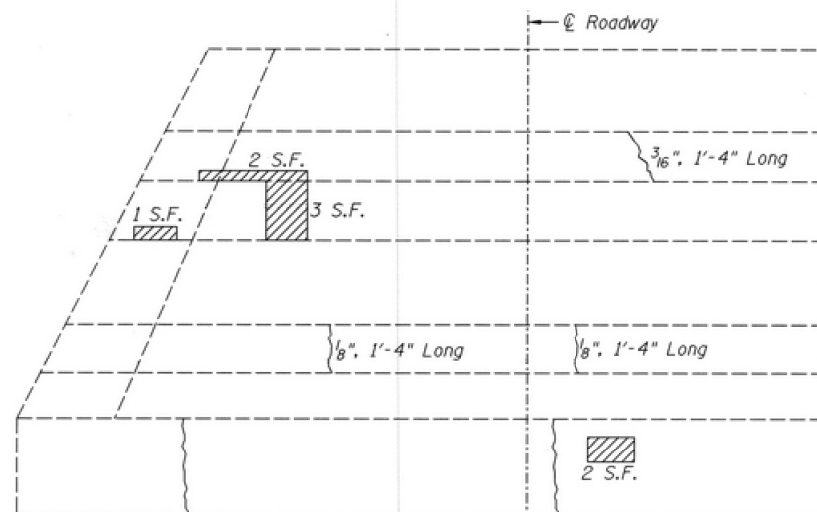
WHA#	1087-117	ILLINOIS	FED. AID PROJECT	WZPF(199)	CONTRACT NO.	876
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KENDALL COUNTY HIGHWAY DEPARTMENT

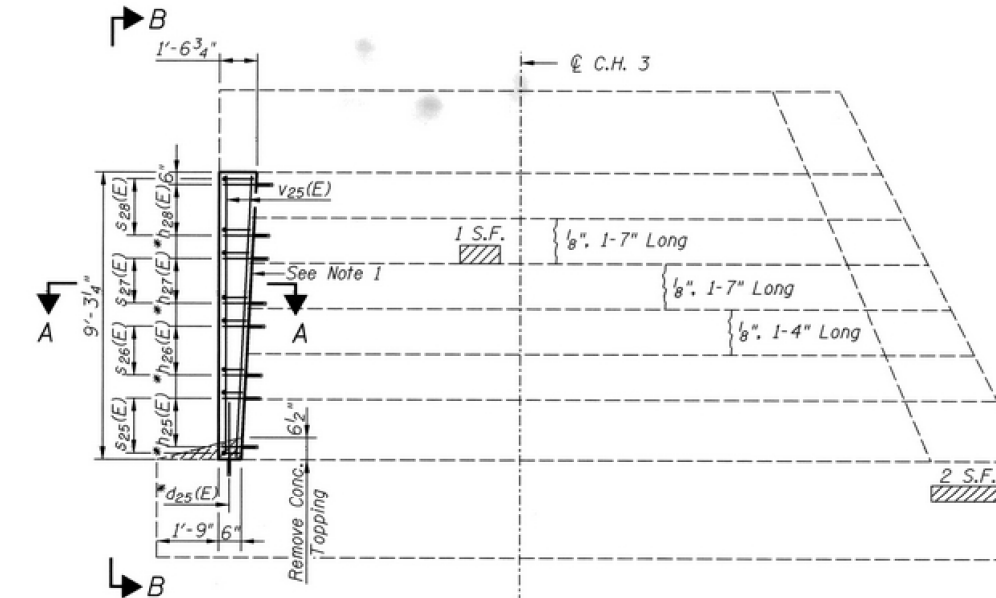
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. S14 OF
G.H. F.A.S. 171	94- 00036- 00-BR	LASALLE & KENDALL	25	21	S18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



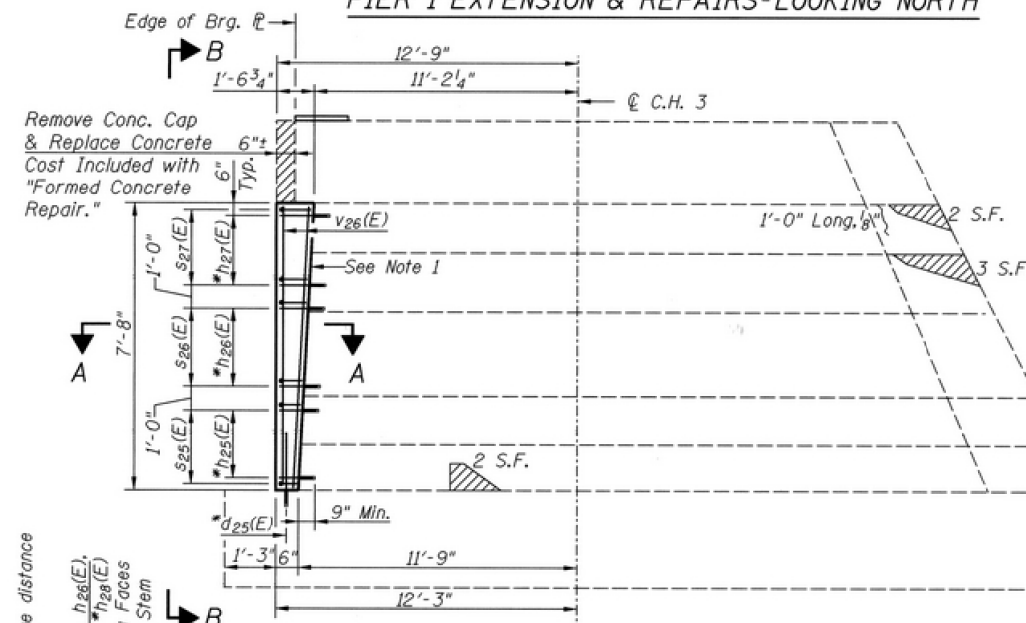
PIER 1 REPAIRS-LOOKING SOUTH



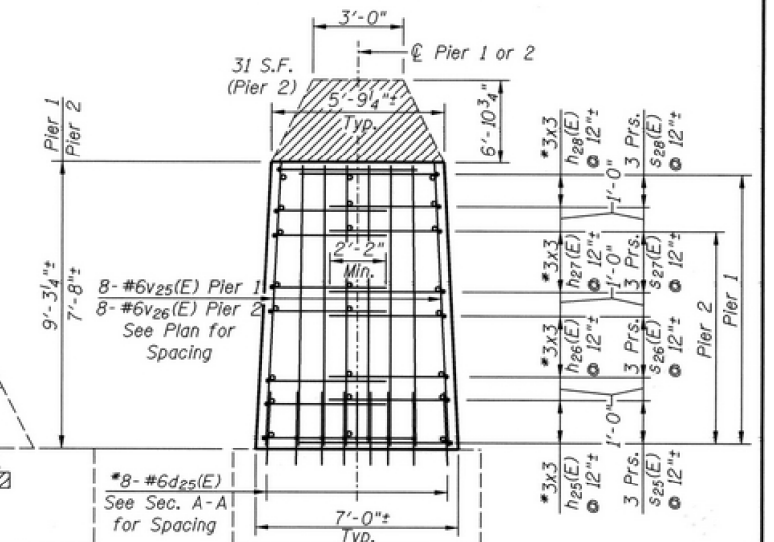
PIER 2 REPAIRS-LOOKING SOUTH



PIER 1 EXTENSION & REPAIRS-LOOKING NORTH



PIER 2 EXTENSION & REPAIRS-LOOKING NORTH



END ELEVATION B-B
Reinforcement Bars designated (E)
shall be Epoxy Coated

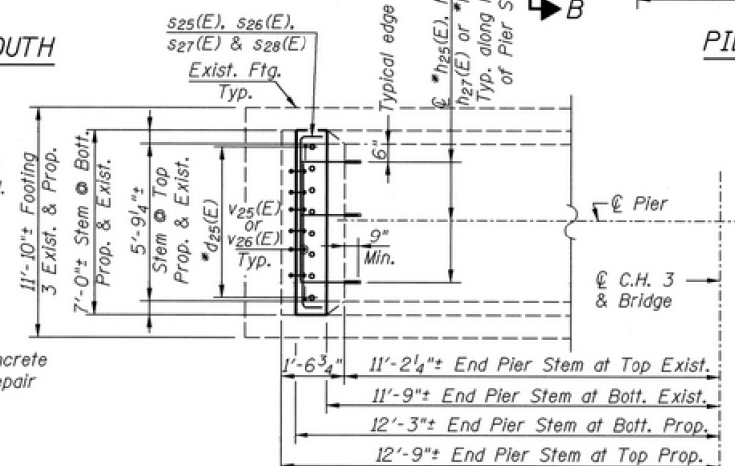
BILL OF MATERIAL

Bar	Size	No.			Length	Shape
		Pier 1	Pier 2	Total		
<i>h₂₅(E)</i>	#6	9	9	18	1'-0"	=====
<i>h₂₆(E)</i>	#6	9	9	18	1'-3"	=====
<i>h₂₇(E)</i>	#6	9	9	18	1'-6"	=====
<i>h₂₈(E)</i>	#6	9	-	9	1'-9"	=====
<i>d₂₅(E)</i>	#6	8	8	16	3'-3"	=====
<i>s₂₅(E)</i>	#4	6	6	12	4'-9"	=====
<i>s₂₆(E)</i>	#4	6	6	12	5'-0"	=====
<i>s₂₇(E)</i>	#4	6	6	12	5'-3"	=====
<i>s₂₈(E)</i>	#4	6	-	6	5'-6"	=====
<i>v₂₅(E)</i>	#6	8	-	8	8'-10"	=====
<i>v₂₆(E)</i>	#6	-	8	8	7'-3"	=====
Item		Measure	Pier 1	Pier 2	Total	
Concrete Structures		Cu. Yd.	2.1	1.8	3.9	
Reinforcement Bars, Epoxy Coated		Lbs.	310	240	550	
Formed Concrete Repair Depth > 5"		Sq. Ft.	16	53	69	
Epoxy Crack Sealing		Foot	10	13	23	

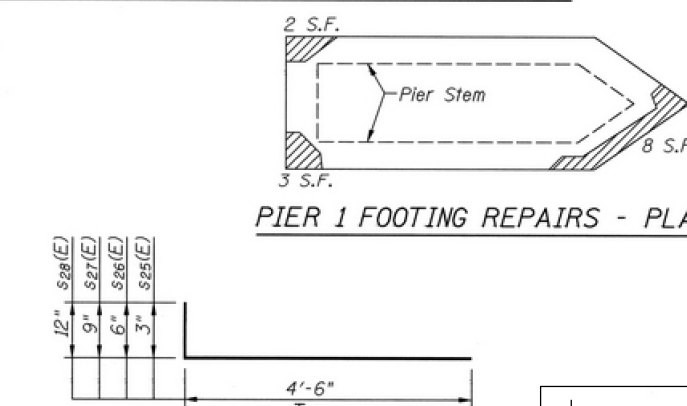
*Epoxy grout d₂₅(E) & h₂₅(E) through h₂₈(E) bars in holes having a diameter 1/4" larger than the bar and a depth of 9". The grout and the method of application shall be according to Art. 584 of the Std. Specs. Minimum distance to edge of existing concrete shall be 3".

Note 1: Remove all loose parts of stone wall & thoroughly clean before placing of concrete

Legend: Spall on Stone Masonry or Concrete Footing = Formed Concrete Repair
 Cracks in Stone Masonry or Concrete Footing to be Epoxy Sealed.



SECTION A-A



PIER 1 FOOTING REPAIRS - PLAN



PIER 2 FOOTING REPAIRS - PLAN

PIER 1 & 2 EXTENSION & REPAIRS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

BARS s₂₅(E), s₂₆(E), s₂₇(E) & s₂₈(E)

DESIGNED	LM
CHECKED	SF
DRAWN	CD
CHECKED	LM

DATE: 12-31-99

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

DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

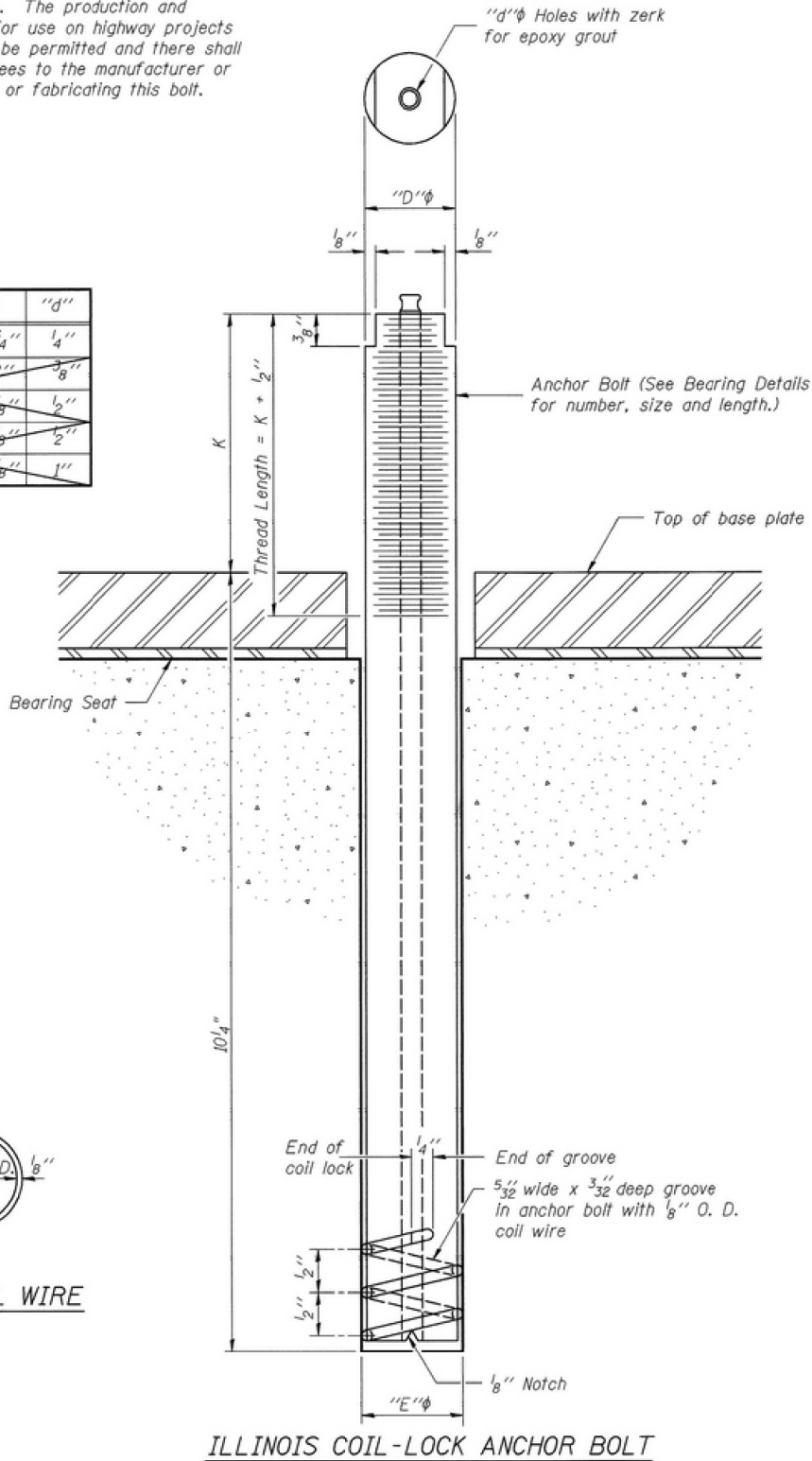
STRUCTURAL SHEET NO. 60 OF 67 SHEETS

FAS R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	72
171	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/2"	2"	5/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer conforming to ASTM A307.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Pier 2	A307

ASTM F 1554 Grade 105, ASTM A449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

ANCHOR BOLT DETAILS
FOR BEARINGS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

DESIGNED	JMC
CHECKED	SF
DRAWN	JMC
CHECKED	BLU

DATE: 12-31-99



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

DESIGNED	- BKC	REVISED	-
CHECKED	- PLP	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- BKC	REVISED	-

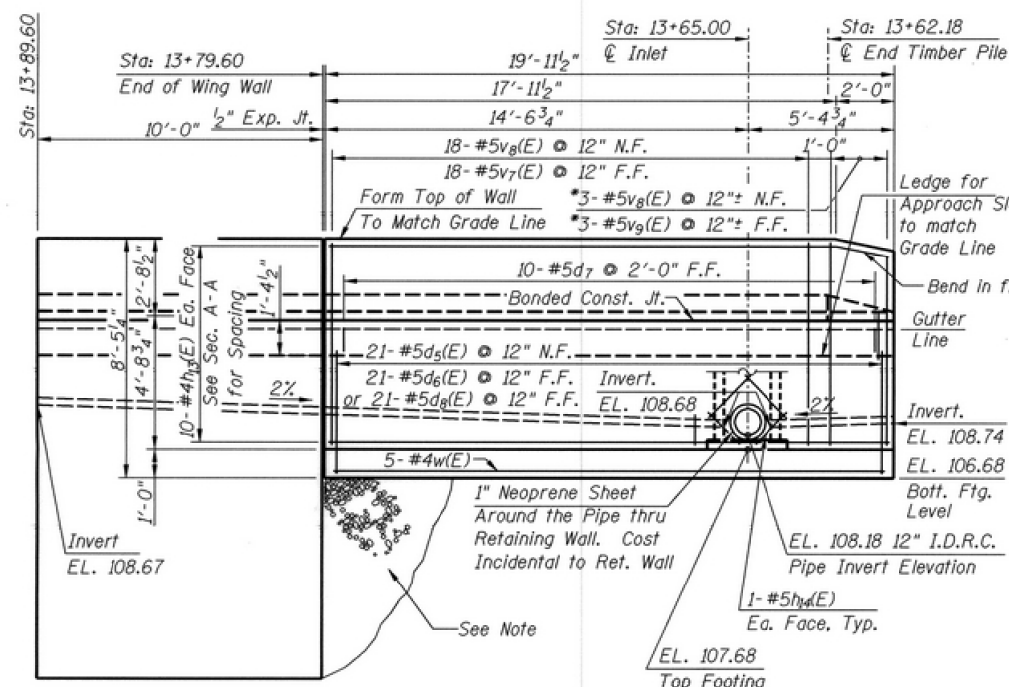
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

2000 EXISTING PLANS
STRUCTURE NO. 047-3000

STRUCTURAL SHEET NO. 62 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	74
	17-00142-00-BR	KENDALL		

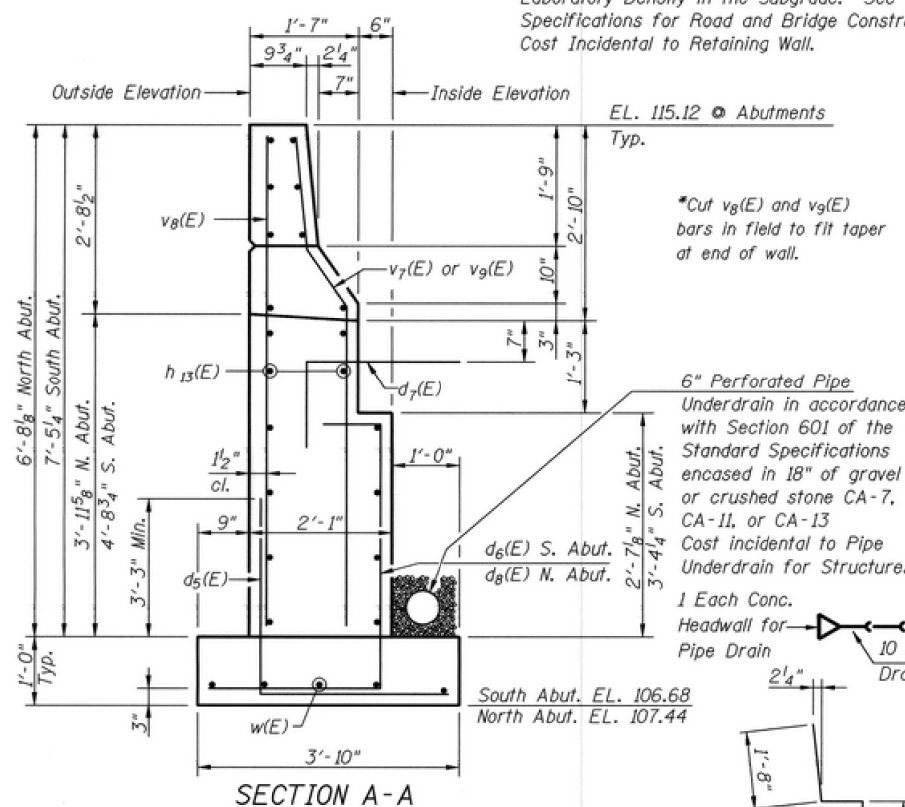
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



S.W. RETAINING WALL OUTSIDE ELEVATION

Looking S.E.

Note: Wing Wall Excavation Below the Retaining Wall Footing Shall be Back Filled with Granular Material in 8 inch Layers Compacted to the Min. of 95% of the Standard Laboratory Density in the Subgrade. See Standard Specifications for Road and Bridge Construction Section 301. Cost Incidental to Retaining Wall.

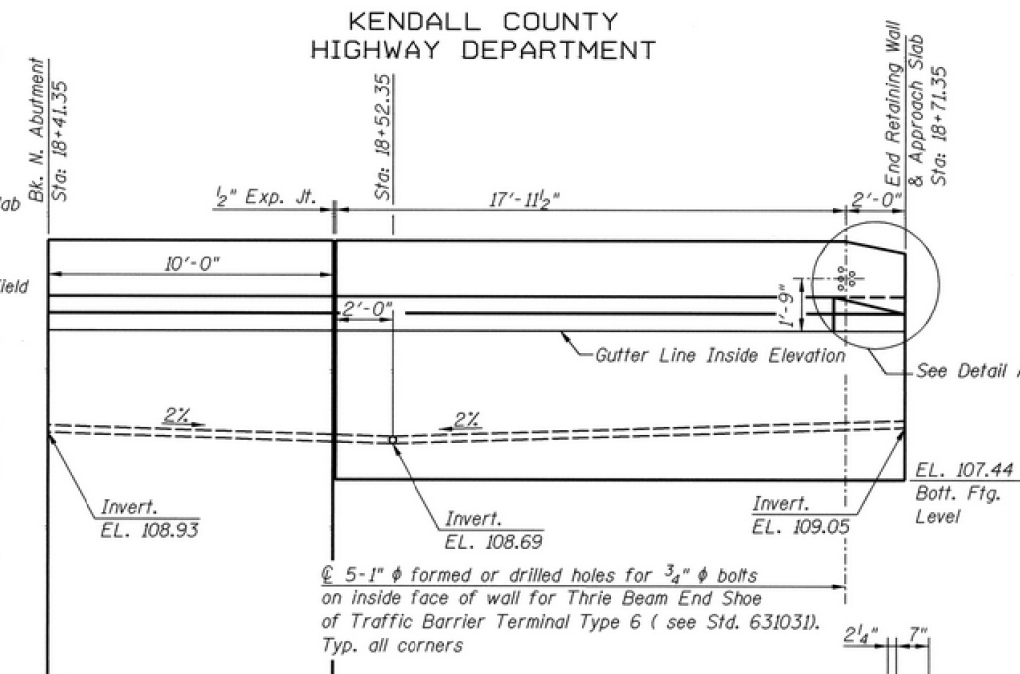


SECTION A-A

DESIGNED	LM
CHECKED	SF
DRAWN	CED
CHECKED	BLU

DATE: 12-31-99

N.F. = Near Face
F.F. = Far Face

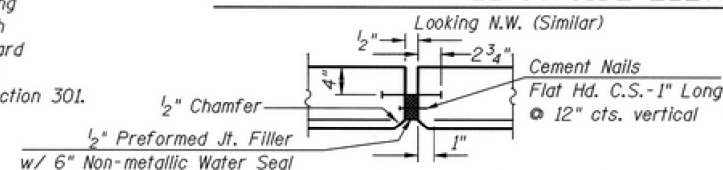


N.W. RETAINING WALL INSIDE ELEVATION

Looking N.W. (Shown)

N.E. RETAINING WALL OUTSIDE ELEVATION

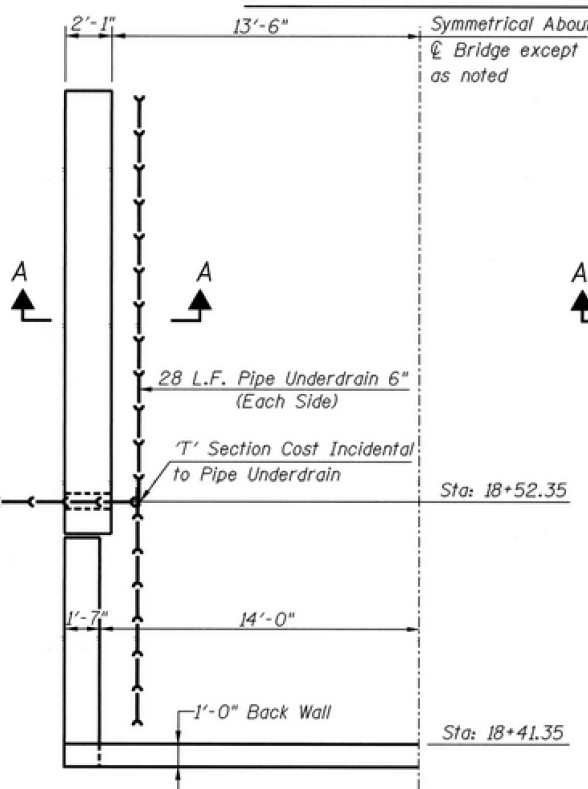
Looking N.W. (Similar)



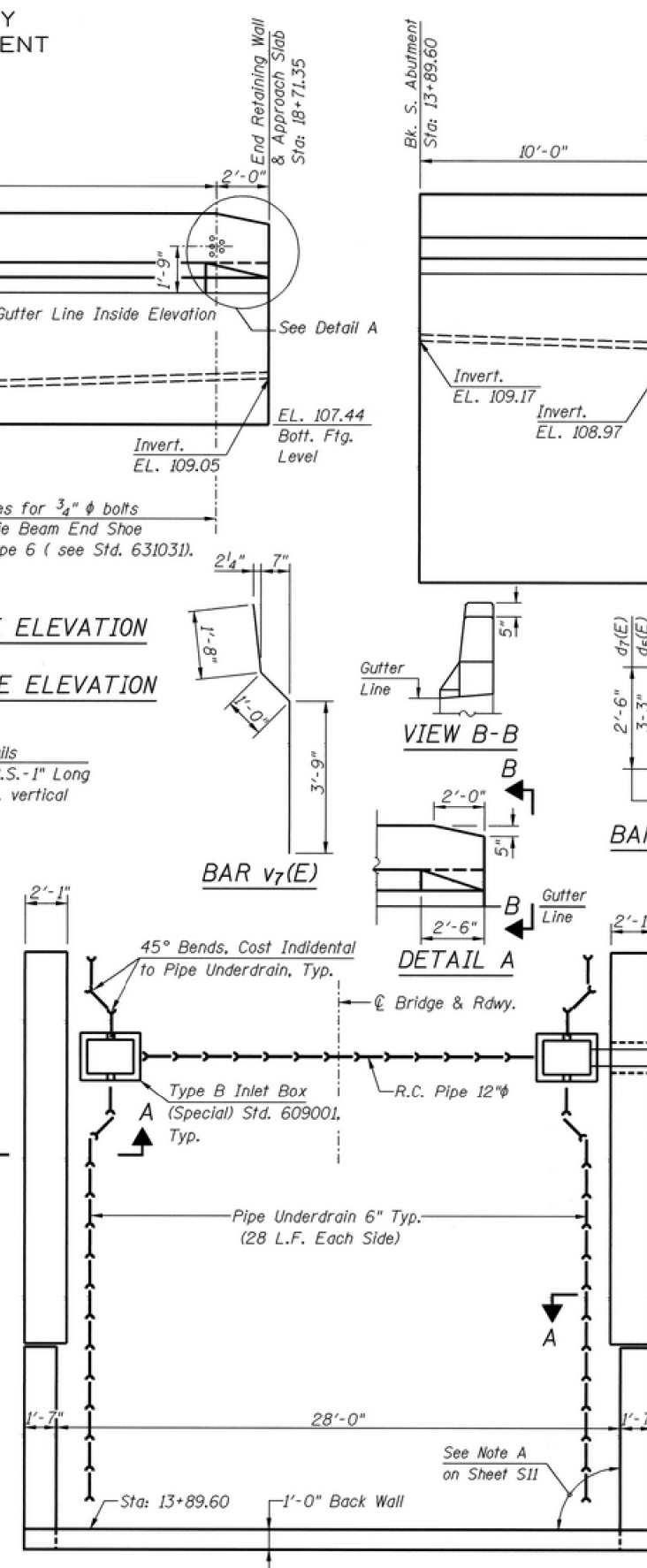
EXPANSION JOINT DETAIL

Symmetrical About

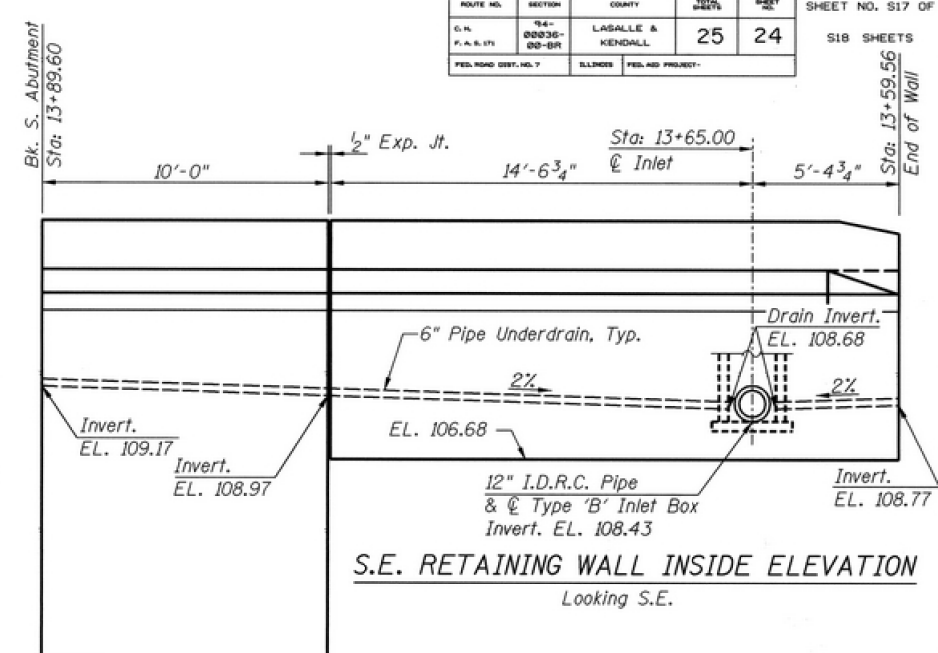
© Bridge except



PIPE UNDERDRAIN @
NORTH ABUTMENT-PLAN



PIPE UNDERDRAIN @
SOUTH ABUTMENT-PLAN



S.E. RETAINING WALL INSIDE ELEVATION

Looking S.E.

BARS $d_5(E)$ & $d_7(E)$

BARS $d_6(E)$ & $d_8(E)$

BILL OF MATERIAL

Bar	Size	N. Abut.	S. Abut.	Total	Length	Shape	
d ₅ (E)	#5	42	42	84	5'-11"	L	
d ₆ (E)	#5	-	42	42	6'-11"	J	
d ₇ (E)	#5	20	20	40	6'-3"	L	
d ₈ (E)	#5	42	-	42	5'-10"	J	
h ₁₃ (E)	#4	40	40	80	19'-7"	=====	
h ₁₄ (E)	#5	-	8	8	2'-6"	=====	
v ₇ (E)	#5	36	36	72	6'-5"	}	
v ₈ (E)	#5	42	42	84	6'-2"	=====	
v ₉ (E)	#5	6	6	12	6'-0"	}	
w(E)	#4	10	10	20	19'-7"	=====	
				Measure	N. Abut.	S. Abut.	Total
Structure Excavation				Cu. Yd.	60.6	70.2	130.8
Concrete Structures				Cu. Yd.	21.0	23.4	44.4
Reinforcement Bars, Epoxy Coated				Lbs.	1,850	1,920	3,770
Pipe Underdrain. 6"				Foot	66	56	122

RETAINING WALLS
MILLINGTON BRIDGE OVER
FOX RIVER
SECTION 94-00036-00-BR
LASALLE-KENDALL COUNTIES
STATION 16+15.48
S.N. 047-3000

FOR INFORMATION ONLY

KENDALL COUNTY
HIGHWAY DEPARTMENT

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
94-00036-00-BR	171	LASALLE & KENDALL	25	25
SHEET NO. S18 OF S18 SHEETS				

PROJECT MILLINGTON ROAD BRIDGE											
ROUTE Millington Road		BRIDGE Fox River		DATE 3/22/95		BORER BY CB		CHECKED BY WEP			
COUNTY Kendall & LaSalle		STATION									
BORING NO. B-1											
STATION 3+78											
OFFSET 6'W of C.L.											
GROUND SURFACE 113.1		Depth		N	Q _u kPa	W %		Depth	N	Q _u kPa	W %
3" BL Conc. Pavement		1						2			
Slightly dense, damp, Brown SAND and GRAVEL, A-1-a, FILL		1		7				3			
		1		4		9		3			32
		1		3				6			
Medium dense, damp, Brown SAND and Gravel mixed with damp Dark Brown Silty LOAM, A-2-4, FILL		1		12				7			
		1		10		8		8			
		1		8				11			15
		1						15			
Slightly dense to medium dense, moist, Dark Brown LOAM, A-2-4, FILL		2		3				14			
		2		4		26		15			13
		2		3				20			
		2						20			
		3		3		21		36			8
		3		3				37			
		3						30			
		4		3				35			
		4		5		20		45			8
		4		6				36			
		4						31			
		4		6		22		35			6
		4		6				39			
		5						35			
		5		4				11			
		5		5		25					
		5		5							
		6		4				12			
		6		5		19		40			
		6		5							
		20									



VERIFY
2 WASHBOLTS / BOLT
VERIFY
REINFORCE - CONSIDER COVER & ITS
EFFECT ON BOLT LENGTH.
BELIEVE TOTAL BOLT COUNT
FOR THESE BOLTS = 1080

REPLACE EXIST.
RIVETS $\frac{1}{4} \times 40 \times 2\frac{1}{4}$
HEX HD BOLT $\frac{1}{4} \times 10 \times 3$
1 HRD. NISMR (TYP.)

EXIST LENGTH TO VARY
DUE TO COVER PL'S

P4
OR
P5

P4
OR
P5

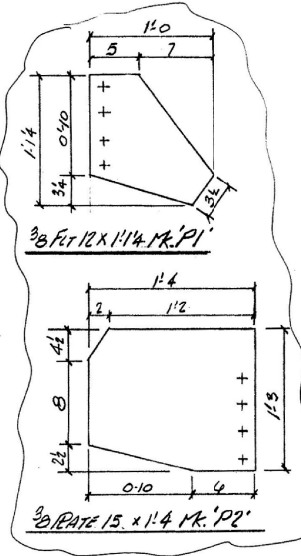
P4
OR
P5

P4
OR
P5

5/16 3/2 TYP

THE PL IS NOT WELDED TO THE
FLANGE IT IS WELDED TO THE
EXISTING STIFFENER.

FAS 171 (C.H.3) ~ KENDALL COUNTY, IL.
MILLINGTON BRIDGE OVER FOX RIVER
SECTION: 94-00034-00-BR
PROJECT: B45-171 (104)
CONTRACT* B7180 ~ S.N. 047-3000



360R-1/2 F4x0.7 MK.P4	} QNTY# LENGTH FIELD VERIFIED
480R-1/2 F4x0.10 MK.P5	

MATERIAL
STEEL- AASHTO M270 GR (250) (A36) ⁹⁰ % CHARTY
HARDWARE- A325 MECH. GALV. PER B-695, CLASS 50

FINISH
Blast Clean Near White to S.S. PC-SP10
with an Anchor Profile of 1 - 2.5 MILs
Shop Paint One Coat (HS ZINC SILICATE)
PRIMER (Inorganic zinc-rich primer)

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	77
	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT W2PE(199) CONTRACT NO. 87683				



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

DESIGNED	-	BKC
CHECKED	-	PLP
DRAWN	-	FDL
CHECKED	-	BKC

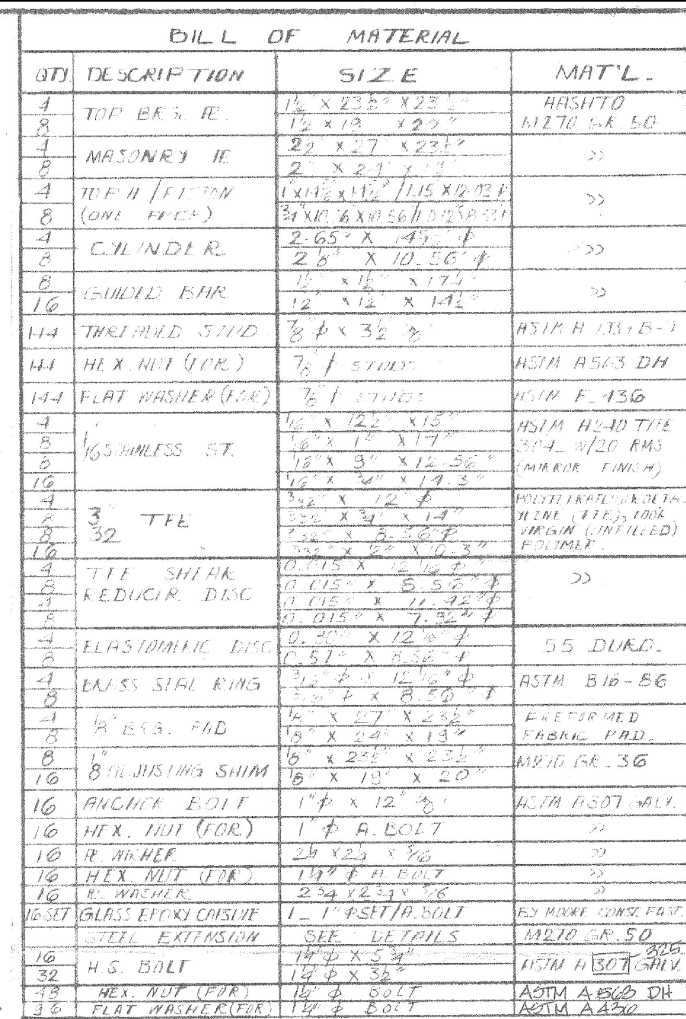
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00**

EXISTING CROSS FRAME SHOP DRAWING
STRUCTURE NO. 047-3000

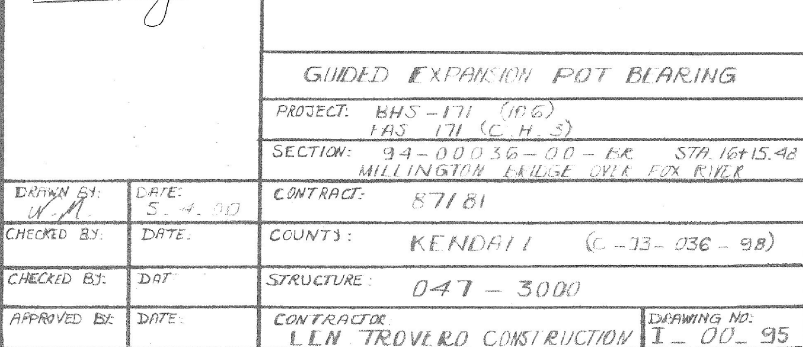
STRUCTURAL SHEET NO. 65 OF 67 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	77
	17-00142-00-BR	KENDALL		
WHA* 1087J17 ILLINOIS FED. AID PROJECT W2PE(199) CONTRACT NO. 87683				

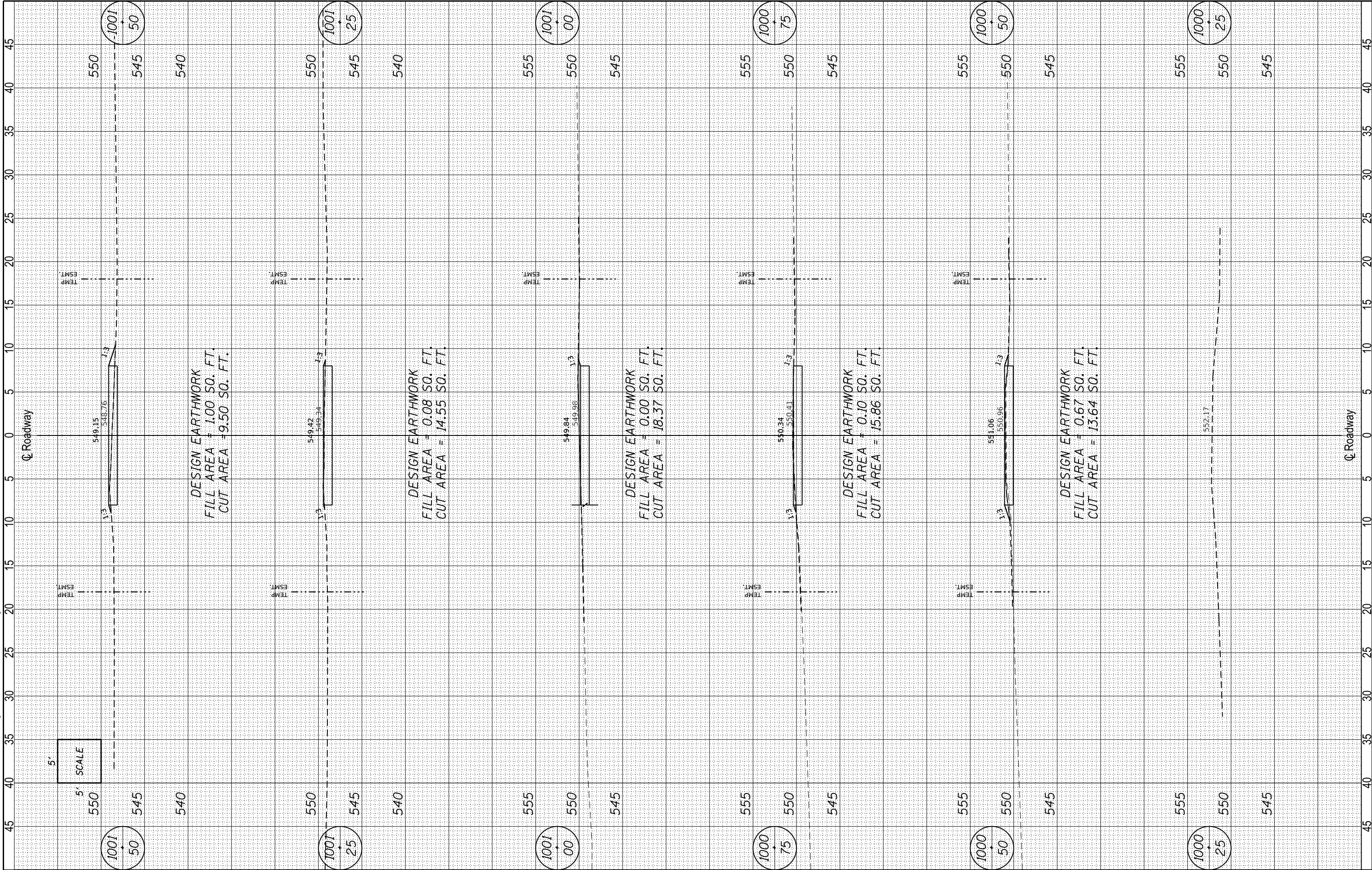


- ALL STRUCTURAL STEEL R² USED FOR FABRICATING THE BAG² SHALL BE A5130 M270 GR. 50 UNLESS NOTED; BLAST CLEANED MAR. WHITE TO A PROFILE OF 1 TO 2.5 MILS PER SQ. IN. SP10, WITH ONE SHOP COAT OF INORGANIC ZINC- RICH PRIMER.
- POT BAG² TO BE FABRICATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION I.D.O.T.; A5130 STANDARD SPECIFICATION AND SPECIAL PROVISION.
- THE ³/₂ TEE SHEET SHALL BE BONDED DIRECTLY TO THE PISTON WITH A TWO PART MEDIUM VISCOSITY EPOXY RESIN, CONFORMING TO FEDERAL SPEC. MMAM A-134 TYPE I; THE BOND AGENT SHALL BE APPLIED ON THE FULL AREA OF THE CONTACT AREA.
- THE BAG² ASSEMBLY SHALL BE CAPABLE TO TRANSMIT THE DESIGNATED HORIZONTAL FORCE.
- MAX. SLIDING COEFFICIENT OF FRICTION = 0.03
- TOTAL ROTATION CAPACITY (MIN) = 0.02 RAD.
- GROUND EPOXY SHALL BE FILL WITH AN EPOXY RESIN SHALL BE CAPABLE TO BE BOND TO CONSTRUCTION MATERIALS.
- AGR - NO. 100.

SHOP DRAWING REVIEW		
ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR	
No exceptions taken ☒ Rejected ☐ Comments _____	Confirm ☐ No Resubmittal ☒	PER ☒
Engineer's review is for general conformance with the design concept and contract requirements. Absence of comments does not constitute as relieving the Contractor from compliance with the project plans/specifications, nor does it constitute approval. The Contractor remains responsible for planning and accuracy for all dimensions, quantities and materials. This includes fabrication and erecting and controlling all quantities and materials. It also includes fabrication and erecting and controlling all quantities and materials. It also includes fabrication and erecting and controlling all quantities and materials. Bowman Barratt & Associates, Engineers By: <u>E. L. Bowman</u> Date: <u>5-26-00</u> O.F.B.I. ENGINEERING, INC.		



FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\STRUCT\2D Drawings\1087J17_XSSheets_Access Road.dgn





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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

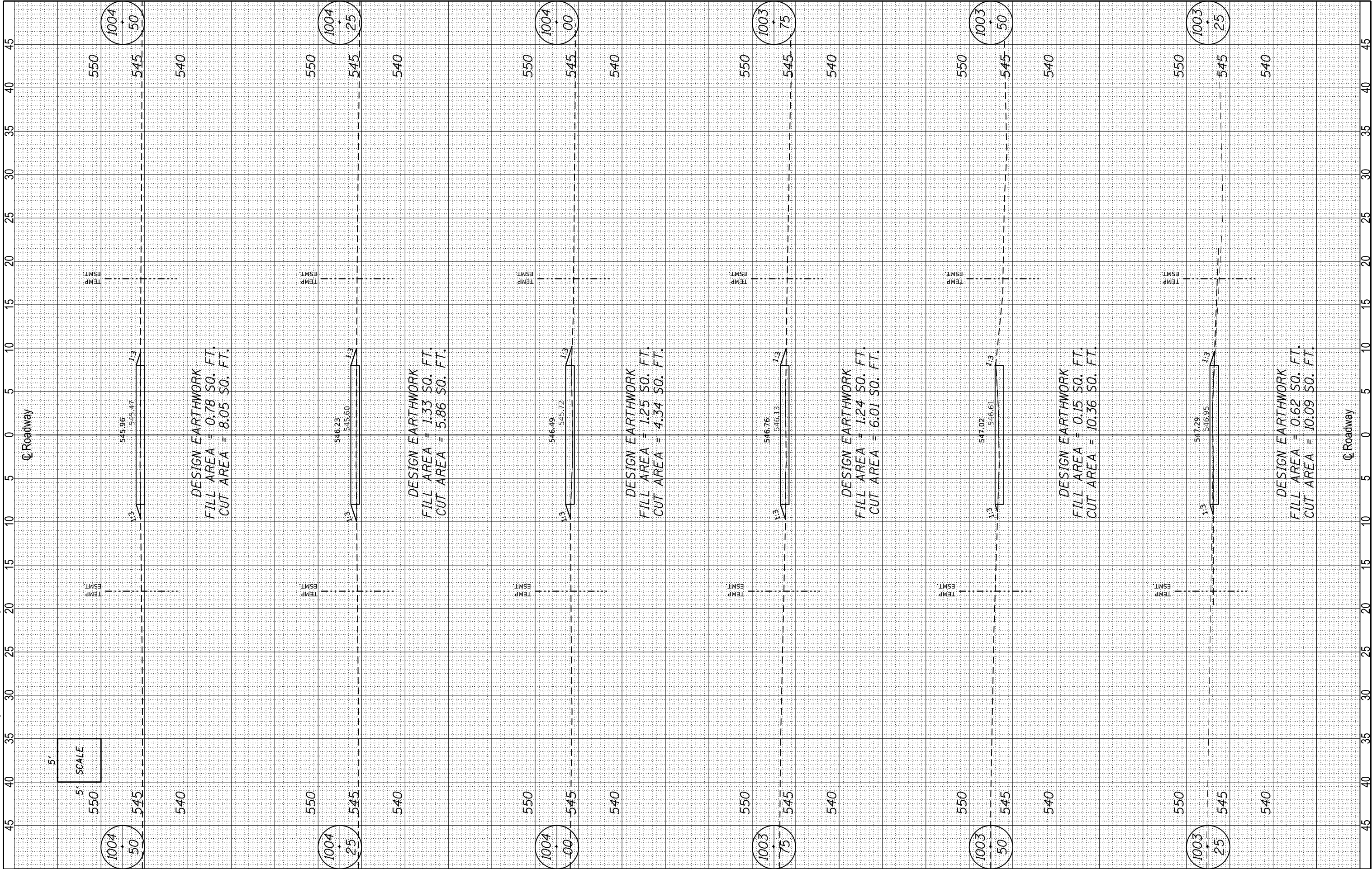
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
TEMPORARY ACCESS ROAD (SOUTH)

SHEET NO. 1 OF 4 SHEETS

FAS RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR		LASALLE	93	80
	17-00142-00-BR		KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683					

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\STRUCT\2D Drawings\1087J17_XSSheets_Access Road.dgn





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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
TEMPORARY ACCESS ROAD (SOUTH)

SHEET NO. 3 OF 4 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	82
	17-00142-00-BR	KENDALL		

FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\STRUCT\2D Drawings\1087J17_XSSheets_Access Road.dgn



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

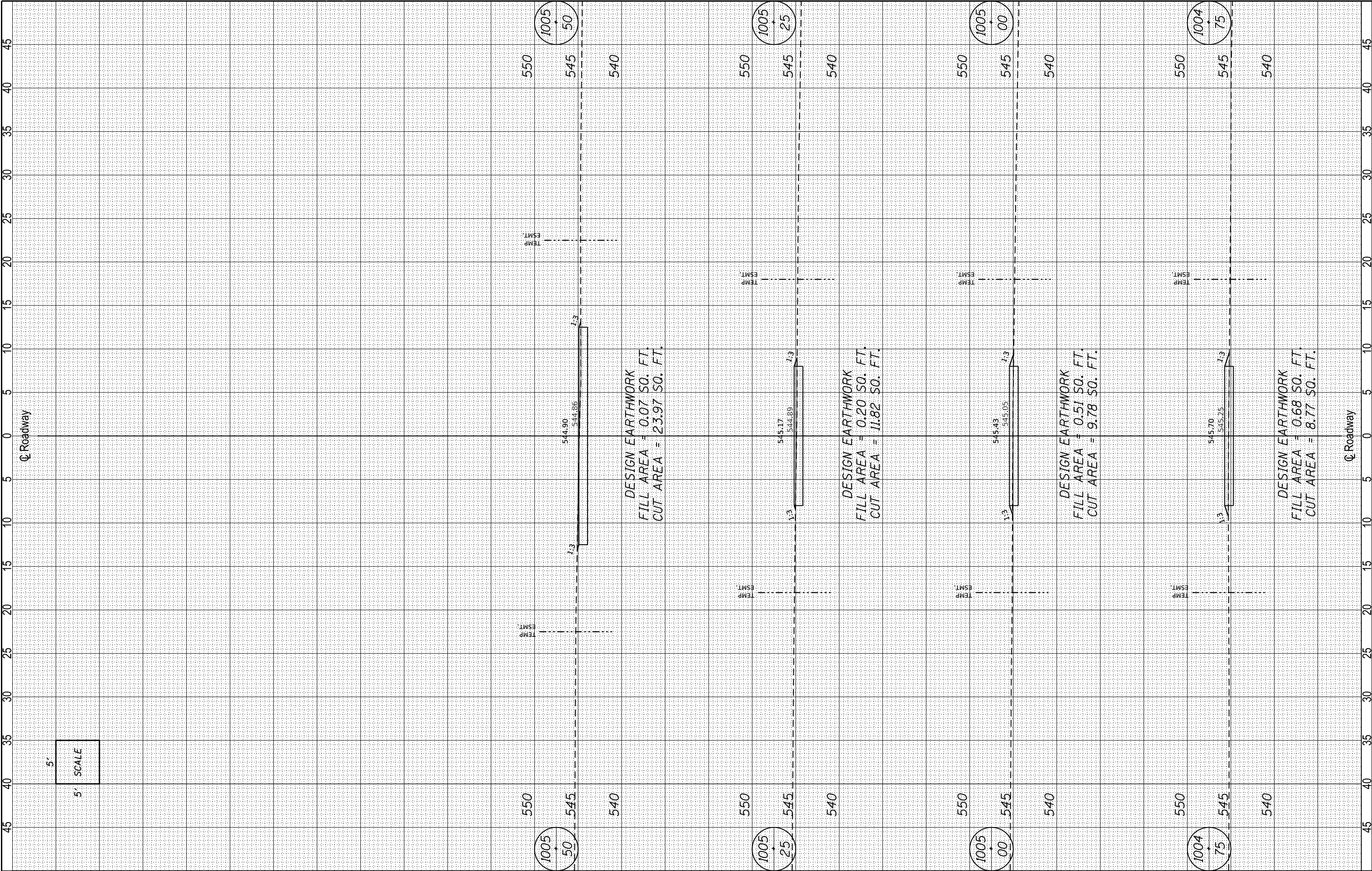
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
TEMPORARY ACCESS ROAD (SOUTH)

SHEET NO. 4 OF 4 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	83
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
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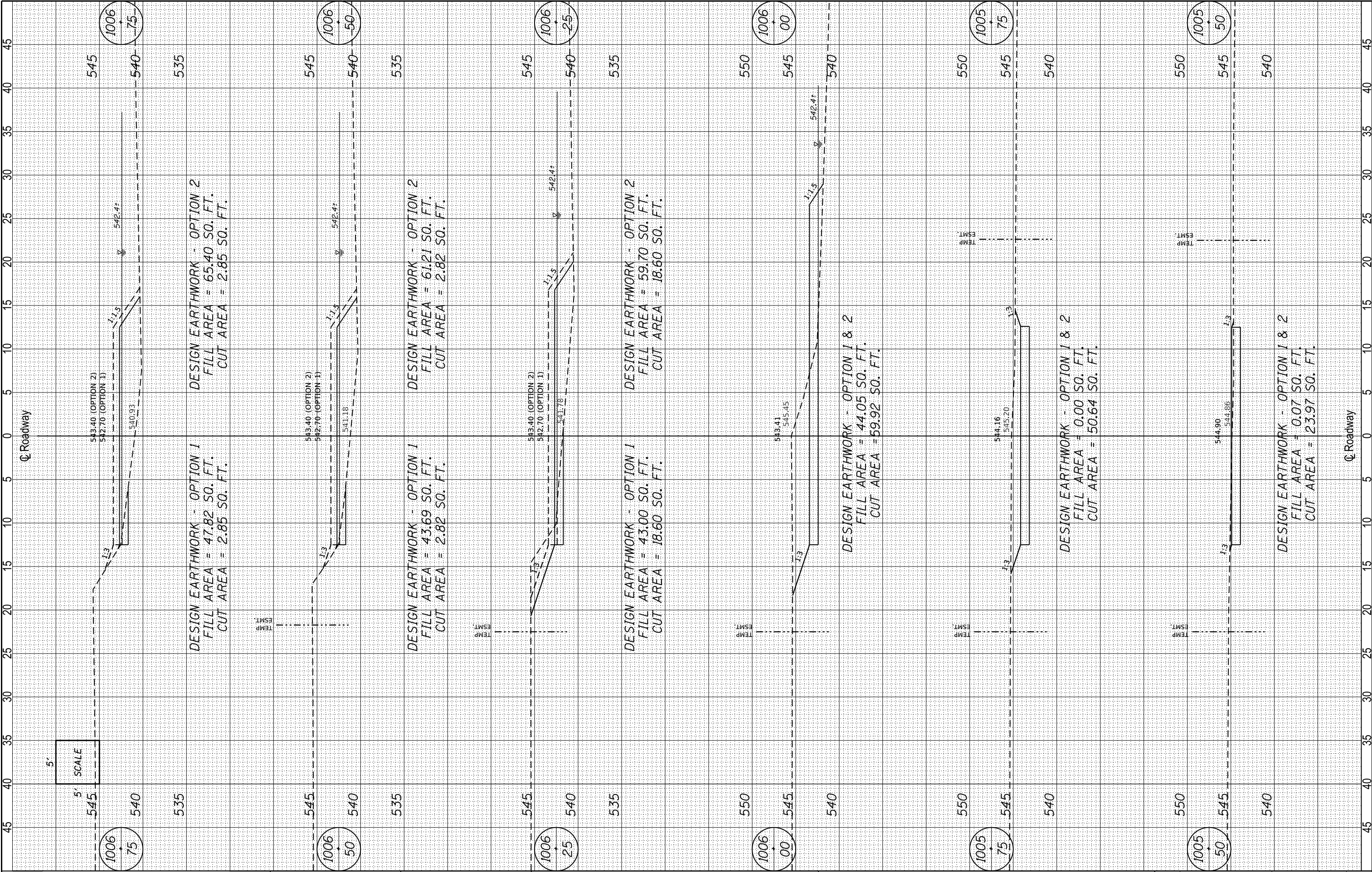
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 1 & OPTION 2 - SOUTH)

SHEET NO. 1 OF 5 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	84
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

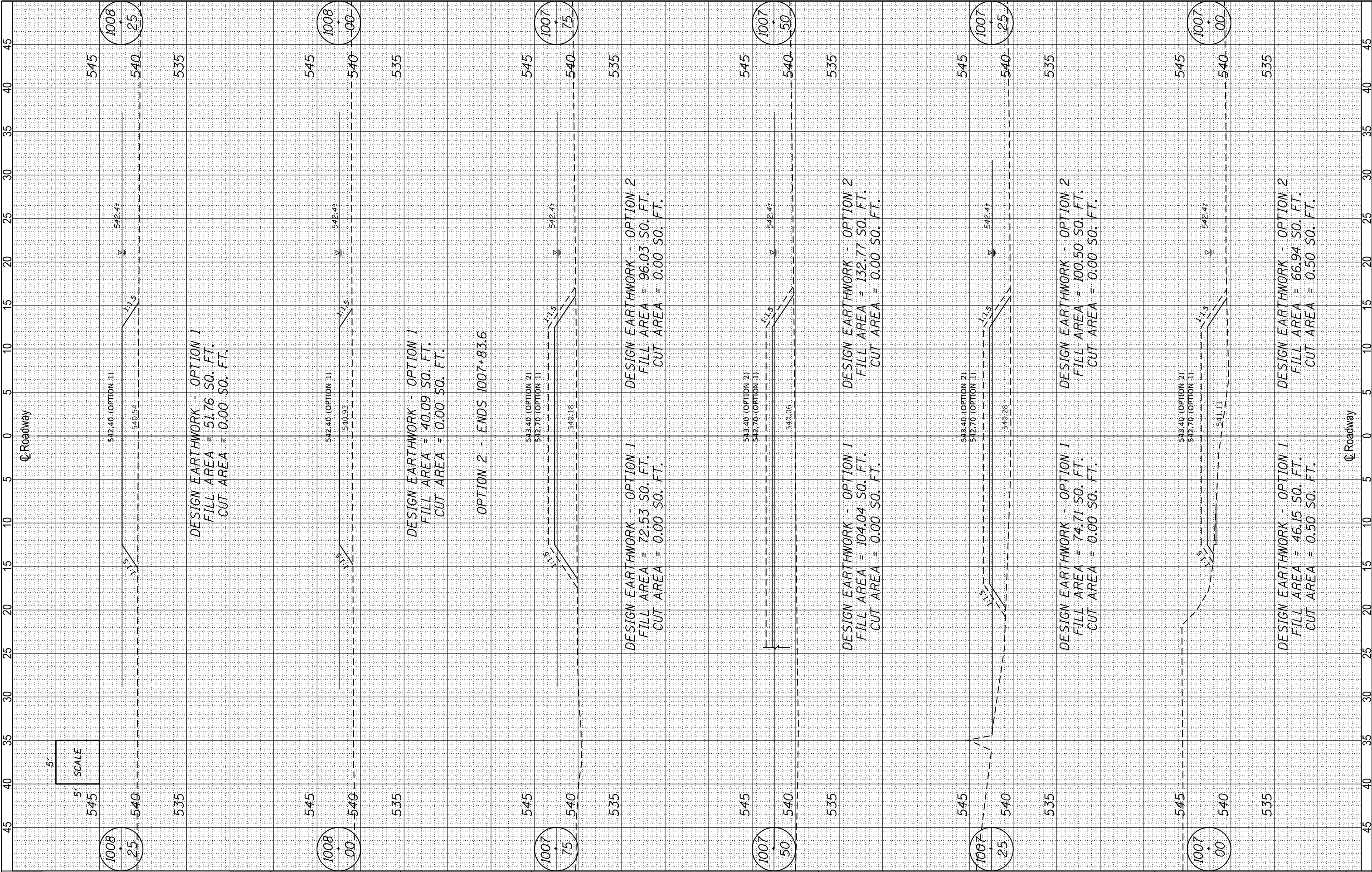
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 1 & OPTION 2 - SOUTH)

SHEET NO. 2 OF 5 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	85
	17-00142-00-BR	KENDALL		

WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

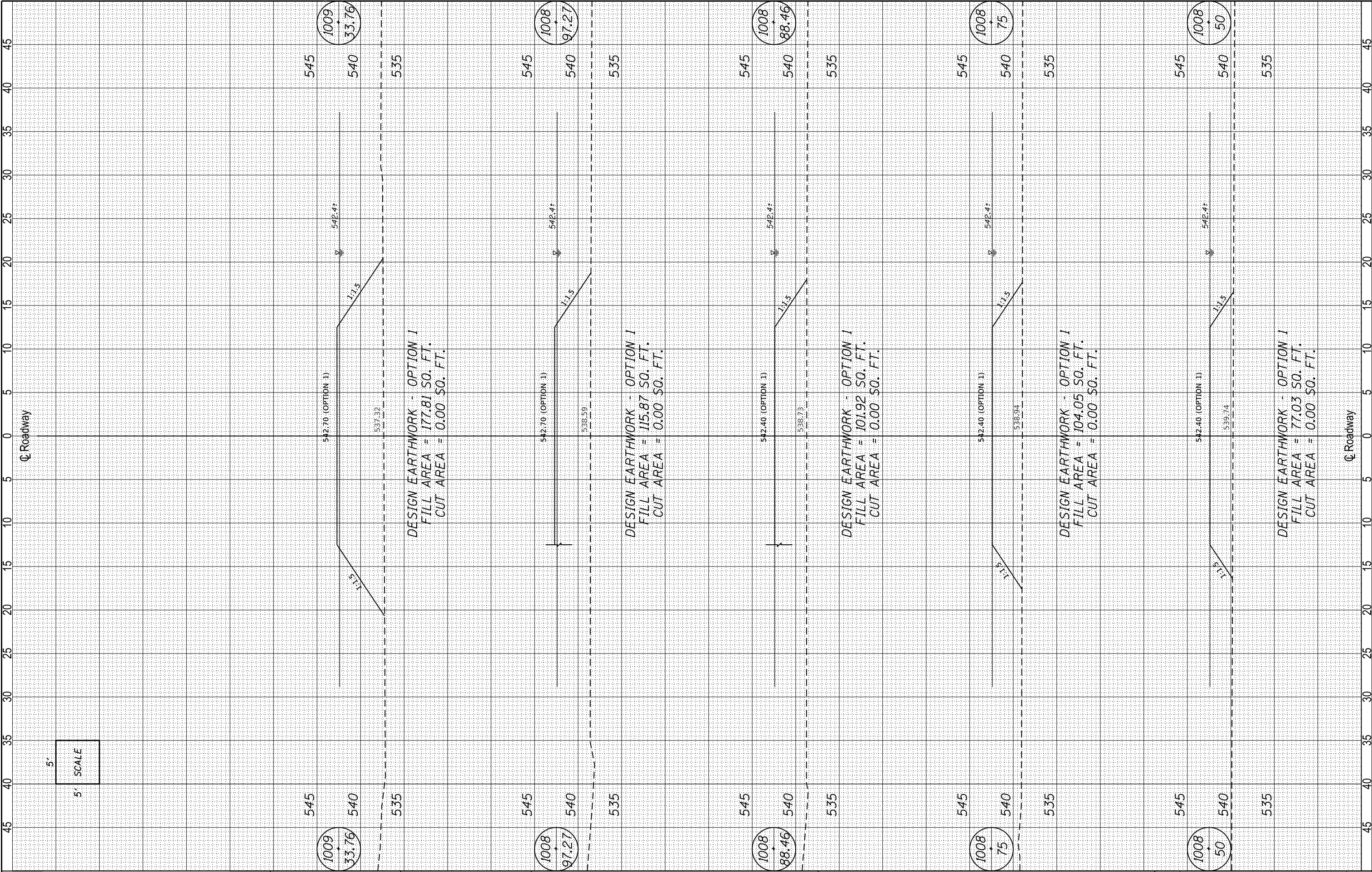
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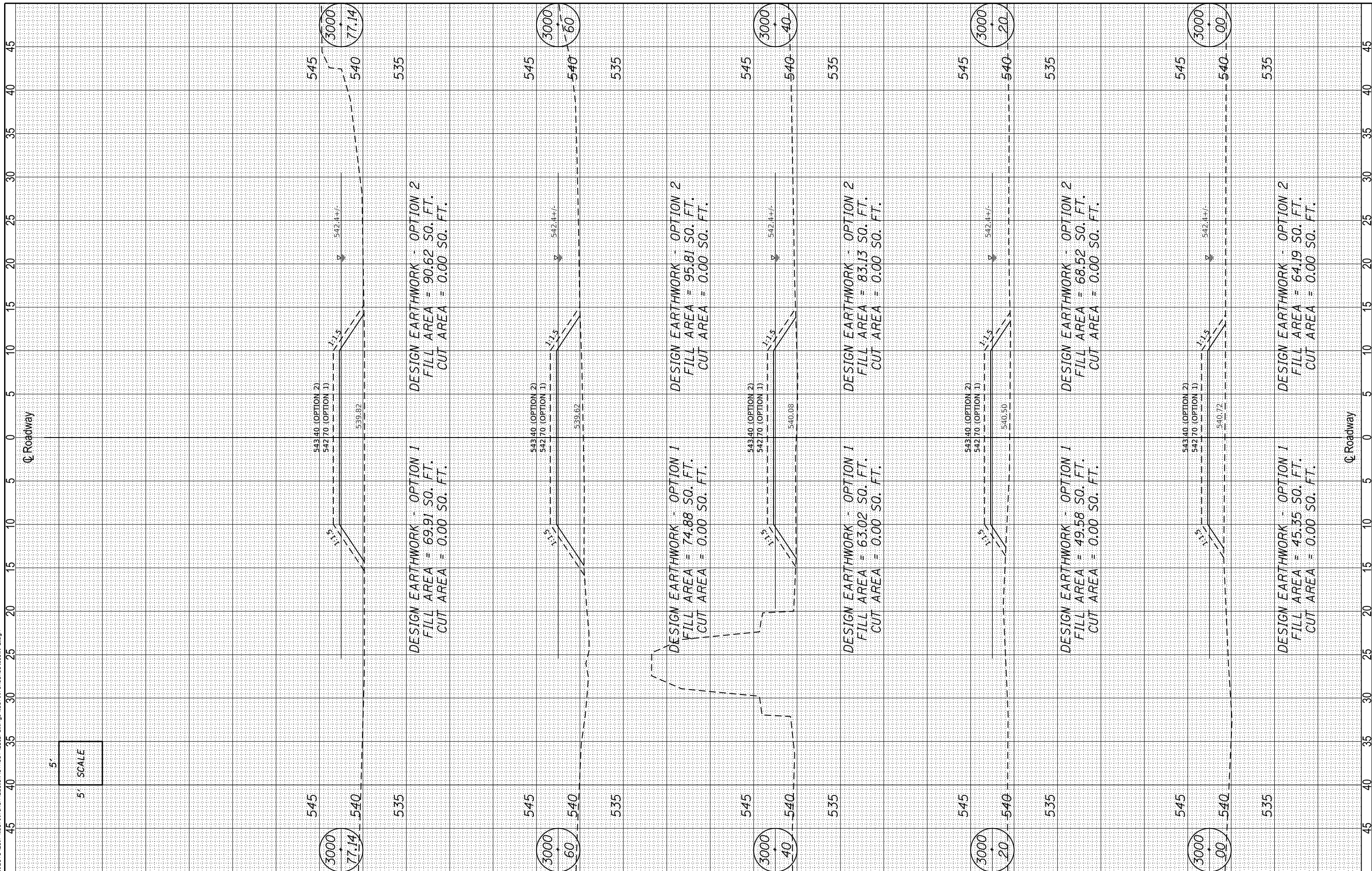
LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 1 & OPTION 2 - SOUTH)

SHEET NO. 3 OF 5 SHEETS

FAS RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR		LASALLE	93	86
	17-00142-00-BR		KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683					





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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20+00**

CROSS SECTIONS
CAUSEWAY (OPTION 1 & OPTION 2 - SOUTH)
SIDE SPUR (SOUTH PIER)

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	87
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

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

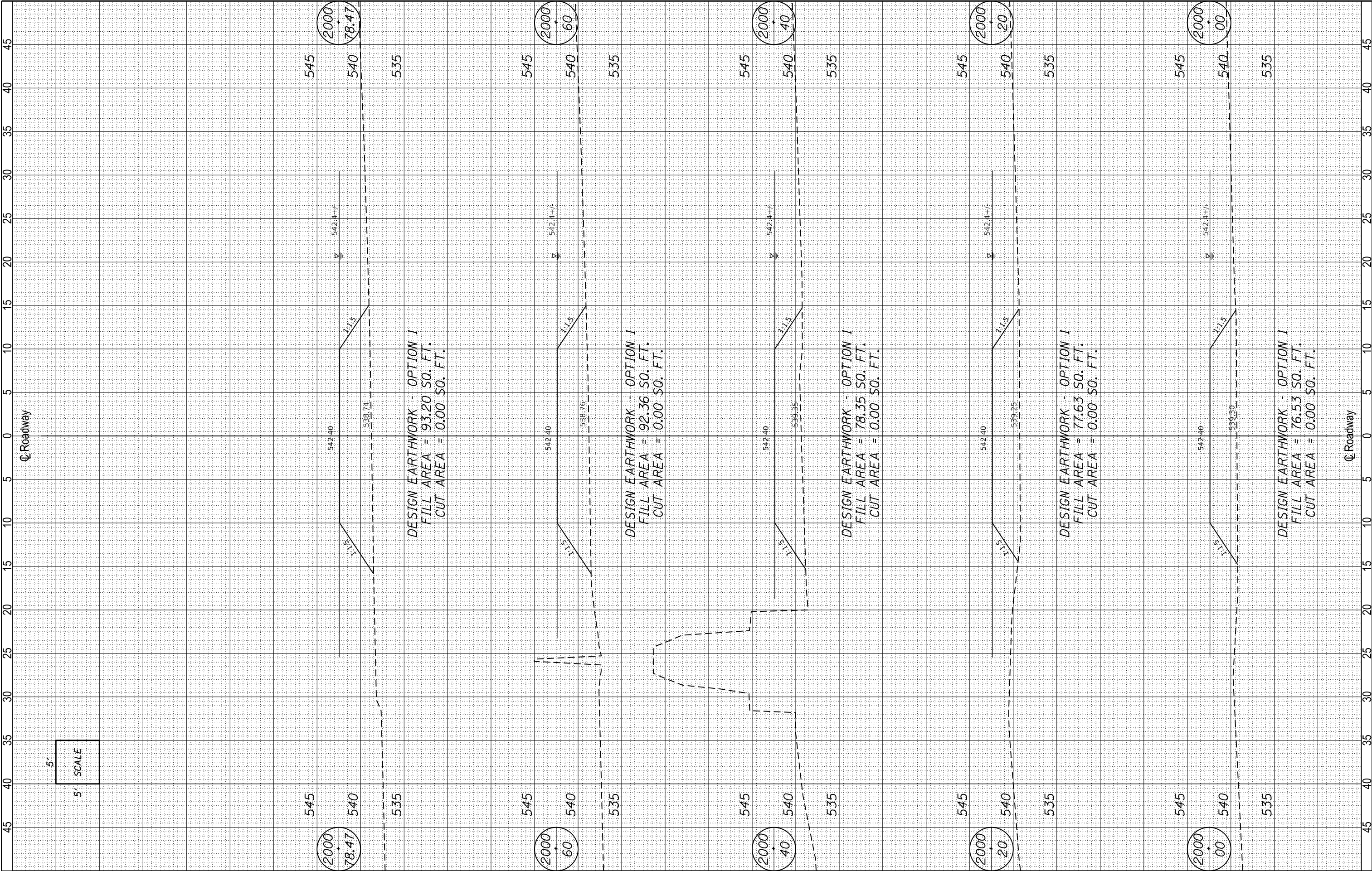
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DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
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REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 1)
SIDE SPUR (NORTH PIER)
SHEET NO. 5 OF 5 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	88
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				



FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\STRUCT\2D Drawings\1087J17_XSSheets_CW_3R.dgn



**WILLETT HOFMANN
& ASSOCIATES INC.**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-00018

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
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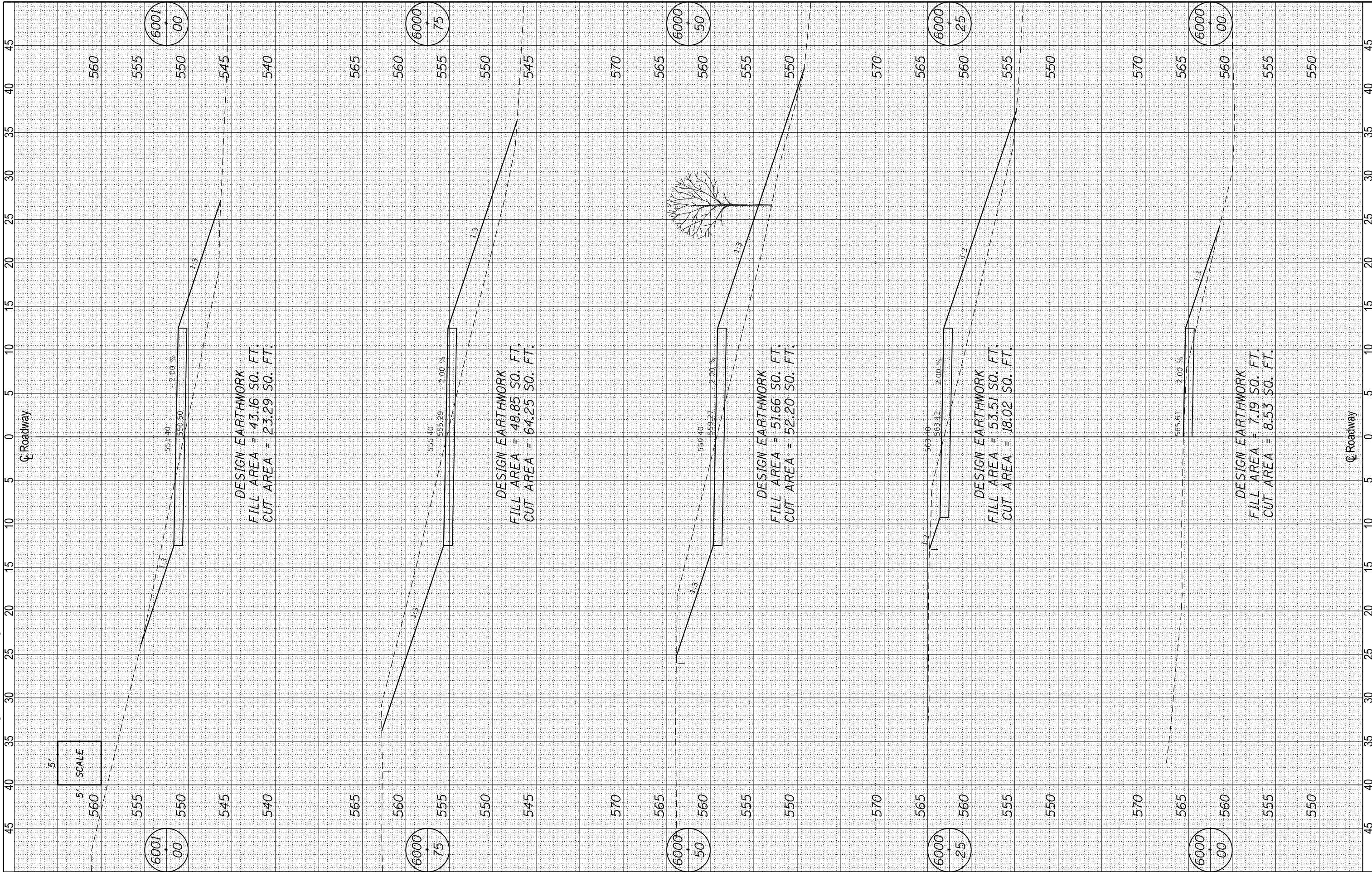
REVISED	-
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REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
TEMPORARY ACCESS ROAD (NORTH)
SHEET NO. 1 OF 2 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	89
	17-00142-00-BR	KENDALL		

WHA# 1087J17|ILLINOIS|FED. AID PROJECT WZPE(199)|CONTRACT NO. 87683



FILE : S:\PROJECTS\2017\1087J17_KCH\DESIGN\STRUCT\2D Drawings\1087J17_XSSheets_CW_3R.dgn



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

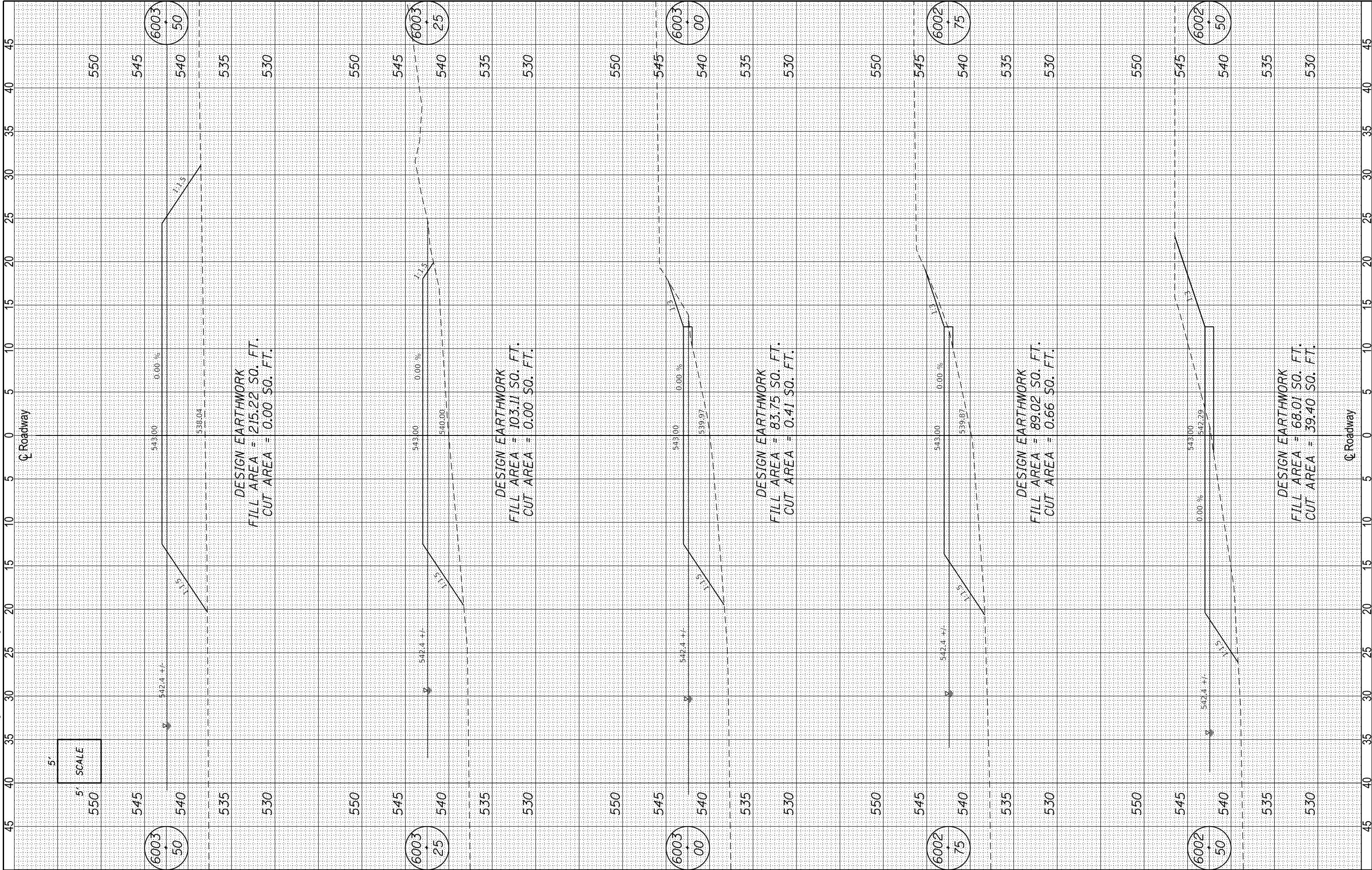
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CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 2 - NORTH)
SHEET NO. 1 OF 3 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	91
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

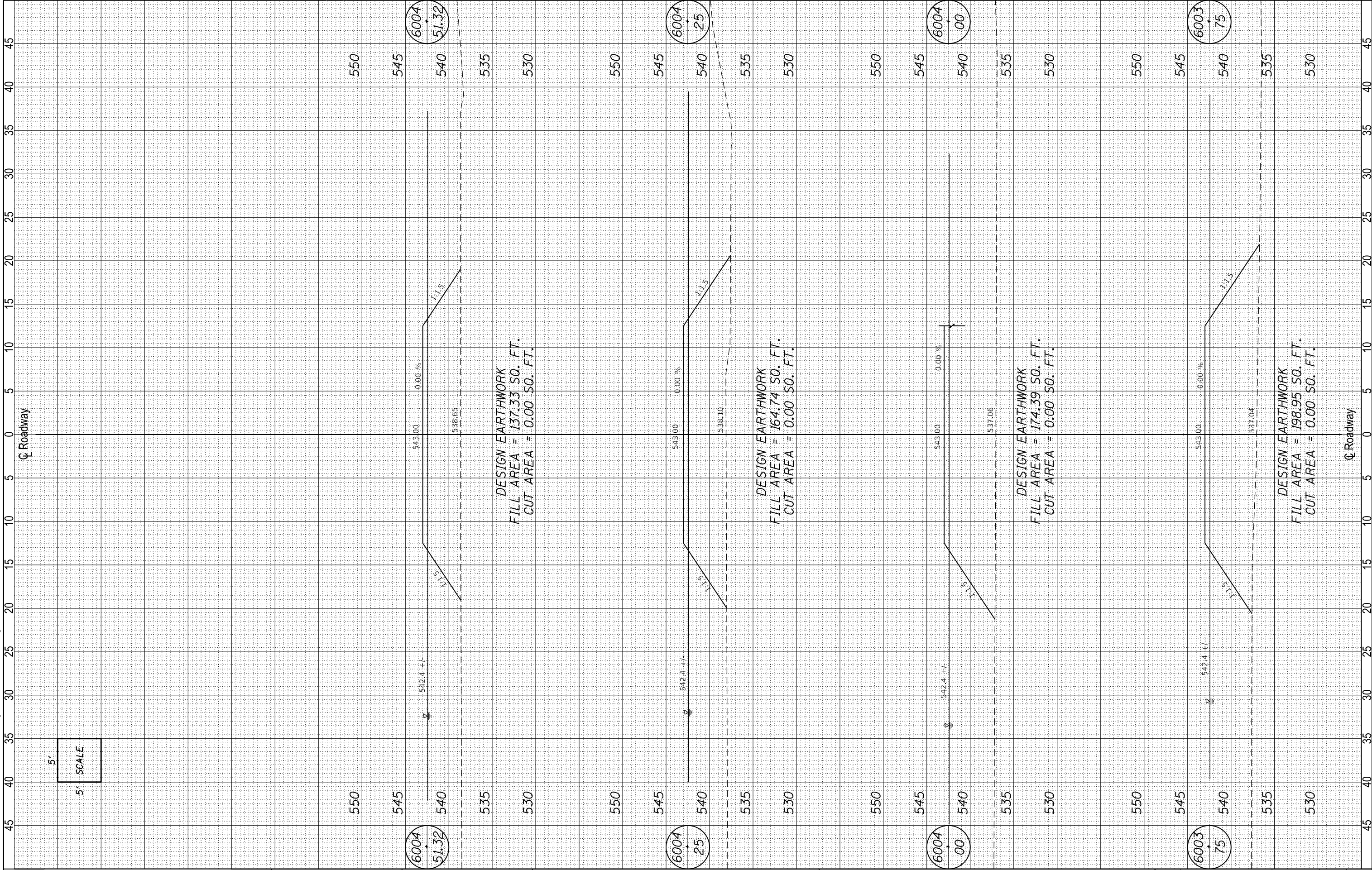
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REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 2 - NORTH)

SHEET NO. 2 OF 3 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	92
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				



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

DESIGNED	-	MAH
CHECKED	-	GFS
DRAWN	-	MAH
CHECKED	-	GFS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

LASALLE & KENDALL COUNTY
FAS 171(CH 3-MILLINGTON RD) OVER FOX RIVER
STATION 20 + 00

CROSS SECTIONS
CAUSEWAY (OPTION 2 - NORTH)
SIDE SPUR (NORTH PIER)
SHEET NO. 3 OF 3 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171	17-00802-00-BR	LASALLE	93	93
	17-00142-00-BR	KENDALL		
WHA# 1087J17 ILLINOIS FED. AID PROJECT WZPE(199) CONTRACT NO. 87683				

