

INDEX OF SHEETS: 09-22-2017 LETTING ITEM 046

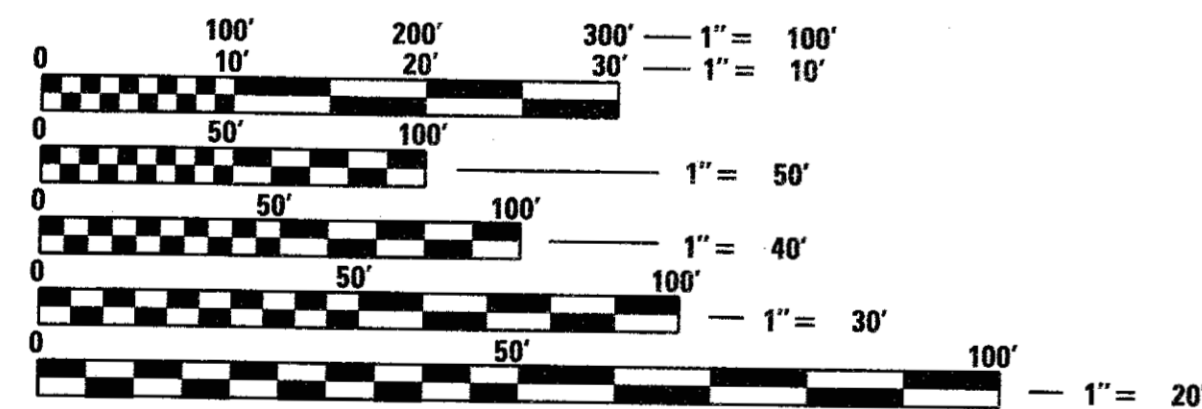
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- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES:

NONE



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: BSK
PROJECT MANAGER: BKC

CONTRACT NO. 87644

FUNCTIONAL CLASSIFICATION
LOCAL ROAD (NON-URBAN)
DESIGN SPEED 30 MPH
2017 ADT - 25
3R GUIDELINES

STATE OF ILLINOIS

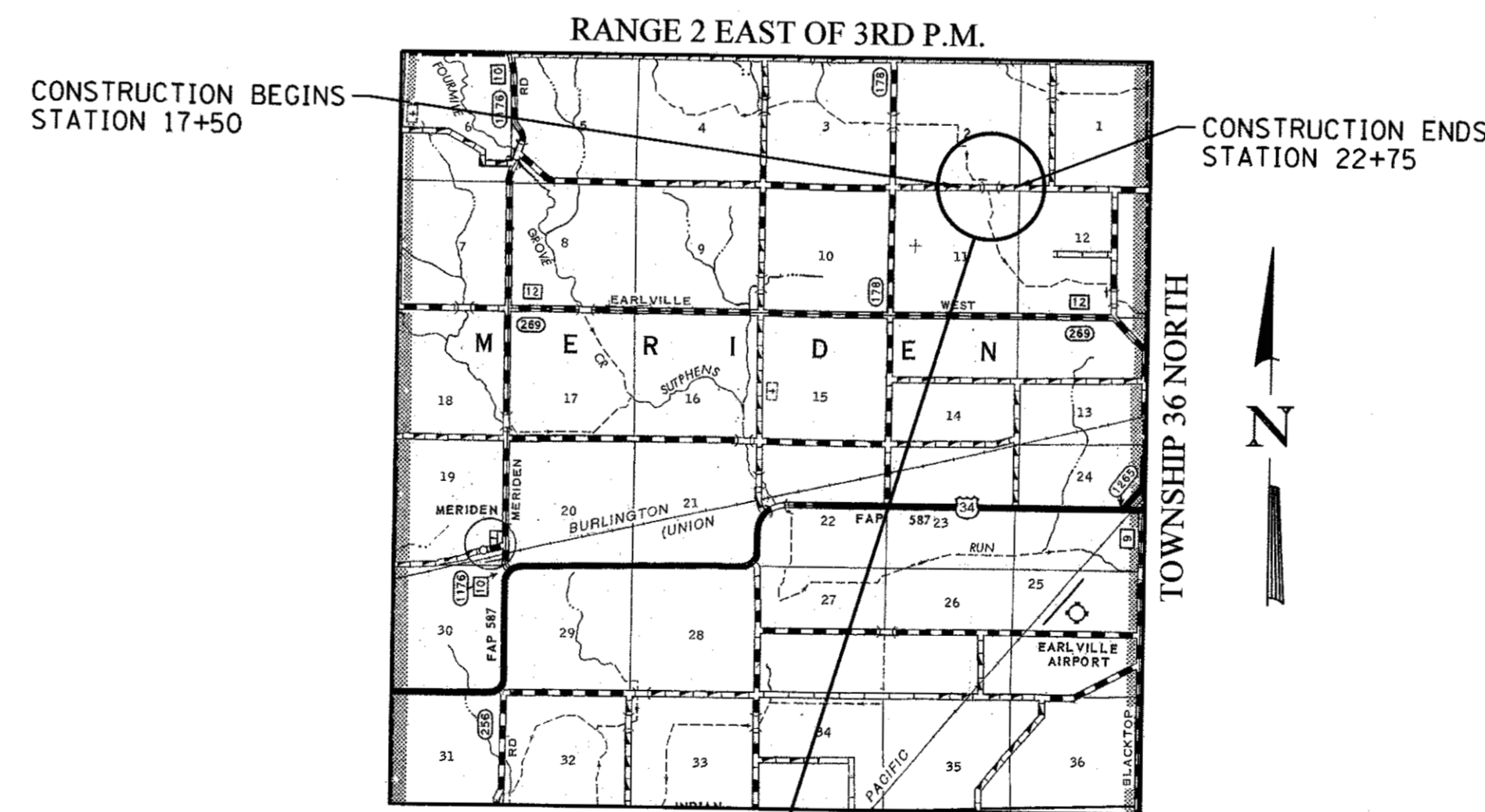
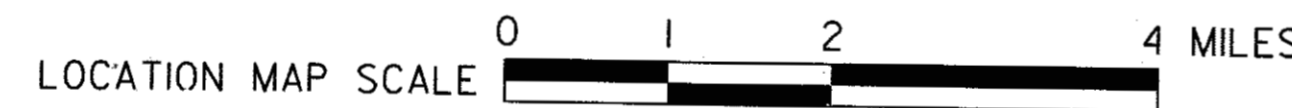
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID PROJECT SURFACE TRANSPORTATION RURAL - BRIDGE (FY-17)

TOWNSHIP ROUTE 19 (N 47TH ROAD)
SECTION 15-20771-00-BR
PROJECT NO. C1CQ(370)
STRUCTURE REPLACEMENT
MERIDEN TOWNSHIP
LASALLE COUNTY

C-93-045-16



PROPOSED STRUCTURE: S.N. 050-3603
A SINGLE SPAN (1@69'-8") PRECAST PRESTRESSED
CONCRETE DECK BEAM BRIDGE ON SPILL-THRU ABUTMENTS
AT STATION 20+00.00, SKEWED 45° RT AHEAD.

GROSS LENGTH = 525 FT. = 0.099 MILE
NET LENGTH = 525 FT. = 0.099 MILE

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	1
WHA* 1230015		CONTRACT NO. 87644		
ILLINOIS FED. AID PROJECT		C1CQ(370)		



LASALLE COUNTY HIGHWAY DEPARTMENT		
APPROVED	<i>10-18</i> <i>Dug Deloy</i>	2016
MERIDEN TOWNSHIP ROAD COMMISSIONER		
APPROVED	<i>10-18</i> <i>Lawrence S. Kinn</i>	2016
LASALLE COUNTY ENGINEER		
PASSED	<i>11-9</i> <i>David R. E. D.</i>	2016
DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER		
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>11-9</i> <i>Kevin Mardle</i>	2016
REGION 2 ENGINEER		



Brian K. Converse
DATE: 10/17/2016
EXPIRES 11/30/17

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

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0011

PAY CODE	QUANTITY	UNIT	ITEM
20100110	10	UNIT	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
20300100	610	CU YD	CHANNEL EXCAVATION
28000250	51	POUND	TEMPORARY EROSION CONTROL SEEDING
28000305	30	FOOT	TEMPORARY DITCH CHECKS
28000400	643	FOOT	PERIMETER EROSION BARRIER
28000500	1	EACH	INLET AND PIPE PROTECTION
*40200800	674	TON	AGGREGATE SURFACE COURSE, TYPE B
50100100	1	EACH	REMOVAL OF EXISTING STRUCTURES
50105220	137	FOOT	PIPE CULVERT REMOVAL
50200100	198	CU YD	STRUCTURE EXCAVATION
50300225	39.0	CU YD	CONCRETE STRUCTURES
50300280	5.4	CU YD	CONCRETE ENCASEMENT
50400505	1,672	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)
50800205	4,360	POUND	REINFORCEMENT BARS, EPOXY COATED
+*50901050	143	FOOT	STEEL RAILING, TYPE SM
51200957	315	FOOT	FURNISHING METAL SHELL PILES 12" x 0.250"
51202305	315	FOOT	DRIVING PILES
51203200	2	EACH	TEST PILE METAL SHELLS
51500100	1	EACH	NAME PLATES
54210202	1	EACH	PIPE ELBOW, 60"
54213915	2	EACH	STEEL END SECTIONS 60"
*542D0265	100	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 60"
63200310	176	FOOT	GUARDRAIL REMOVAL
67100100	1	L SUM	MOBILIZATION
+72501000	4	EACH	TERMINAL MARKER - DIRECT APPLIED
Z0013798	1	L SUM	CONSTRUCTION LAYOUT
*X2020410	290	CU YD	EARTH EXCAVATION (SPECIAL)
*X2810210	1,084	TON	STONE RIPRAP, CLASS A5 (SPECIAL)
*X5860110	88	CU YD	GRANULAR BACKFILL FOR STRUCTURES
*X7010216	1	L SUM	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
*XX004446	2,463	SQ YD	SEEDING, CLASS 2 SPECIAL

*SEE SPECIAL PROVISIONS.
+SPECIALTY ITEM

FILE: S:\PROJECTS\2815\2815.LCH\DESIGN\STRUCT\20.Draining\2815.Summary of Quantities.dgn



DESIGNED - BSK	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

SUMMARY OF QUANTITIES

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	2
WHA* 1230D15		CONTRACT NO. 87644		
ILLINOIS FED. AID PROJECT C17a (370)				

GENERAL NOTES:

EXISTING WELLS SHALL BE SEALED IN ACCORDANCE WITH SECTION 672 OF THE STANDARD SPECIFICATIONS, AND EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OR SECTION 672, AS APPLICABLE, OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

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

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

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

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

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

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

NONE FOUND.

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

A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

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.

EXISTING TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

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

COMMITMENTS:

U.S. ARMY CORPS OF ENGINEERS:

ALL TREE CLEARING ACTIVITIES SHALL OCCUR OUTSIDE THE BREEDING SEASON OF THE NORTHERN LONG-EARED BAT AND INDIANA BAT WHICH EXTENDS FROM APRIL 1 TO SEPTEMBER 30.

ILLINOIS DEPARTMENT OF TRANSPORTATION:

ALL TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 TO SEPTEMBER 30.

IF CONSTRUCTION ACTIVITY IS PLANNED DURING THE ACTIVE BAT SEASON (APRIL 1 TO SEPTEMBER 30) A FINAL INSPECTION OF THE BRIDGE SHALL BE DONE NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY TO ENSURE BATS HAVE NOT STARTED TO USE THE EXISTING BRIDGE.

SCHEDULE OF QUANTITIES

TREE REMOVAL (6 TO 15 UNITS DIAMETER)		
STATION	UNIT	REMARKS
TR 19 (N 47TH RD)		
STA. 20+83.00	10	55' LT
PROJECT TOTAL	10	

SCHEDULE OF QUANTITIES - CONT.

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 17+50.00 - 19+55.22	7	100 LBS./ACRE
LT. STA. 18+93.70 - 20+43.21	5	100 LBS./ACRE
LT. STA. 20+36.47 - 22+75.00	19	100 LBS./ACRE
RT. STA. 17+50.00 - 17+92.50	1	100 LBS./ACRE
RT. STA. 18+16.50 - 20+31.59	7	100 LBS./ACRE
RT. STA. 20+38.74 - 22+13.50	10	100 LBS./ACRE
RT. STA. 22+37.50 - 22+75.00	2	100 LBS./ACRE
PROJECT TOTAL	51	

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 20+82	10	
LT. STA. 21+25	10	
LT. STA. 22+00	10	
PROJECT TOTAL	30	

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 17+50.00 - 19+00.00	150	
RT. STA. 17+50.00 - 17+92.50	43	
RT. STA. 18+16.50 - 20+30.70	227	
RT. STA. 20+38.80 - 22+13.50	185	
RT. STA. 22+37.50 - 22+75.00	38	
PROJECT TOTAL	643	

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 20+93.00	1	
PROJECT TOTAL	1	

SCHEDULE OF QUANTITIES - CONT.

AGGREGATE SURFACE COURSE, TYPE B		
STATION	TON	REMARKS
TR 19 (N 47TH RD)		
STA. 17+50.00 - 19+64.22	252	12"
STA. 20+35.78 - 22+75.00	306	12"
FER STA. 18+04.50	23	8"
FER STA. 22+25.50	30	8"
FEL STA. 20+67.50	63	8"
PROJECT TOTAL	674	

PIPE CULVERT REMOVAL

STATION	FOOT	REMARKS
TR 19 (N 47TH RD)		
FER STA. 18+04.50	20	12" CMP
STA. 20+55.50	71	54" CMP
FEL STA. 20+67.50	46	48" CMP
PROJECT TOTAL	137	

PIPE ELBOW, 60"

STATION	EACH	REMARKS
TR 19 (N 47TH RD)		
STA. 20+71.73	1	45°
PROJECT TOTAL	1	

STEEL END SECTIONS 60"

STATION	EACH	REMARKS
TR 19 (N 47TH RD)		
STA. 20+71.73	2	
PROJECT TOTAL	2	

PIPE CULVERTS, CLASS D, TYPE 1 60"

STATION	FOOT	REMARKS
TR 19 (N 47TH RD)		
STA. 20+71.73	100	
PROJECT TOTAL	100	



DESIGNED - BSK	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

GENERAL NOTES, SCHEDULE OF QUANTITIES & DETAILS

SHEET NO. 1 OF 2 SHEETS

TWP. RTE. 19	SECTION 15-20771-00-BR	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 3
WHA# 1230D15			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C1CQ (3%)				

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SCHEDULE OF QUANTITIES - CONT.

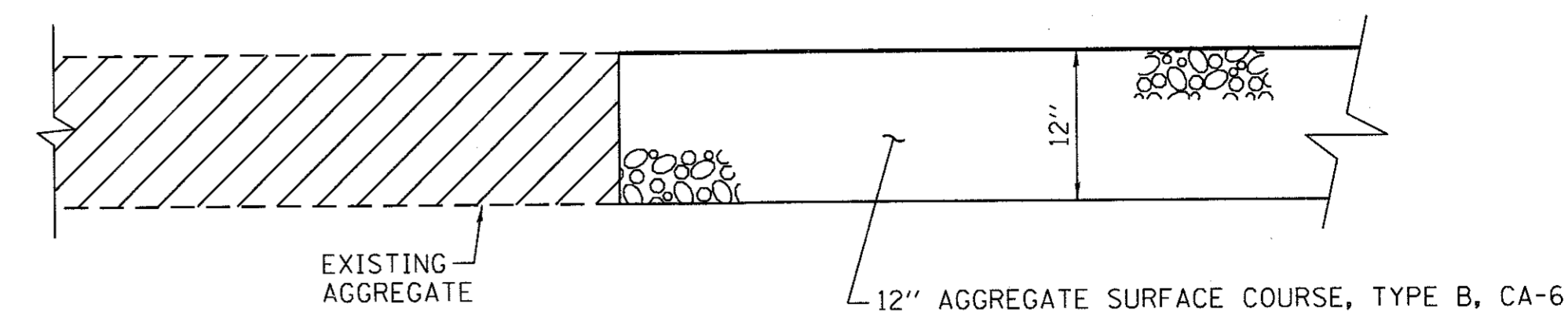
GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 19+15 - 19+66	51	
LT. STA. 20+08 - 20+28	25	
RT. STA. 19+41 - 19+91	50	
RT. STA. 20+34 - 20+84	50	
PROJECT TOTAL	176	

TERMINAL MARKER - DIRECT APPLIED		
STATION	EACH	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 19+52.26	1	
LT. STA. 20+23.78	1	
RT. STA. 19+76.19	1	
RT. STA. 20+47.78	1	
PROJECT TOTAL	4	

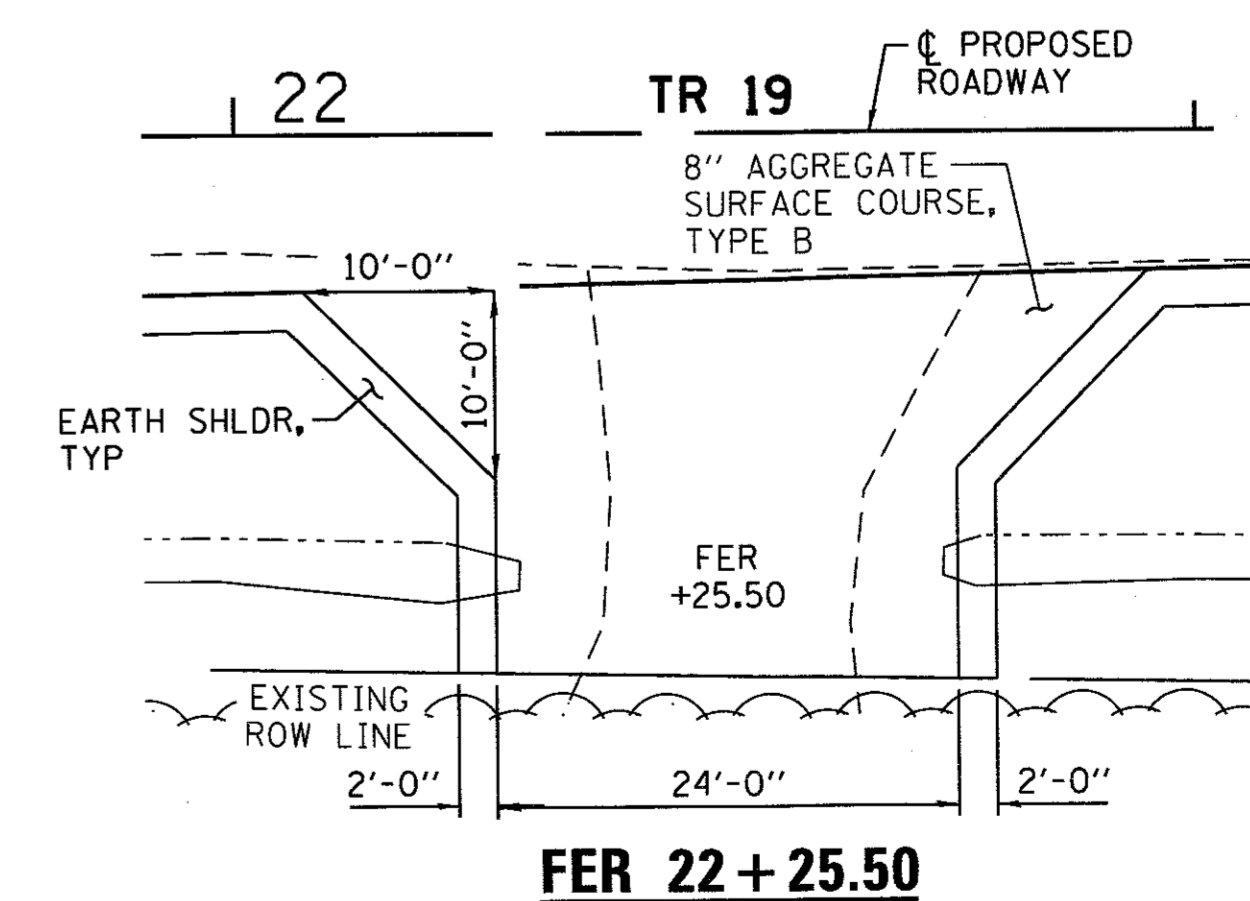
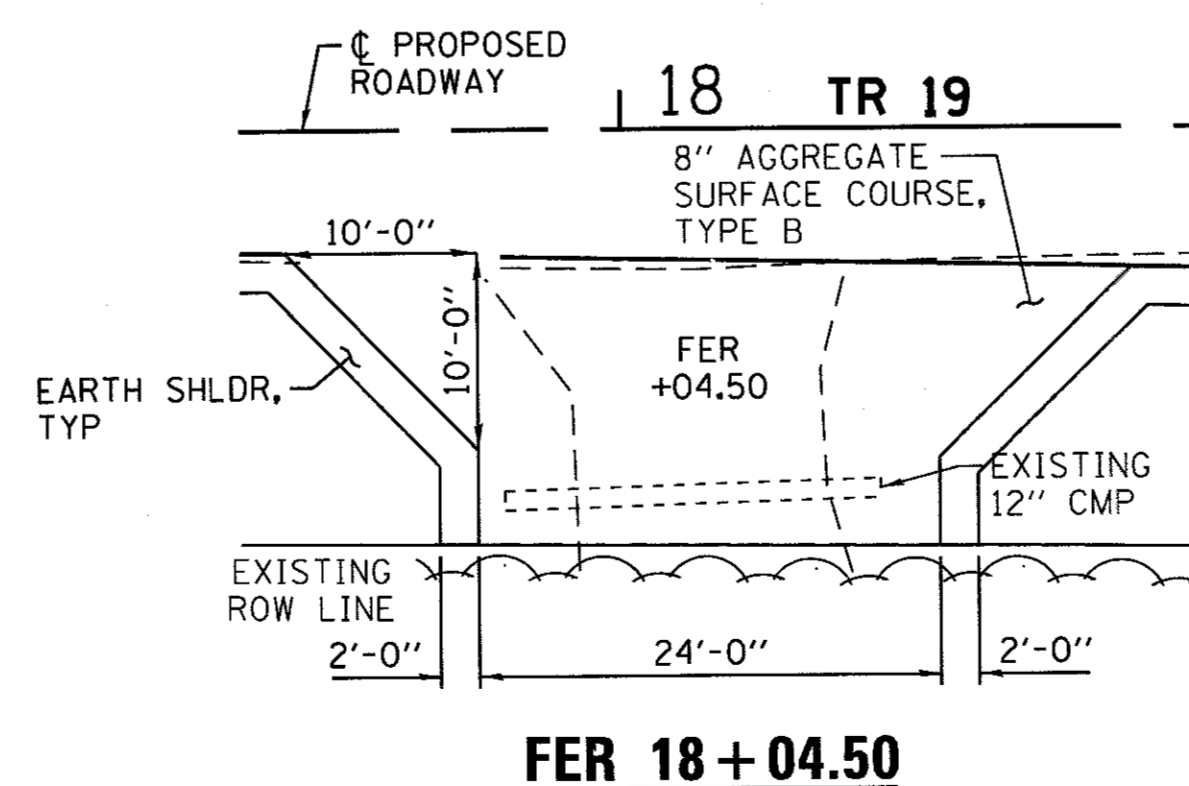
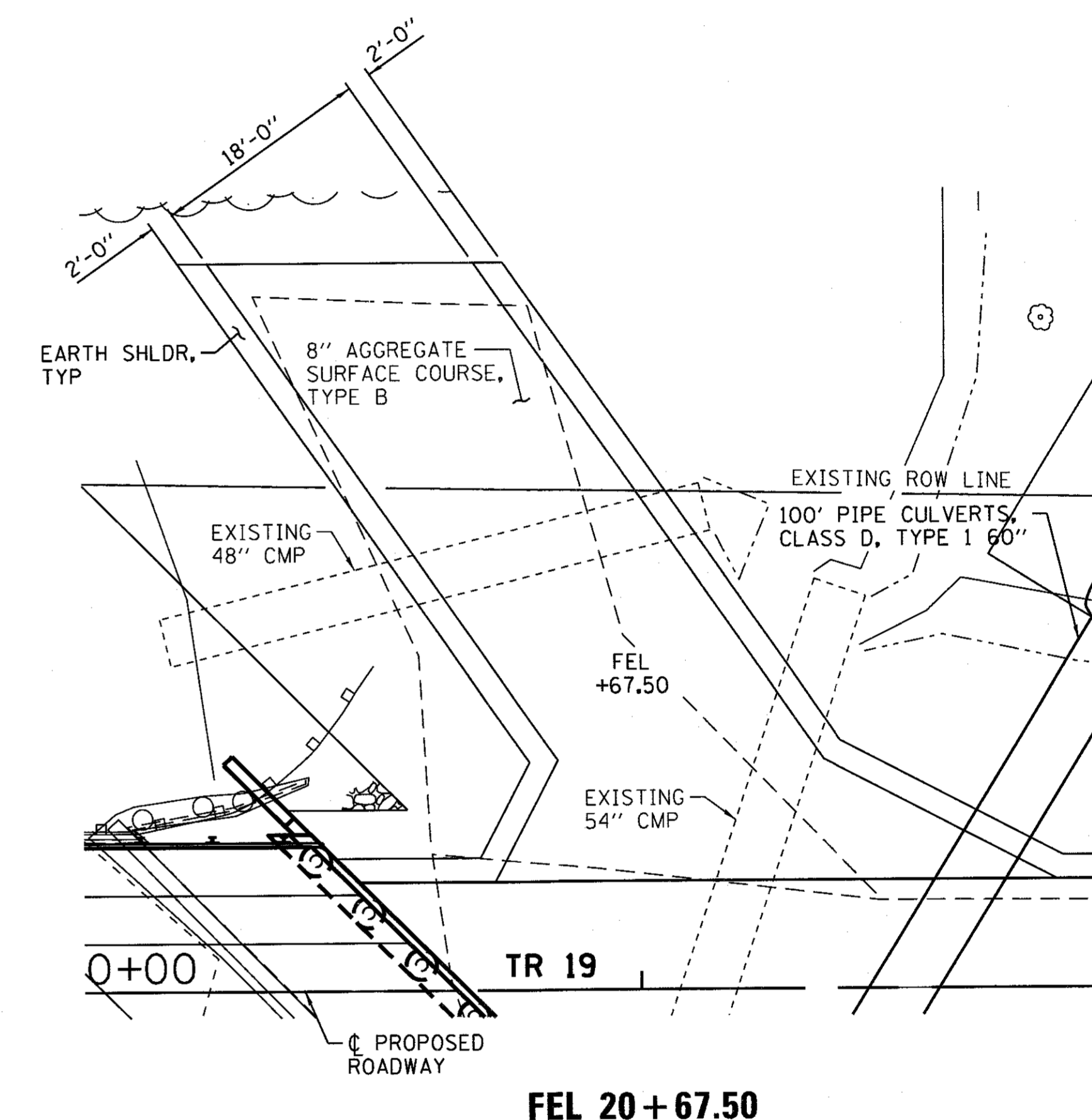
STONE RIPRAP, CLASS A5 (SPECIAL)		
STATION	TON	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 20+78.92 - 21+09.38	71	
PROJECT TOTAL	71	

SEEDING, CLASS 2 SPECIAL		
STATION	SQ YD	REMARKS
TR 19 (N 47TH RD)		
LT. STA. 17+50.00 - 19+55.22	323	
LT. STA. 18+93.70 - 20+43.21	240	
LT. STA. 20+36.47 - 22+75.00	923	
RT. STA. 17+50.00 - 17+92.50	70	
RT. STA. 18+16.50 - 20+31.59	352	
RT. STA. 20+38.74 - 22+13.50	466	
RT. STA. 22+37.50 - 22+75.00	89	
PROJECT TOTAL	2,463	

TR 19 (N 47TH RD) EARTHWORK TOTALS					
EARTH EXCAVATION (SPECIAL)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	CHANNEL EXCAVATION	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE 62.5%	EARTHWORK BALANCE WASTE
CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
290	218	166	610	229	281



TYPICAL CORE JOINT DETAIL
STATION 17+50 & 22+75



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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

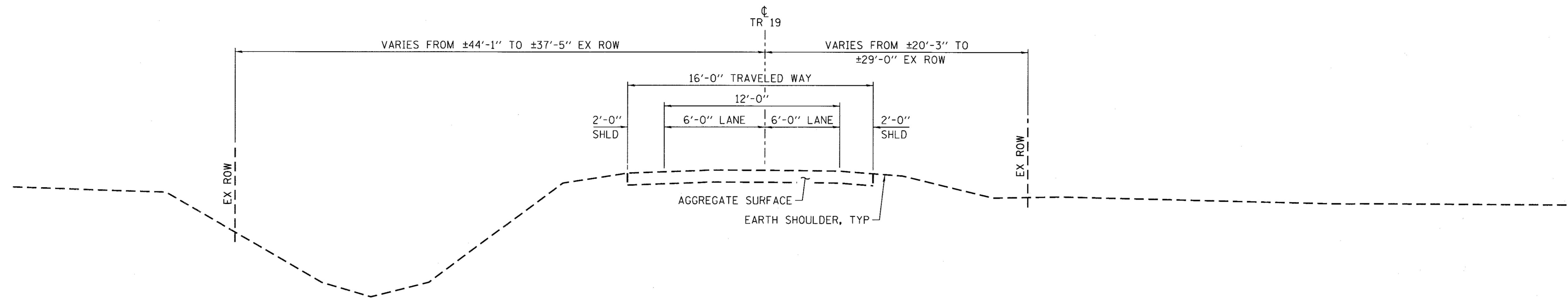
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

GENERAL NOTES, SCHEDULE OF QUANTITIES & DETAILS

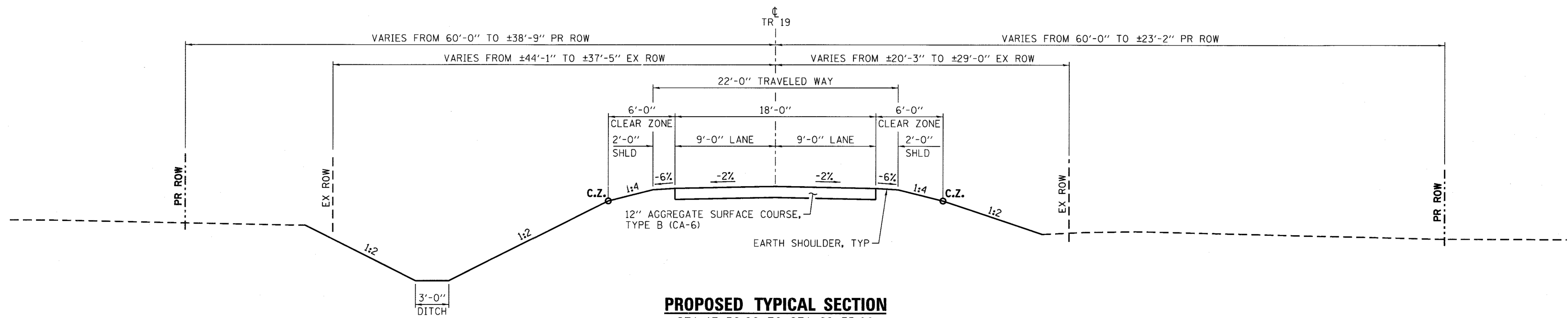
SHEET NO. 2 OF 2 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	4
WHA* 1230D15			CONTRACT NO. 87644	
[ILLINOIS] FED. AID PROJECT 21C(376)				

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EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION
STA 17+50.00 TO STA 22+75.00

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DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

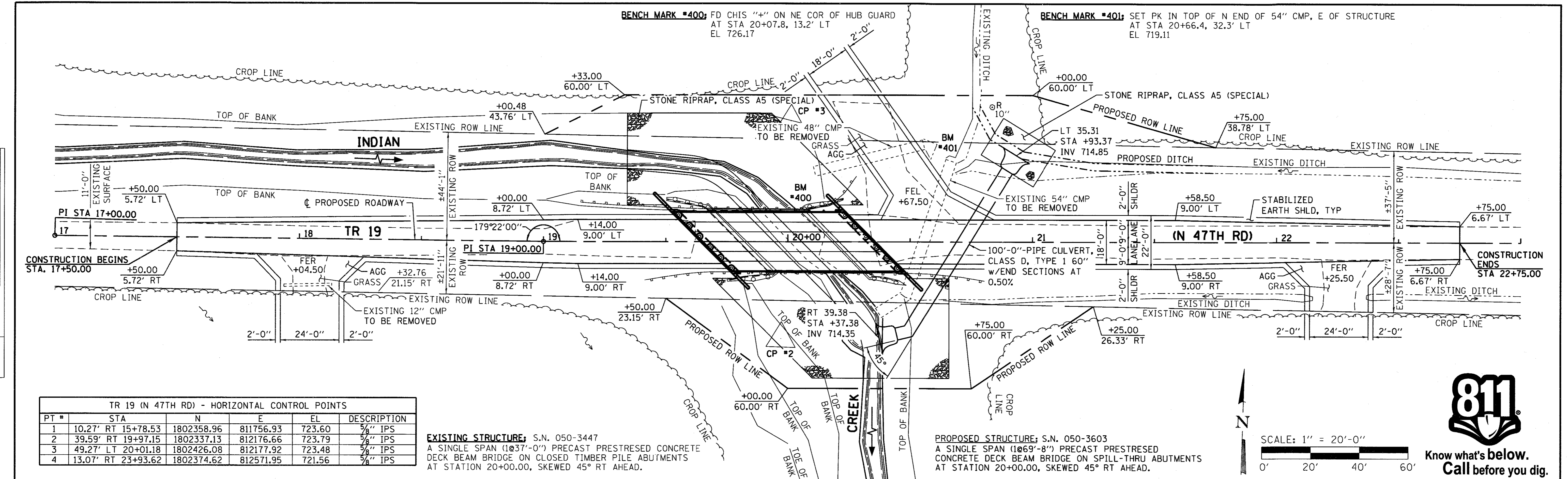
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

TYPICAL SECTIONS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	5
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C2CQ (376)				

PLAN	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
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DATE	

PROFILE	DATE
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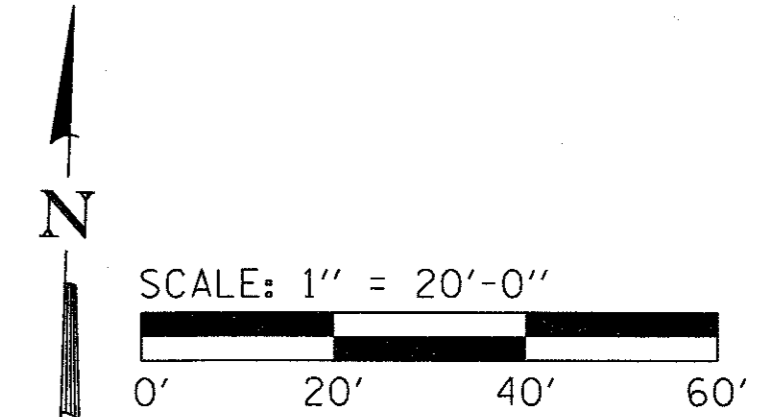


TR 19 (N 47TH RD) - HORIZONTAL CONTROL POINTS

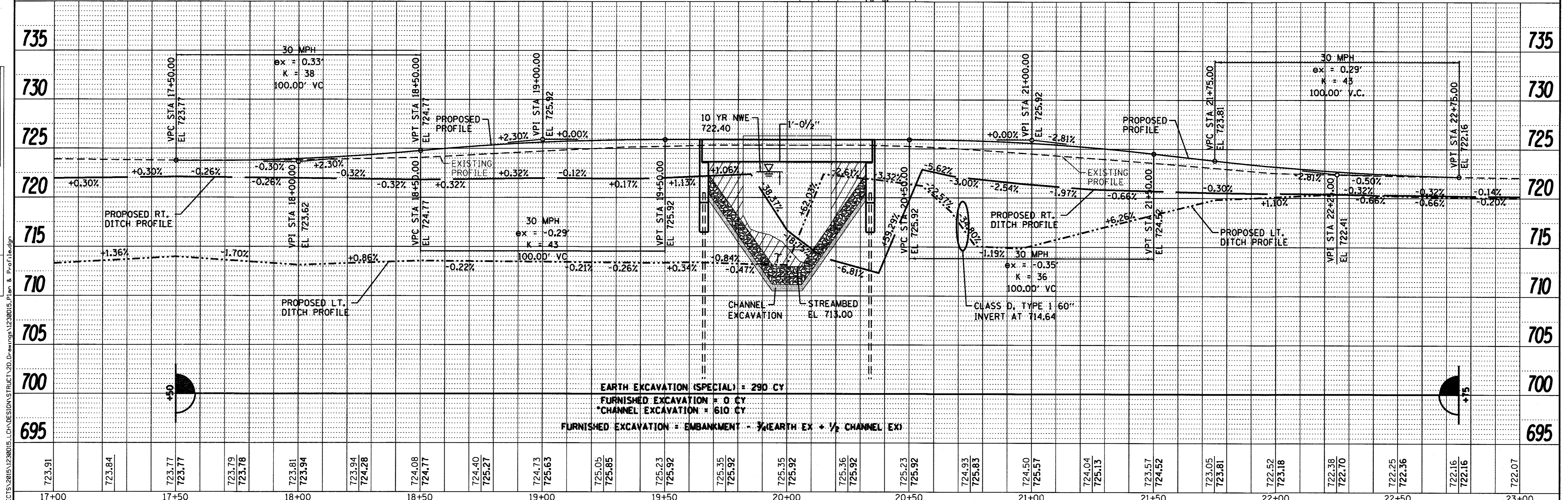
PT #	STA	N	E	EL	DESCRIPTION
1	10.27' RT 15+78.53	1802358.96	811756.93	723.60	5/8" IPS
2	39.59' RT 19+97.15	1802337.13	812176.66	723.79	5/8" IPS
3	49.27' LT 20+01.18	1802426.08	812177.92	723.48	5/8" IPS
4	13.07' RT 23+93.62	1802374.62	812571.95	721.56	5/8" IPS

EXISTING STRUCTURE: S.N. 050-3447
 A SINGLE SPAN (1037'-0") PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CLOSED TIMBER PILE ABUTMENTS AT STATION 20+00.00, SKEWED 45° RT AHEAD.

PROPOSED STRUCTURE: S.N. 050-3603
 A SINGLE SPAN (1069'-8") PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON SPILL-THRU ABUTMENTS AT STATION 20+00.00, SKEWED 45° RT AHEAD.



Know what's below.
 Call before you dig.

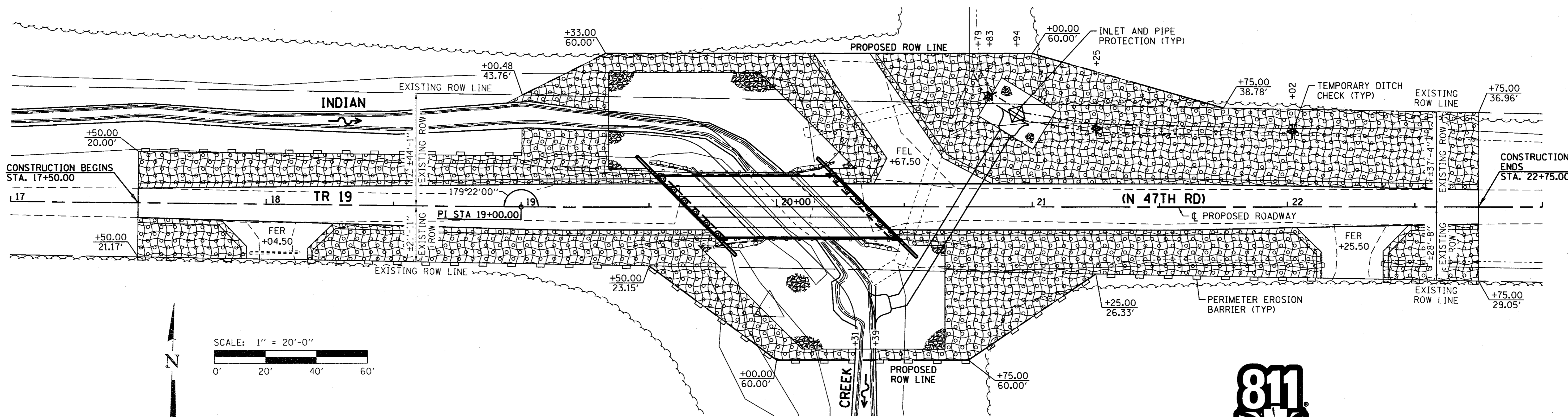


EARTH EXCAVATION (SPECIAL) = 290 CY
 FURNISHED EXCAVATION = 0 CY
 CHANNEL EXCAVATION = 610 CY
 FURNISHED EXCAVATION = EMBANKMENT + 1/2 EARTH EX + 1/2 CHANNEL EX

DESIGNED - BSK	REVISIONS	LASALLE COUNTY TR 19 (N 47TH RD) OVER INDIAN CREEK STATION 20+00	PLAN AND PROFILE	TWP. 19	SECTION 15-20771-00-BR	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 6	
CHECKED - BKC	REVISIONS			WHA# 1230D15		CONTRACT NO. 87644			
DRAWN - RDA	REVISIONS			SCALE: 1" = 20'-0"		SHEET NO. 1 OF 1 SHEETS		STA 17+00 TO STA 23+00	
CHECKED - BSK	REVISIONS			ILLINOIS FED. AID PROJECT C.C.C. (370)					



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PLAN VIEW



Know what's below.
Call before you dig.

EROSION CONTROL NOTES

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2" OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.

PERIMETER EROSION BARRIER SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN AND IN ACCORDANCE WITH STATIONS SHOWN ON THE SCHEDULE OF QUANTITIES SHEET OR AS DIRECTED BY THE ENGINEER.

SILT FENCE SHALL BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF ALL AREAS ADJACENT TO THE ON-SITE DRAINAGES. THE SILT FENCE WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

FOR SEEDING, CLASS 2 SPECIAL SEE SPECIAL PROVISIONS.

EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AND TO ALL DISTURBED AREAS AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

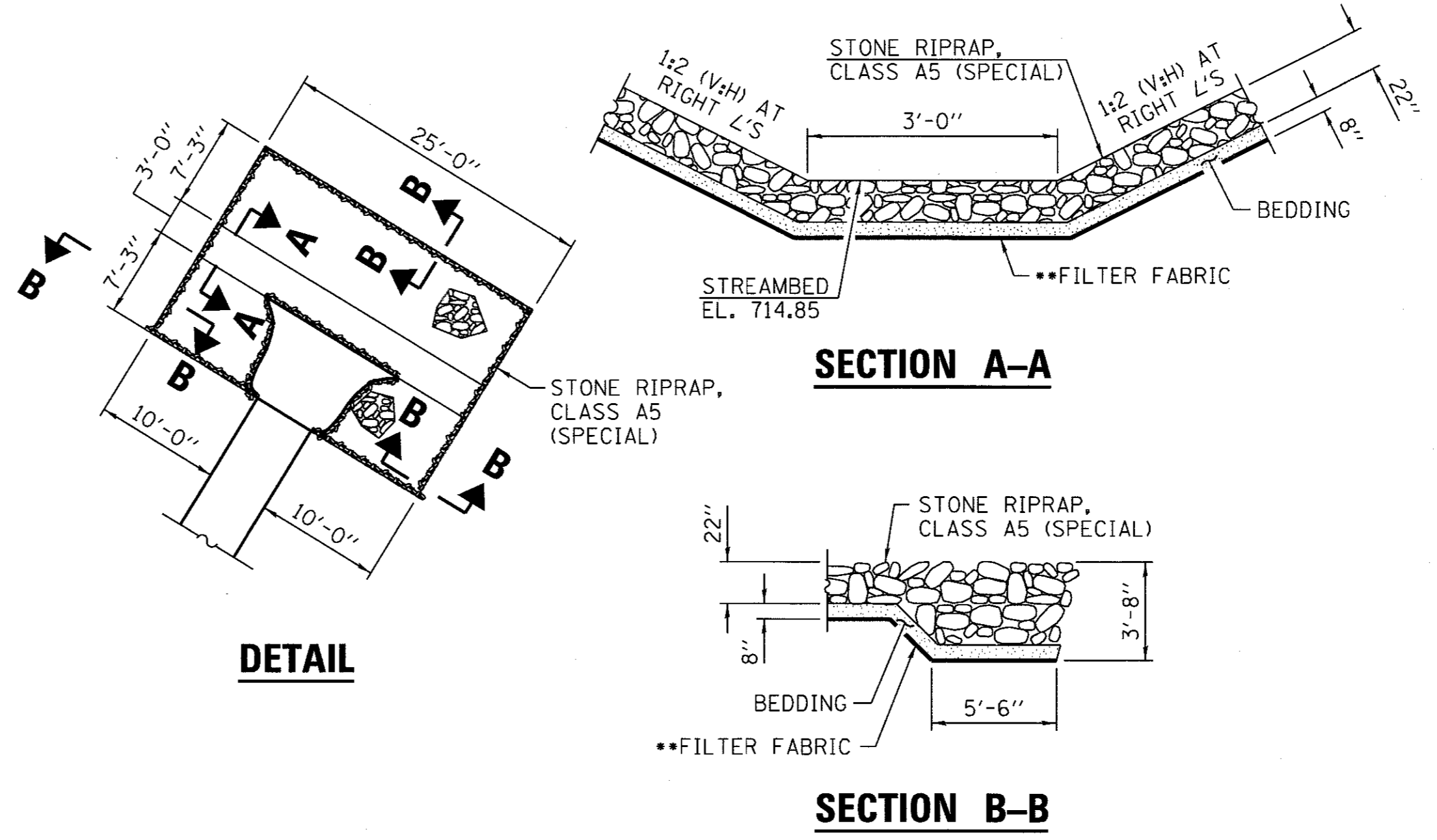
THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.

TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001-07.

TEMPORARY DITCH CHECKS SHALL BE PLACED AT STATIONS CALLED OUT IN THE SCHEDULE OF QUANTITIES OR AS DIRECTED BY THE ENGINEER.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN 3 DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

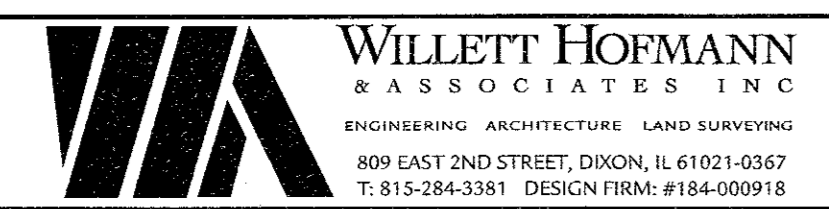
ALL ADJACENT ENTRANCES MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.



LEGEND

	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
	EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION
	SEEDING, CLASS 2 SPECIAL

FILE: S:\PROJECTS\2015\1230015.LCH\DESIGN\STRUCT\20.Dwg\1230015.Erosion_Control_Plan.dwg



DESIGNED - BSK	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

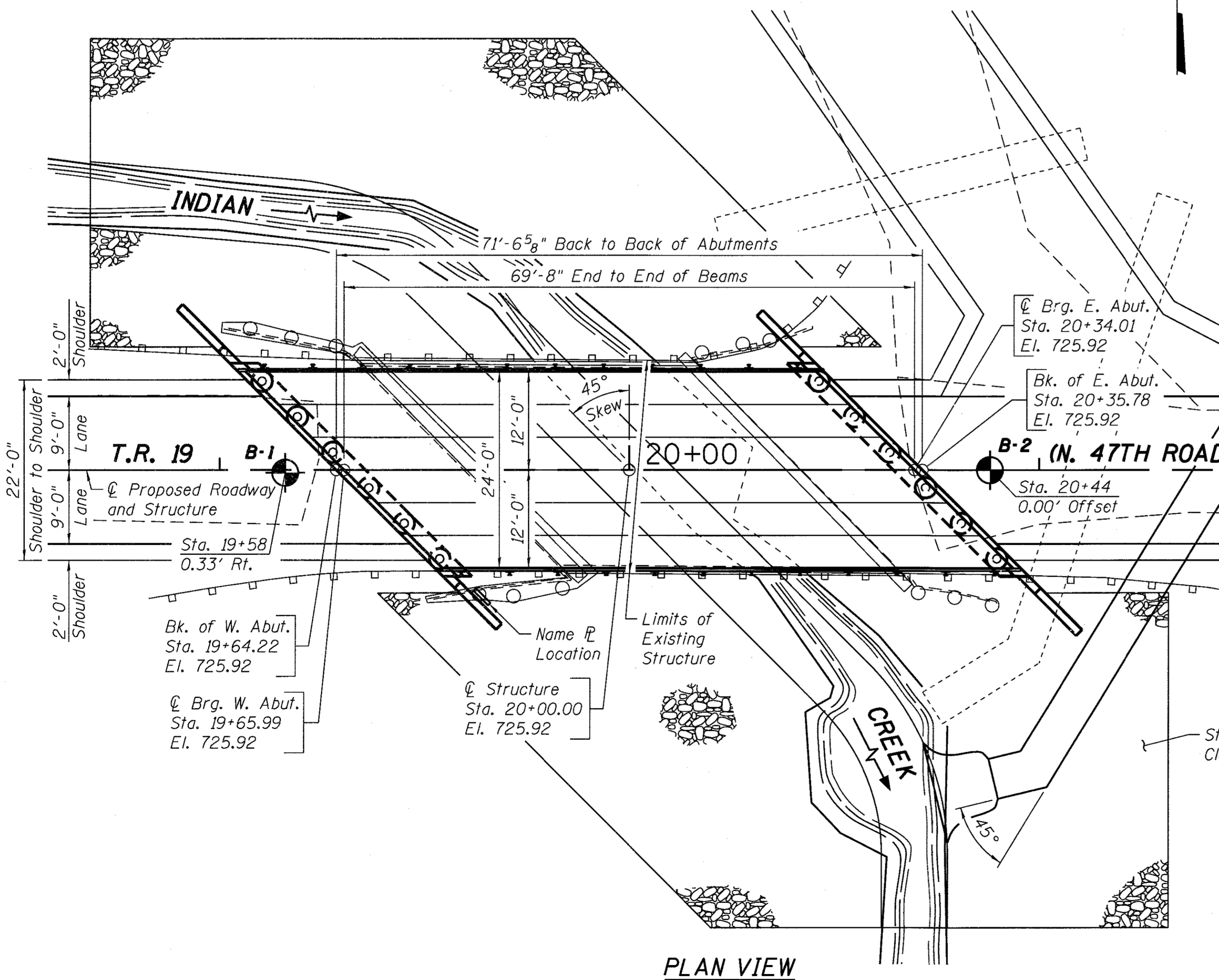
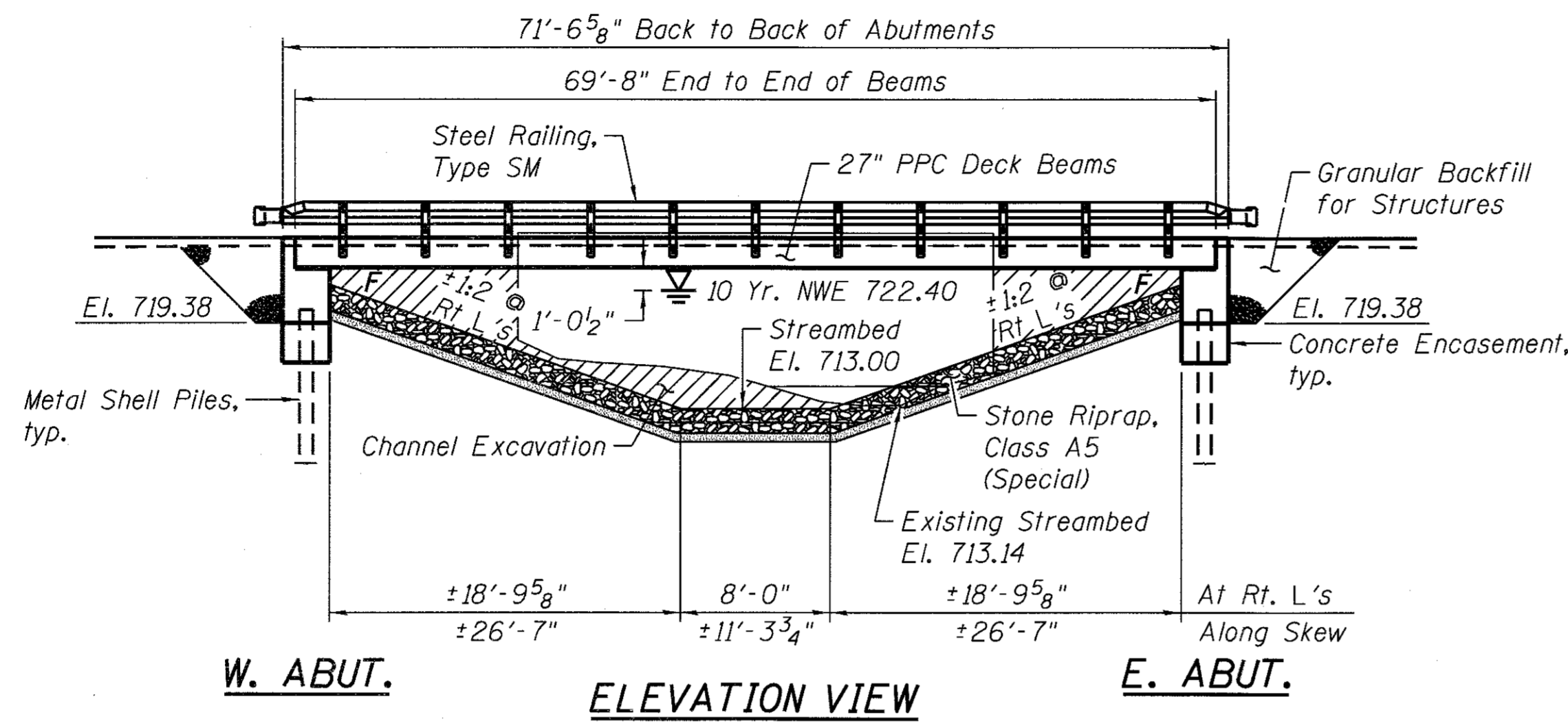
EROSION CONTROL PLAN
SCALE: 1" = 20'-0"
SHEET NO. 1 OF 1 SHEETS
STA. 17+00.00 TO STA. 23+00.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	7
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C.I.C.Q. (370)				

BENCH MARK: Chiseled "+" in Northeast Corner Hubguard on existing structure, El. 726.17

EXISTING STRUCTURE: S.N. 050-3447 built in 1977 under Meriden Twp. Section 75-20240-00-BR at Sta. 2+78.00 as a single span (43'-8" skewed 45° Rt. Ahead) precast, prestressed concrete deck beam bridge on precast concrete pile caps. The structure is supported on creosoted timber piles with closed timber abutments. 41'-9" end to end of beams and 26'-0" out to out of deck. Structure to be removed and replaced.

No salvage.



INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Riprap and Pile Layout
- 3 27" x 48" PPC Deck Beam
- 4 27" x 48" PPC Deck Beam Details
- 5 West Abutment Details
- 6 East Abutment Details
- 7 Steel Railing, Type SM Details
- 8 Metal Shell Pile Details
- 9-12 Boring Logs

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB	SUPER	TOTAL
Channel Excavation	Cu. Yd.	610	—	610
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu. Yd.	198	—	198
Concrete Structures	Cu. Yd.	39.0	—	39.0
Concrete Encasement	Cu. Yd.	5.4	—	5.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	—	1,672	1,672
Reinforcement Bars, Epoxy Coated	Pound	4,360	—	4,360
* Steel Railing, Type SM	Foot	—	143	143
Furnishing Metal Shell Piles 12" x 0.250"	Foot	315	—	315
Driving Piles	Foot	315	—	315
Test Pile Metal Shells	Each	2	—	2
Name Plates	Each	1	—	1
* Stone Riprap, Class A5 (Special)	Ton	1,013	—	1,013
* Granular Backfill for Structures	Cu. Yd.	88	—	88

GENERAL NOTES:

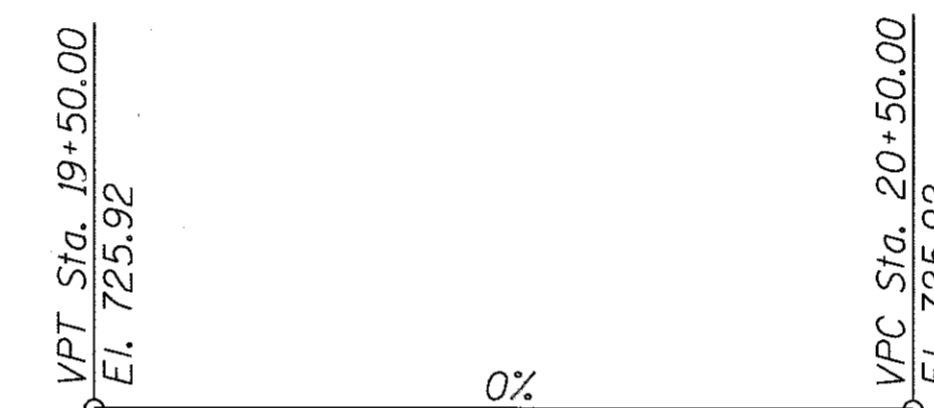
*See Special Provisions

Reinforcement bars designated (E) shall be epoxy coated.

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

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

The channel shall be transitioned to fit the proposed structure inside the Right of Way. Cost shall be included in price per Cubic Yard for Channel Excavation.



INDIAN CREEK
BUILT 2017 BY
LASALLE COUNTY
SECTION 15-20771-00-BR
TWP RTE 19 STATION 20+00
STR. NO. 050-3603 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001

WATERWAY INFORMATION

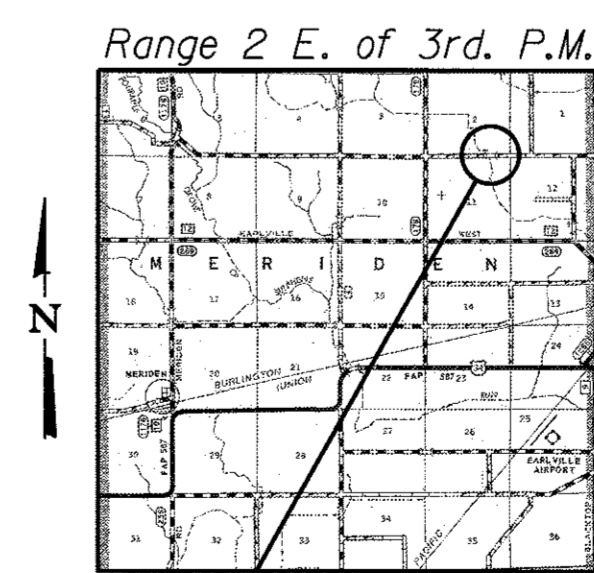
Drainage Area = 4.77 sq. mi. Low Grade El. 721.60 at Sta. 26+00.00

Flood	Freq. Yr.	Q CFS	Opening Sq. Ft.		Nat. HWE	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	563	183	252	722.40	0.0	0.0	722.40	722.40
Base	100	973	196	276	722.93	0.0	0.0	722.93	722.93
Scour Check	200	1,050	197	277	722.94	0.0	0.0	722.94	722.94
Max. Calc.	500	1,260	198	278	722.98	0.0	0.0	722.98	722.98

BRIDGE DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)			Item 113
	W. Abut.	E. Abut.	Item 113	
Design	720.13	720.13		8
Q100	720.13	720.13		
Q200	720.13	720.13		

GENERAL PLAN AND ELEVATION
T.R. 19 (N. 47TH ROAD) OVER INDIAN CREEK
SECTION 15-20771-00-BR
LASALLE COUNTY
STATION 20+00
STRUCTURE NO. 050-3603



Brian K. Conner
DATE: 10/17/2016
EXPIRES 11/30/16

"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 Bridge Design Specifications."

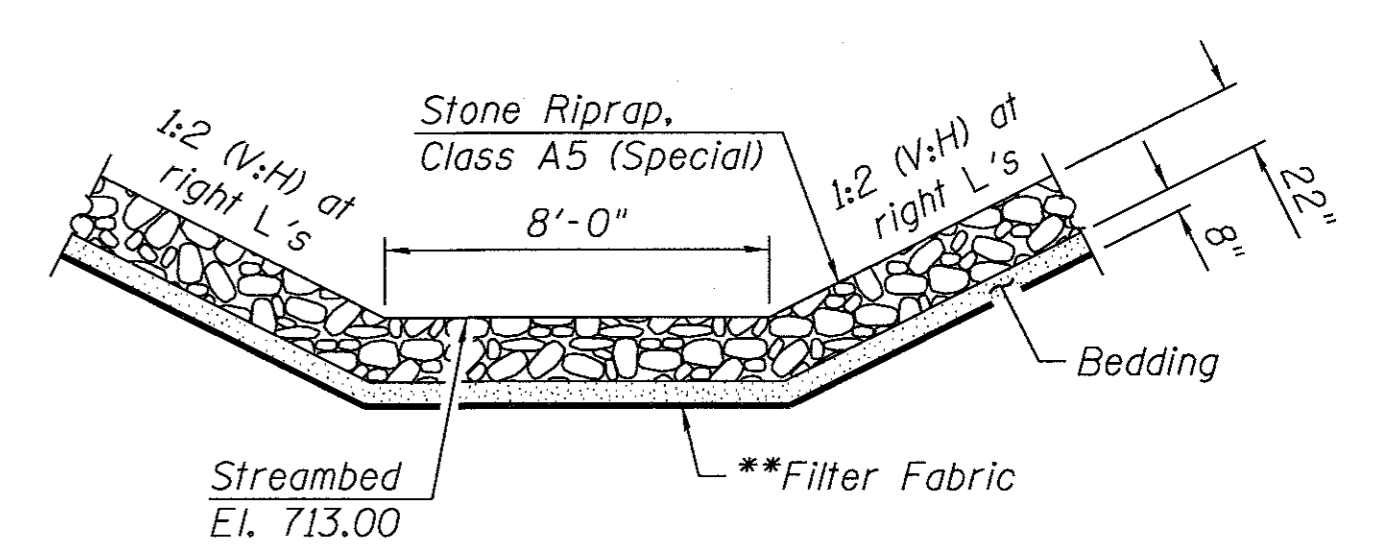
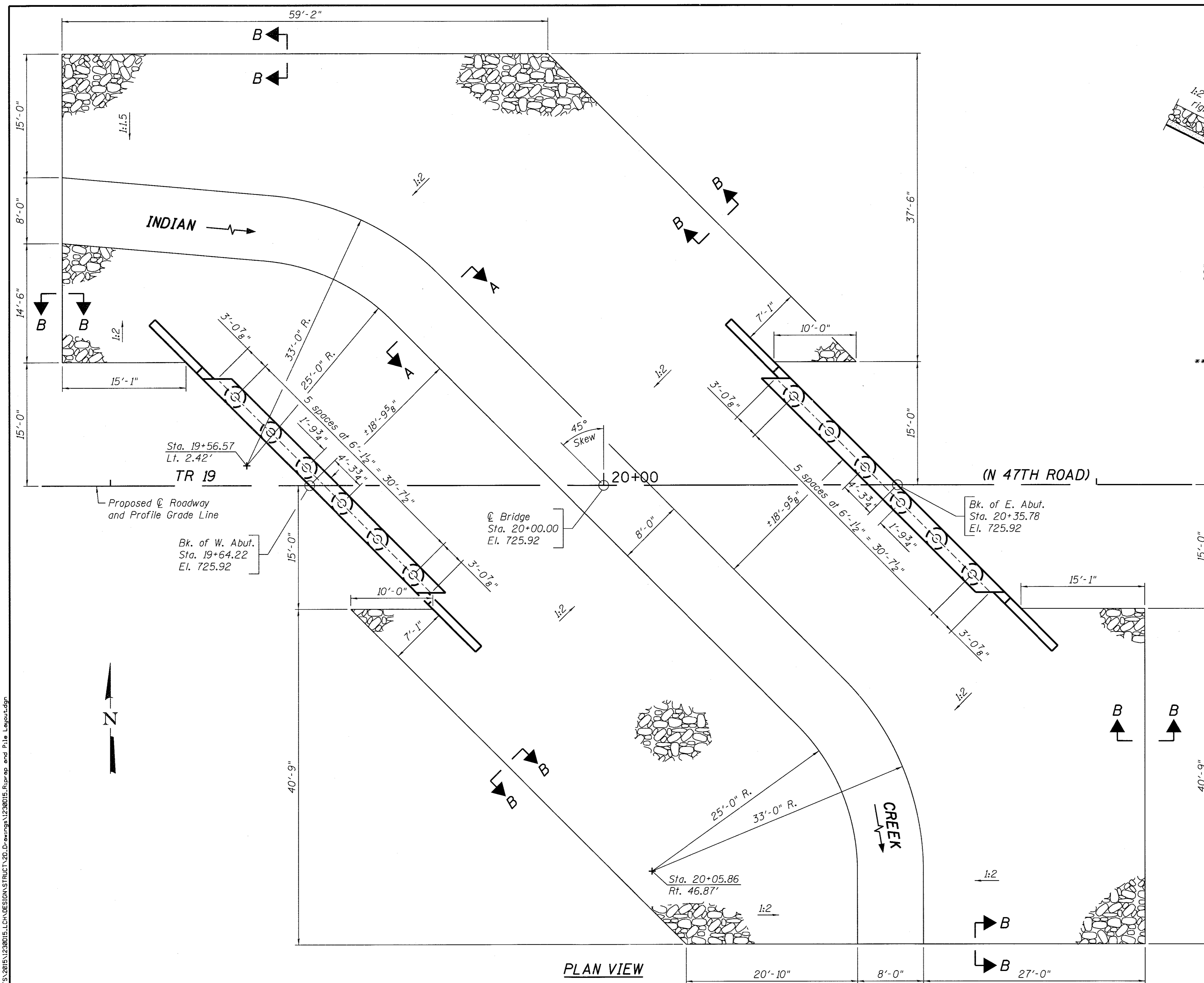
WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

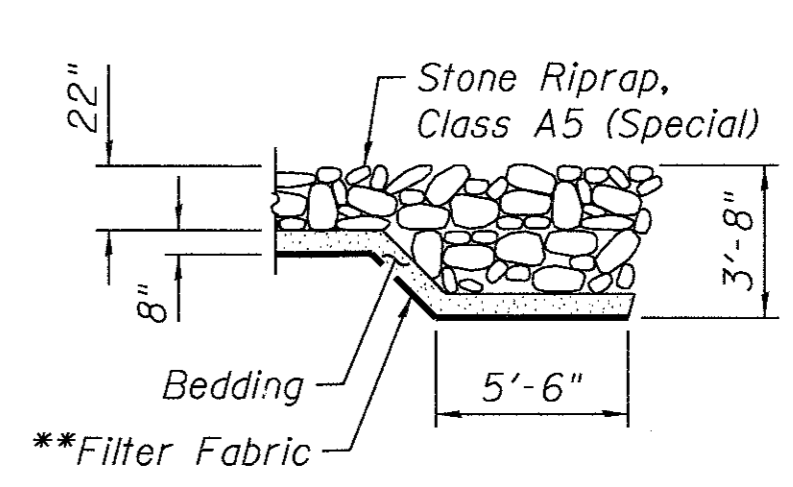
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

STRUCTURAL SHEET NO. 1 OF 12 SHEETS

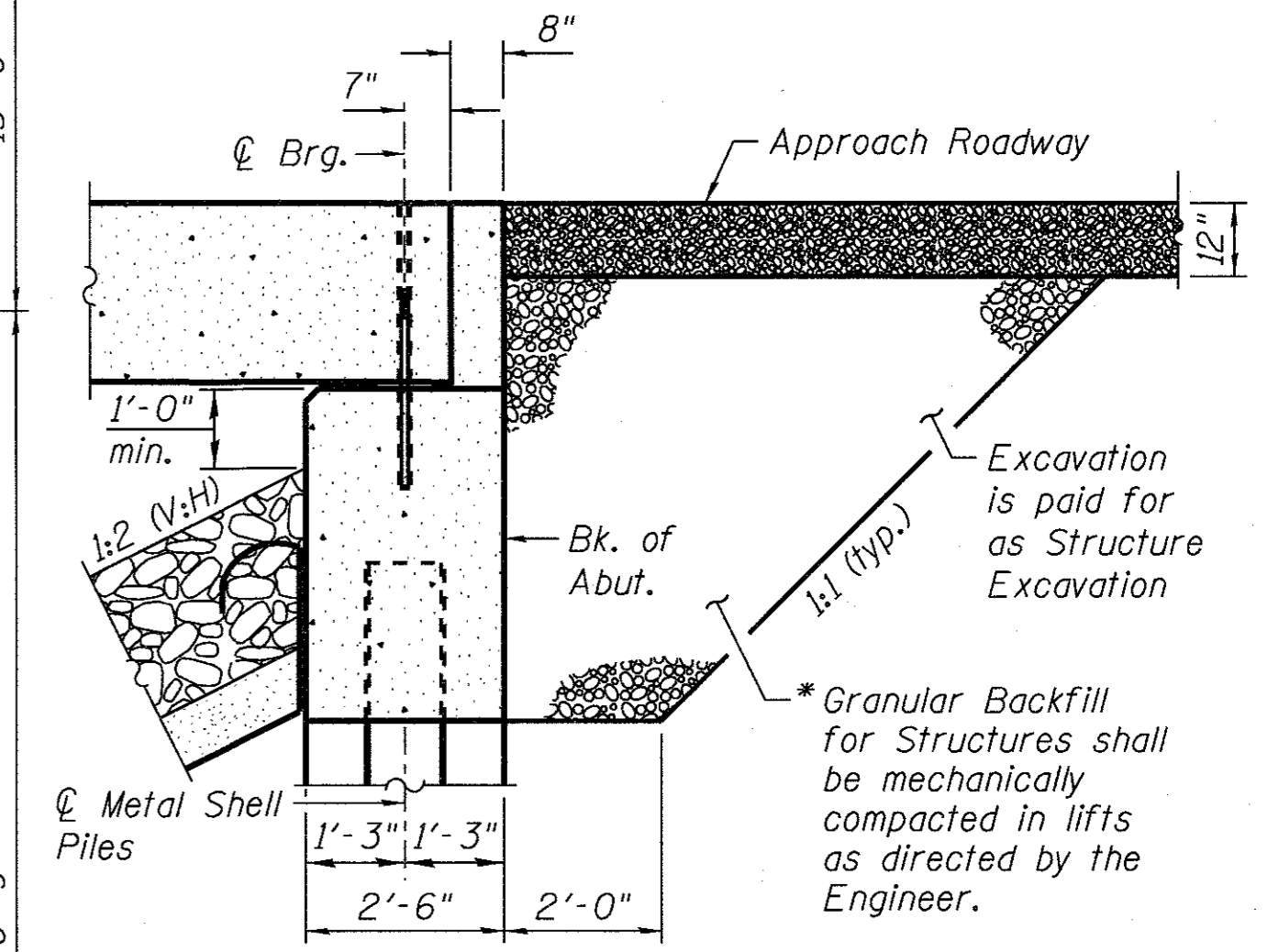
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	8
WHA* 1230D15			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C.I.C. (370)				



SECTION A-A



SECTION B-B



SECTION THRU ABUTMENT
(Dimensions at Rt. L's.)

BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A5 (Special)	Ton	930

NOTE:
 * Pay Limits of Granular Backfill for Structures shall extend to 2'-0" in from the end of each wingwall.
 ** Cost included in Stone Riprap, Class A5 (Special).



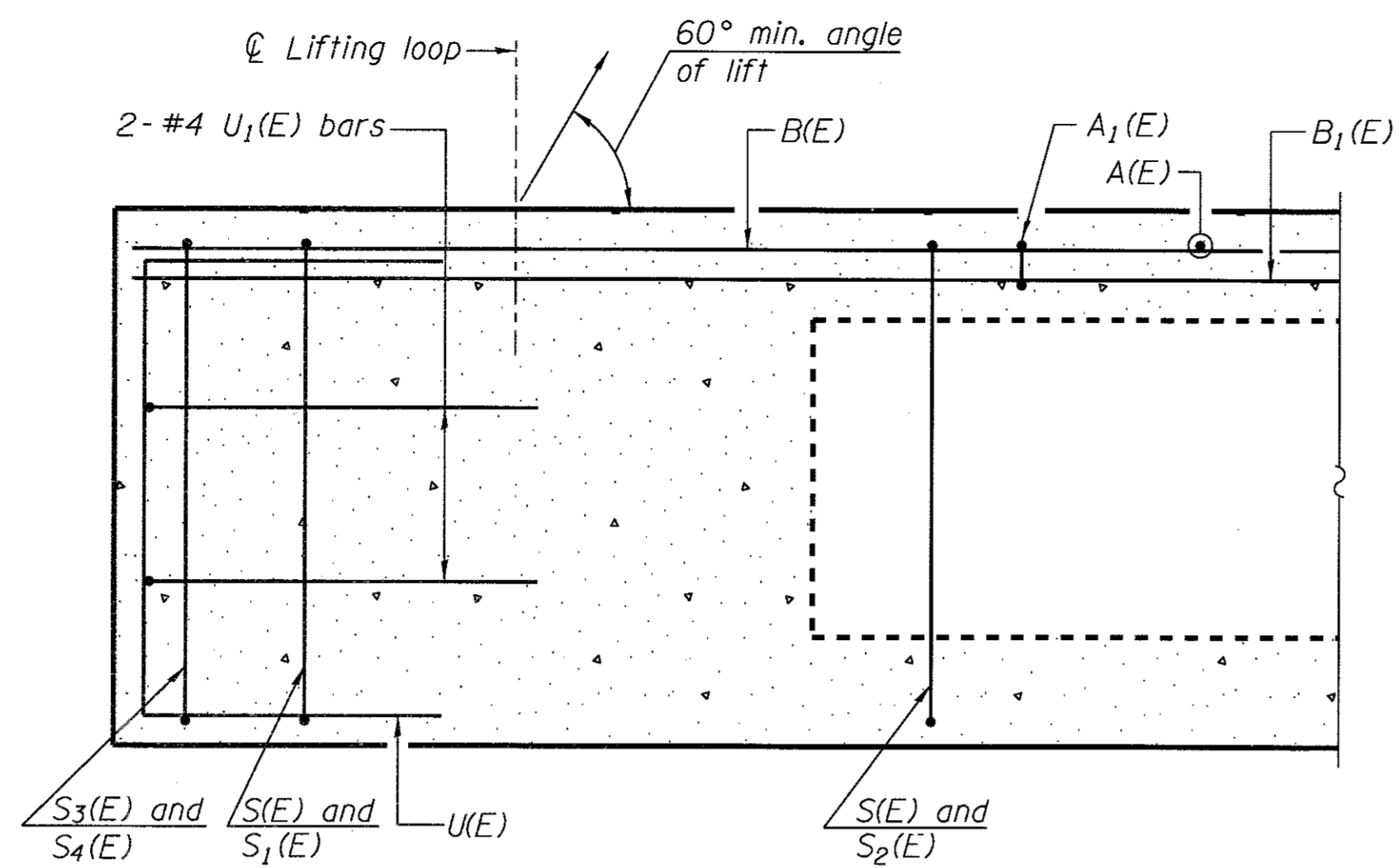
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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

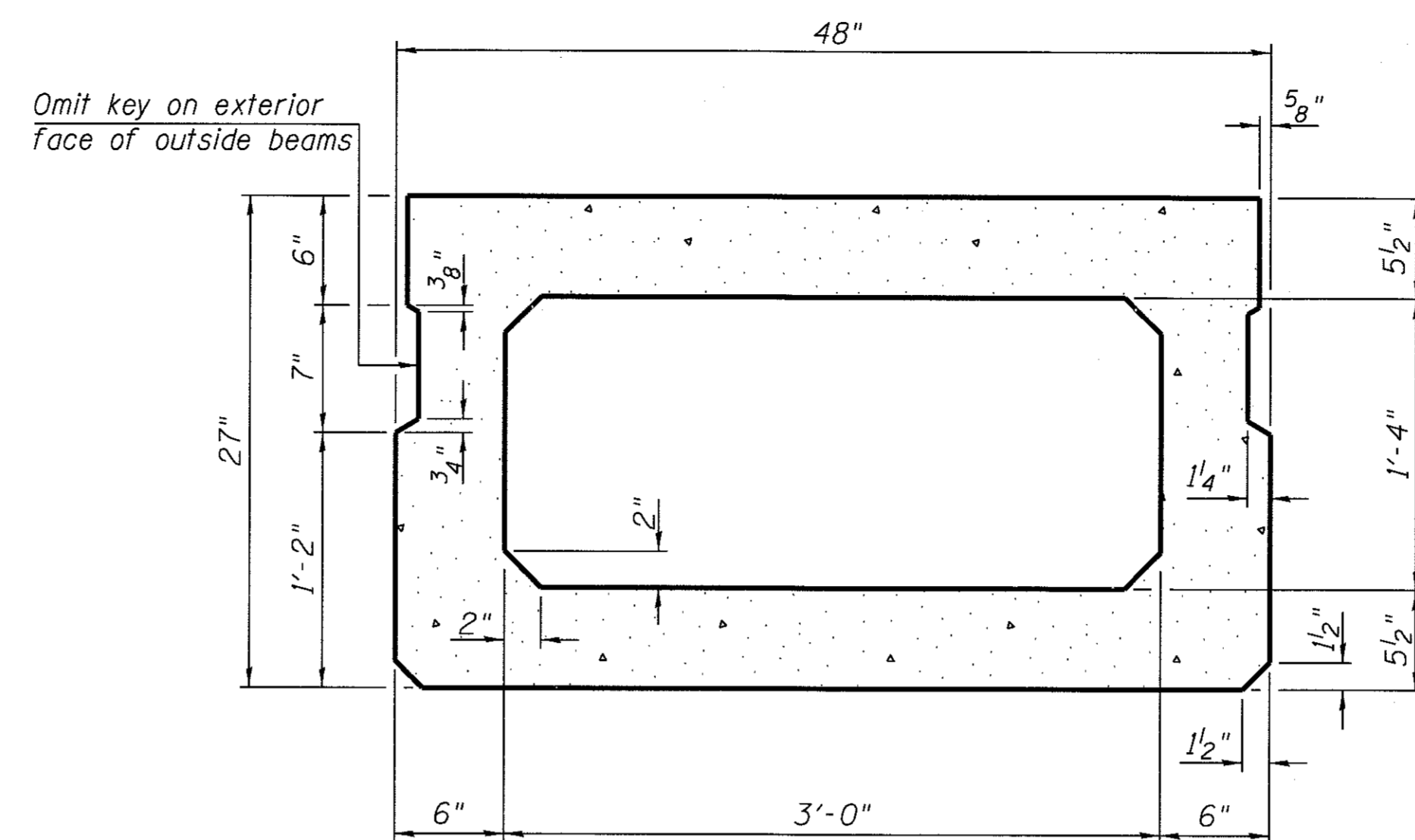
RIPRAP AND PILE LAYOUT
STRUCTURE NO. 050-3603
 STRUCTURAL SHEET NO. 2 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	9
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C1CQ(376)				

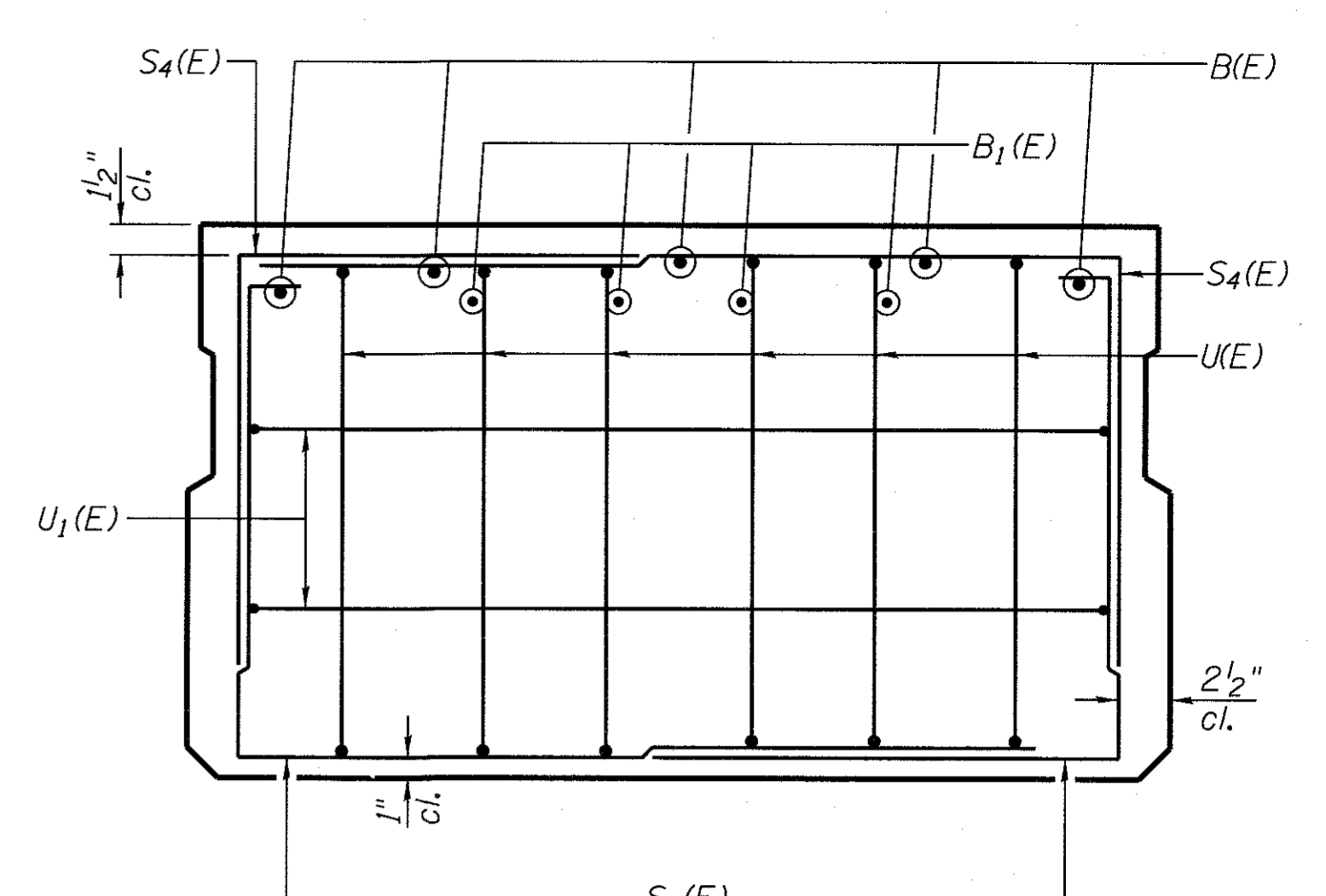
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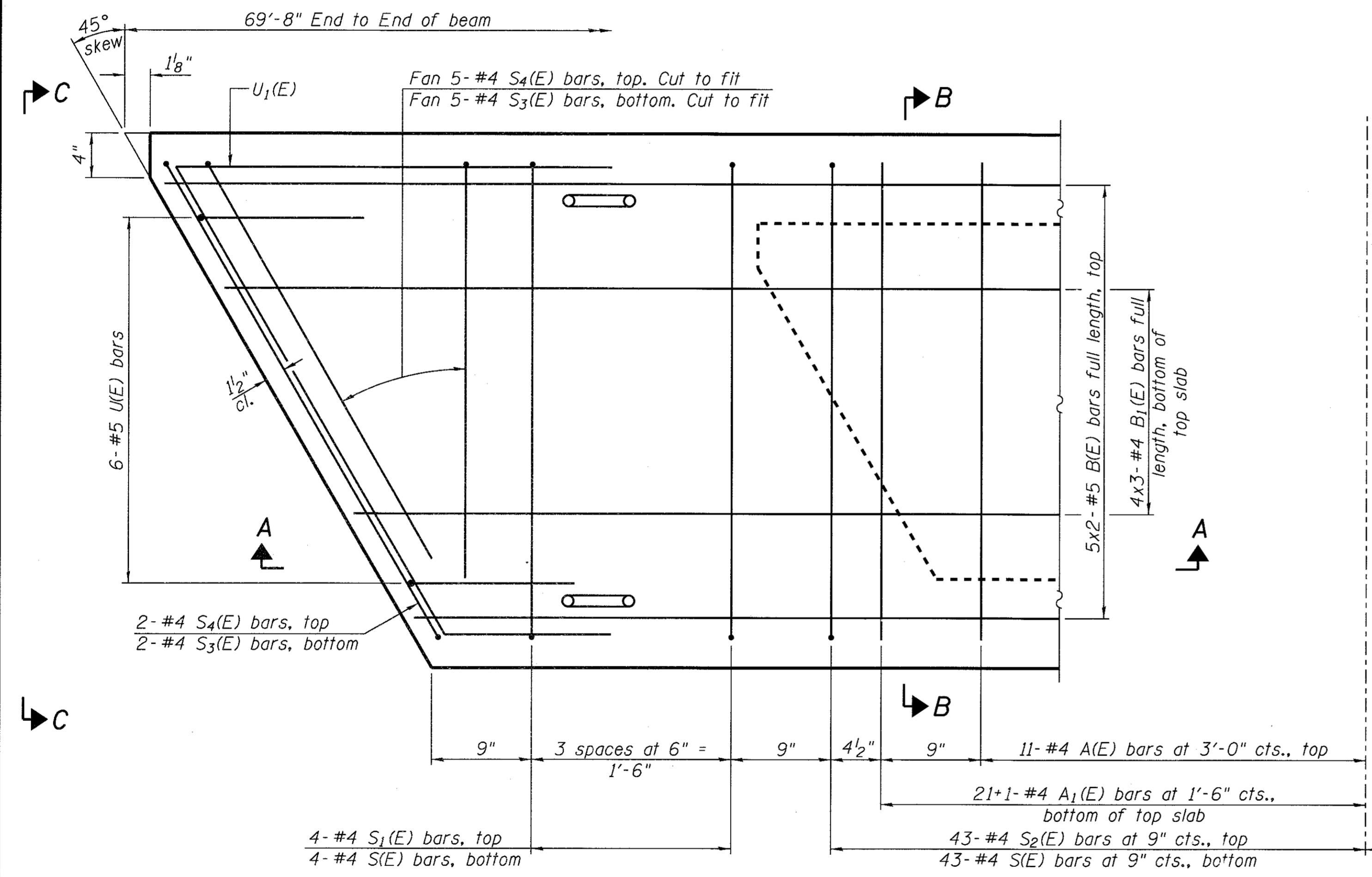
SECTION A-A



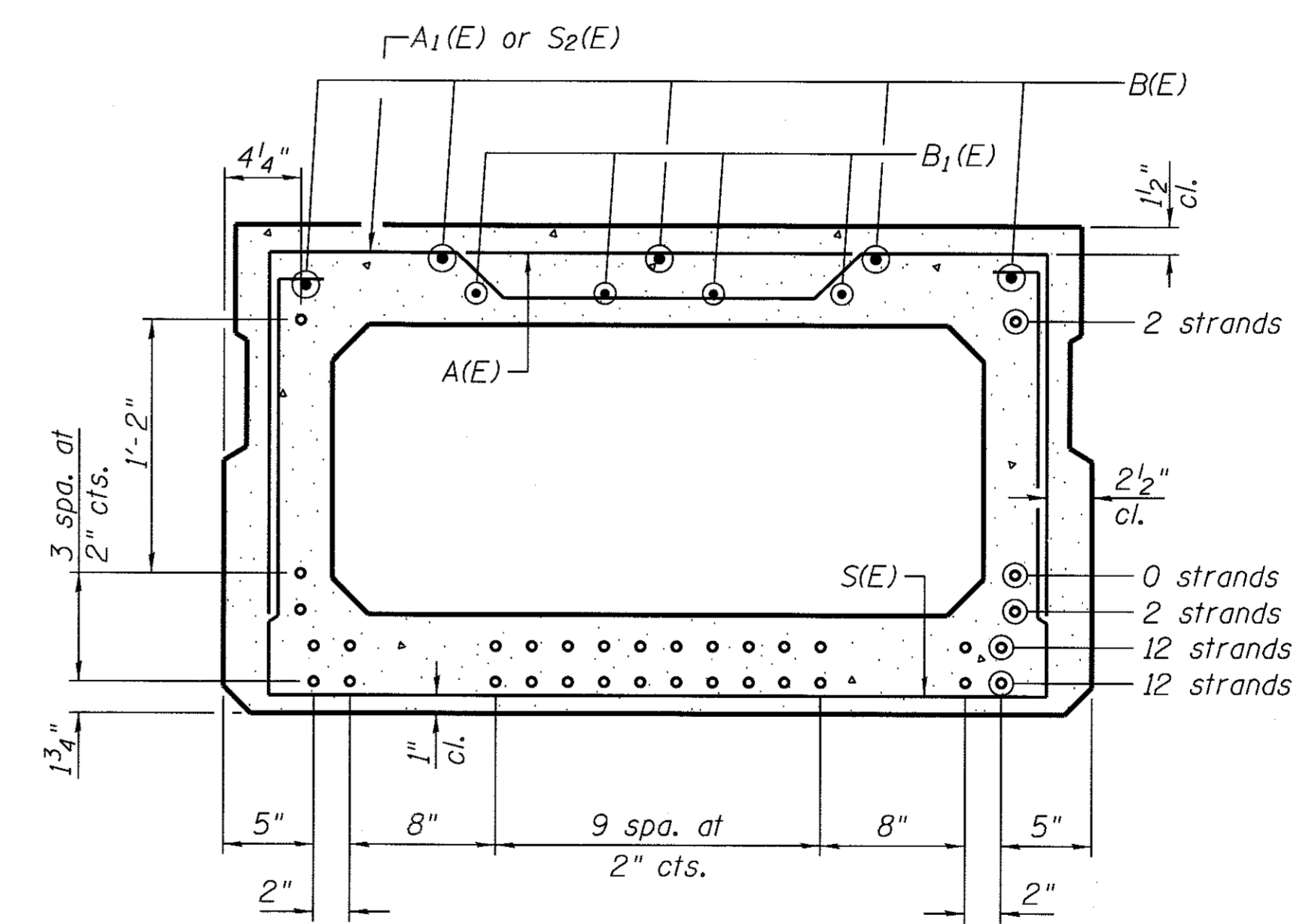
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	22	#4	3'-7"	—
A1(E)	43	#4	3'-10"	~
B(E)	10	#5	36'-1"	—
B1(E)	12	#4	24'-6"	—
S(E)	94	#4	8'-5"	┌
S1(E)	8	#4	6'-11"	┌
S2(E)	86	#4	7'-2"	┌
S3(E)	14	#4	7'-0"	┌
S4(E)	14	#4	6'-3"	┌
U(E)	12	#5	4'-6"	┌
U1(E)	4	#4	10'-11"	┌

NOTE:
See Structural Sheet 4 of 12 for additional details and Bill of Material.

NOTES:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 5x2-#5 etc., indicates 5 lines of bars with 2 lengths per line.
Bars indicated thus 21+1-#4 etc., indicates 21 bars on each side of C-C plus 1 additional bar at C-C.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

FILE: S:\PROJECTS\2815\1230015\1230015\1230015\27m PPC Deck Beam.dgn

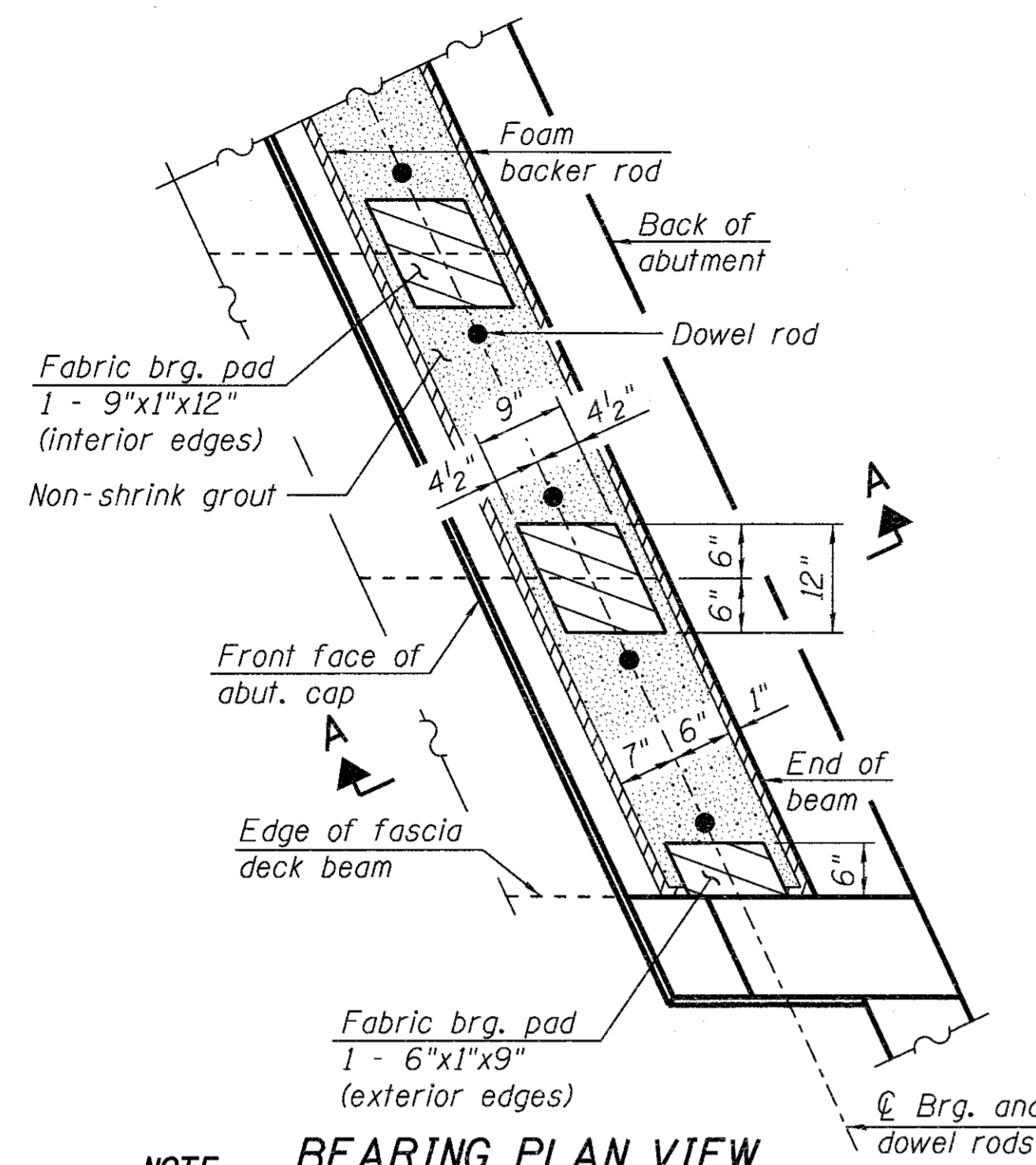


DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

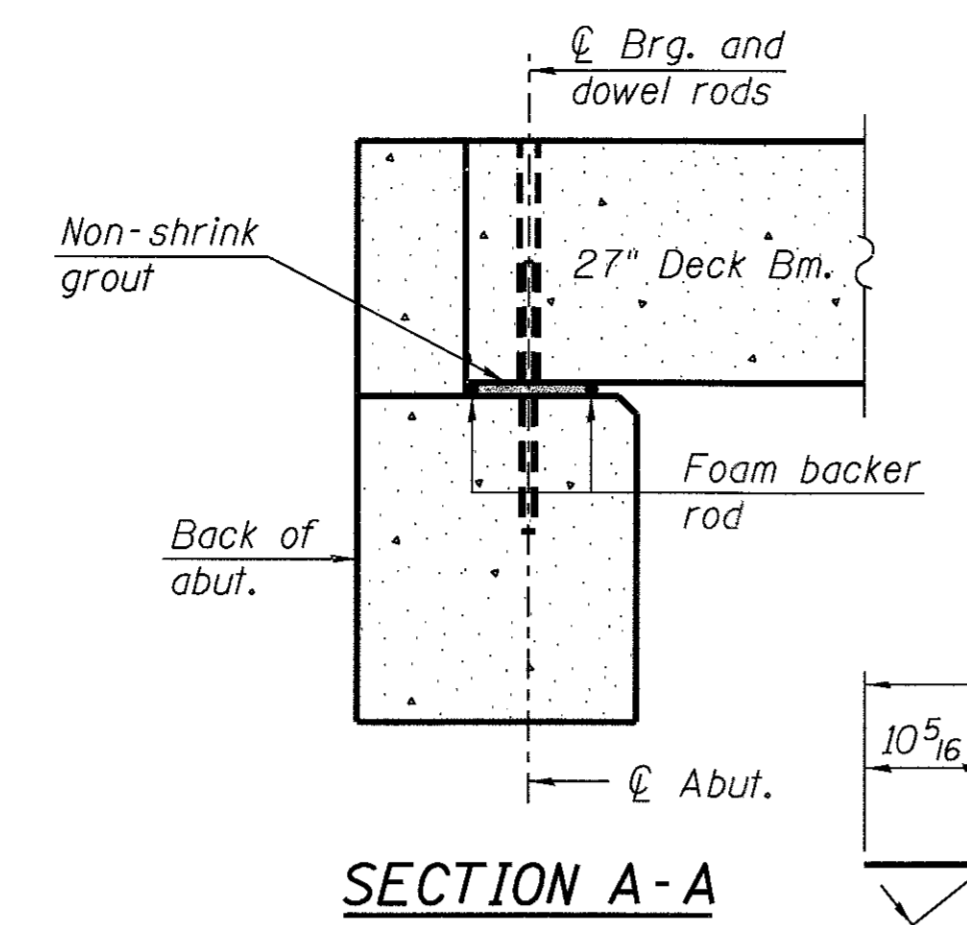
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

27" x 48" PPC DECK BEAM
STRUCTURE NO. 050-3603
STRUCTURAL SHEET NO. 3 OF 12 SHEETS

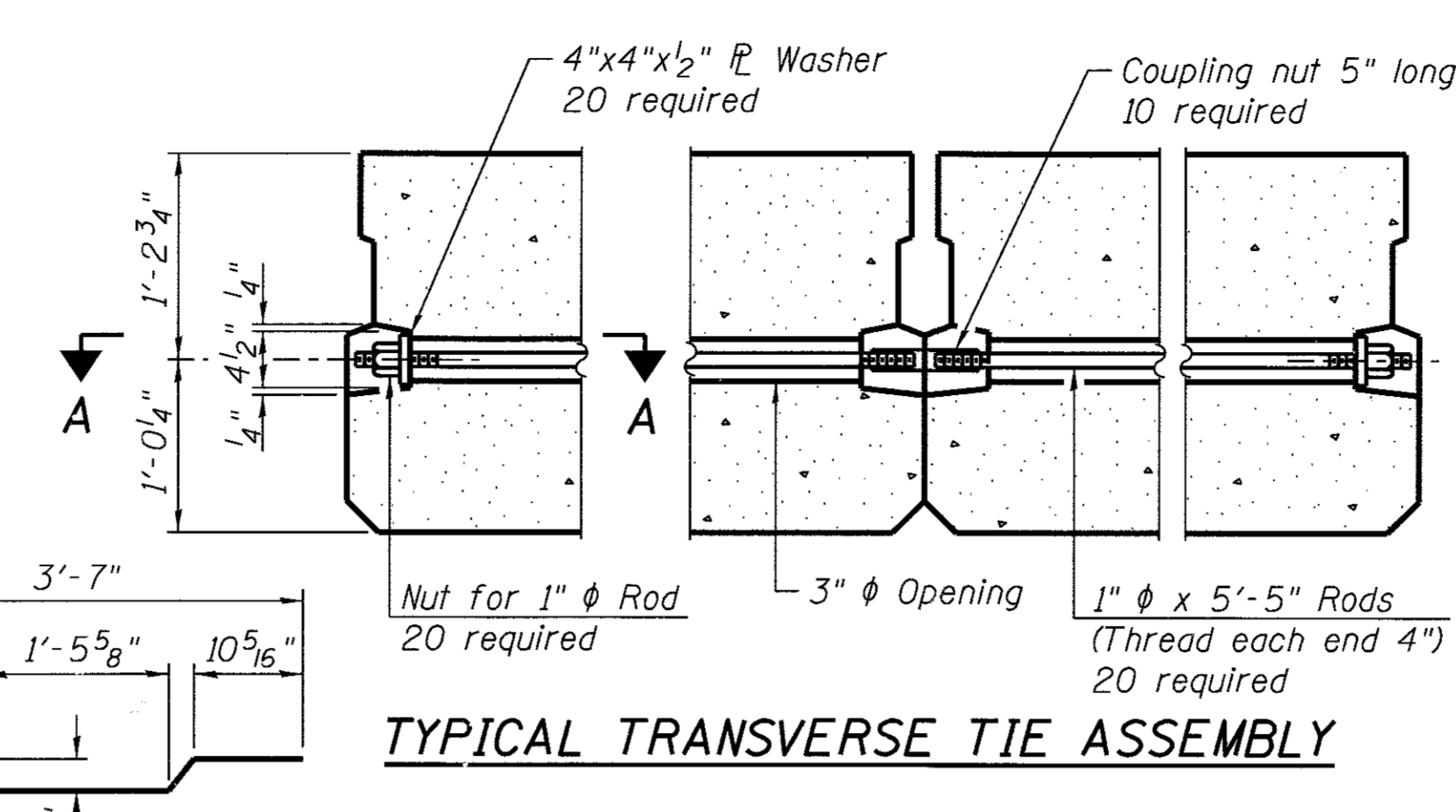
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	10
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C12C(376)				



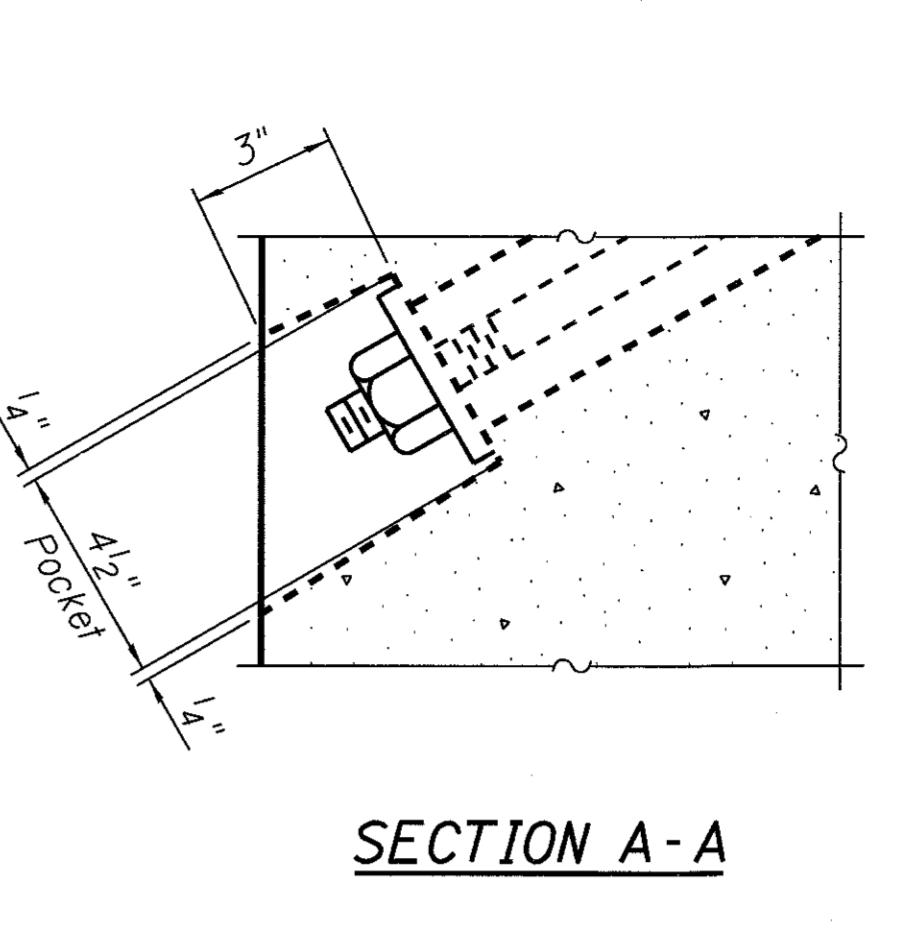
NOTE: BEARING PLAN VIEW
 The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



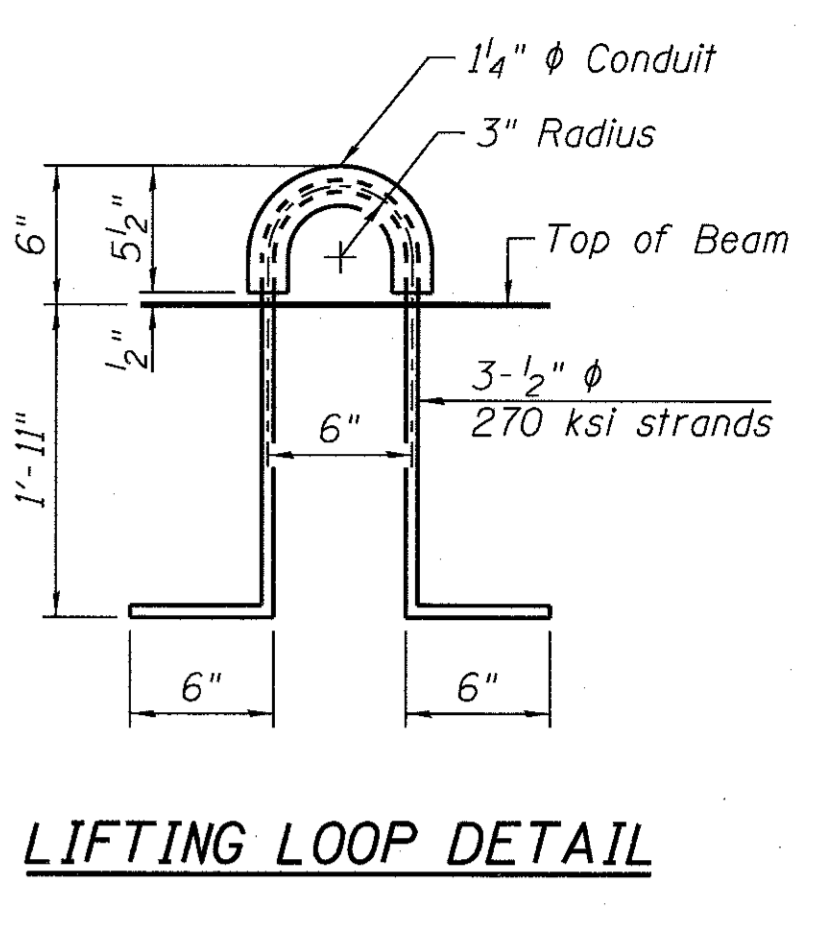
SECTION A-A



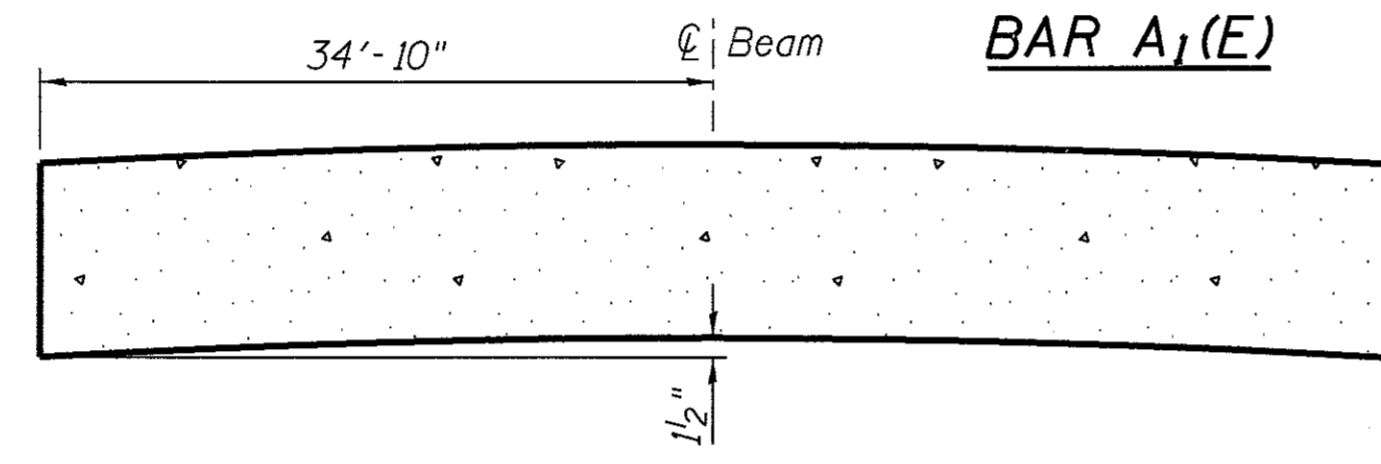
TYPICAL TRANSVERSE TIE ASSEMBLY



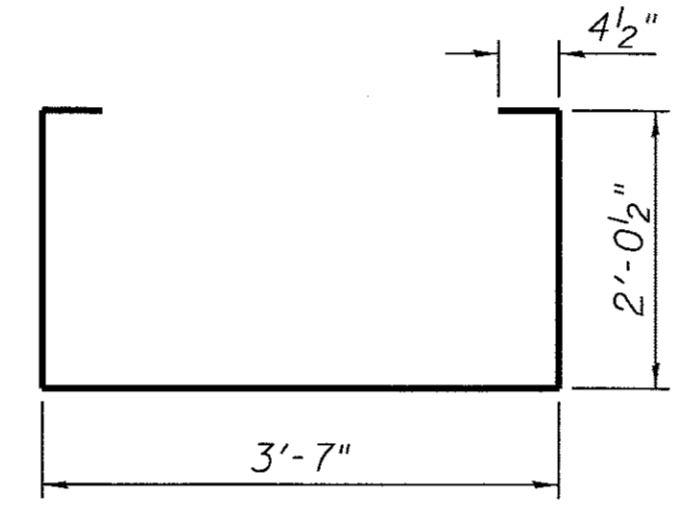
SECTION A-A



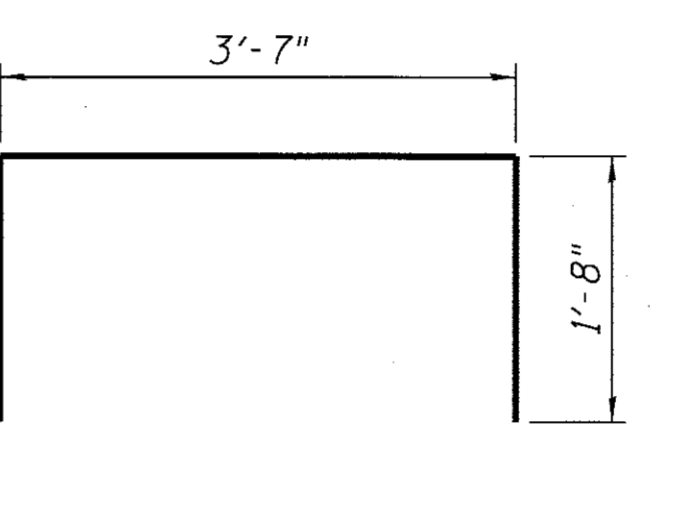
LIFTING LOOP DETAIL



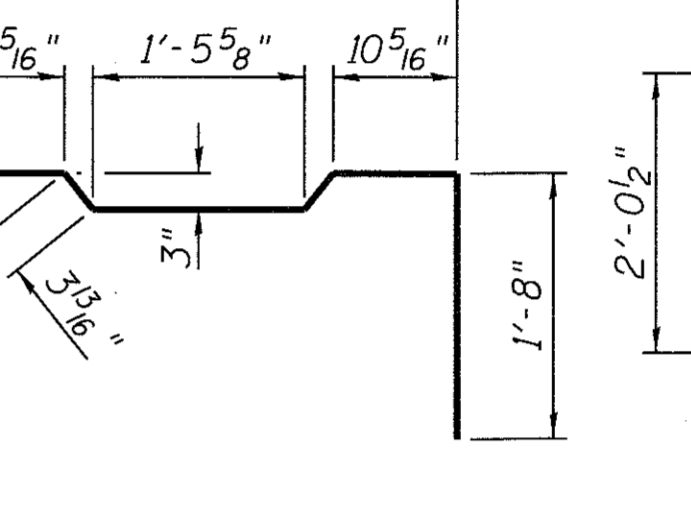
CAMBER DIAGRAM



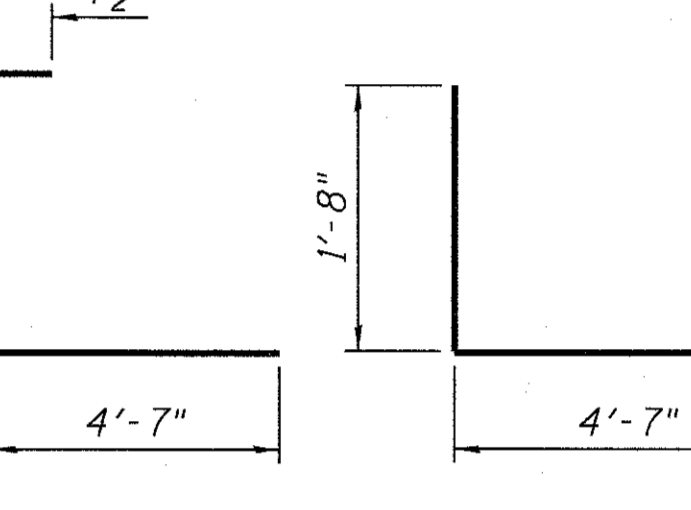
BAR S(E)



BAR S1(E)



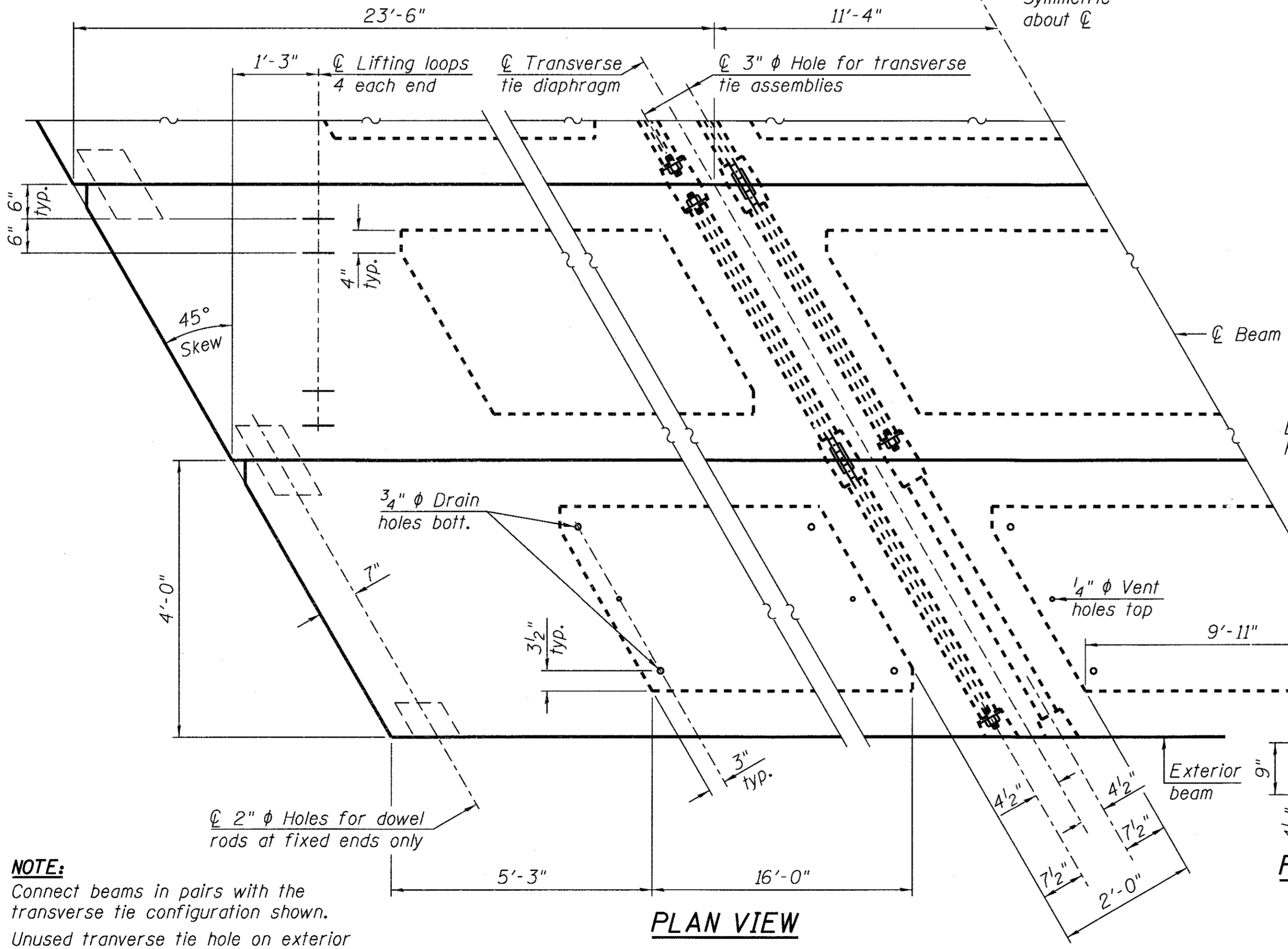
BAR S2(E)



BAR S3(E)

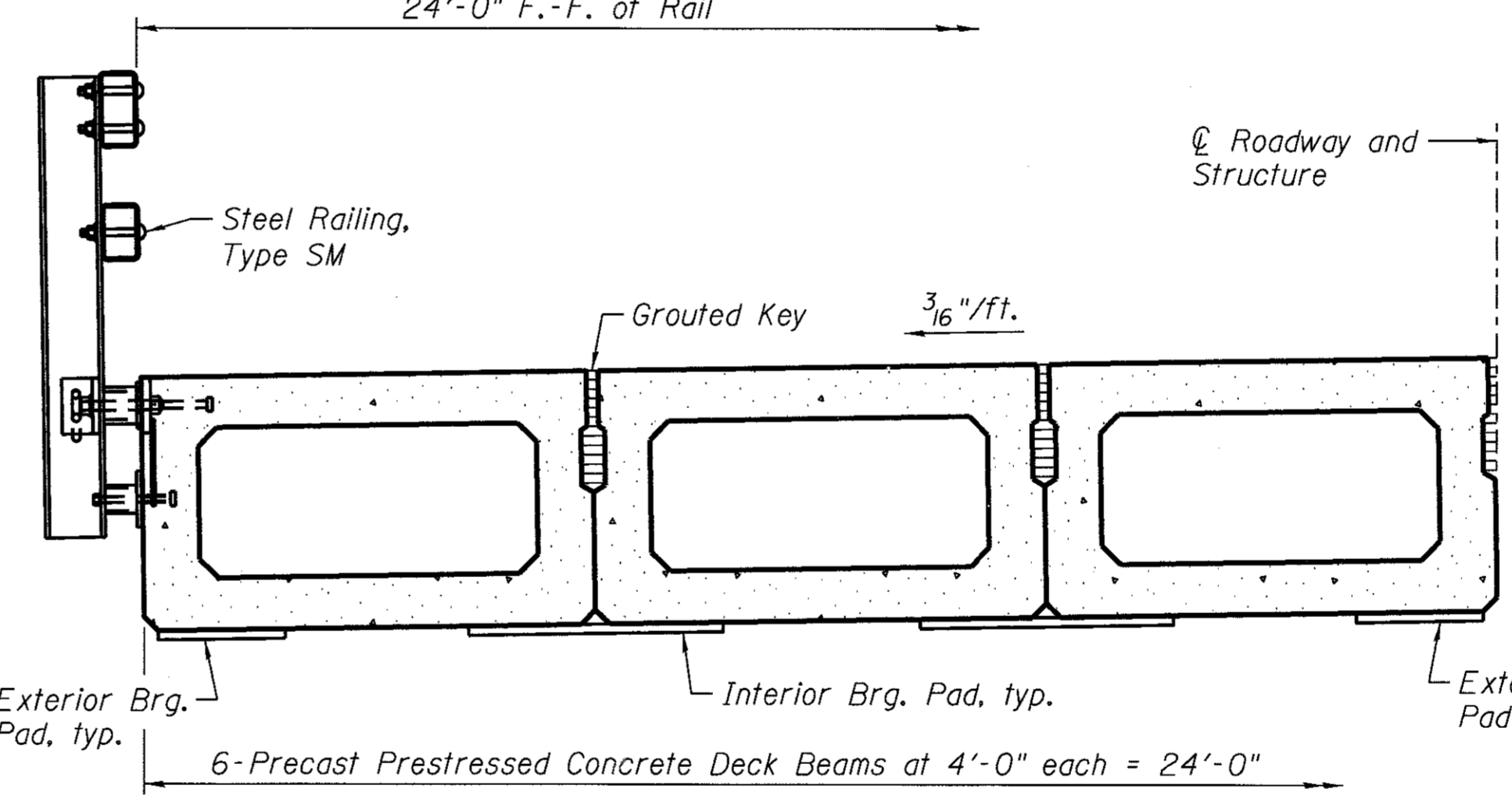


BAR S4(E)

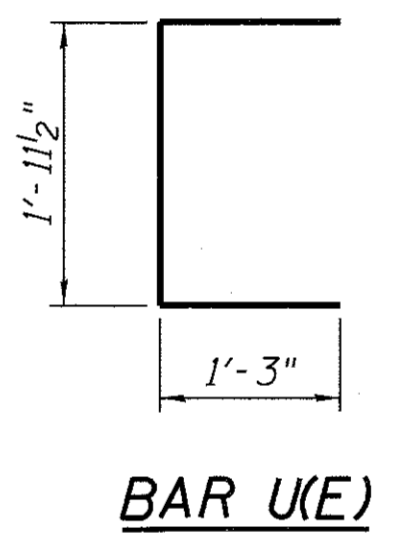


PLAN VIEW

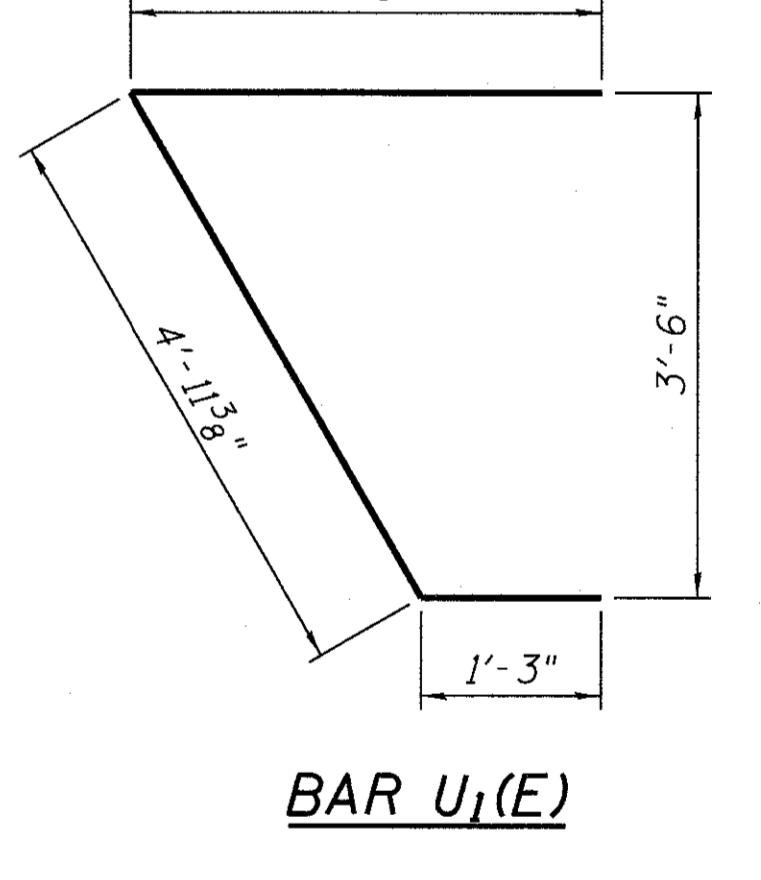
NOTE:
 Connect beams in pairs with the transverse tie configuration shown. Unused transverse tie hole on exterior beam shall be omitted.



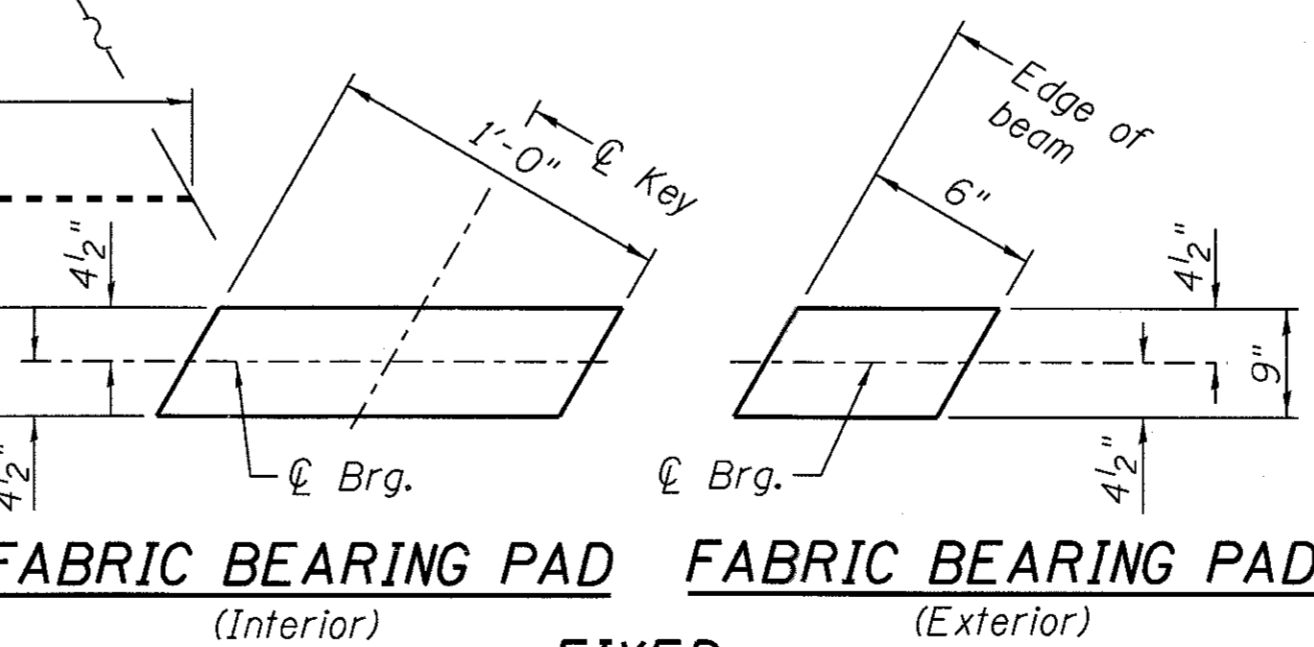
HALF CROSS SECTION (Looking East)



BAR U(E)



BAR U1(E)



FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior)

NOTE:
 All bearing pads shall be 1" thick. Exterior bearing pads shall be used at the crown break.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,672

NOTES:
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
 Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
 Compressive strength of prestressed concrete, f'c, shall be 6,000 psi.
 Compressive strength of prestressed concrete at release, f'ci, shall be 5,000 psi.



DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

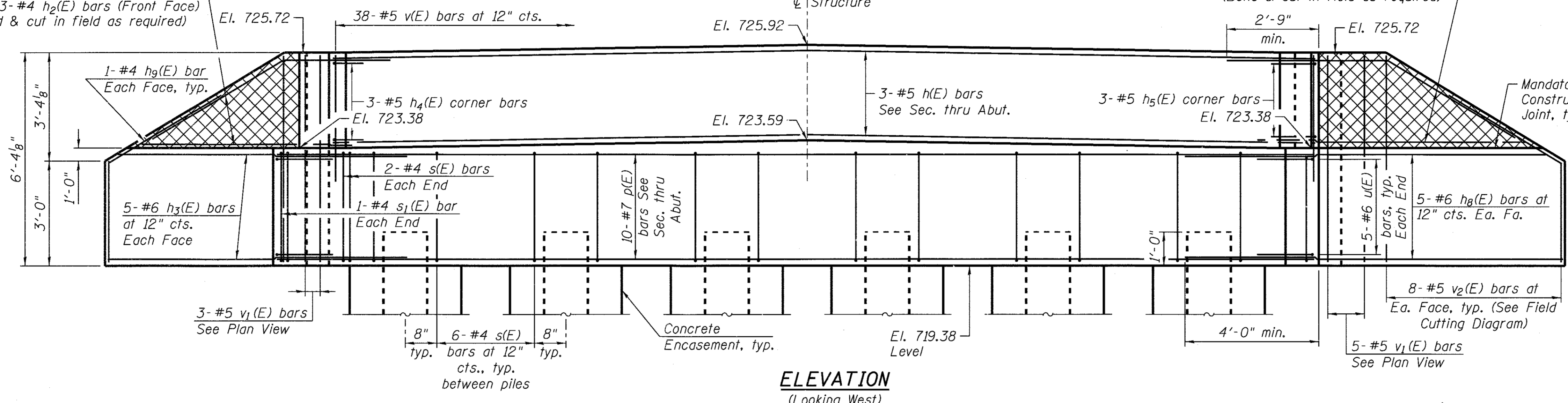
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 050-3603
 STRUCTURAL SHEET NO. 4 OF 12 SHEETS

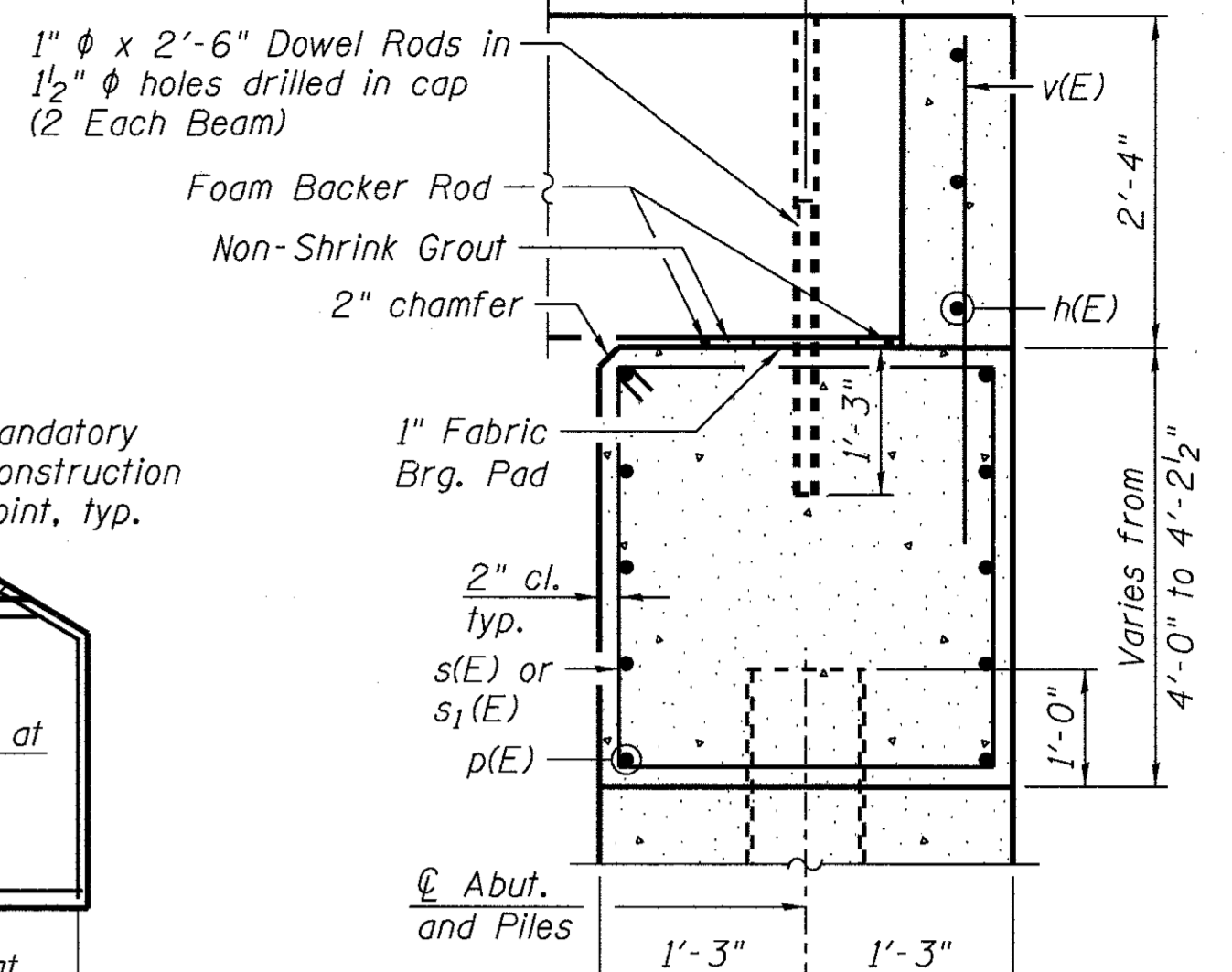
TWP. RTE. 19	SECTION 15-20771-00-BR	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 11
WHA# 1230D15			CONTRACT NO. 87644	
[ILLINOIS] FED. AID PROJECT C1C2 (370)				

FILE: S:\PROJECTS\2015\1230D15\CONCRETE\STRUCT\20.Dwg; 12/30/15 2:27:10 PM PPC Deck Beam Details.dwg

Fan 3-#4 h₁(E) bars (Back Face)
Fan 3-#4 h₂(E) bars (Front Face)
(Bend & cut in field as required)

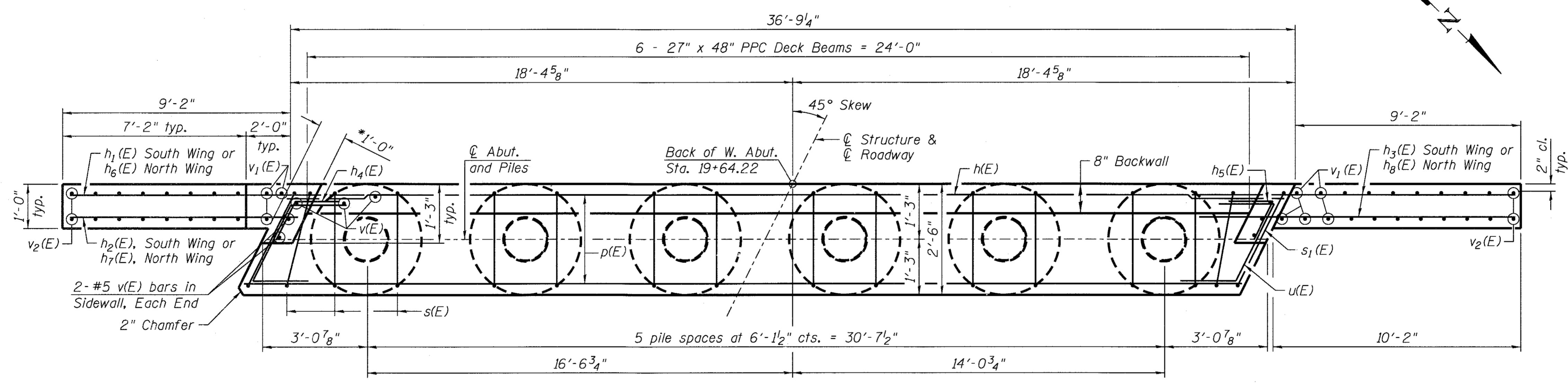


ELEVATION
(Looking West)



SEC. THRU ABUT.
(Dimensions are at Rt. L's)
BILL OF MATERIAL - WEST ABUT.

Bar	No.	Size	Length	Shape
h(E)	3	#5	36'-5"	—
h ₁ (E)	3	#4	9'-4"	—
h ₂ (E)	3	#4	7'-0"	—
h ₃ (E)	10	#6	13'-2"	—
h ₄ (E)	3	#5	3'-0"	∟
h ₅ (E)	3	#5	3'-0"	∟
h ₆ (E)	3	#4	9'-8"	—
h ₇ (E)	3	#4	8'-8"	—
h ₈ (E)	10	#6	14'-2"	—
h ₉ (E)	4	#4	4'-6"	—
p(E)	10	#7	36'-5"	—
s(E)	34	#4	12'-5"	□
s ₁ (E)	2	#4	14'-3"	□
u(E)	10	#6	7'-11"	∟
v(E)	42	#5	4'-4"	—
v ₁ (E)	8	#5	6'-0"	—
v ₂ (E)	16	#5	8'-8"	—
Structure Excavation		Cu. Yd.	99	
Concrete Structures		Cu. Yd.	19.5	
Concrete Encasement		Cu. Yd.	2.7	
Reinforcement Bars, Epoxy Coated		Pound	2,180	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	160	
Driving Piles		Foot	160	
Test Pile Metal Shells		Each	1	
** Granular Backfill for Structures		Cu. Yd.	44	



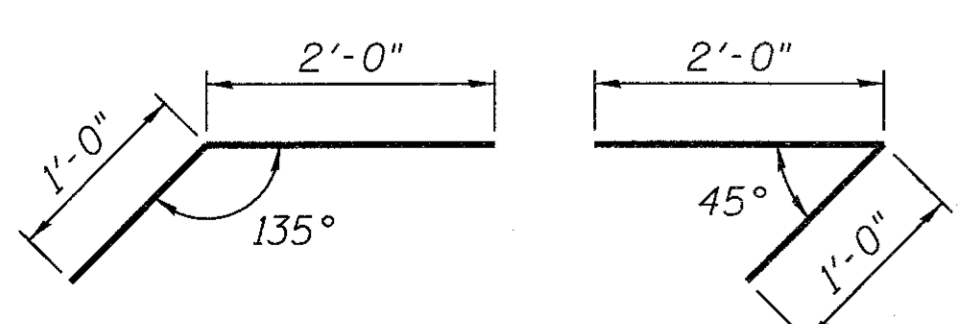
ABOVE CONSTRUCTION JOINT IN WINGWALL

PLAN

BELOW CONSTRUCTION JOINT IN WINGWALL

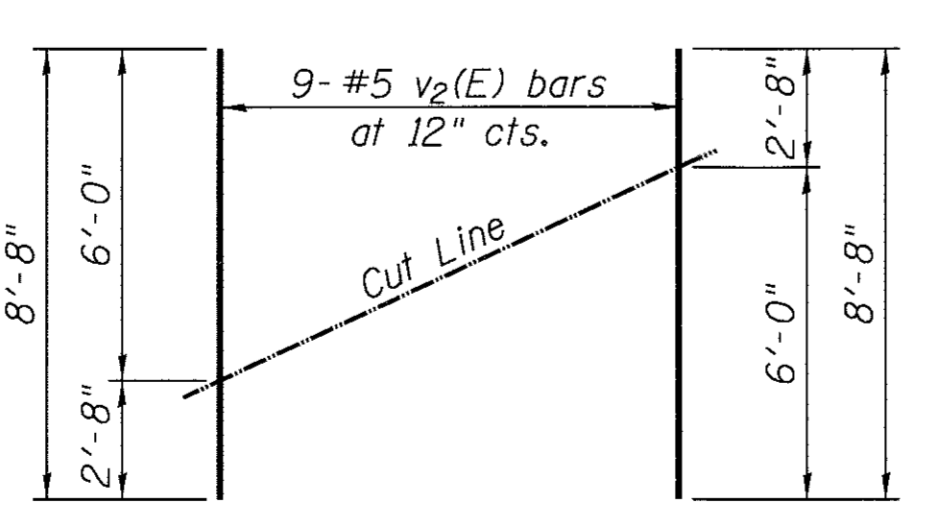
PILE DATA

Type: Metal Shell Piles 12" ϕ x 0.250" walls
Nominal Required Bearing: 218 k
Factored Resistance Available: 120 k
Est. Length: 32'
No. Production Piles: 5
No. Test Piles: 1



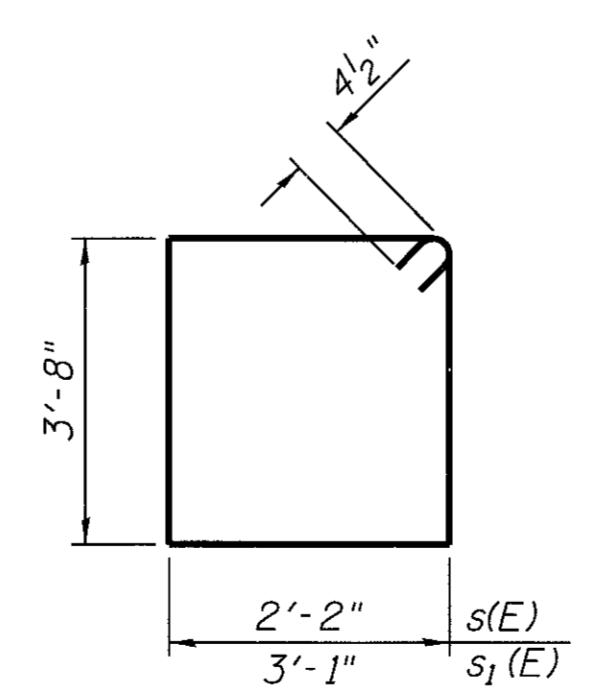
BAR h₄(E)

BAR h₅(E)

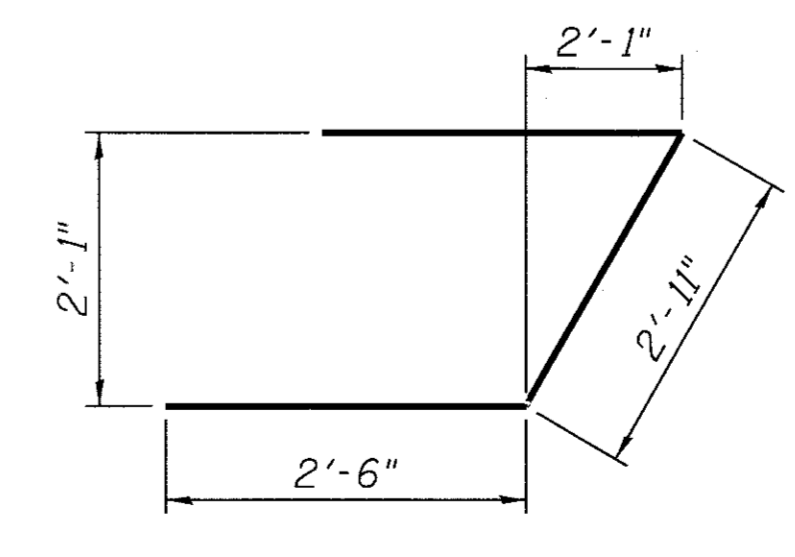


FIELD CUTTING DIAGRAM

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



BARS s(E) & s₁(E)



BAR u(E)

NOTES:

- Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
- All exposed edges shall have standard 3/4" chamfers, except as noted.
- Space reinforcement in cap to miss dowel rods.
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
- For Concrete Encasement details, see Structural Sheet 8 of 12.
- For pile details, see Structural Sheet 8 of 12.
- * May vary due to overrun of beams.
- ** For backfill details, see Structural Sheet 2 of 12.

FILE = S:\PROJECTS\2015\1230015.LCH\DESIGN\STRUCT\20.Dr-awngs\1230015-West Abutment Detail.dgn

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

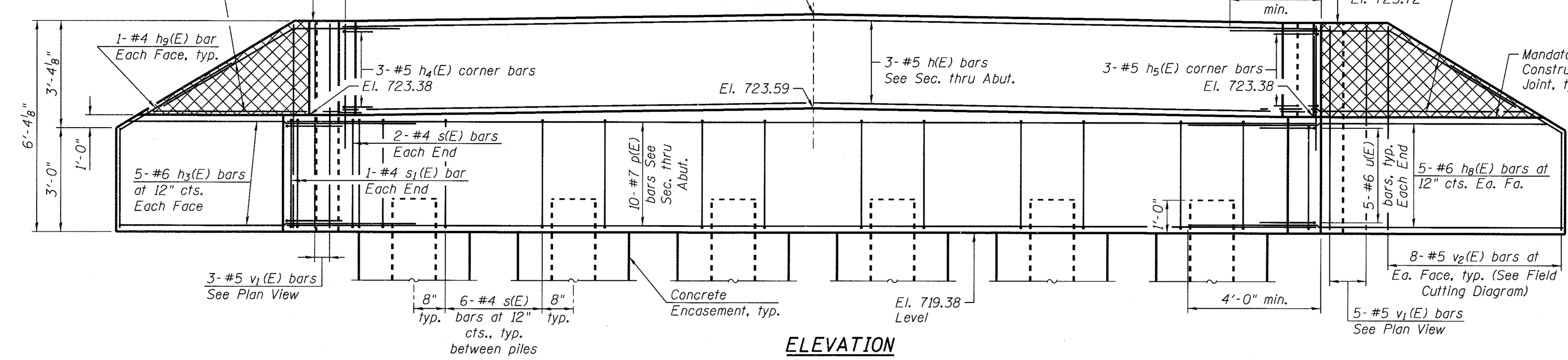
DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

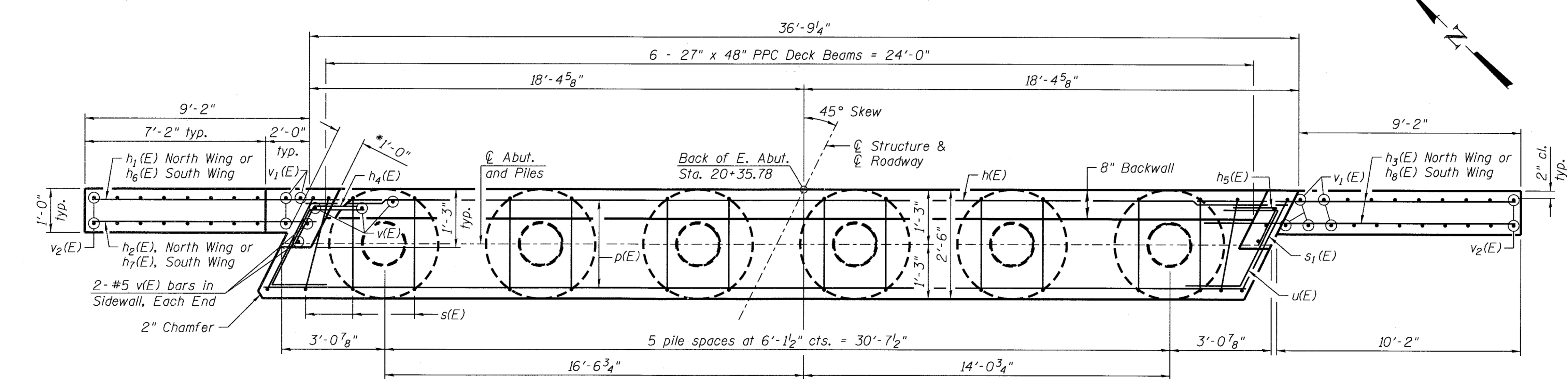
WEST ABUTMENT DETAILS
STRUCTURE NO. 050-3603
STRUCTURAL SHEET NO. 5 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	12
WHA # 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C3CQ (37)				

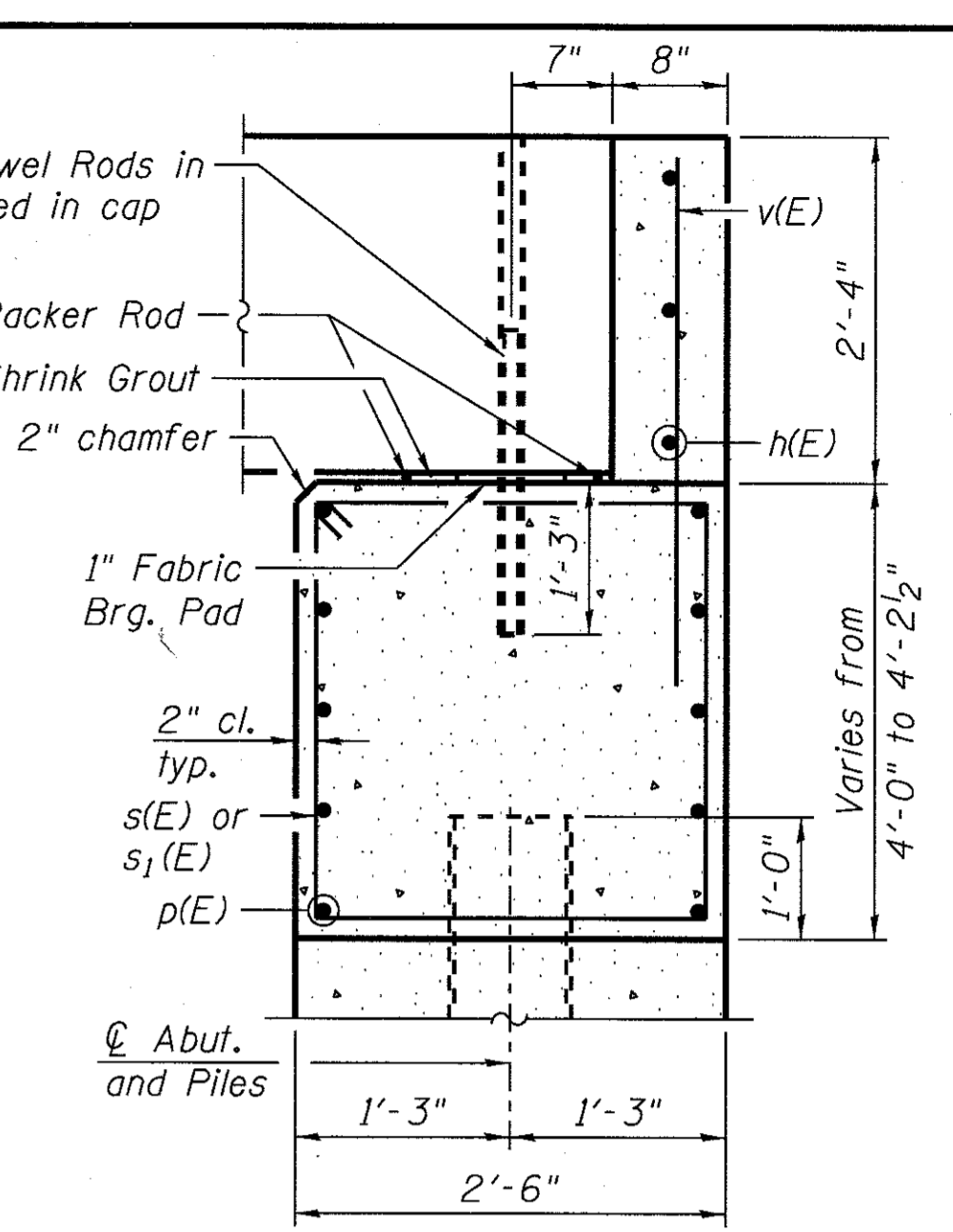
Fan 3-#4 $h_1(E)$ bars (Back Face)
 Fan 3-#4 $h_2(E)$ bars (Front Face)
 (Bend & cut in field as required)



ELEVATION
 (Looking East)



PLAN



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

BILL OF MATERIAL - EAST ABUT.

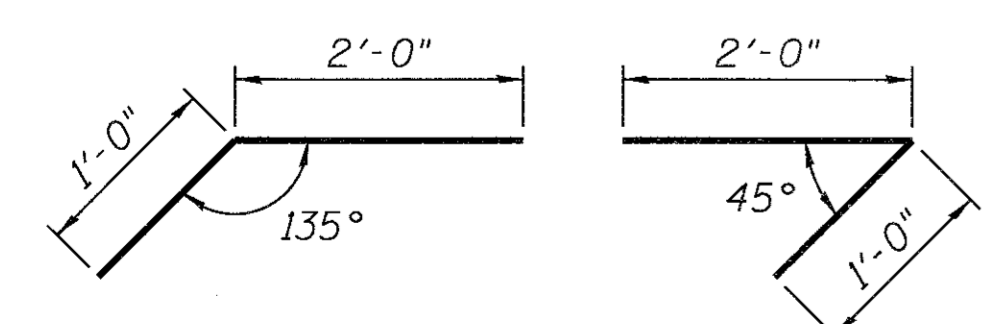
Bar	No.	Size	Length	Shape
$h(E)$	3	#5	36'-5"	
$h_1(E)$	3	#4	9'-4"	
$h_2(E)$	3	#4	7'-0"	
$h_3(E)$	10	#6	13'-2"	
$h_4(E)$	3	#5	3'-0"	
$h_5(E)$	3	#5	3'-0"	
$h_6(E)$	3	#4	9'-8"	
$h_7(E)$	3	#4	8'-8"	
$h_8(E)$	10	#6	14'-2"	
$h_9(E)$	4	#4	4'-6"	
$p(E)$	10	#7	36'-5"	
$s(E)$	34	#4	12'-5"	
$s_1(E)$	2	#4	14'-3"	
$u(E)$	10	#6	7'-11"	
$v(E)$	42	#5	4'-4"	
$v_1(E)$	8	#5	6'-0"	
$v_2(E)$	16	#5	8'-8"	
Structure Excavation		Cu. Yd.	99	
Concrete Structures		Cu. Yd.	19.5	
Concrete Encasement		Cu. Yd.	2.7	
Reinforcement Bars, Epoxy Coated		Pound	2,180	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	155	
Driving Piles		Foot	155	
Test Pile Metal Shells		Each	1	
** Granular Backfill for Structures		Cu. Yd.	44	

ABOVE CONSTRUCTION JOINT IN WINGWALL

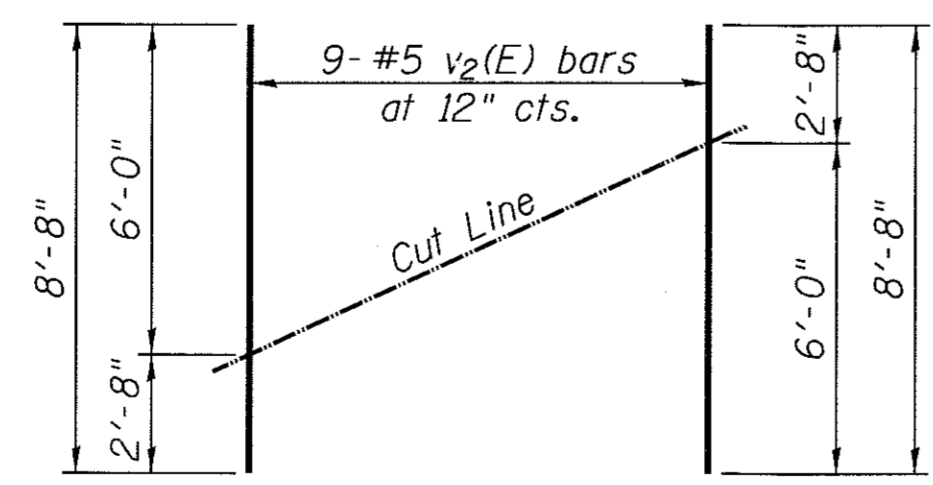
BELOW CONSTRUCTION JOINT IN WINGWALL

PILE DATA

Type: Metal Shell Piles 12" ϕ x 0.250" walls
 Nominal Required Bearing: 218 k
 Factored Resistance Available: 120 k
 Est. Length: 31'
 No. Production Piles: 5
 No. Test Piles: 1

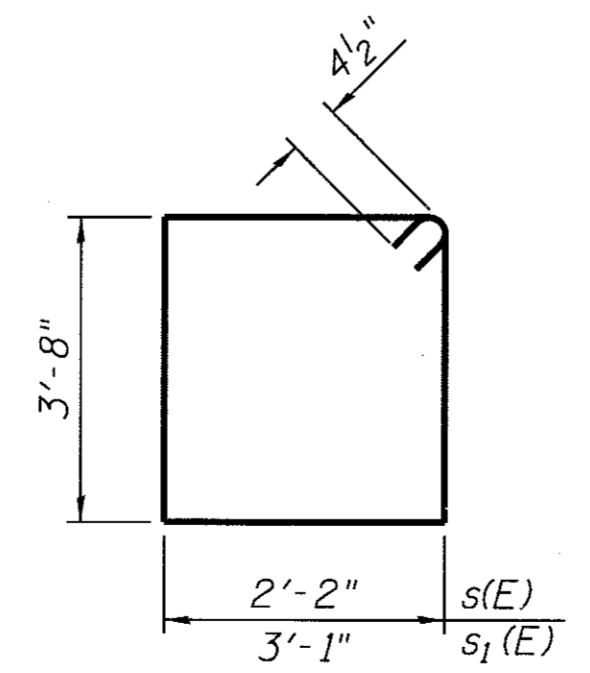


BAR $h_4(E)$ BAR $h_5(E)$

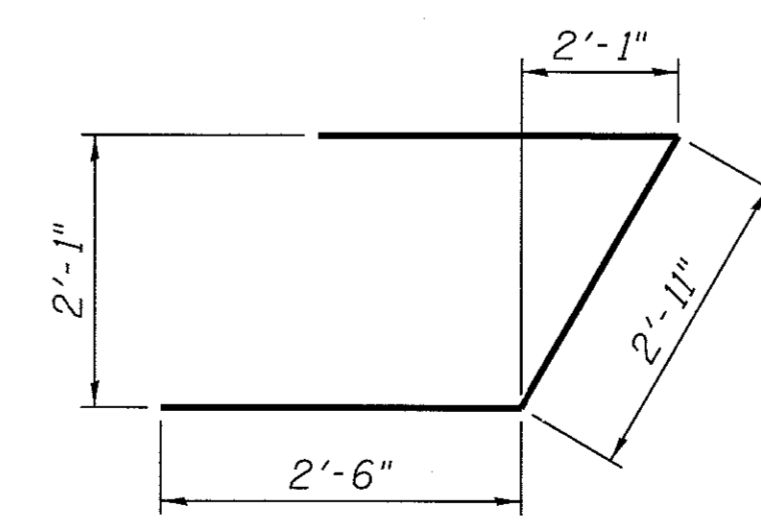


FIELD CUTTING DIAGRAM

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



BARS $s(E)$ & $s_1(E)$



BAR $u(E)$

NOTES:

- Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
- All exposed edges shall have standard $\frac{3}{4}$ " chamfers, except as noted.
- Space reinforcement in cap to miss dowel rods.
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
- For Concrete Encasement details, see Structural Sheet 8 of 12.
- For pile details, see Structural Sheet 8 of 12.
- * May vary due to overrun of beams.
- ** For backfill details, see Structural Sheet 2 of 12.



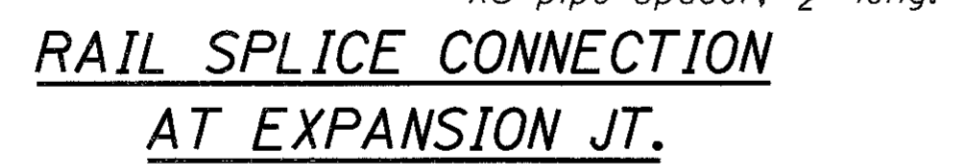
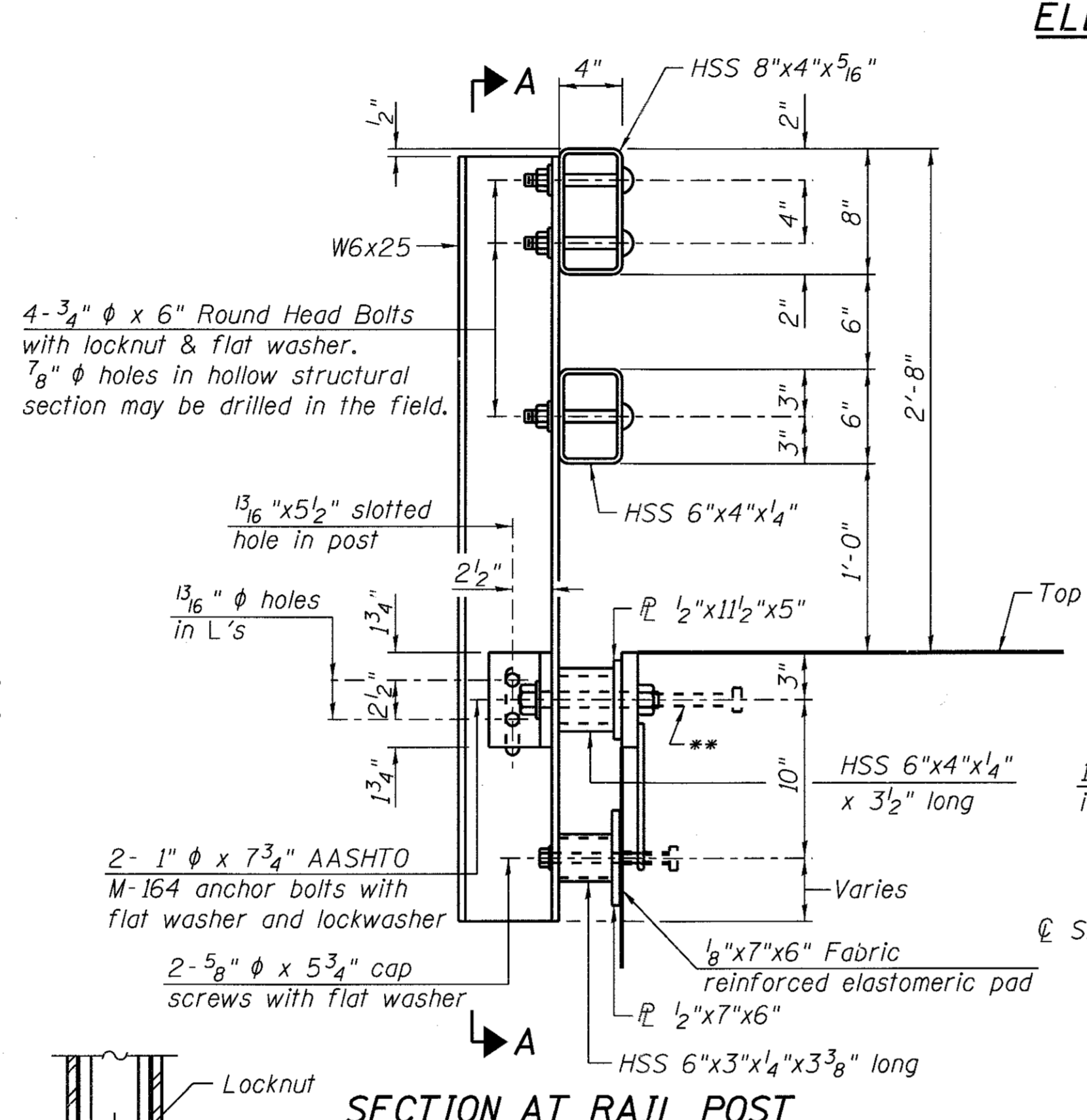
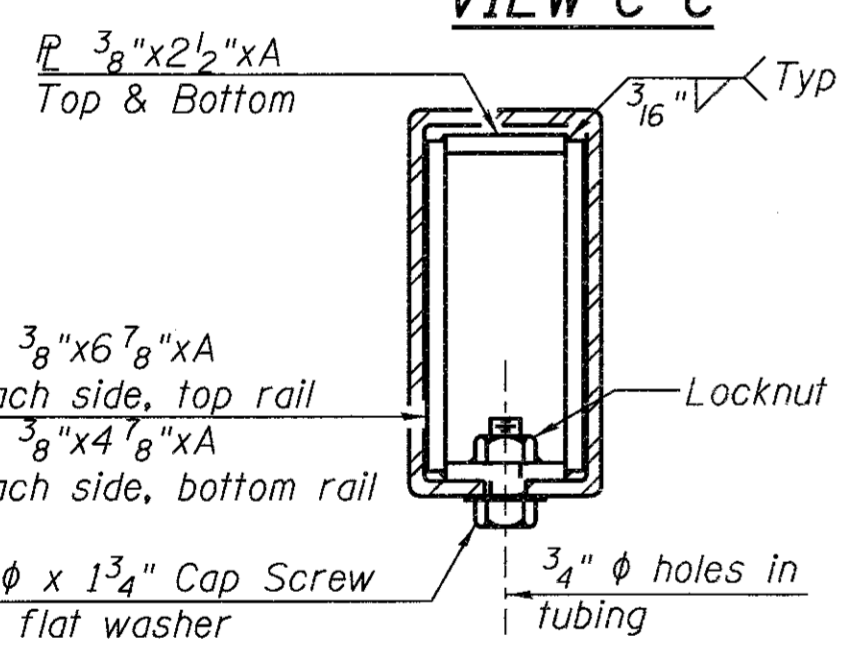
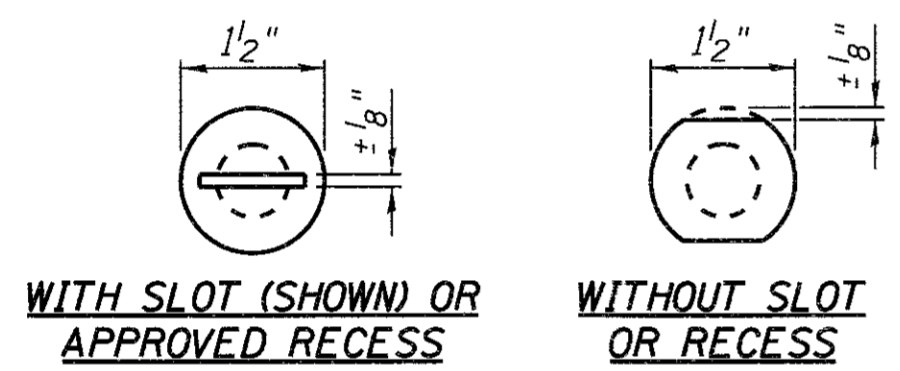
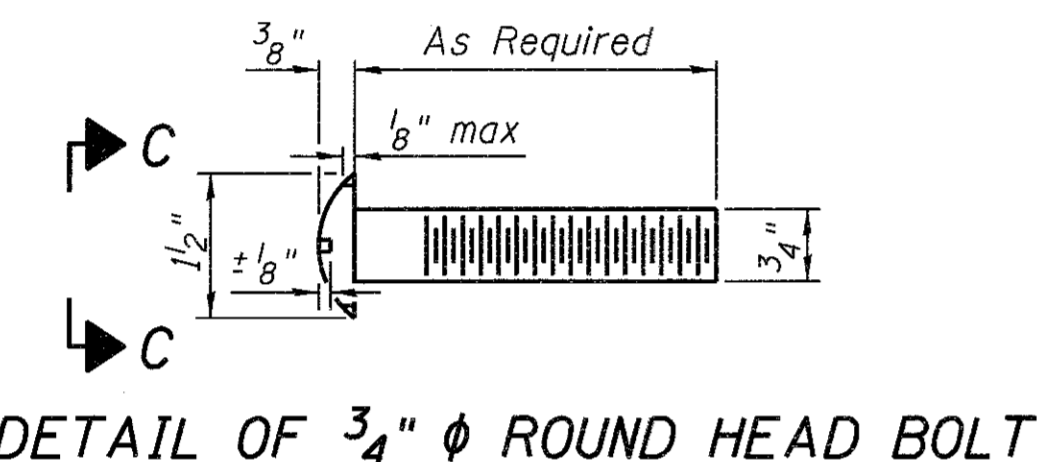
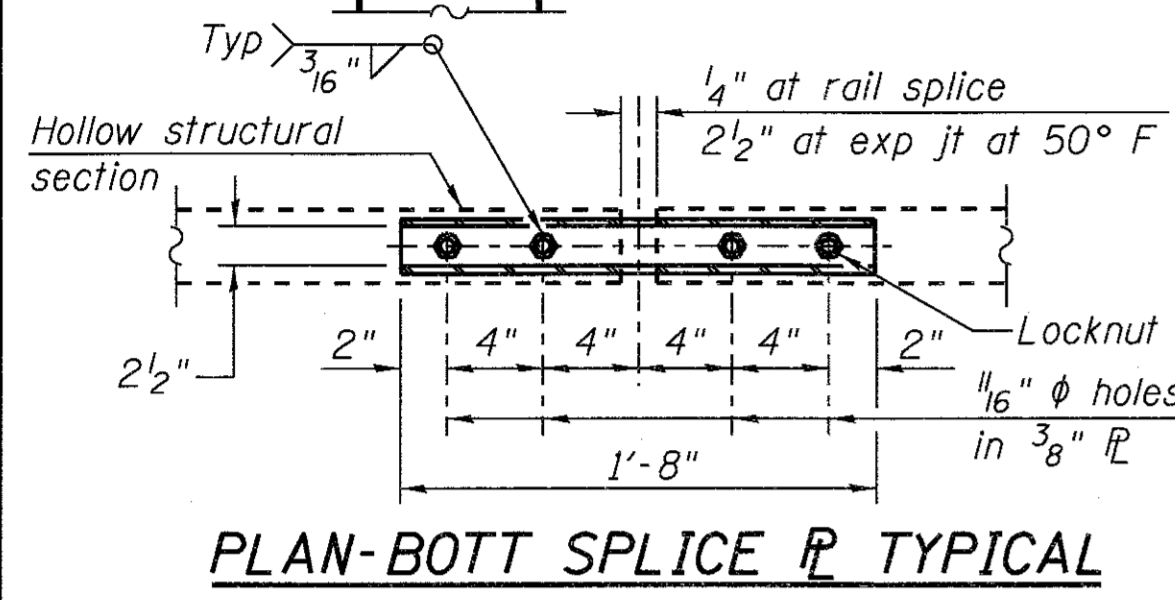
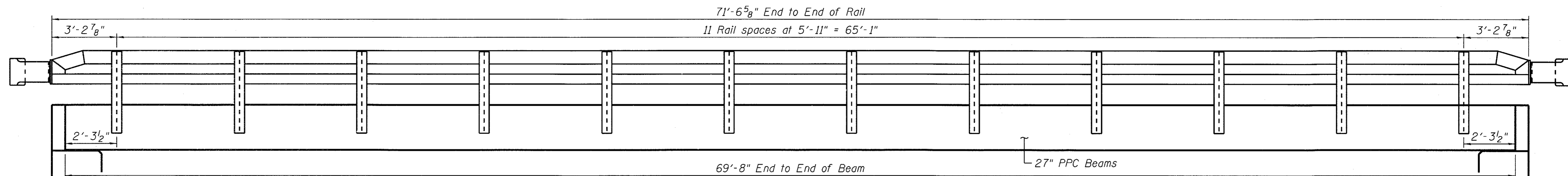
DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

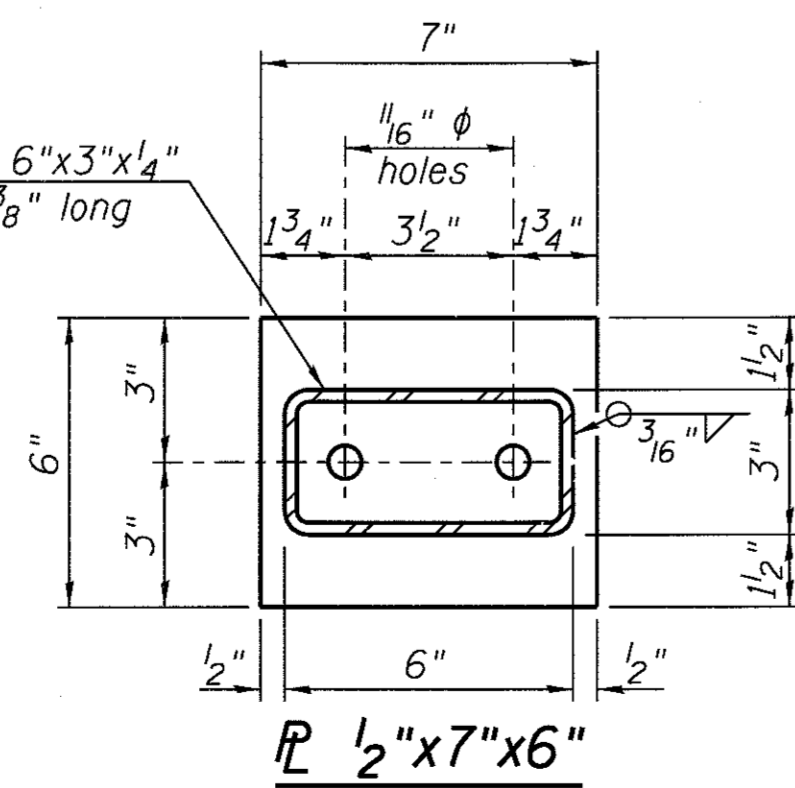
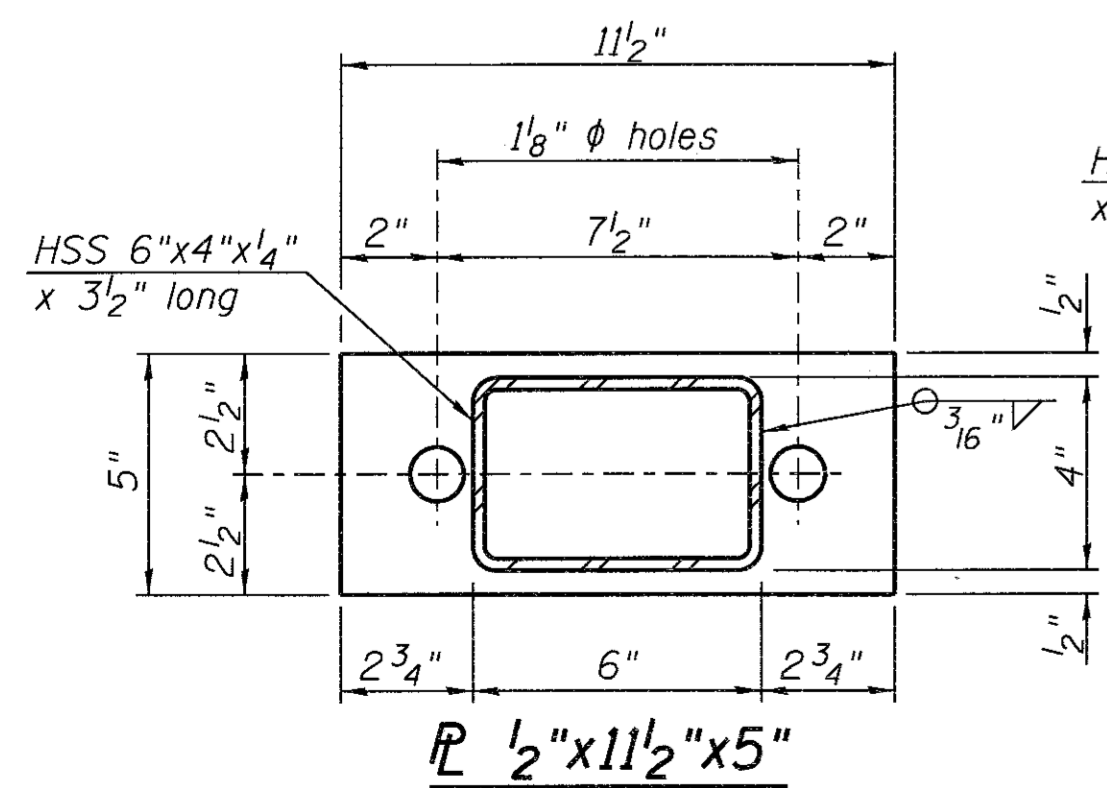
EAST ABUTMENT DETAILS
STRUCTURE NO. 050-3603
 STRUCTURAL SHEET NO. 6 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	13
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C2CQ (370)				

FILE # SA PROJECTS 2015 1230015 LCH DESIGN STRUCTURE.DWG DATE 01/15/15 EAST ABUTMENT DESIGN



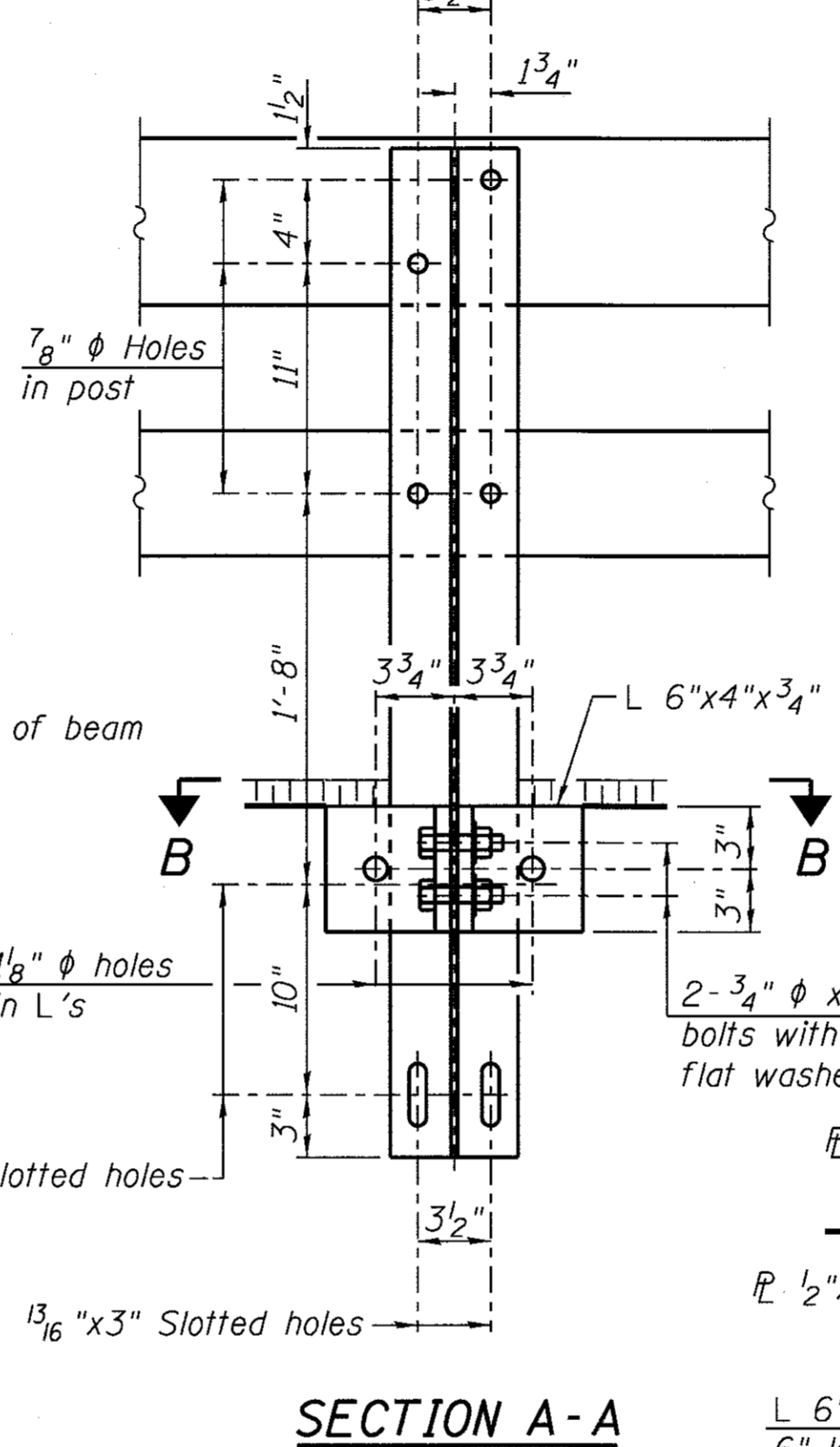
SECTION AT RAIL SPLICE



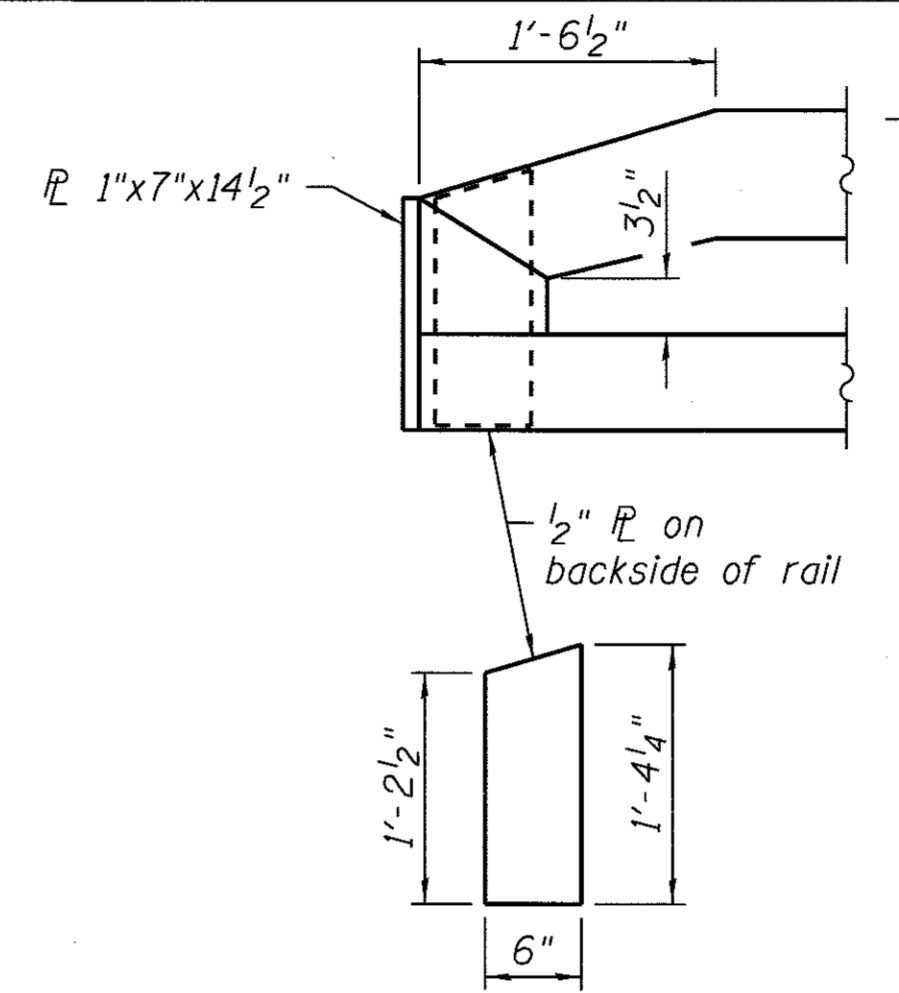
ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

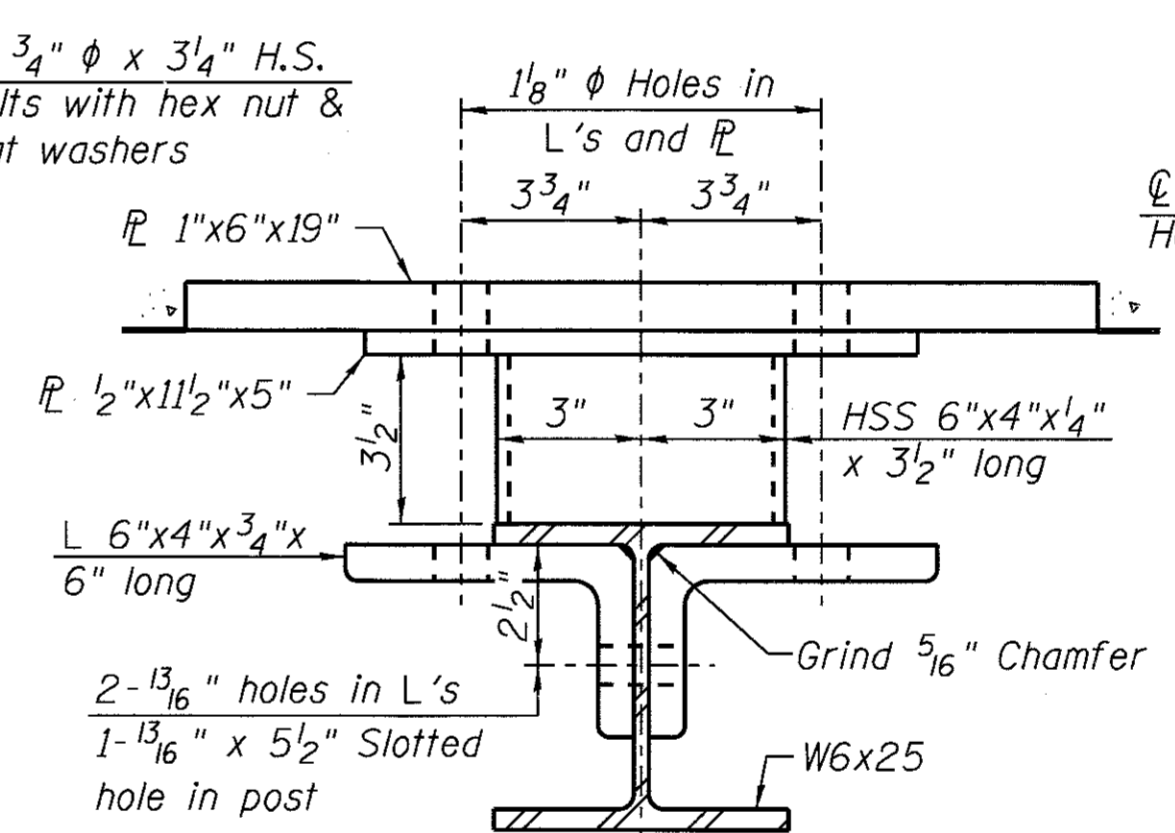
ELEVATION VIEW



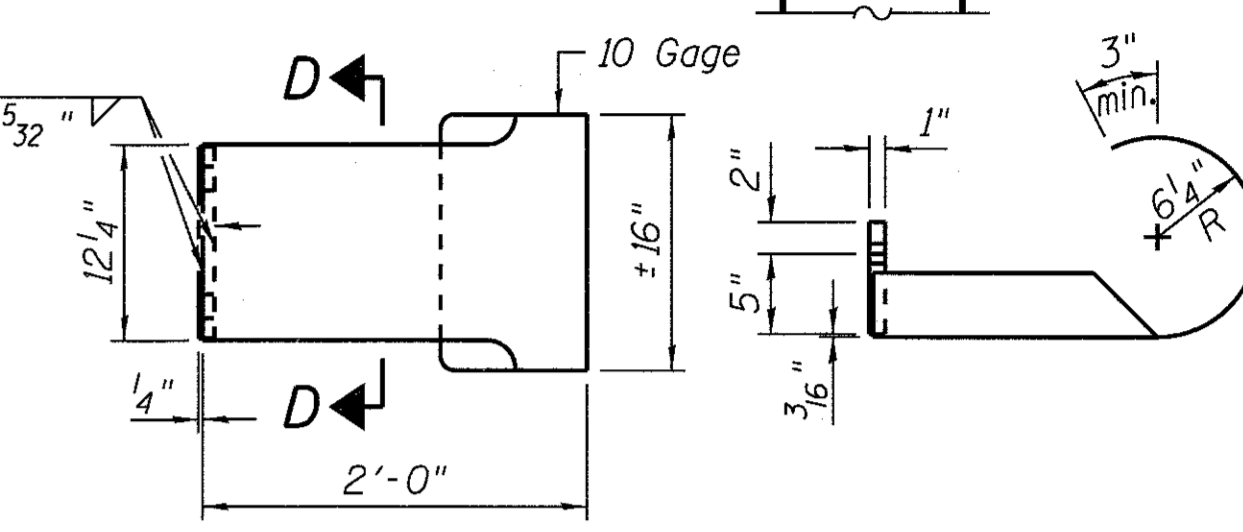
SECTION A-A



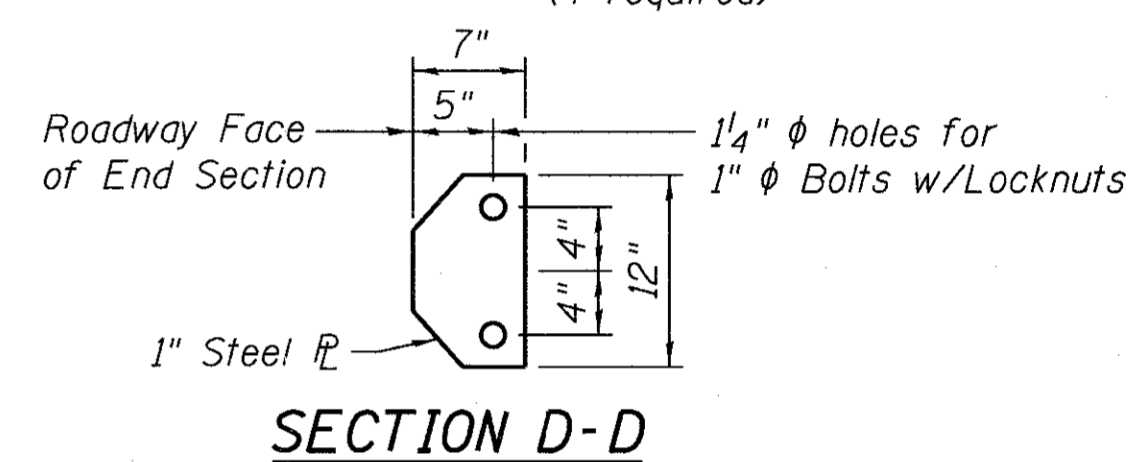
END OF RAIL DETAILS



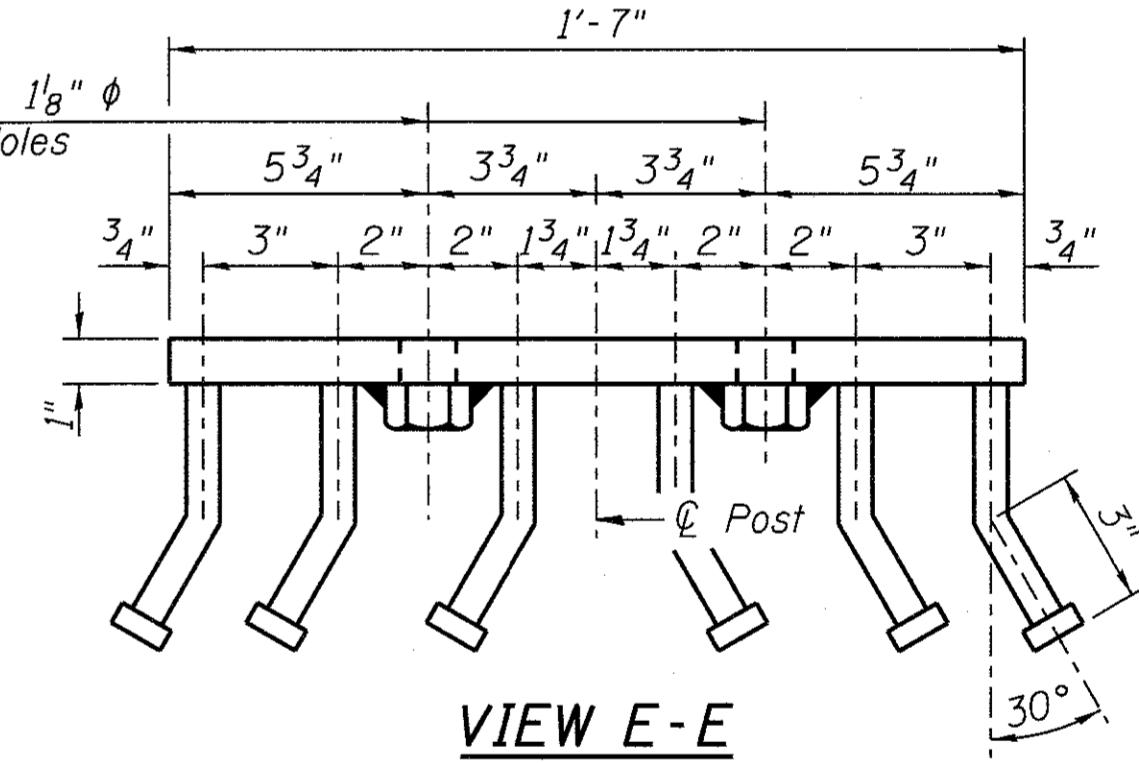
SECTION B-B



CURLED END SECTION DETAILS



SECTION D-D



VIEW E-E

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	143

NOTES:

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

WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN PHONE: #184-00918

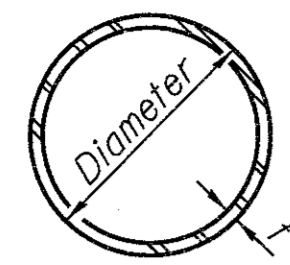
DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

STEEL RAILING, TYPE SM DETAILS
STRUCTURE NO. 050-3603
 STRUCTURAL SHEET NO. 7 OF 12 SHEETS

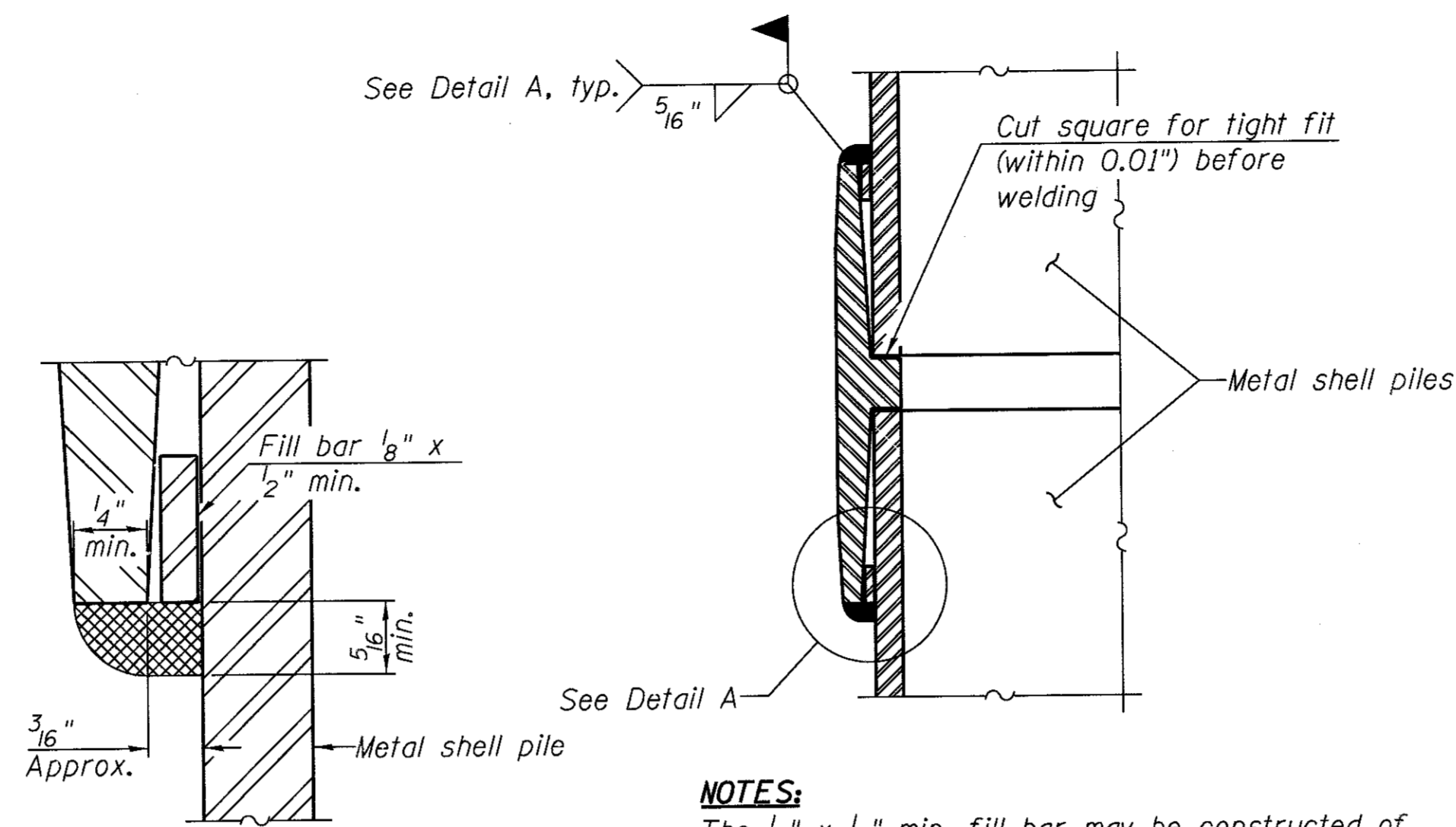
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	14
WHA# 1230D15			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C2.CQ (37b)				

FILE # SA-PROJECTS-2015-12-20-015-LCH-DESIGN-STRUCT-TX-20-Drw.rsp-12-20-015-Steel Railing_Type SM_Details.dgn



METAL SHELL PILE TABLE

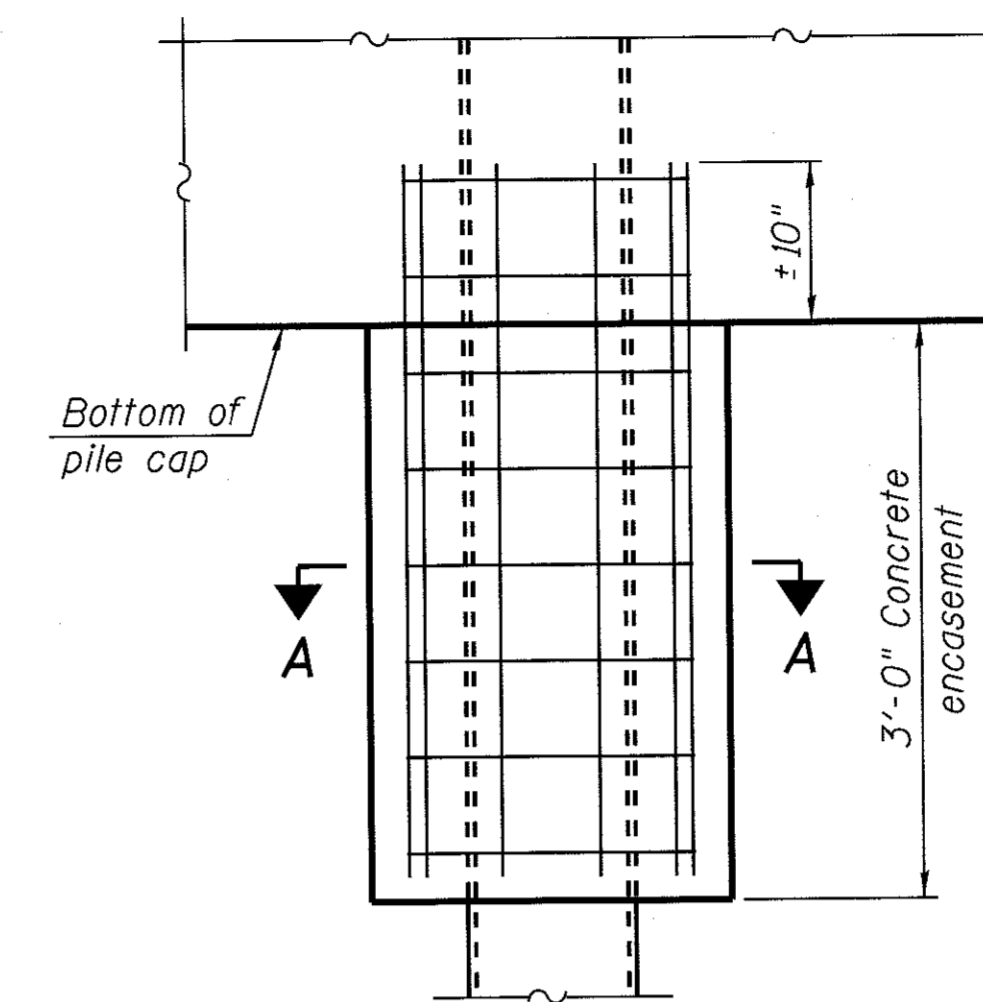
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



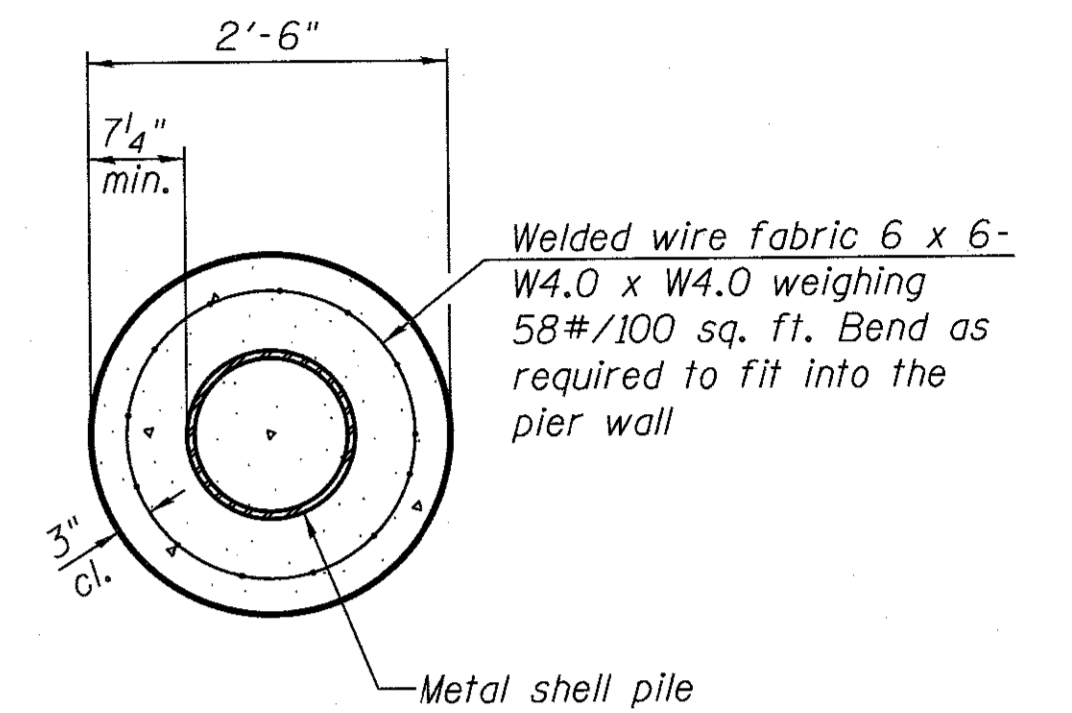
DETAIL A

NOTES:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



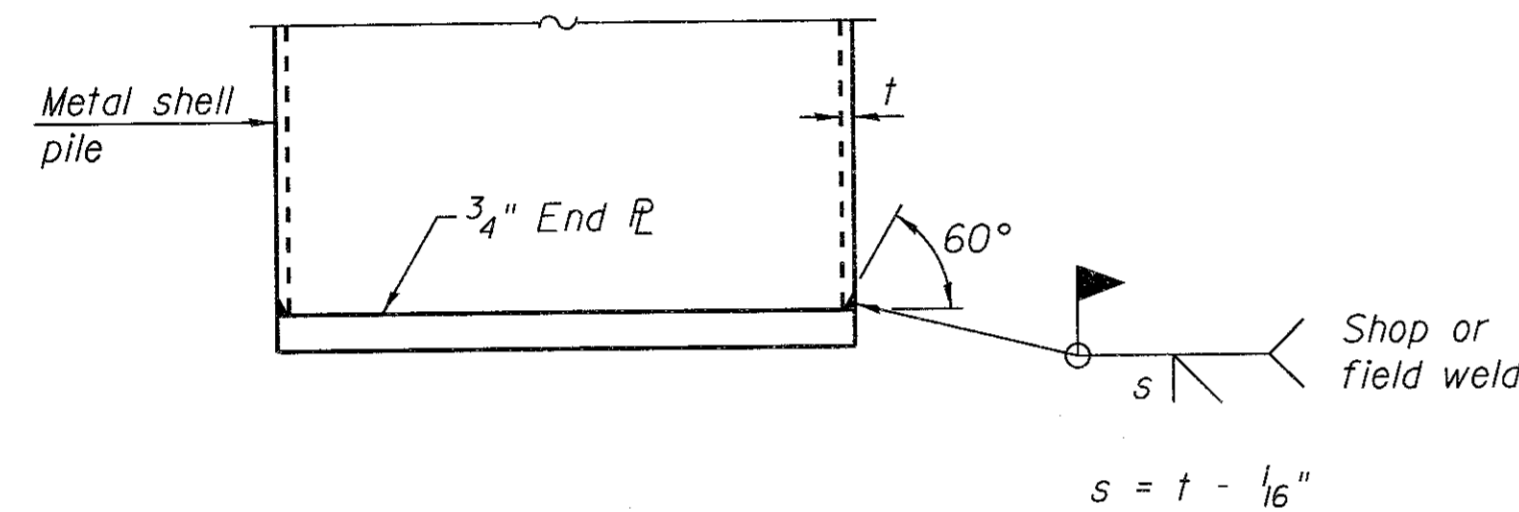
ELEVATION



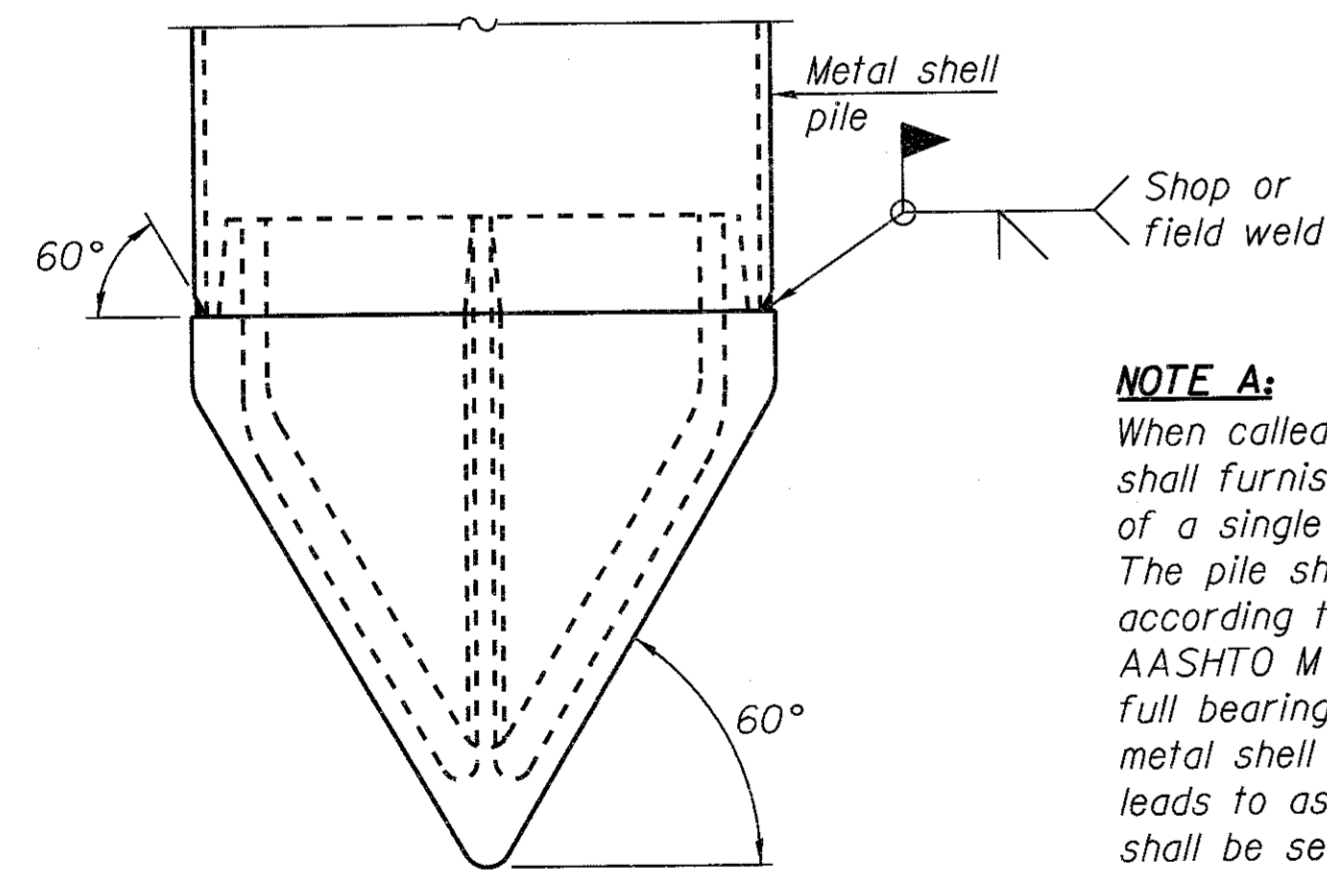
SECTION A-A

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

CONCRETE ENCASEMENT AT ABUTMENTS

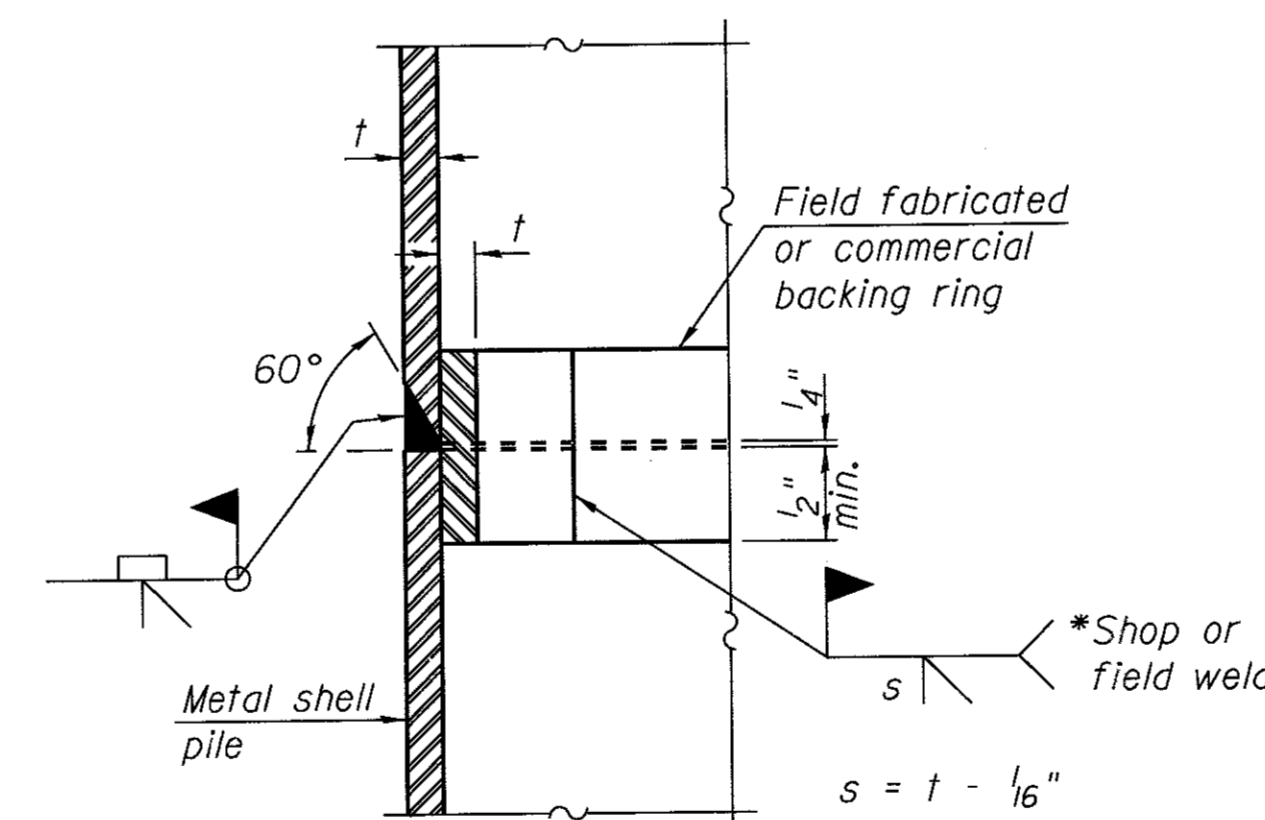


END PLATE ATTACHMENT



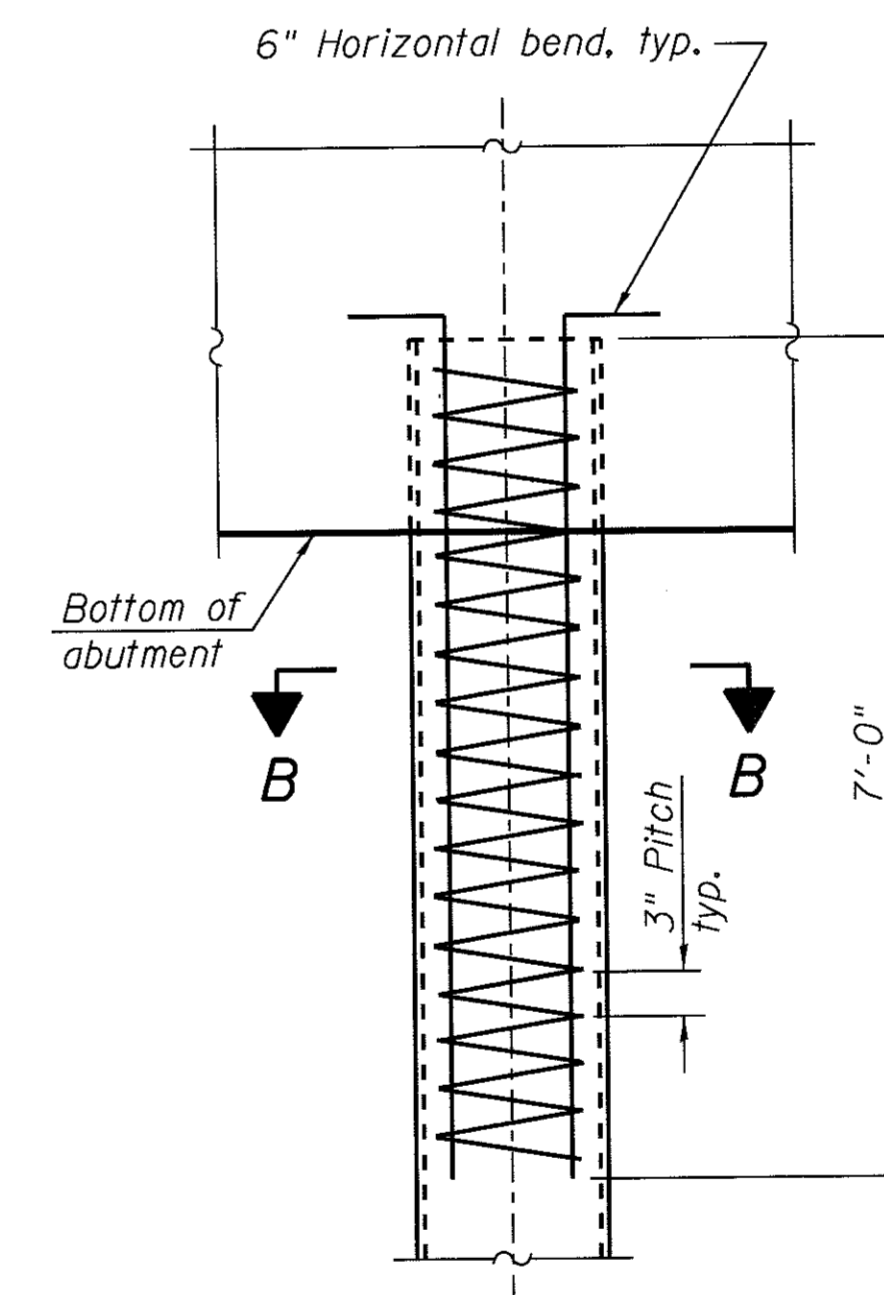
METAL SHELL PILE SHOE ATTACHMENT
 (See Note A)

NOTE A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

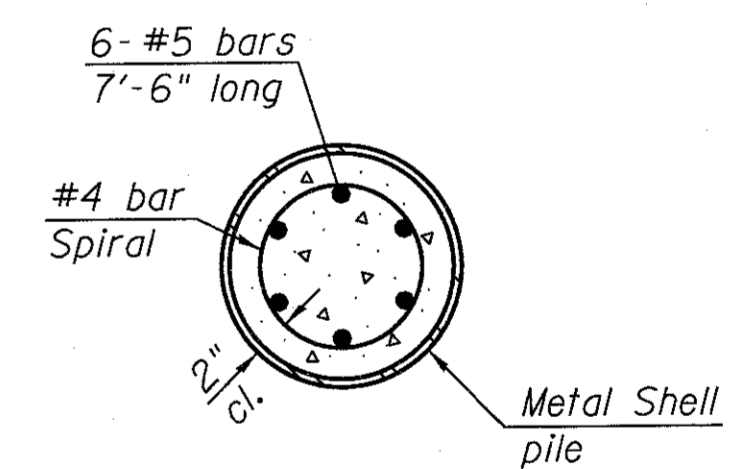


COMPLETE PENETRATION WELD SPLICE

*Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

NOTE:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

FILE # SA\PROJECTS\2015\230015\230015-1\CH\DESIGN\STRUCT\2D Drawings\Metal Shell Pile Details.dgn



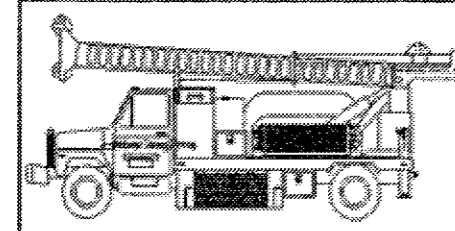
DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

METAL SHELL PILE DETAILS
STRUCTURE NO. 050-3603

STRUCTURAL SHEET NO. 8 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	15
WHA# 1230015			CONTRACT NO. 87644	
[ILLINOIS] FED. AID PROJECT (11CQ(77))				



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

BORING LOG

Sheet 1 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

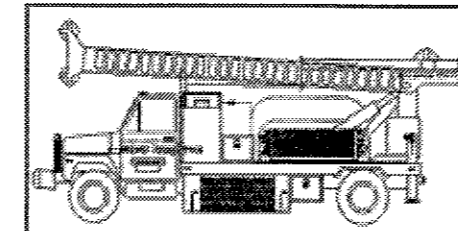
Boring No. B-1
Surface Elev. 725.40
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: 4" Rt. Station 19+58

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
725.40										Jeff Safranski Diedrich D-120	
724.40	Stiff Black And Brown Clay (Fill)		1								
723.40			2								
722.40			3	1	SS	1.4	9	S	14		
721.40			4								
720.40			5	2	SS	1.2	6	B	19		
719.40			6								
718.40			7								
717.40			8	3	SS	1.4	7	B	21		
716.40	Stiff Black Silty Clay		9								
715.40			10								
714.40		11	4	SS	1.1	6	B	24			
713.40	Medium Brown Fine To Coarse Gravel		12								
712.40			13	5	SS	---	21	---	---		
711.40			14								
710.40			15	6	SS	---	24	---	---		
709.40			16								
708.40			17								
707.40			18	7	SS	---	17	---	---		
706.40	Very Stiff Gray Clay		19								
705.40			20	8	SS	3.1	16	B	17		

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:



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

BORING LOG

Sheet 2 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

Boring No. B-1
Surface Elev. 725.40
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: 4" Rt. Station 19+58

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
704.40										Jeff Safranski Diedrich D-120	
703.40	Very Stiff Gray Clay		22								
702.40			23	9	SS	2.4	14	B	18		
701.40			24								
700.40			25								
699.40			26	10	SS	2.1	11	B	18		
698.40			27								
697.40			28	11	SS	2.4	12	B	16		
696.40			29								
695.40			30								
694.40			31	12	SS	2.3	12	B	16		
693.40			32								
692.40			33	13	SS	2.3	13	B	15		
691.40			34								
690.40			35								
689.40			36	14	SS	3.0	15	B	14		
688.40	Very Stiff Gray Clay With Silt Seams		37								
687.40			38								
686.40			39								
685.40			40								
684.40			41	15	SS	2.4	13	B	18		

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:

FILE: S:\PROJECTS\2015\1230015\1230015\1230015\1230015\Boring_Logs.dgn



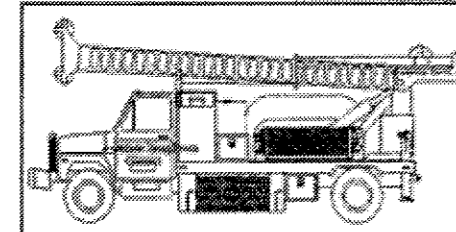
DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 050-3603

STRUCTURAL SHEET NO. 9 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	16
WHA# 1230015		CONTRACT NO. 87644		
ILLINOIS FED. AID PROJECT C1CQ (370)				



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

BORING LOG

Sheet 3 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

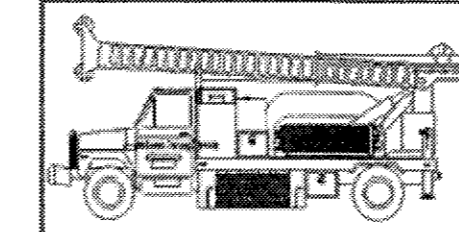
Boring No. B-1
Surface Elev. 725.40
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: 4" Rt. Station 19+58

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
683.40											
682.40			43								
681.40			44								
680.40			45	16	SS	---	15	---	---		
679.40	Medium Clay Fine To Coarse Sand		46								
678.40			47								
677.40			48								
676.40			49								
675.40			50								
674.40			51	17	SS	---	18	---	---		
673.40			52								
672.40			53								
671.40			54								
670.40			55								
669.40	Very Stiff Gray Clay		56	18	SS	2.2	13	B	17		
668.40			57								
667.40			58								
666.40			59								
665.40			60								
664.40			61	19	SS	2.5	14	B	16		
663.40			62								

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:



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

BORING LOG

Sheet 4 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

Boring No. B-1
Surface Elev. 725.40
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: 4" Rt. Station 19+58

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
662.40											
661.40			64								
660.40			65								
659.40			66	20	SS	4.4	20	S	11		
658.40			67								
657.40			68								
656.40	Hard Light Brown Silty Loam Till		69								
655.40			70								
654.40			71	21	SS	4.2	23	S	10		
653.40			72								
652.40			73								
651.40			74								
650.40			75								
649.40			76	22	SS	4.2	21	S	10		
648.40	Boring Terminated		77								
647.40			78								
646.40			79								
645.40			80								
644.40			81								
643.40			82								
642.40			83								

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:

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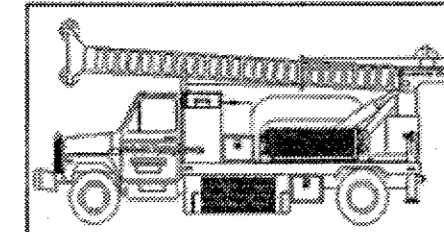
DESIGNED - JKP
CHECKED - BKC
DRAWN - RDA
CHECKED - MAC

REVISED -
REVISED -
REVISED -
REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 050-3603
STRUCTURAL SHEET NO. 10 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	17
WHA* 1230015			CONTRACT NO. 87644	
[ILLINOIS] FED. AID PROJECT C.C.C.Q. (370)				



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

BORING LOG

Sheet 1 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

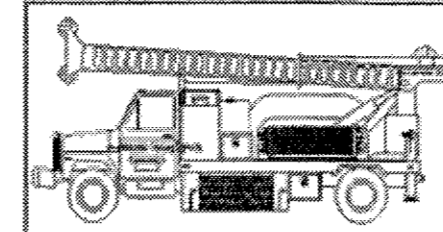
Boring No. B-2
Surface Elev. 725.20
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: Centerline Station 20+44

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					Dry Density (PCF)	DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear			
725.20									Jeff Safranski Diedrich D-120		
724.20			1								
723.20			2								
722.20	Stiff Black And Brown Clay (Fill)		3	1	SS	1.8	12	S	13		
721.20			4								
720.20			5	2	SS	1.5	10	B	18		
719.20			6								
718.20			7								
717.20			8	3	SS	1.2	8	B	20		
716.20			9								
715.20	Stiff Black Silty Clay		10	4	SS	1.0	5	B	22		
714.20			11								
713.20	Very Stiff Gray Clay		12								
712.20			13	5	SS	2.6	12	B	19		
711.20			14								
710.20			15	6	SS	2.6	15	B	18		
709.20			16								
708.20			17								
707.20			18	7	SS	2.3	14	B	18		
706.20			19								
705.20		20	8	SS	3.2	17	B	16			

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:



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

BORING LOG

Sheet 2 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

Boring No. B-2
Surface Elev. 725.20
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: Centerline Station 20+44

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					Dry Density (PCF)	DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear			
704.20									Jeff Safranski Diedrich D-120		
703.20			22								
702.20			23	9	SS	2.2	12	B			
701.20			24								
700.20			25								
699.20	Very Stiff Gray Clay		26	10	SS	2.4	14	B			
698.20			27								
697.20			28	11	SS	2.5	14	B			
696.20			29								
695.20			30								
694.20			31	12	SS	2.6	15	B	14		
693.20			32								
692.20			33	13	SS	2.6	16	B	15		
691.20			34								
690.20			35								
689.20			36	14	SS	3.5	18	B	13		
688.20			37								
687.20			38								
686.20			39								
685.20	Medium Gray Fine Sand		40	15	SS	---	16	---	---		
684.20			41								

Groundwater Data: Static Water level after auger removal - Elevation 713.0.

Comments:

FILE - SA\PROJECTS\2015\1230015\1230015\1230015\1230015\Boring_Logs.dgn



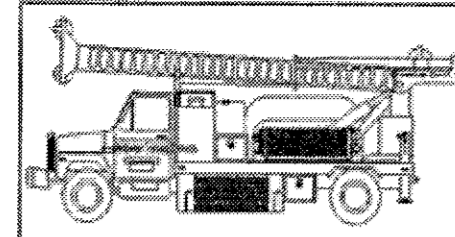
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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

BORING LOGS
STRUCTURE NO. 050-3603

STRUCTURAL SHEET NO. 11 OF 12 SHEETS

TWP. R1E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	18
WHA# 1230D15			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C2CQ (370)				



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

BORING LOG

Sheet 3 of 4

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

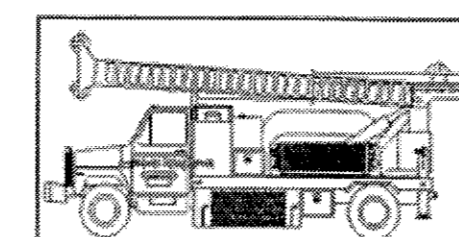
Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

Boring No. B-2
Surface Elev. 725.20
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: Centerline Station 20+44

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
683.20										Jeff Safranski Diedrich D-120	
682.20			43								
681.20			44								
680.20			45	16	SS	---	18	---	---		
679.20			46								
678.20			47								
677.20	Medium Gray Fine Sand To Coarse Gravel		48								
676.20			49								
675.20			50	17	SS	---	21	---	---		
674.20			51								
673.20			52								
672.20			53								
671.20			54								
670.20			55	18	SS	---	28	---	---		
669.20			56								
668.20			57								
667.20			58								
666.20	Hard Light Brown Silty Loam Till		59								
665.20			60	19	SS	4.3	22	S	10		
664.20			61								
663.20			62								

Groundwater Data: Static Water level after auger removal - Elevation 713.0.
Comments:



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

BORING LOG

Sheet 4 of 4

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

Client: Willett Hofmann & Associates
Project Name: TR19 (N47th Rd) Over Indian Creek
Project Site: Meriden Twp. LaSalle County, IL.

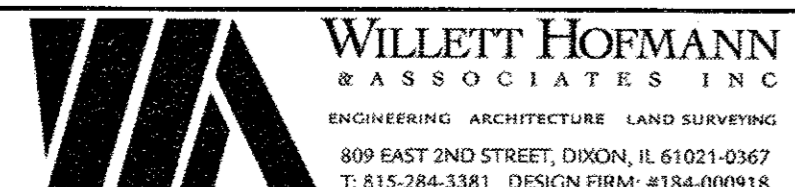
Boring No. B-2
Surface Elev. 725.20
Auger Depth 76' Rotary Depth NA
Start Date 03/25/16 Finish Date 03/25/16

Location: Centerline Station 20+44

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
662.20										Jeff Safranski Diedrich D-120	
661.20			64								
660.20			65								
659.20			66	20	SS	4.5	24	S	10		
658.20			67								
657.20			68								
656.20			69								
655.20	Hard Light Brown Silty Loam Till		70	21	SS	4.2	22	S	11		
654.20			71								
653.20			72								
652.20			73								
651.20			74								
650.20			75								
649.20			76	22	SS	4.6	22	S	10		
648.20	Boring Terminated		77								
647.20			78								
646.20			79								
645.20			80								
644.20			81								
643.20			82								
642.20			83								

Groundwater Data: Static Water level after auger removal - Elevation 713.0.
Comments:

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DESIGNED - JKP	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
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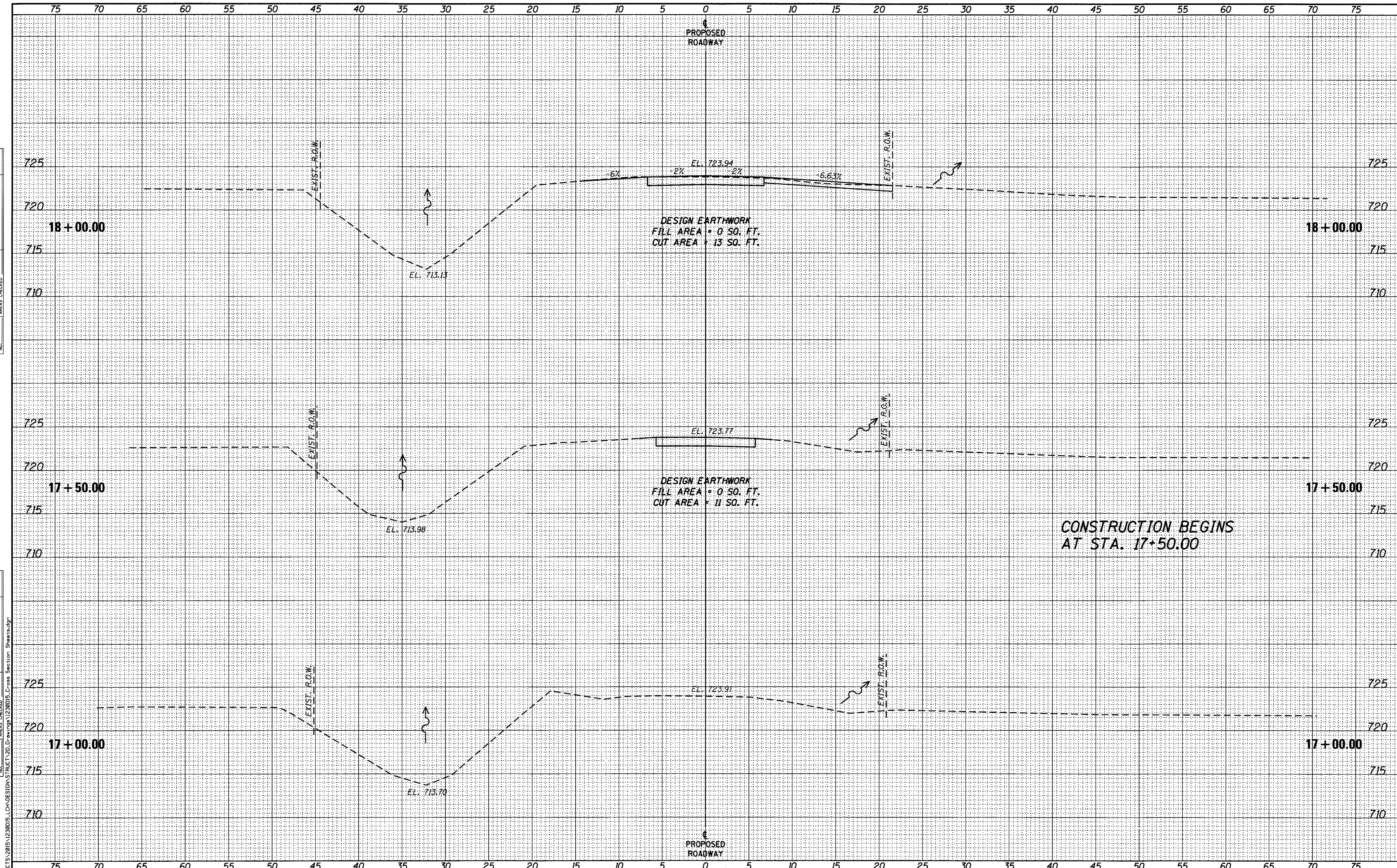
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 050-3603
STRUCTURAL SHEET NO. 12 OF 12 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	19
WHA* 1230015		CONTRACT NO. 87644		
[ILLINOIS] FED. AID PROJECT 21C(376)				

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

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



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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
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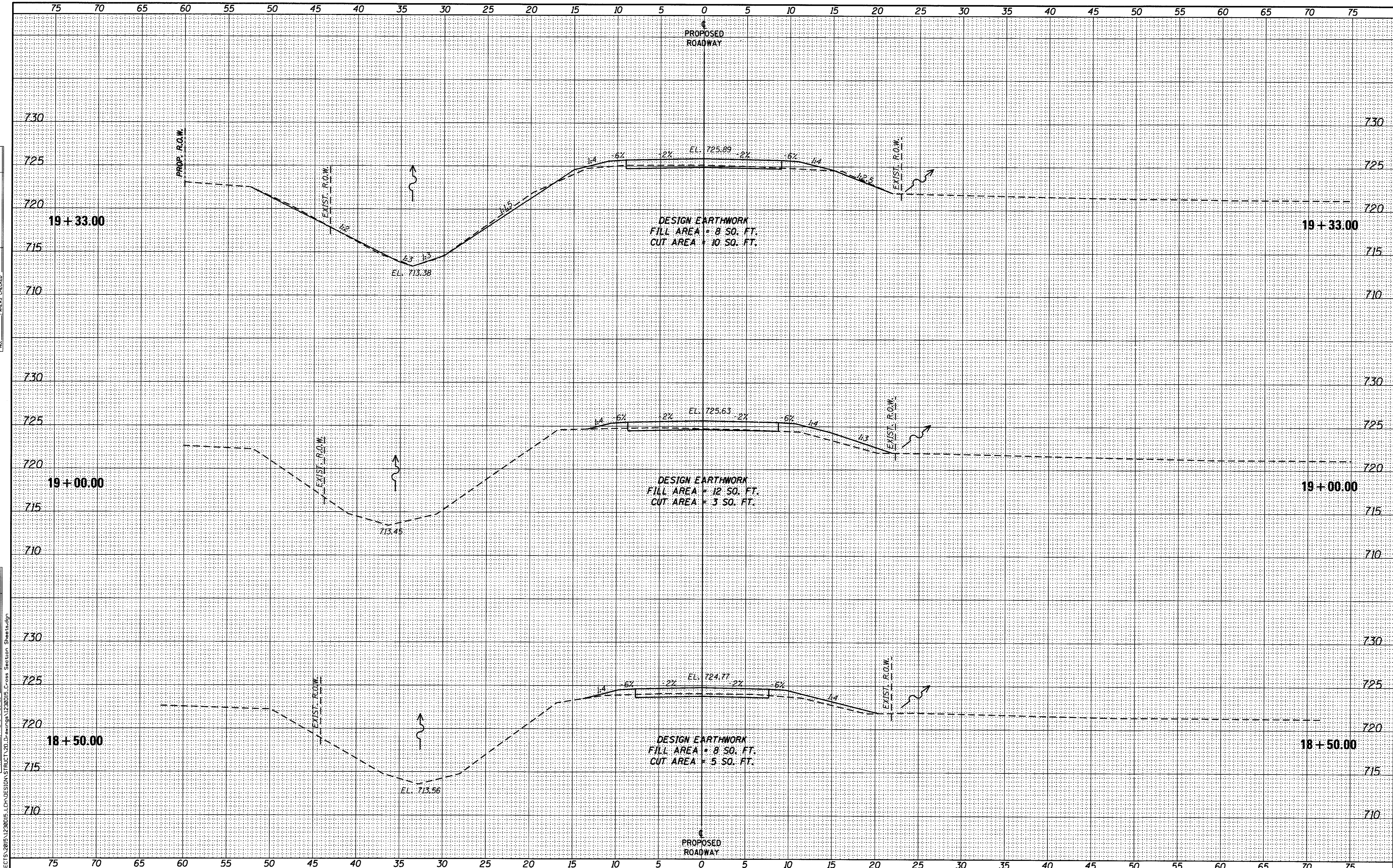
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20 + 00

CROSS SECTIONS
STRUCTURE NO. 050-3603
 SCALE: 1" = 5'-0" SHEET NO. 1 OF 5 SHEETS STA. 17+00.00 TO STA. 18+00.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	20
WHA# 1230015			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT C3C2(372)				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



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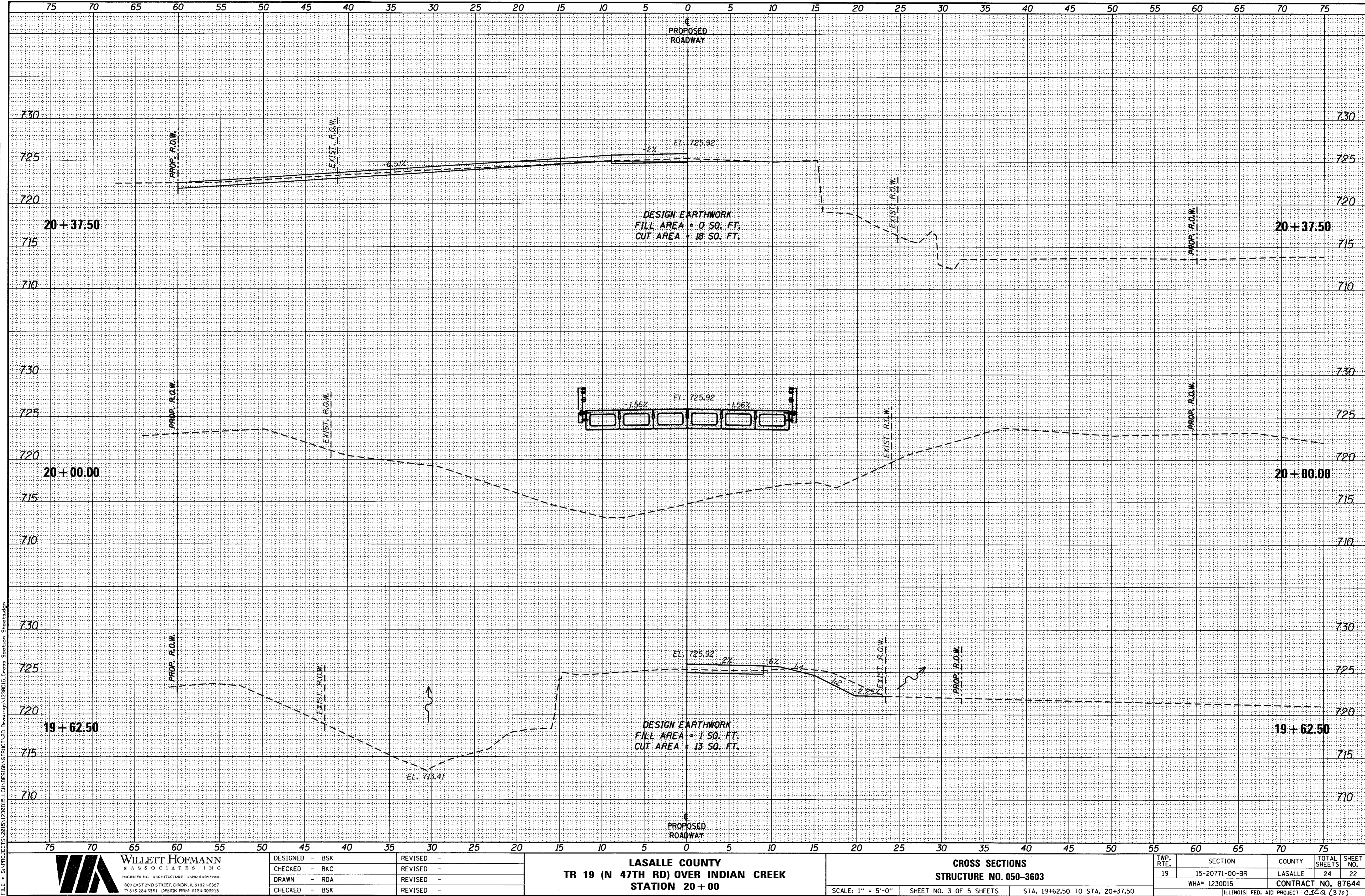
LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

CROSS SECTIONS
STRUCTURE NO. 050-3603
 SCALE: 1" = 5'-0" SHEET NO. 2 OF 5 SHEETS STA. 18+50.00 TO STA. 19+33.00

TWP. 19	SECTION 15-20771-00-BR	COUNTY LASALLE	TOTAL SHEETS 24	SHEET NO. 21
WHA* 1230D15		CONTRACT NO. 87644		
ILLINOIS FED. AID PROJECT C-100 (376)				

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

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



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DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

LASALLE COUNTY
 TR 19 (N 47TH RD) OVER INDIAN CREEK
 STATION 20 + 00

CROSS SECTIONS
 STRUCTURE NO. 050-3603

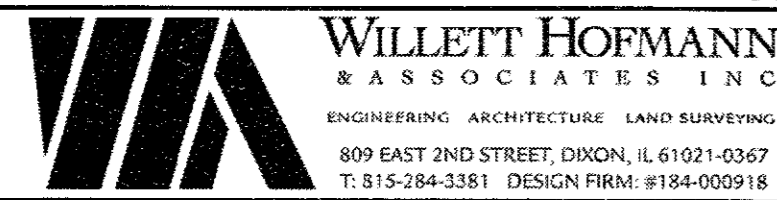
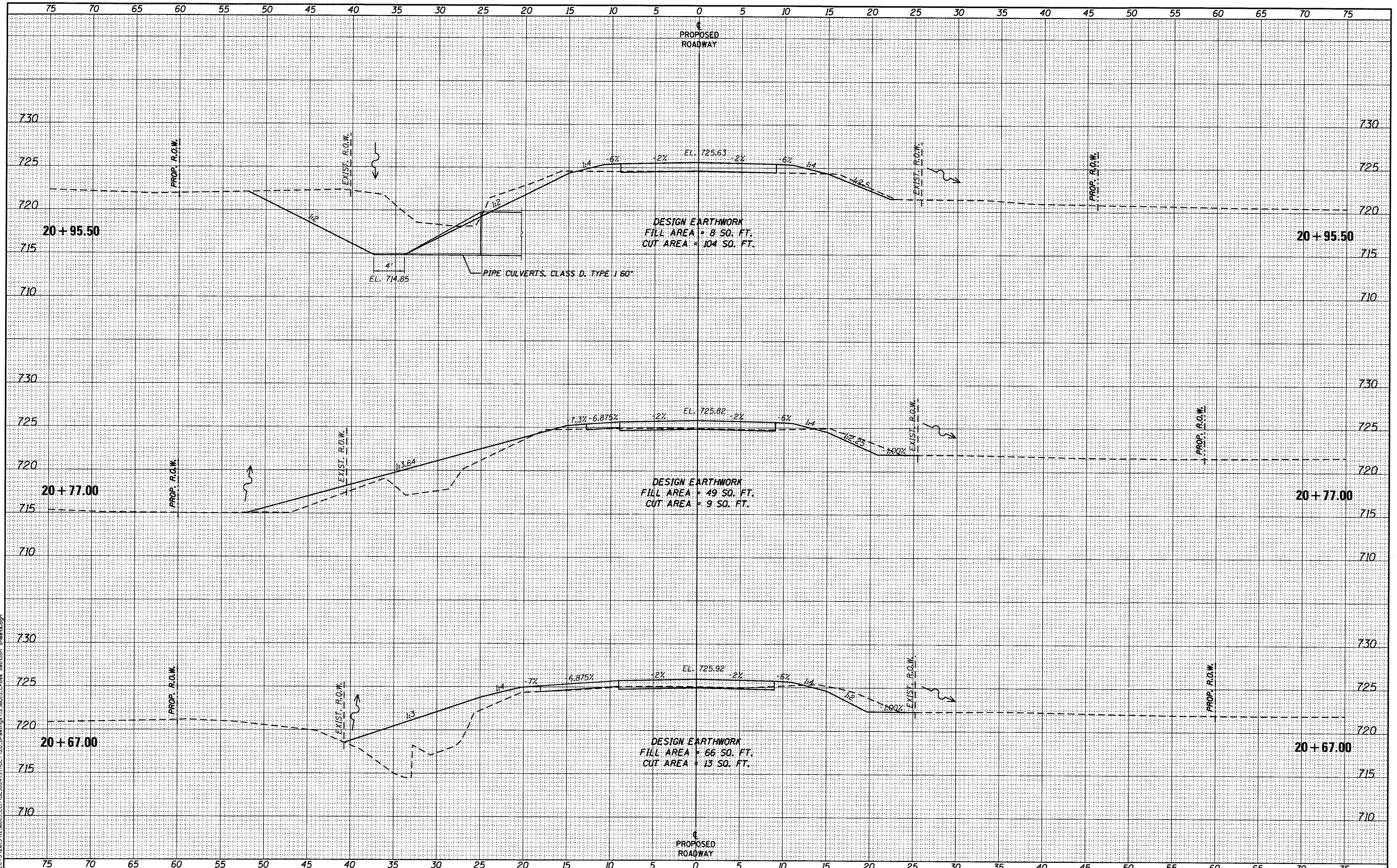
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TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	22
WHA# 1230D15			CONTRACT NO. 87644	
ILLINOIS FED. AID PROJECT 21CQ (370)				

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

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

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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

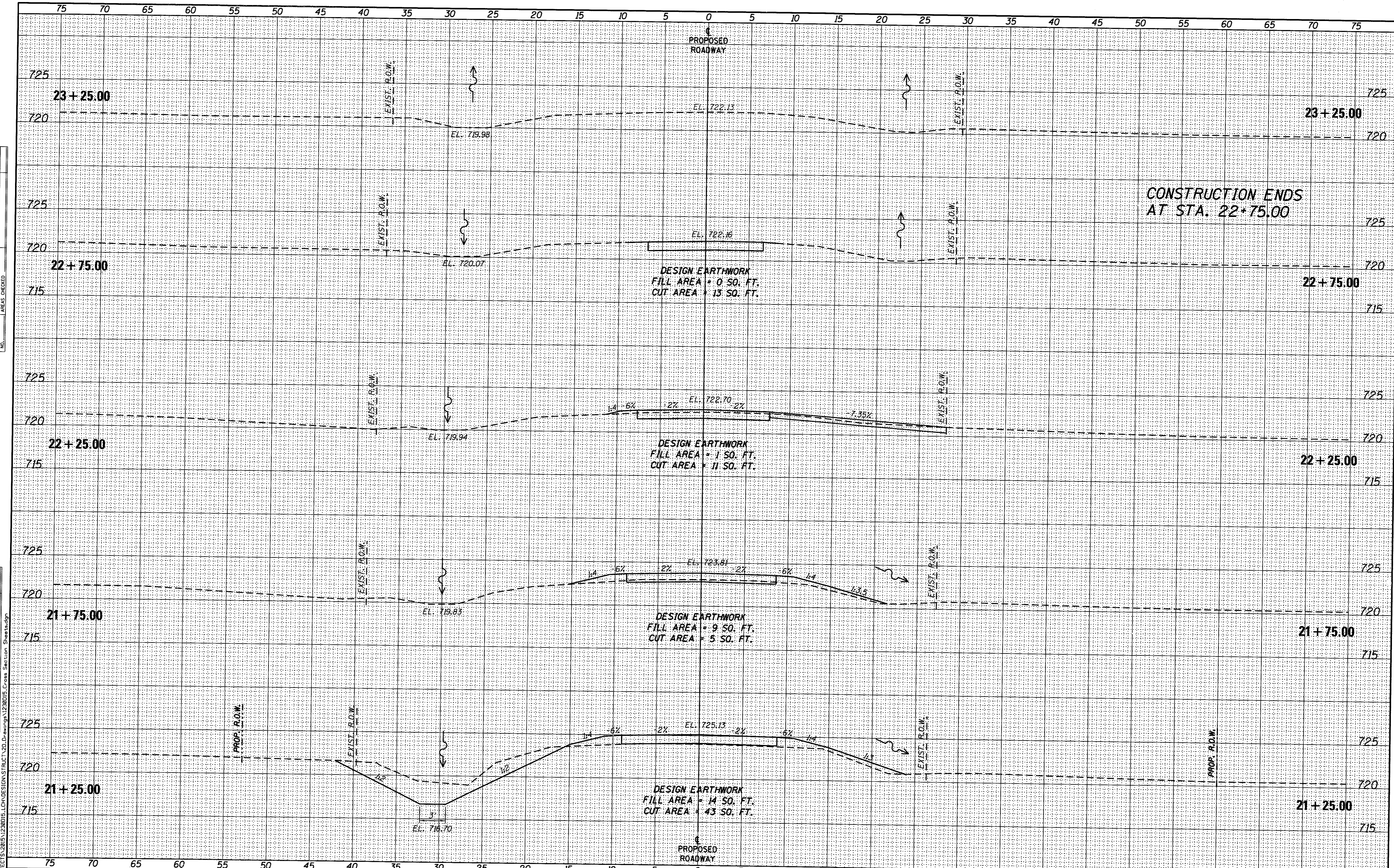
LASALLE COUNTY
 TR 19 (N 47TH RD) OVER INDIAN CREEK
 STATION 20 + 00

CROSS SECTIONS
 STRUCTURE NO. 050-3603
 SCALE: 1" = 5'-0"
 SHEET NO. 4 OF 5 SHEETS
 STA. 20+67.00 TO STA. 20+95.00

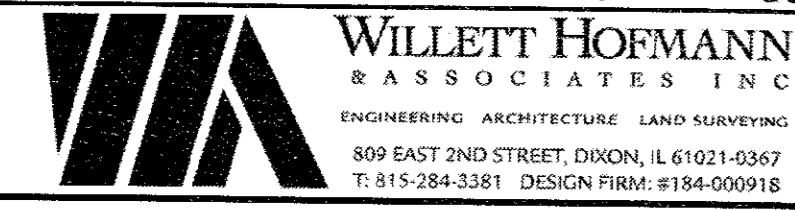
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	23
WHA# 1230015			CONTRACT NO. 87644	
[ILLINOIS] FED. AID PROJECT CIG (37)				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



CONSTRUCTION ENDS
AT STA. 22+75.00



DESIGNED - BSK	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - BSK	REVISED -

LASALLE COUNTY
TR 19 (N 47TH RD) OVER INDIAN CREEK
STATION 20+00

CROSS SECTIONS
STRUCTURE NO. 050-3603
SCALE: 1" = 5'-0" SHEET NO. 5 OF 5 SHEETS STA. 21+25.00 TO STA. 23+25.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	15-20771-00-BR	LASALLE	24	24
WHA* 1230015		CONTRACT NO. 87644		
ILLINOIS FED. AID PROJECT C1CQ (370)				