

04-24-2015 LETTING ITEM 181

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BLR 23-4	TRAFFIC BARRIER TERMINAL TYPE 1

UTILITY COMPANIES

CommED
JOLIET, ILLINOIS

AGL RESOURCES
NAPERVILLE, ILLINOIS

MEDIACOM
ELBURN, ILLINOIS

FRONTIER
NORMAL, ILLINOIS

MARSEILLES TELEPHONE
METAMORA, ILLINOIS

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

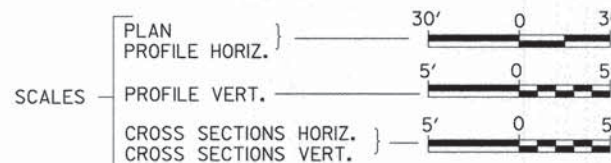
CONTRACT NO. 87588

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM - BRIDGE
LASALLE COUNTY
SECTION 16-00732-00-BR
F.A.S. 272 (CH 6) OVER COVEL CREEK TRIBUTARY
PROJECT NO. BRS-0272(112)
JOB NUMBER C-93-078-14

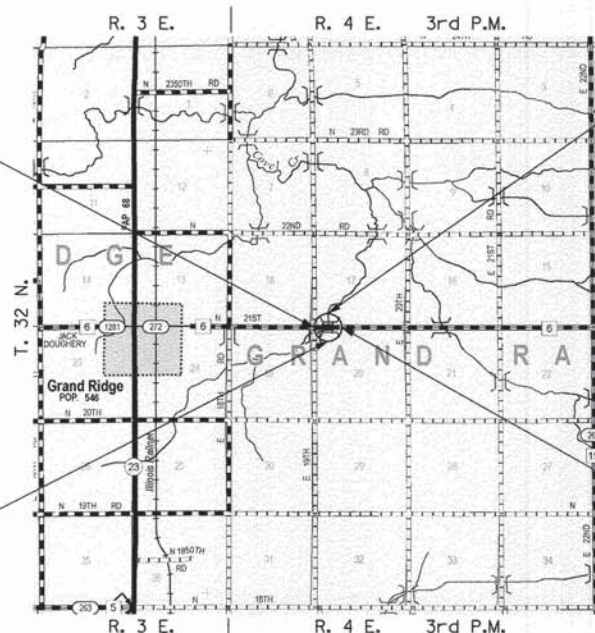
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 87588		



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



SECTION 16-00732-00-BR
BEGINS
STATION 14+50.00

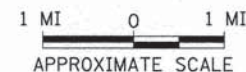


EXISTING STRUCTURE SN 050-3464
SINGLE SPAN PRECAST PRESTRESSED CONCRETE
DECK BEAM SUPERSTRUCTURE SUPPORTED ON
TIMBER PILE CLOSED ABUTMENTS WITH
REINFORCED CONCRETE CAPS, 37'-0" BK. TO BK.,
AND 40'-0" O. TO O., NO SKEW (TO BE REMOVED)

PROPOSED STRUCTURE NO. 050-3614
SINGLE SPAN 36" P.P.C. I-BEAM WITH
CONCRETE DECK SUPERSTRUCTURE
ON CONC. INTEGRAL ABUTMENTS,
57'-0" BK. TO BK. AND 35'-0" O. TO O.,
NO SKEW.

SECTION 16-00732-00-BR
ENDS
STATION 25+50.00

LOCATION MAP

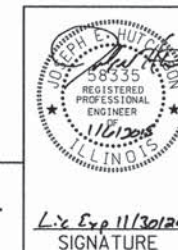


NET LENGTH OF PROJECT = 1,100.00 FEET = 0.208 MILES
DESIGN CLASSIFICATION: MAJOR-COLLECTOR (NON-URBAN)
DESIGN ADT = 1,410 (2035)
DESIGN SPEED = 50 MPH

Hutchison Engineering, Inc.
JACKSONVILLE-SHOREWOOD-PEORIA

2015

JOB#3460



L. & Exp. 11/30/2015
SIGNATURE

ENGINEER'S SEAL

PLANS DESIGNED IN ACCORDANCE WITH BUREAU
OF LOCAL ROADS AND STREETS MANUAL GUIDELINES
FOR TWO LANE RURAL COLLECTORS - RECONSTRUCTION

APPROVED 1-8 2015

Lawrence J. Kruger
LASALLE COUNTY ENGINEER

PASSED 1-20 2015

David B. E. O.
DISTRICT THREE ENGINEER OF
LOCAL ROADS & STREETS

Released For
Bid Based on
Limited Review 1-20 2015

Paul A. Wiese
DEPUTY DIRECTOR OF HIGHWAYS,
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

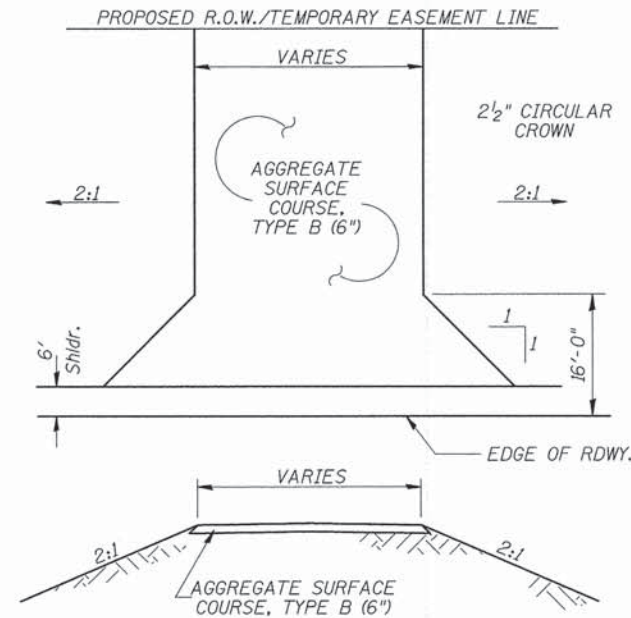
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	HMA BINDER	HMA SURFACE
PG GRADE**	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION*	IL-19.0 FG	IL-9.5
FRICTION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	CORES	CORES

- * OTHER MIXES CAN BE USED WITH WRITTEN PERMISSION FROM THE ENGINEER.
- ** WHEN RAP/RAS ABR EXCEEDS 20 PERCENT, THE HIGH AND LOW VIRGIN ASPHALT BINDER GRADES SHALL EACH BE REDUCED BY ONE GRADE (i.e. 25% ABR WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG 64-22 TO BE REDUCED TO PG 58-28).

**STRUCTURAL DESIGN INFORMATION
COUNTY HIGHWAY 6**

ROAD CLASSIFICATION: CLASS III 80,000 lb./20 YEAR DESIGN
 STRUCTURAL DESIGN TRAFFIC:
 PV = 1,185 SU = 94 MU = 67
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 88% S = 7% M = 5%
 MINIMUM SUBGRADE SUPPORT RATING: FAIR
 FLEXIBLE PAVEMENT DESIGN: MINIMUM TF = 0.36
 ASPHALT PAVEMENT THICKNESS: 10"
 AGGREGATE SUBGRADE IMPROVEMENT: 12"



PROPOSED FIELD ENTRANCES

- STA 14+83 RT (24' WIDE)
- STA 17+50 LT (26' WIDE)
- STA 21+95 LT (22' WIDE)
- STA 22+25 RT (25' WIDE)

GENERAL NOTES

THE REMOVAL OF EXISTING ASPHALT SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION

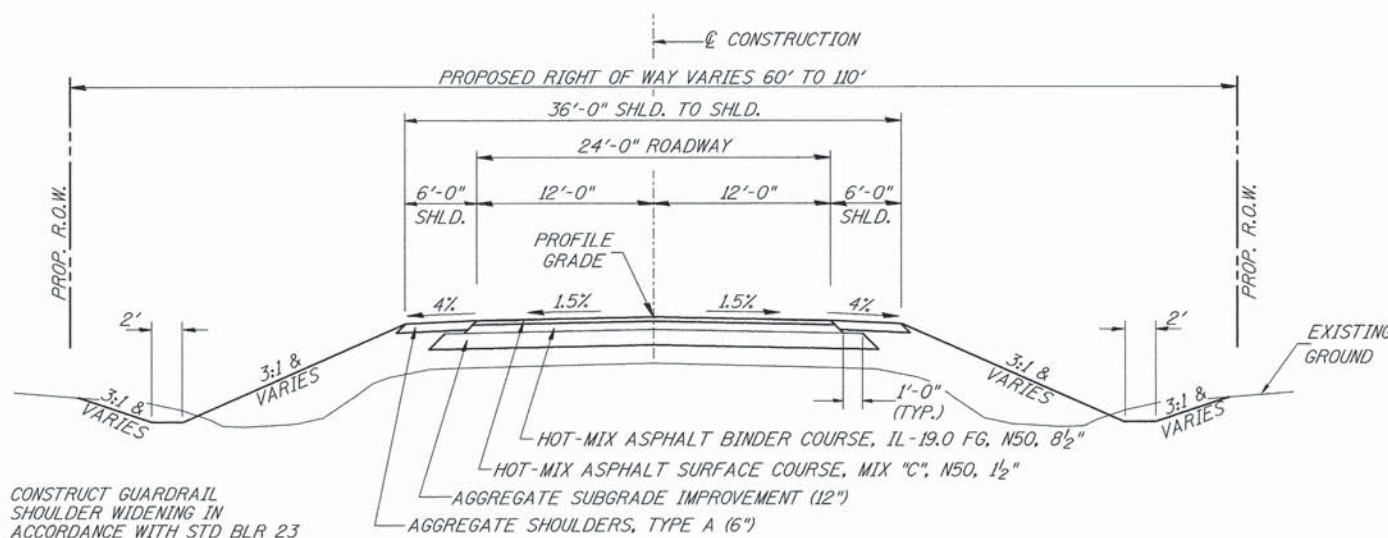
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDER AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.



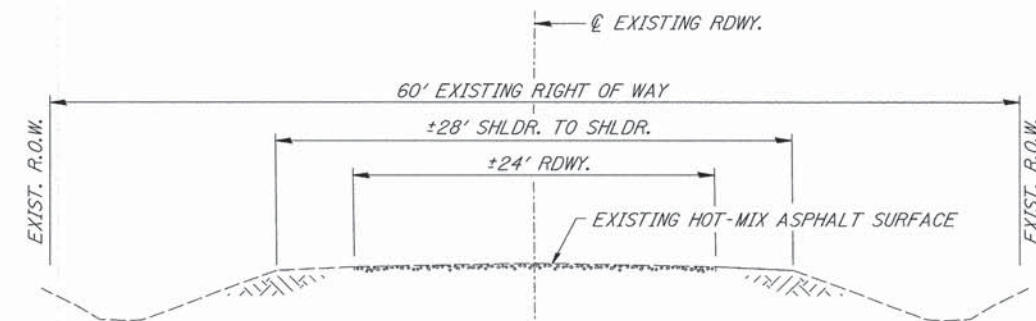
PROPOSED TYPICAL SECTION

STA. 14+50.00 TO STA. 19+37.50
 STA. 20+62.50 TO STA. 25+50.00
 EXCEPT TRANSITIONS

BRIDGE APPROACH PAVEMENT CONNECTOR
 STA. 19+37.50 TO STA. 19+42.50
 STA. 20+57.50 TO STA. 20+62.50

BRIDGE APPROACH PAVEMENT
 STA. 19+42.50 TO STA. 19+72.50
 STA. 20+27.50 TO STA. 20+57.50

BRIDGE OMISSION
 STA. 19+72.50 TO STA. 20+27.50



EXISTING TYPICAL SECTION

FILE NAME =	USER NAME = cthomas	DESIGNED -	REVISED -
V:\Bridges\3468-LaSalle\3468t001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 / in.	CHECKED -	REVISED -
	PLOT DATE = 1/6/2015	DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 6 OVER
COVEL CREEK TRIBUTARY**

GENERAL NOTES, DETAILS, TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 14+50.00 TO STA. 25+50.00

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	2
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87588	
FED. AID PROJECT BRS-0272(112)				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	1,500
20300100	CHANNEL EXCAVATION	CU YD	230
① 20400800	FURNISHED EXCAVATION	CU YD	2,160
25100630	EROSION CONTROL BLANKET	SQ YD	6,410
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,500
28000305	TEMPORARY DITCH CHECKS	FOOT	84
28000400	PERIMETER EROSION BARRIER	FOOT	245
28000500	INLET AND PIPE PROTECTION	EACH	4
28100109	STONE RIPRAP, CLASS A5	SQ YD	715
28200200	FILTER FABRIC	SQ YD	715
① 30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	1,957
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	145
① 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,990
① 40603082	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	TON	1,292
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	220
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	38
48100100	AGGREGATE SHOULDERS, TYPE A	TON	478
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	295
50200100	STRUCTURE EXCAVATION	CU YD	165
50300100	FLOOR DRAINS	EACH	6
50300225	CONCRETE STRUCTURES	CU YD	62.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	186.8
50300260	BRIDGE DECK GROOVING	SQ YD	414
50300280	CONCRETE ENCASEMENT	CU YD	4.3
50300300	PROTECTIVE COAT	SQ YD	452
50400805	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 36 IN.	FOOT	272
① 50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	51,600
② 50901050	STEEL RAILING, TYPE SM	FOOT	170
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	360
51202305	DRIVING PILES	FOOT	360
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
① 54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	160
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	61
② 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
② 63200310	GUARDRAIL REMOVAL	FOOT	160
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	9
67100100	MOBILIZATION	L SUM	1
② 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4,400
② 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
② 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
② LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.4
① X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	108
① X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
① Z0013798	CONSTRUCTION LAYOUT	L SUM	1
① Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	124

① SEE SPECIAL PROVISIONS ② SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0011

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION CU YD	CHANNEL EXCAVATION CU YD	STRUCTURE EXCAVATION CU YD	FILL CU YD	WASTE (SHORTAGE) CU YD
RDWY 14+50.00 - 19+71.50	676			1,760	(1,253)
RDWY 20+28.50 - 25+50.00	826			1,525	(906)
CHANNEL		230			
STRUCTURE			165		
TOTAL	1,502	230	165	3,285	(2,159)
USE	1,500	230	165	-	(2,160)

(@ 25% SHRINKAGE)

PAINT PAVEMENT MARKING - LINE 4"

STATION TO STATION	SIDE	DESCRIPTION	FOOT
14+50.00 - 25+50.00	LEFT	WHITE SOLID	1,100
14+50.00 - 25+50.00	¢	DOUBLE YELLOW	2,200
14+50.00 - 25+50.00	RIGHT	WHITE SOLID	1,100
TOTAL			4,400

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	SIDE	OFFSET	EACH
14+50	LEFT	30'	1
14+50	RIGHT	30'	1
15+50	RIGHT	45'	1
17+25	LEFT	55'	1
19+00	RIGHT	55'	1
22+50	RIGHT	55'	1
23+25	LEFT	55'	1
24+67.90	RIGHT	30'	1
25+50	LEFT	30'	1
TOTAL			9

AGGREGATE SHOULDERS, TYPE A

STATION TO STATION	SIDE	WIDTH	LENGTH	TON
14+50.00 - 15+00.00	RIGHT	4.39' AVG.	50.00'	8
14+50.00 - 15+00.00	LEFT	4.26' AVG.	50.00'	7
15+00.00 - 18+56.24	RIGHT	6.00'	356.24'	75
15+00.00 - 18+56.24	LEFT	6.00'	356.24'	75
* 18+56.24 - 19+71.50	RIGHT	VARIES	115.26'	37
* 18+56.24 - 19+71.50	LEFT	VARIES	115.26'	37
* 20+28.50 - 21+43.76	RIGHT	VARIES	115.26'	37
* 20+28.50 - 21+43.76	LEFT	VARIES	115.26'	37
21+43.76 - 25+00.00	RIGHT	6.00'	356.24'	75
21+43.76 - 25+00.00	LEFT	6.00'	356.24'	75
25+00.00 - 25+50.00	LEFT	4.44' AVG.	50.00'	8
25+00.00 - 25+50.00	RIGHT	4.24' AVG.	50.00'	7
TOTAL				478

* AGGREGATE SHOULDER EXTENDS TO THE EDGE OF THE GUARDRAIL SHOULDER WIDENING.

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
14+63 - 15+03	RIGHT	80
17+30 - 17+70	LEFT	60
21+75 - 22+15	LEFT	45
22+05 - 22+45	RIGHT	60
TOTAL		245

INLET AND PIPE PROTECTION

STATION	SIDE	EACH
14+63	RIGHT	1
17+30	LEFT	1
22+15	LEFT	1
22+45	RIGHT	1
TOTAL		4

TEMPORARY DITCH CHECKS

STATION	SIDE	FOOT
17+40	RIGHT	12
19+82	RIGHT	12
19+82	LEFT	12
20+18	LEFT	12
20+20	RIGHT	12
23+85	RIGHT	12
23+85	LEFT	12
TOTAL		84

EROSION CONTROL BLANKET

STATION TO STATION	SIDE	WIDTH	LENGTH	AREA (SQ YD)
14+50 - 17+37	LEFT	VARIES	287'	803
14+50 - 19+72	RIGHT	VARIES	522'	1,687
17+63 - 19+72	LEFT	VARIES	209'	792
20+29 - 21+84	LEFT	VARIES	155'	574
20+29 - 22+13	RIGHT	VARIES	184'	691
22+06 - 25+50	LEFT	VARIES	344'	1,104
22+38 - 25+50	RIGHT	VARIES	312'	759
TOTAL				6,410

PIPE CULVERT REMOVAL

¢ STATION	SIZE	SIDE	FOOT
14+83	15"	RIGHT	23
19+46	18"	LEFT	79
19+51	18"	RIGHT	67
20+41	24"	RIGHT	73
21+40	18"	RIGHT	21
21+95	12"	LEFT	32
TOTAL			295

PIPE CULVERTS, CLASS D, TYPE 1 18"

STATION	SIDE	FOOT
14+83	RIGHT	40
17+50	LEFT	40
21+95	LEFT	40
22+25	RIGHT	40
TOTAL		160

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	FOOT
19+42 - 19+82	LEFT	40
19+42 - 19+82	RIGHT	40
20+18 - 20+58	LEFT	40
20+18 - 20+58	RIGHT	40
TOTAL		160

TRAFFIC BARRIER TERMINAL, TYPE 1

SIDE	STATION TO STATION	EACH
LEFT	18+88.75 - 19+13.75	1
RIGHT	18+88.75 - 19+13.75	1
LEFT	20+86.25 - 21+11.25	1
RIGHT	20+86.25 - 21+11.25	1
TOTAL		4

TRAFFIC BARRIER TERMINAL, TYPE 6A

SIDE	STATION TO STATION	EACH
LEFT	19+13.75 - 19+57.50	1
RIGHT	19+13.75 - 19+57.50	1
LEFT	20+42.50 - 20+86.25	1
RIGHT	20+42.50 - 20+86.25	1
TOTAL		4

AGGREGATE SURFACE COURSE, TYPE B

STATION TO STATION	WIDTH	LENGTH	TON
ENTR. - 14+83.00 RT	24' & VAR.	37.5'	37
ENTR. - 17+50.00 LT	26' & VAR.	37.0'	38
ENTR. - 21+95.00 LT	22' & VAR.	37.0'	33
ENTR. - 22+25.00 RT	25' & VAR.	37.0'	37
TOTAL			145

GUARDRAIL MARKERS, TYPE A

STATION TO STATION	SIDE	GUARDRAIL MARKERS (EACH)
18+88.75 - 21+11.25	RIGHT	4
18+88.75 - 21+11.25	LEFT	4
TOTAL		8

ALL GUARDRAIL MARKERS SHALL BE BI-DIRECTIONAL

PAVEMENT SCHEDULE

STATION TO STATION	WIDTH	LENGTH	PRIME COAT POUND 4 LBS/SQ YD	HOT-MIX ASPHALT BINDER CSE TON 112#/SQ YD/IN	HOT-MIX ASPHALT SURF CSE TON 112#/SQ YD/IN	AGGREGATE SUBGRADE IMPROVEMENT TON	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SQ YD
14+50.00 - 15+00.00	27.63' AVG.	50.00'	614				
15+00.00 - 19+37.50	27.67'	437.50'	5,380				
20+62.50 - 25+00.00	27.67'	437.50'	5,380				
25+00.00 - 25+50.00	27.74' AVG.	50.00'	616				
14+50.00 - 15+00.00	24.92' AVG.	50.00'		66			
15+00.00 - 19+37.50	24.96'	437.50'		580			
20+62.50 - 25+00.00	24.96'	437.50'		580			
25+00.00 - 25+50.00	25.03' AVG.	50.00'		66			
14+50.00 - 15+00.00	24.09' AVG.	50.00'			11		
15+00.00 - 19+37.50	24.13'	437.50'			99		
20+62.50 - 25+00.00	24.13'	437.50'			99		
25+00.00 - 25+50.00	24.20' AVG.	50.00'			11		
14+50.00 - 15+00.00	28.64' AVG.	50.00'				100	
15+00.00 - 19+37.50	28.67'	437.50'				878	
20+62.50 - 25+00.00	28.67'	437.50'				878	
25+00.00 - 25+50.00	28.74' AVG.	50.00'				101	
19+37.50 - 19+42.50	35.00'	5.00'					19
20+57.50 - 20+62.50	35.00'	5.00'					19
TOTAL			11,990	1,292	220	1,957	38

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		CHECKED -	REVISED -
		DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 6 OVER
COVEL CREEK TRIBUTARY**

**SUMMARY OF QUANTITIES &
SCHEDULES OF QUANTITIES**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 14+50.00 TO STA. 25+50.00

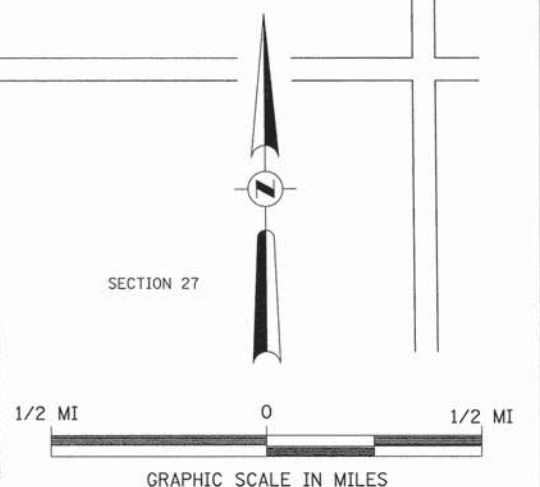
F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	3

CONTRACT NO. 87588
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BRS-0272(112)



- 1 ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 2 ROAD CLOSED
2 3/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 3 ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 4 ROAD CLOSED
3/4 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 5 ROAD CLOSED
AHEAD
W20-3
- 6 ROAD CLOSED
500 FT
W20-3
- 7 TYPE III BARRICADES

SEE STANDARDS BLR 21 & BLR 22
AND SPECIAL PROVISIONS

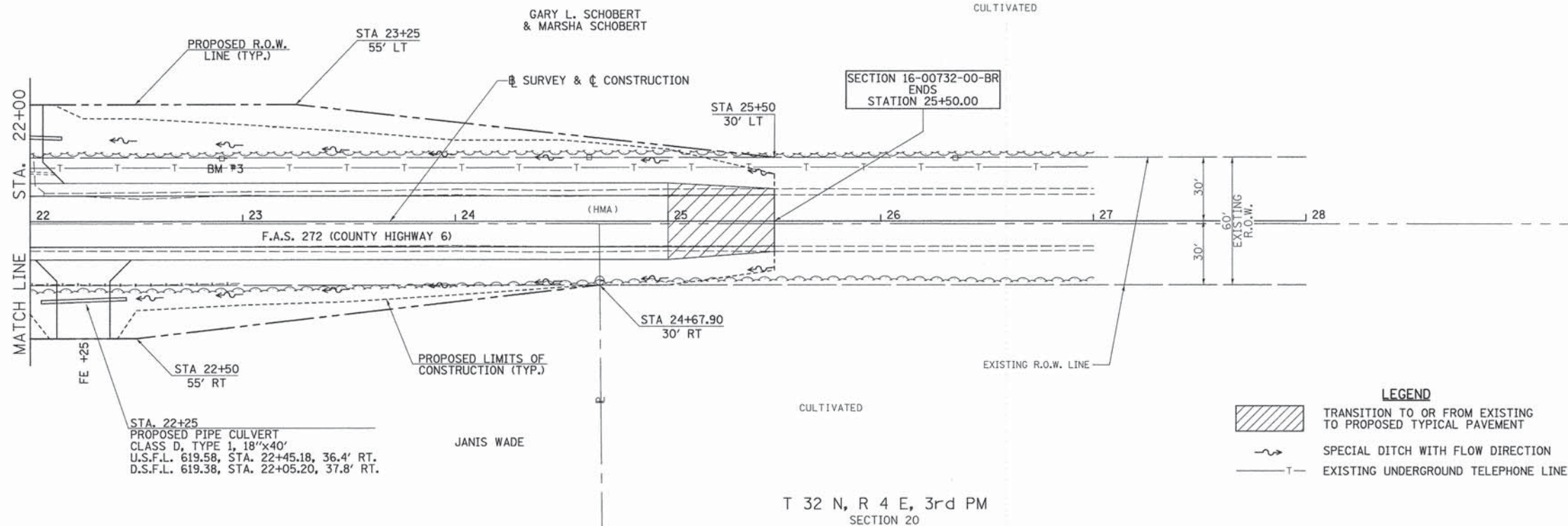


FILE NAME = V:\Bridge\3468-LoSalle\3468e001.dgn	USER NAME = othomas	DESIGNED -	REVISED -	LASALLE COUNTY COUNTY HIGHWAY 6 OVER COVELL CREEK TRIBUTARY	TRAFFIC CONTROL PLAN		F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1.0000" / 1"	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 14+50.00 TO STA. 25+50.00	272	16-00732-00-BR	LASALLE	44	4
	PLOT DATE = 1/6/2015	CHECKED -	REVISED -				CONTRACT NO. 87588					
		DATE -	REVISED -				FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)			

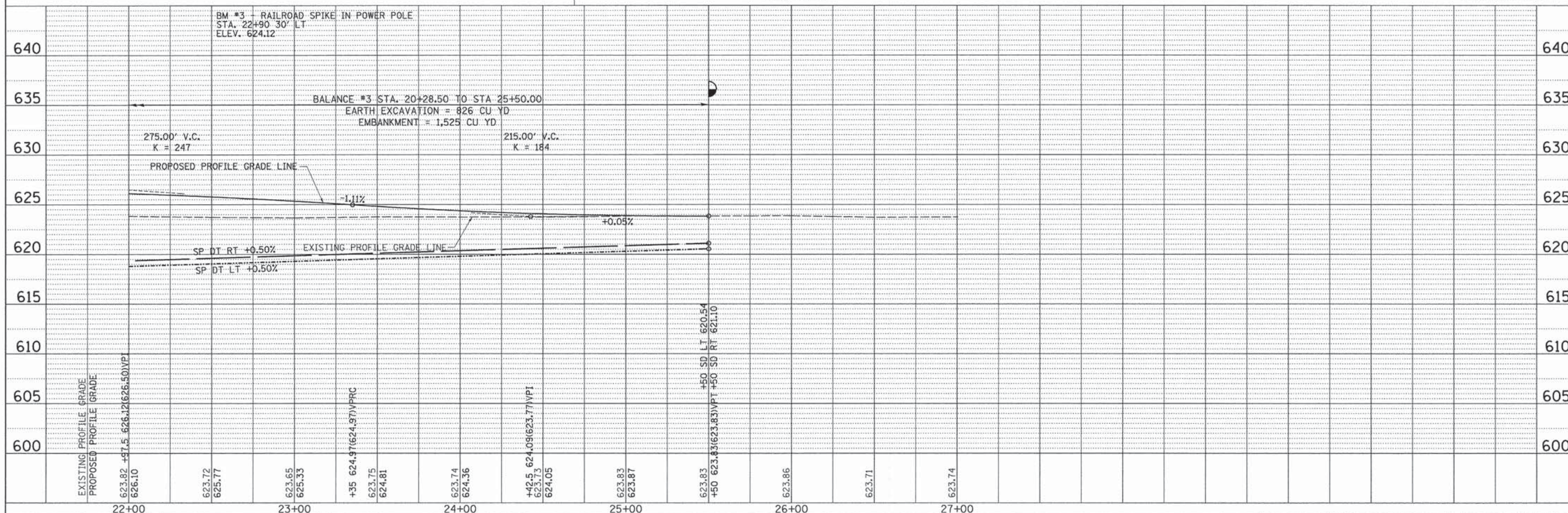
T 32 N, R 4 E, 3rd PM
SECTION 17



PLAN	BY	DATE
REVISIONS		
ALIGNED		
CHECKED		
NO.		
NOTE BOOK		
NO.		
CADD FILE NAME		



PROFILE	BY	DATE
REVISIONS		
GRADES CHECKED		
NO.		
STRUCTURE NOTATIONS CHYD		



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Default	PLOT SCALE = 30.0000' / 1"	DRAWN -	REVISED -
	PLOT DATE = 1/6/2015	CHECKED -	REVISED -
		DATE -	REVISED -

**LASALLE COUNTY
COUNTY HIGHWAY 6 OVER
COVEL CREEK TRIBUTARY**

PLAN AND PROFILE

SCALE: 1"=30' SHEET NO. 2 OF 2 SHEETS STA. 22+00 TO STA. 25+50

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	7
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87588	
FED. AID PROJECT BRS-0272(112)				

B.M.: RR Spike in Power Pole Sta. 17+95, 29' Lt. Elev. 622.40
 RR Spike in Power Pole Sta. 22+90, 30' Lt. Elev. 624.12

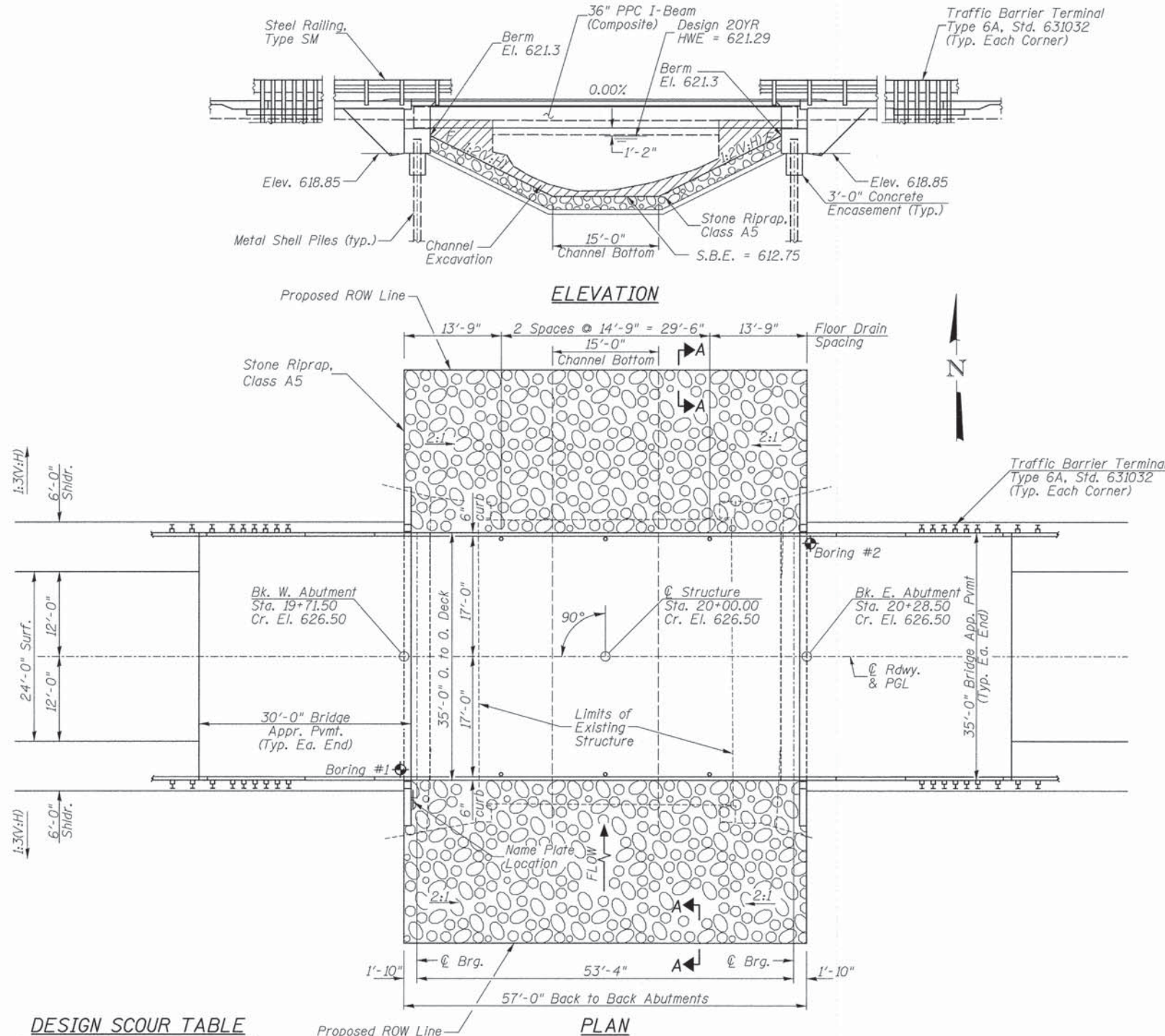
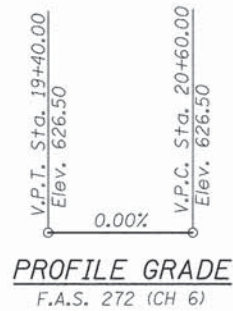
Existing Structure:
 Single span precast prestressed concrete deck beam superstructure supported on timber pile closed abutments with reinforced concrete caps. The structure is 37'-0" back to back of abutments, 40'-0" out to out deck, and is not skewed. The structure was constructed in 1980. Str. No. 050-3464

Salvage: None
 Road to be closed to traffic during construction.

**COVEL CREEK TRIBUTARY
 BUILT 201 BY
 LASALLE COUNTY
 SEC. 16-00732-00-BR
 C.H. 6 STATION 20+00.00
 F.A. PROJ. BRS-0272(112)
 STR. NO. 050-3614 LOADING HL-93**

NAME PLATE

Locate Name Plate on Wingwall
 S.W. Corner of Bridge (See Std. 515001)



NOTE:
 See Sheet 2 of 20 for Bill of Material, General Notes and Section A-A.

INDEX OF SHEETS

SHEET #'s	DESCRIPTION
1	General Plan & Elevation
2	Bill of Material, Details and General Notes
3-4	Top of Slab Elevations
5-6	Top of Approach Slab Elevations
7	Superstructure
8	Superstructure Details
9	Diaphragm Details
10-11	Bridge Approach Slab Details
12	Steel Railing Type SM
13	Framing Plan and Details
14	36" PPC I-Beam
15	36" PPC I-Beam Details
16	Abutments
17	Metal Shell Pile Details
18-20	Soil Boring Logs

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. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

M.A.N. 1/6/15
 Illinois Structural No. 6527
 Expires 11/30/2016

DESIGN SCOUR TABLE

Design Scour Elevation			
Flood Yr.	Freq.	W. Abut.	E. Abut.
Base	100	618.85	618.85
Max Calc.	500	618.85	618.85

WATERWAY INFORMATION

Drainage Area = 6.99 Sq. Mi. Low Grade Elev. = 623.71 @ Sta. 26+50.00

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1,361	192	275	621.29	1.28	0.95	622.57	622.24
Base	100	2,025	198	291	621.62	3.00	1.98	624.62	623.60

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
 6th Edition with 2013 Interims

DESIGN STRESSES

(FIELD UNITS)
 $f'_c = 5,000$ p.s.i. (superstructure)
 $f'_c = 3,500$ p.s.i. (substructure)
 $f_y = 60,000$ p.s.i. (Rein.)

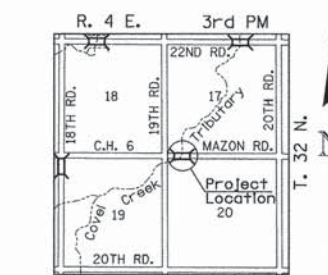
(PRECAST PRESTRESSED UNITS)
 $f'_c = 7,000$ p.s.i.
 $f'_{ci} = 6,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($1/2$ " Strands)
 $f'_{si} = 201,960$ p.s.i. ($1/2$ " Strands)

LOADING HL-93

Allow 50#/#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.07g
 Design Spectral Acceleration at 0.2 sec. ($S_{D0.2}$) = 0.13g
 Soil Site Class = C



LOCATION SKETCH

GENERAL PLAN & ELEVATION

DESIGNED	N.P.H.
CHECKED	B.A.N.
DRAWN	N.P.H.
CHECKED	B.A.N./S.T.M.

Hutchison Engineering, Inc.
 JACKSONVILLE-SHOREWOOD-PEORIA

SHEET NO. 1
 20 SHEETS

2014 JOB#3460

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	8
S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)		

GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Reinforcement bars designated (E) shall be epoxy coated.

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

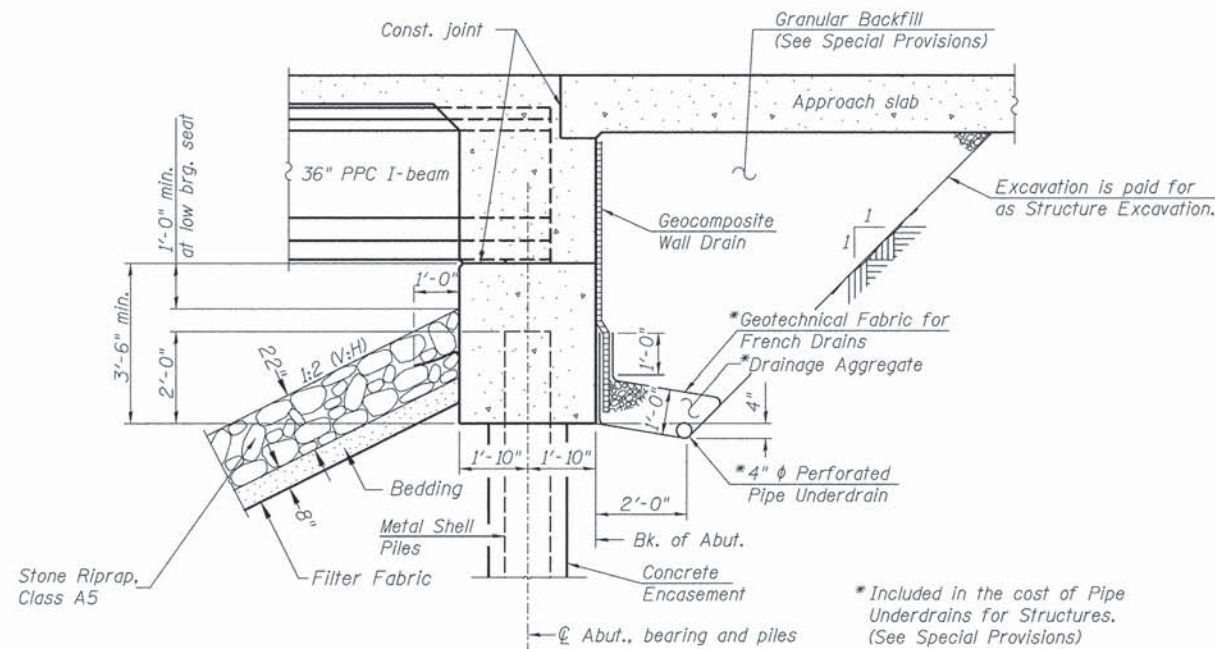
Protective Coat shall be applied to the top of the deck, approach pavement, and face and top of curbs.

Bridge Deck Grooving is figured 1'-0" from curb face and 1'-0" from the edge of approach pavement when the curb is omitted. It shall be applied to the bridge deck and the approach pavements.

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

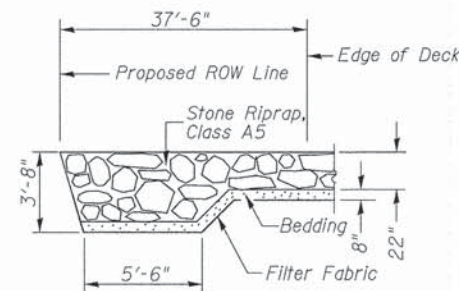
See Sheets 18 thru 20 of 20 for Soil Boring Logs.

Portions of the existing structure's tie rods and timber deadman may need to be removed to allow driving of new piles. Cost included with the Removal of Existing Structures. See Sheets 28 thru 32 of 44 for existing structure plans.



SECTION THRU INTEGRAL ABUTMENT

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



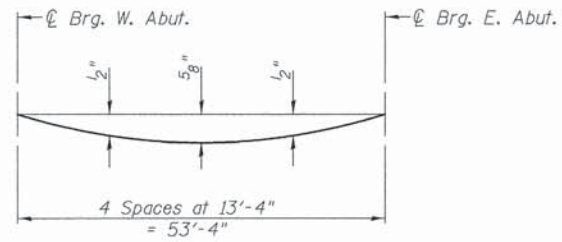
SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	230	230
Stone Riprap, Class A5	SQ YD	—	715	715
Filter Fabric	SQ YD	—	715	715
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	165	165
Floor Drains	EACH	6	—	6
Concrete Structures	CU YD	—	62.1	62.1
Concrete Superstructure	CU YD	186.8	—	186.8
Bridge Deck Grooving	SQ YD	414	—	414
Concrete Encasement	CU YD	—	4.3	4.3
Protective Coat	SQ YD	452	—	452
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	FOOT	272	—	272
① Reinforcement Bars, Epoxy Coated	POUND	45,730	5,870	51,600
Steel Railing, Type SM	FOOT	170	—	170
Furnishing Metal Shell Piles 14"x0.250"	FOOT	—	360	360
Driving Piles	FOOT	—	360	360
Test Pile Metal Shells	EACH	—	2	2
Name Plates	EACH	—	1	1
Geocomposite Wall Drain	SQ YD	—	61	61
① Granular Backfill For Structures	CU YD	—	108	108
① Pipe Underdrains for Structures, 4"	FOOT	—	124	124
① See Special Provisions				

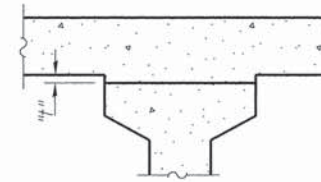
BILL OF MATERIAL, DETAILS AND GENERAL NOTES

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20 SHEETS	272	16-00732-00-BR	LASALLE	44	9
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



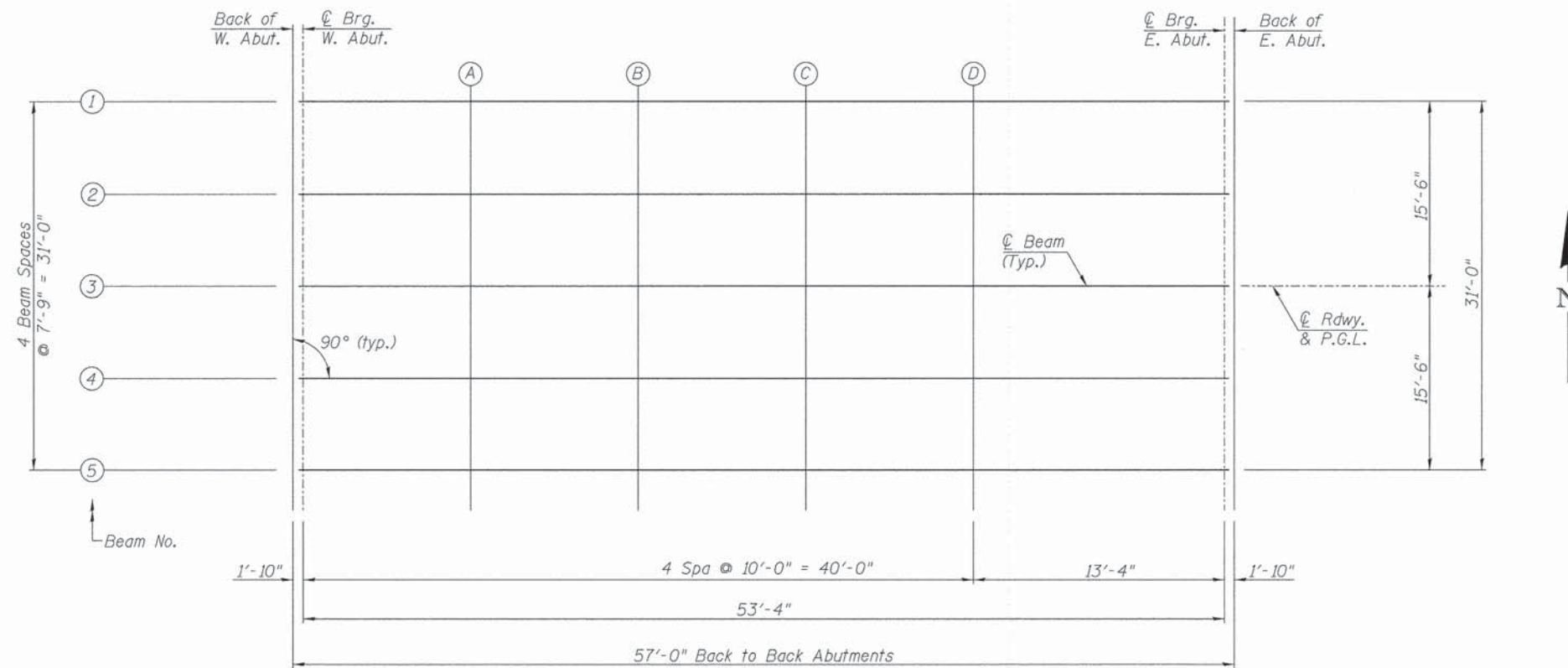
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams)

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 4 of 20.



To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheet 4 of 20, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS



PLAN

TOP OF SLAB ELEVATIONS

SHEET NO. 3 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	10
	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0272(112)		

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abutment	19+71.50	-15.50	626.24	626.24
CL Brg. W. Abut.	19+73.33	-15.50	626.24	626.24
A	19+83.33	-15.50	626.24	626.27
B	19+93.33	-15.50	626.24	626.29
C	20+03.33	-15.50	626.24	626.29
D	20+13.33	-15.50	626.24	626.28
CL Brg. E. Abut.	20+26.67	-15.50	626.24	626.24
Bk. E. Abutment	20+28.50	-15.50	626.24	626.24

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abutment	19+71.50	-7.75	626.38	626.38
CL Brg. W. Abut.	19+73.33	-7.75	626.38	626.38
A	19+83.33	-7.75	626.38	626.41
B	19+93.33	-7.75	626.38	626.43
C	20+03.33	-7.75	626.38	626.43
D	20+13.33	-7.75	626.38	626.42
CL Brg. E. Abut.	20+26.67	-7.75	626.38	626.38
Bk. E. Abutment	20+28.50	-7.75	626.38	626.38

ROADWAY, PROFILE GRADE, & BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abutment	19+71.50	0.00	626.50	626.50
CL Brg. W. Abut.	19+73.33	0.00	626.50	626.50
A	19+83.33	0.00	626.50	626.53
B	19+93.33	0.00	626.50	626.55
C	20+03.33	0.00	626.50	626.55
D	20+13.33	0.00	626.50	626.54
CL Brg. E. Abut.	20+26.67	0.00	626.50	626.50
Bk. E. Abutment	20+28.50	0.00	626.50	626.50

BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abutment	19+71.50	7.75	626.38	626.38
CL Brg. W. Abut.	19+73.33	7.75	626.38	626.38
A	19+83.33	7.75	626.38	626.41
B	19+93.33	7.75	626.38	626.43
C	20+03.33	7.75	626.38	626.43
D	20+13.33	7.75	626.38	626.42
CL Brg. E. Abut.	20+26.67	7.75	626.38	626.38
Bk. E. Abutment	20+28.50	7.75	626.38	626.38

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abutment	19+71.50	15.50	626.24	626.24
CL Brg. W. Abut.	19+73.33	15.50	626.24	626.24
A	19+83.33	15.50	626.24	626.27
B	19+93.33	15.50	626.24	626.29
C	20+03.33	15.50	626.24	626.29
D	20+13.33	15.50	626.24	626.28
CL Brg. E. Abut.	20+26.67	15.50	626.24	626.24
Bk. E. Abutment	20+28.50	15.50	626.24	626.24

TOP OF SLAB ELEVATIONS

SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	11
20 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0272(112)		

NORTH EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	19+42.50	-17.50	626.20
A	19+52.50	-17.50	626.20
B	19+62.50	-17.50	626.20
E. End of West Appr. Pav't.	19+72.50	-17.50	626.20

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	19+42.50	-12.00	626.31
A	19+52.50	-12.00	626.31
B	19+62.50	-12.00	626.31
E. End of West Appr. Pav't.	19+72.50	-12.00	626.31

PROFILE GRADE & C ROADWAY

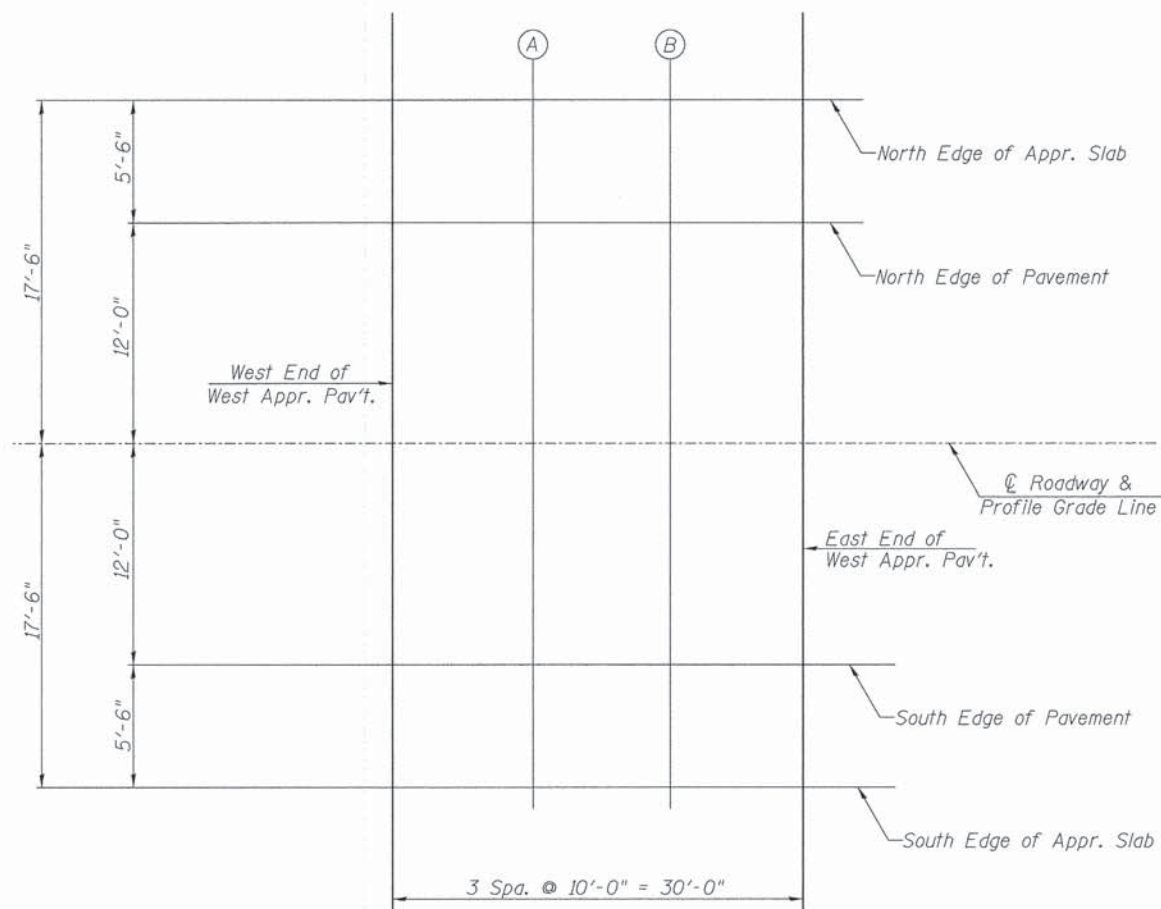
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	19+42.50	0.00	626.50
A	19+52.50	0.00	626.50
B	19+62.50	0.00	626.50
E. End of West Appr. Pav't.	19+72.50	0.00	626.50

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	19+42.50	12.00	626.31
A	19+52.50	12.00	626.31
B	19+62.50	12.00	626.31
E. End of West Appr. Pav't.	19+72.50	12.00	626.31

SOUTH EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	19+42.50	17.50	626.20
A	19+52.50	17.50	626.20
B	19+62.50	17.50	626.20
E. End of West Appr. Pav't.	19+72.50	17.50	626.20



PLAN WEST APPROACH PAVEMENT

TOP OF WEST APPROACH SLAB ELEVATIONS

SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	12
20 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0272(112)		

NORTH EDGE OF APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	20+27.50	-17.50	626.20
A	20+37.50	-17.50	626.20
B	20+47.50	-17.50	626.20
E. End of East Appr. Pav't.	20+57.50	-17.50	626.20

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	20+27.50	-12.00	626.31
A	20+37.50	-12.00	626.31
B	20+47.50	-12.00	626.31
E. End of East Appr. Pav't.	20+57.50	-12.00	626.31

PROFILE GRADE & C ROADWAY

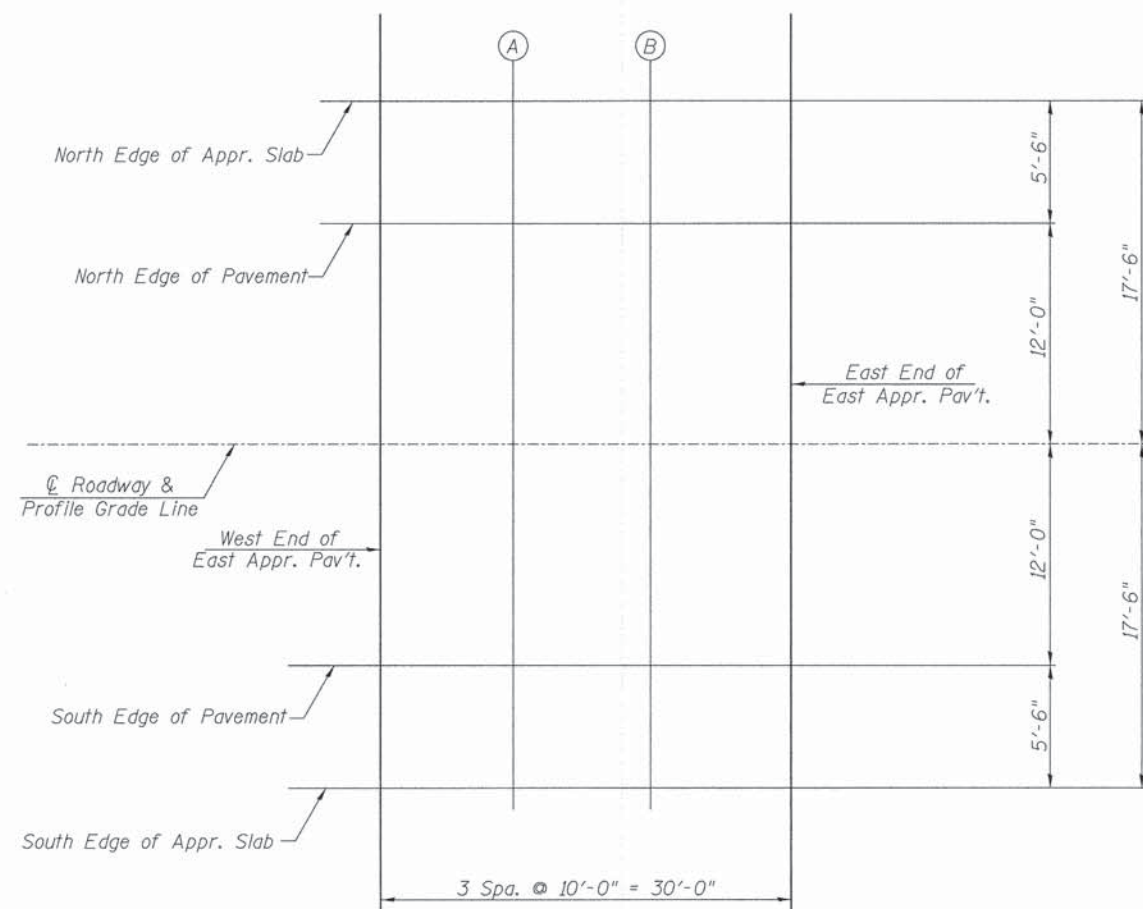
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	20+27.50	0.00	626.50
A	20+37.50	0.00	626.50
B	20+47.50	0.00	626.50
E. End of East Appr. Pav't.	20+57.50	0.00	626.50

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	20+27.50	12.00	626.31
A	20+37.50	12.00	626.31
B	20+47.50	12.00	626.31
E. End of East Appr. Pav't.	20+57.50	12.00	626.31

SOUTH EDGE OF APPR. SLAB

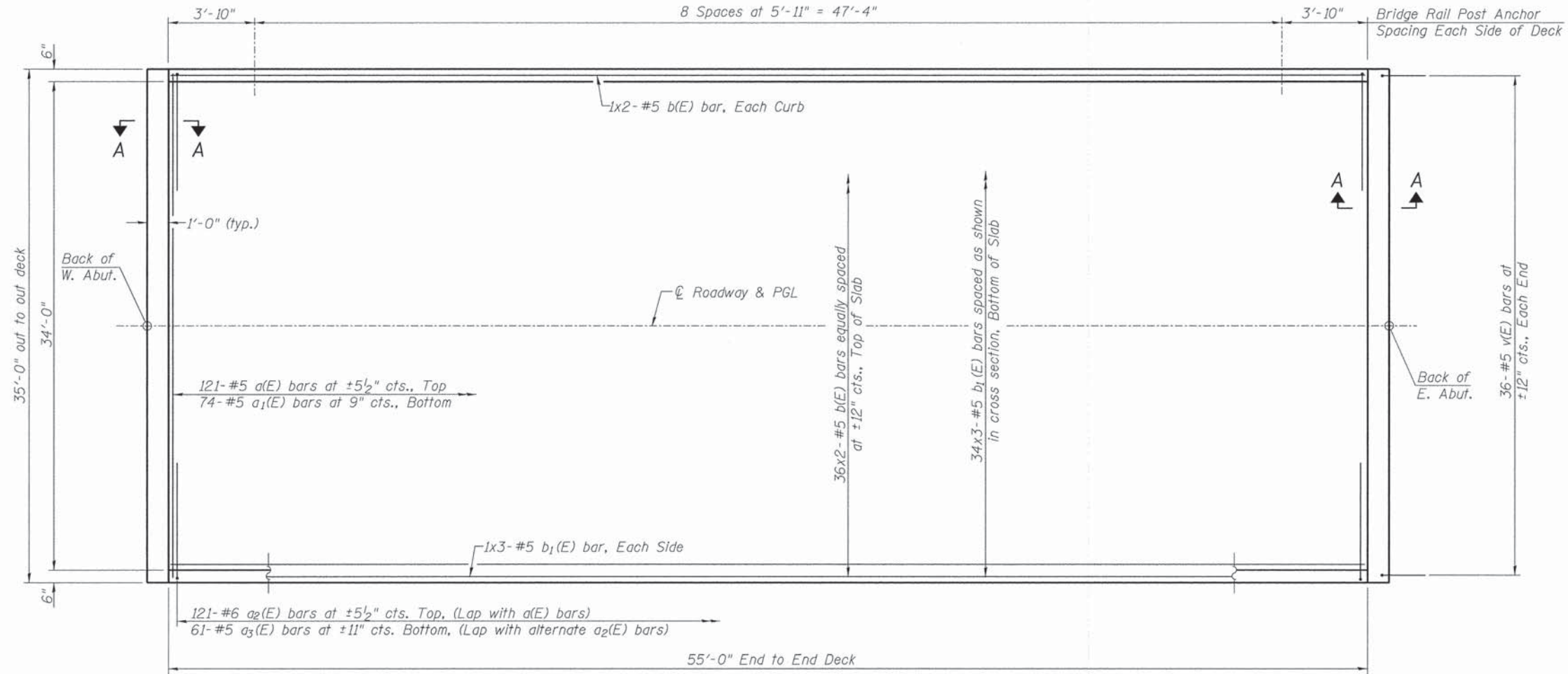
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	20+27.50	17.50	626.20
A	20+37.50	17.50	626.20
B	20+47.50	17.50	626.20
E. End of East Appr. Pav't.	20+57.50	17.50	626.20



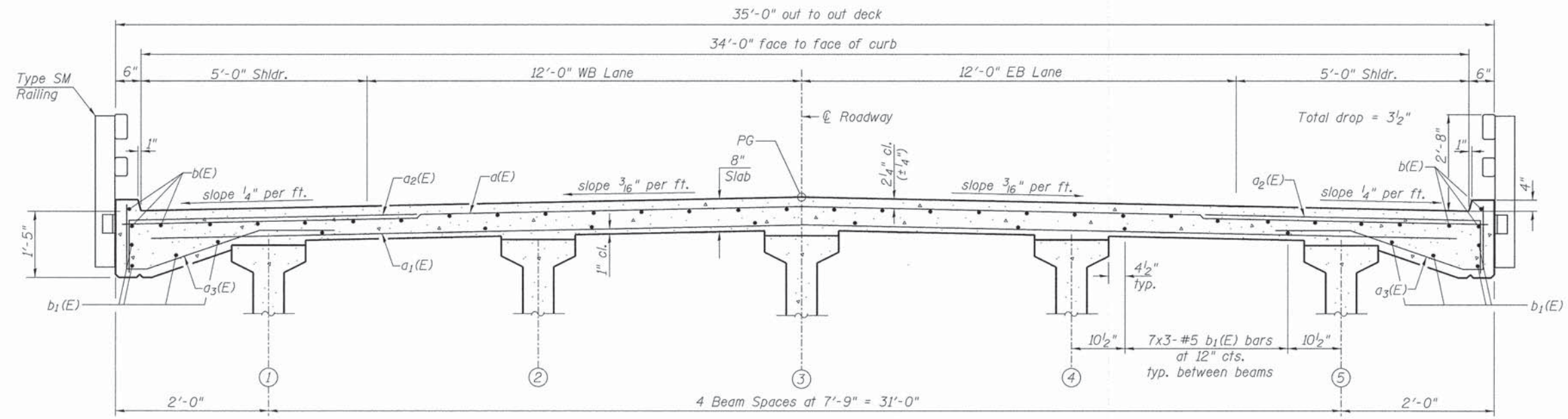
PLAN EAST APPROACH PAVEMENT

TOP OF EAST APPROACH SLAB ELEVATIONS

SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	13
20 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0272(112)		



PLAN



CROSS SECTION
(Looking East)

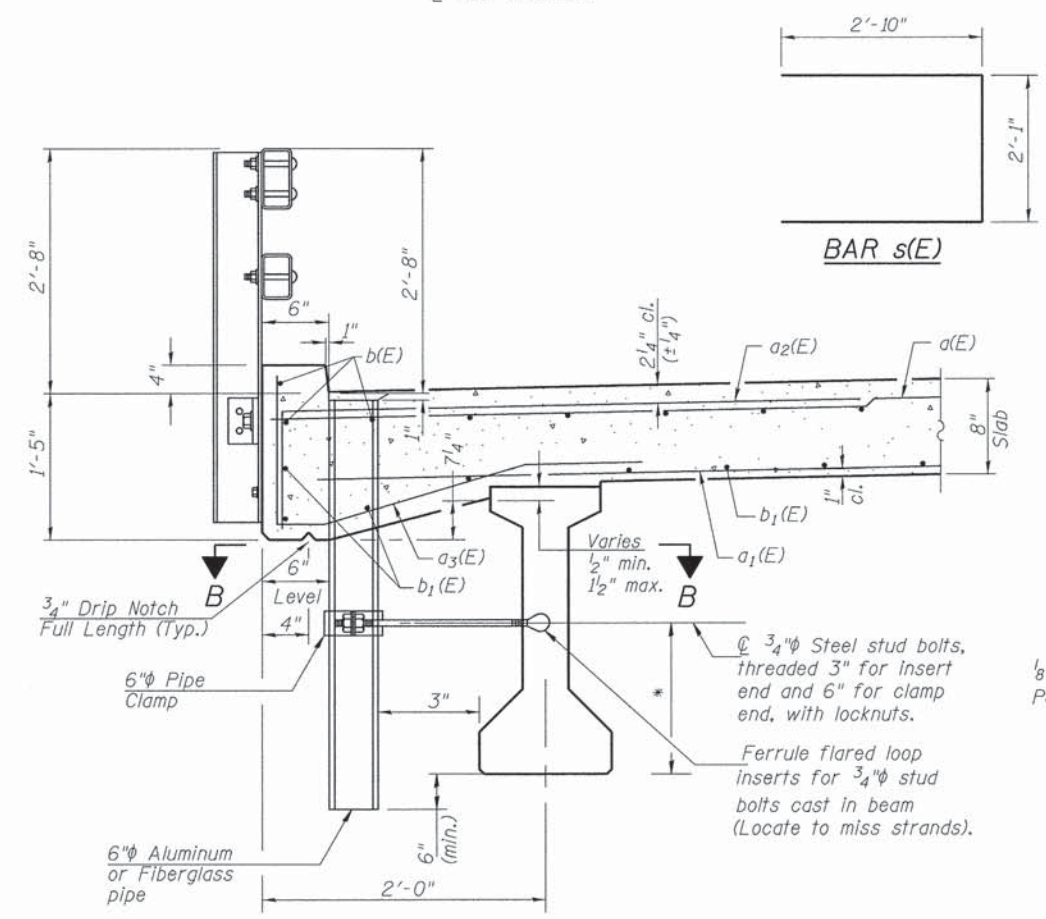
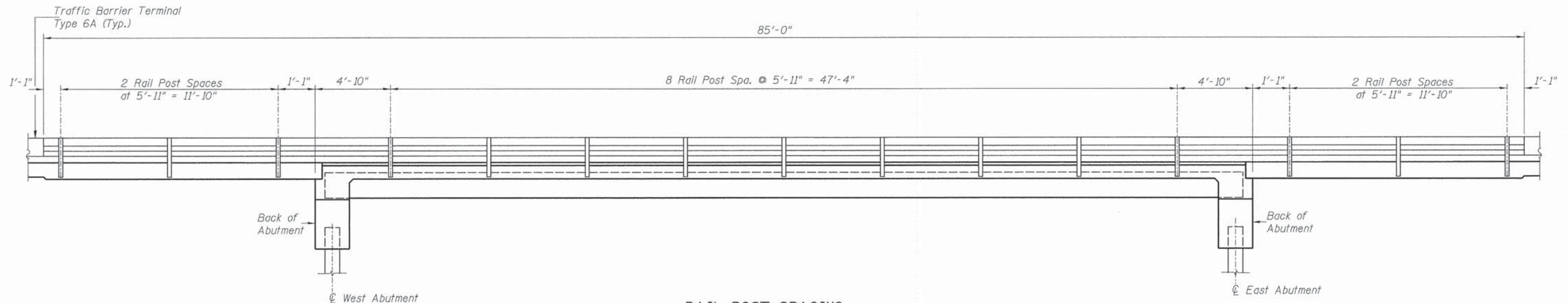


MIN. BAR LAP
#5 = 2'-7"

Notes:
See Sheet 8 of 20 for superstructure details and Bill of Material.
Bars indicated thus 32x3-#5 etc. indicates 32 lines of bars with 3 lengths per line.
See Sheet 9 of 20 for Section A-A & Diaphragm Details.
See Sheet 12 of 20 for Rail Post Anchor Details.

SUPERSTRUCTURE

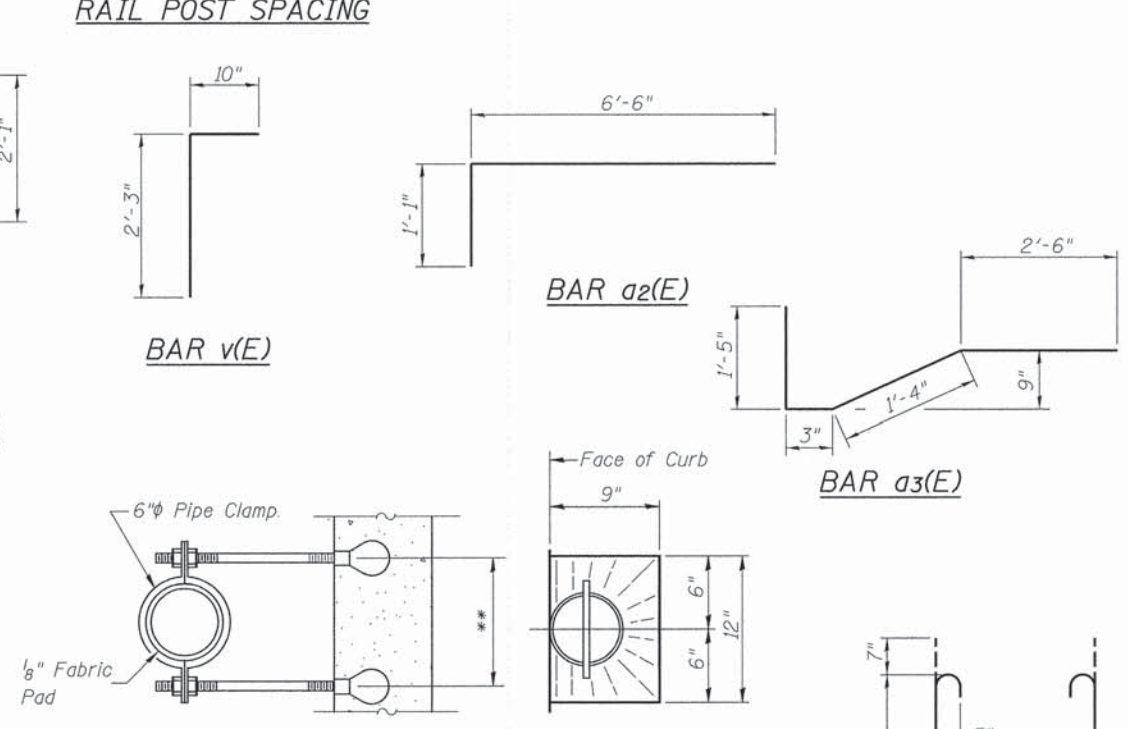
SHEET NO. 7 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	14
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



SECTION THRU DECK OVERHANG
See Sheet 12 of 20 for Rail Post Anchor Details.

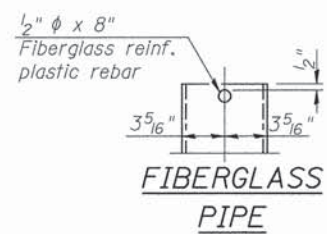
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.

RAIL POST SPACING

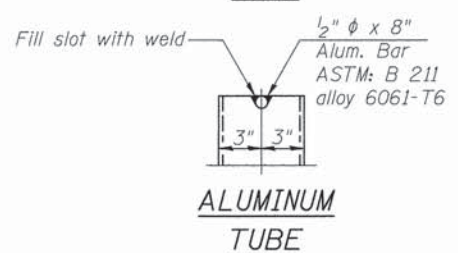


SECTION B-B

**Dimension as required by Pipe Clamp

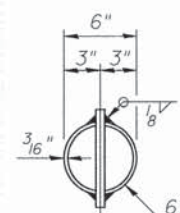


FIBERGLASS PIPE



ALUMINUM TUBE

TOP PLAN



TOP PLAN

(Showing aluminum tube)

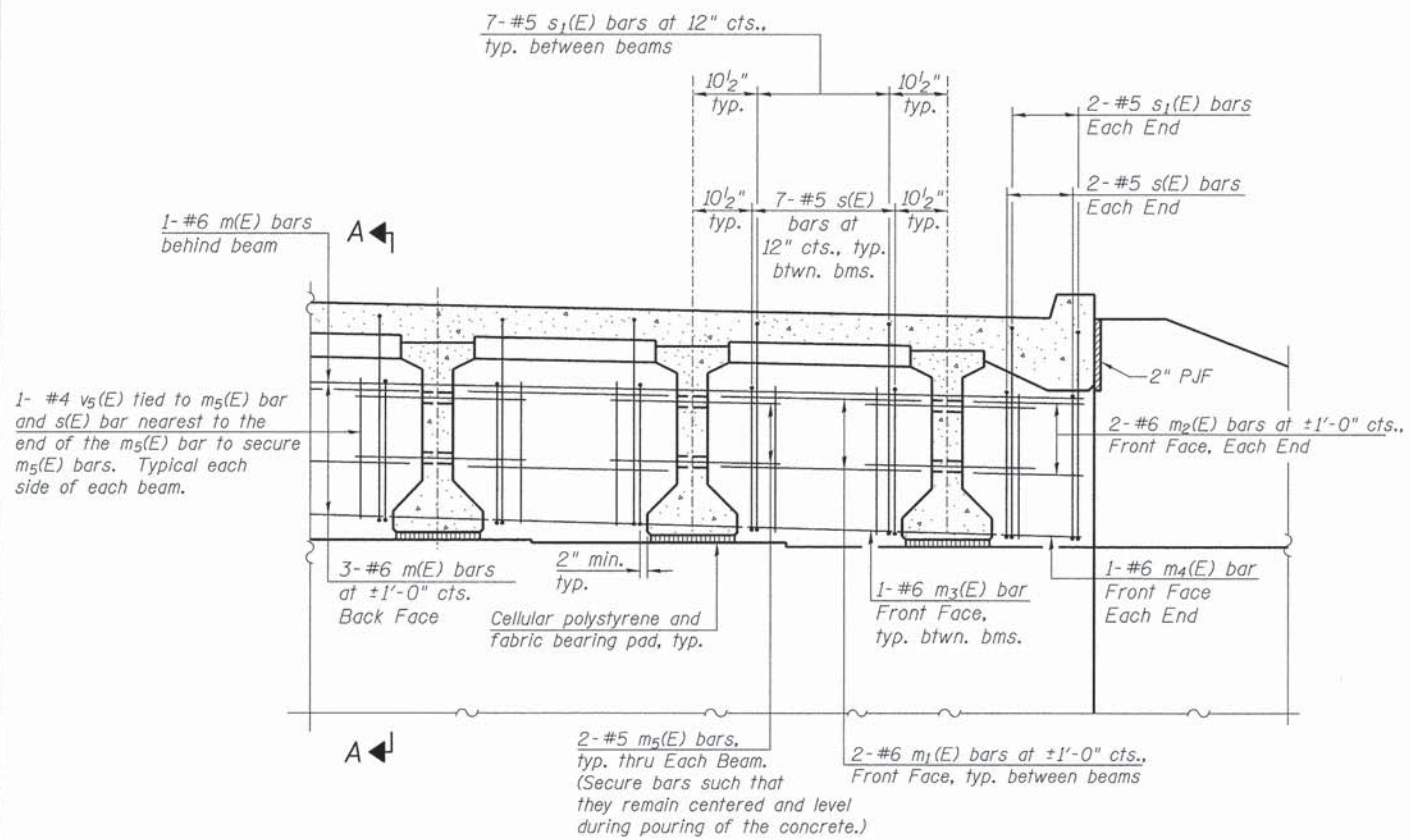
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	121	#5	34'-9"	—
a1(E)	74	#5	33'-9"	—
a2(E)	242	#6	7'-7"	—
a3(E)	122	#5	5'-6"	—
b(E)	76	#5	28'-8"	—
b1(E)	108	#5	20'-0"	—
m(E)	8	#6	34'-9"	—
m1(E)	16	#6	7'-0"	—
m2(E)	8	#6	1'-6"	—
m3(E)	8	#6	6'-0"	—
m4(E)	4	#6	1'-0"	—
m5(E)	20	#5	4'-0"	—
s(E)	64	#5	7'-9"	□
s1(E)	64	#5	10'-4"	□
v(E)	72	#5	3'-1"	—
v5(E)	20	#4	2'-2"	—
① Reinforcement Bars, Epoxy Coated			POUND	17,210
Concrete Superstructure			CU YD	79.5

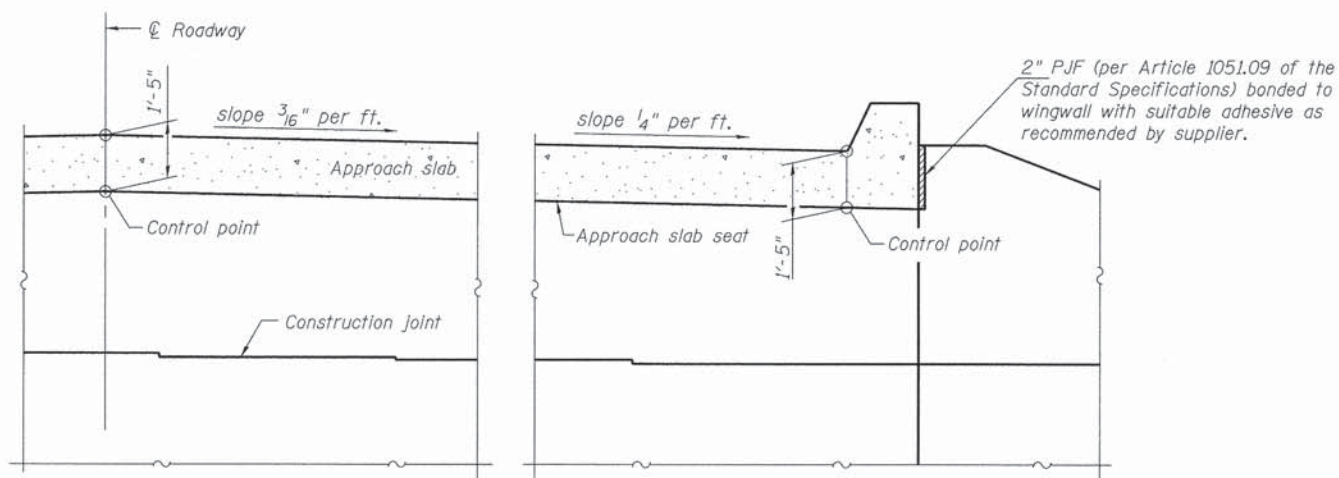
① See Special Provisions

SUPERSTRUCTURE DETAILS

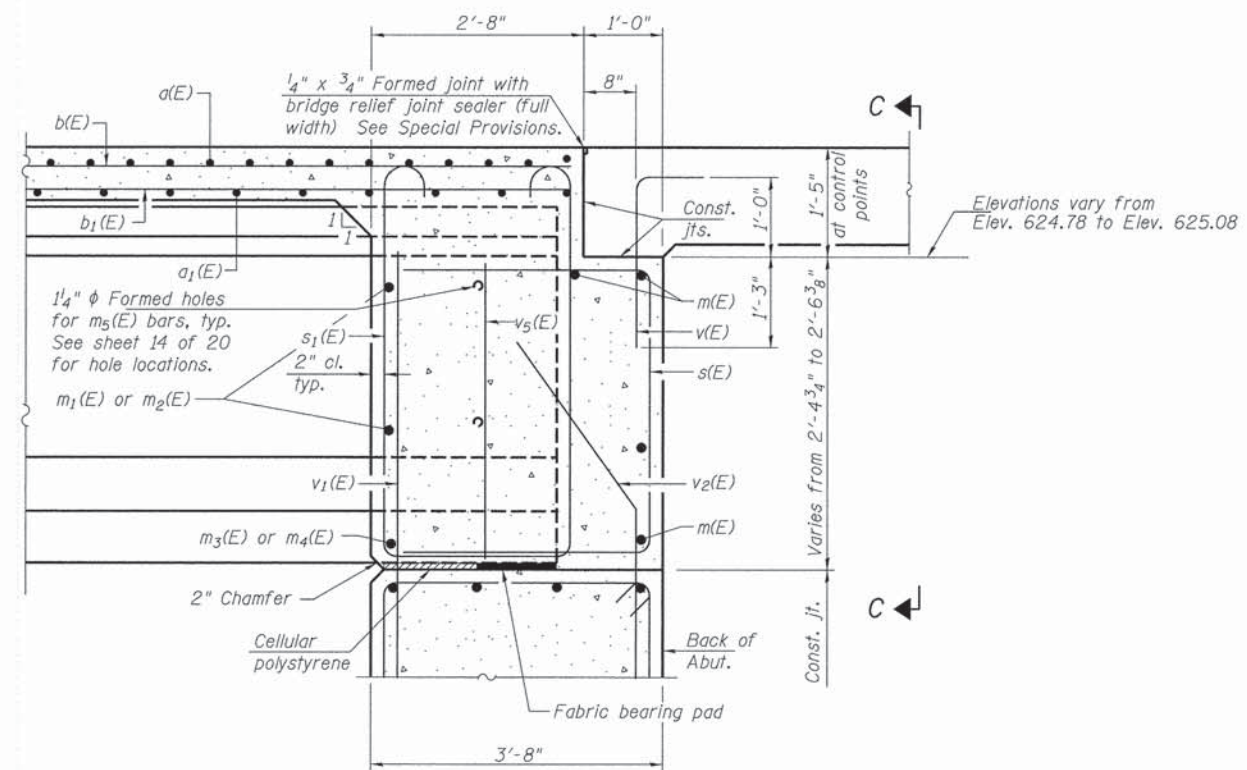
SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	272	16-00732-00-BR	LASALLE	44	15
20 SHEETS		S.N. 050-3614	CONTRACT NO. 87588		
		FED. ROAD DIST. NO. 7 ILLINOIS	FED. AID PROJECT BRS-0272(112)		



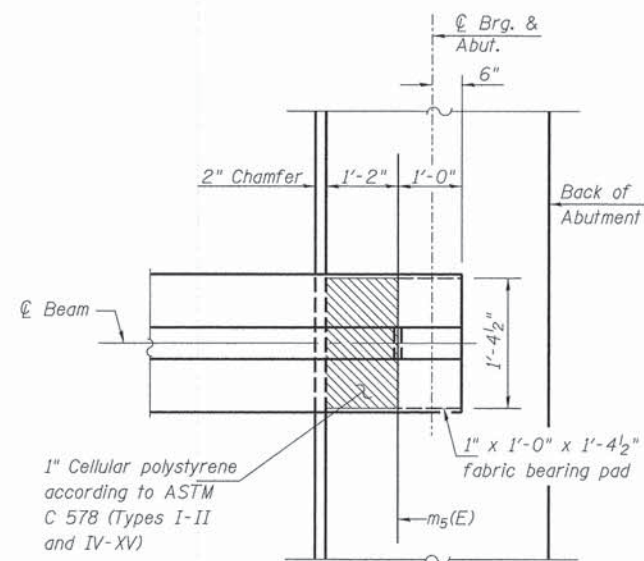
DIAPHRAGM ELEVATION AT ABUTMENT



VIEW C-C



SECTION A-A



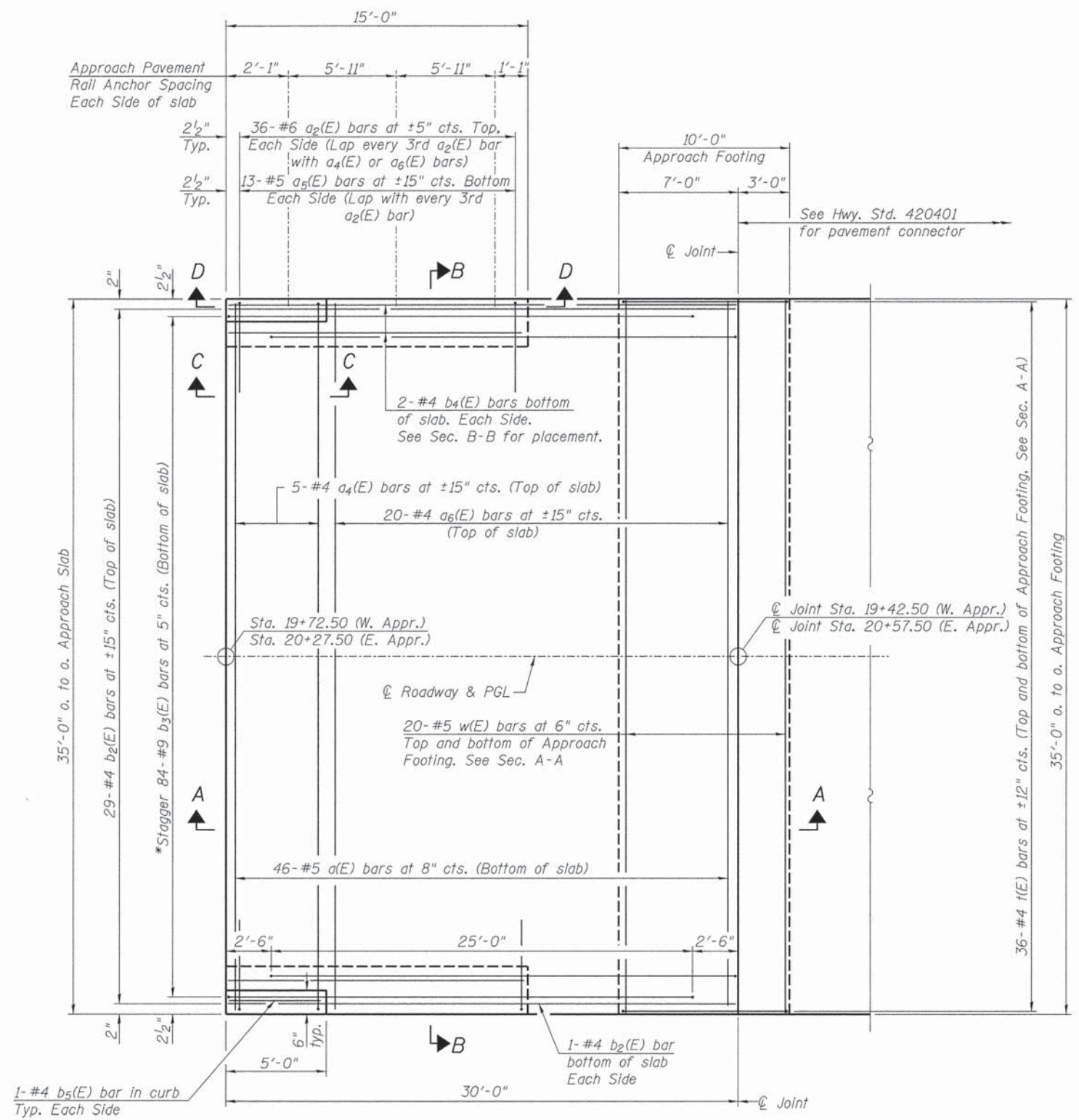
PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 20.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 20.
 See Sheet 8 of 20 for details of bars s(E), s1(E), and v(E).
 See Sheet 16 of 20 for v1(E) and v2(E) bar placement.
 The approach slab seat shall have a constant slope determined from the control points shown.
 Cost of cellular polystyrene is included with Concrete Superstructure.

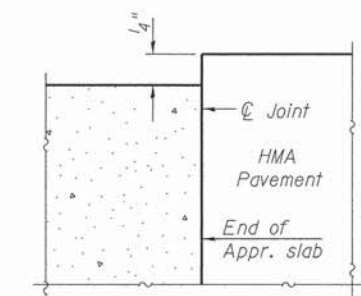
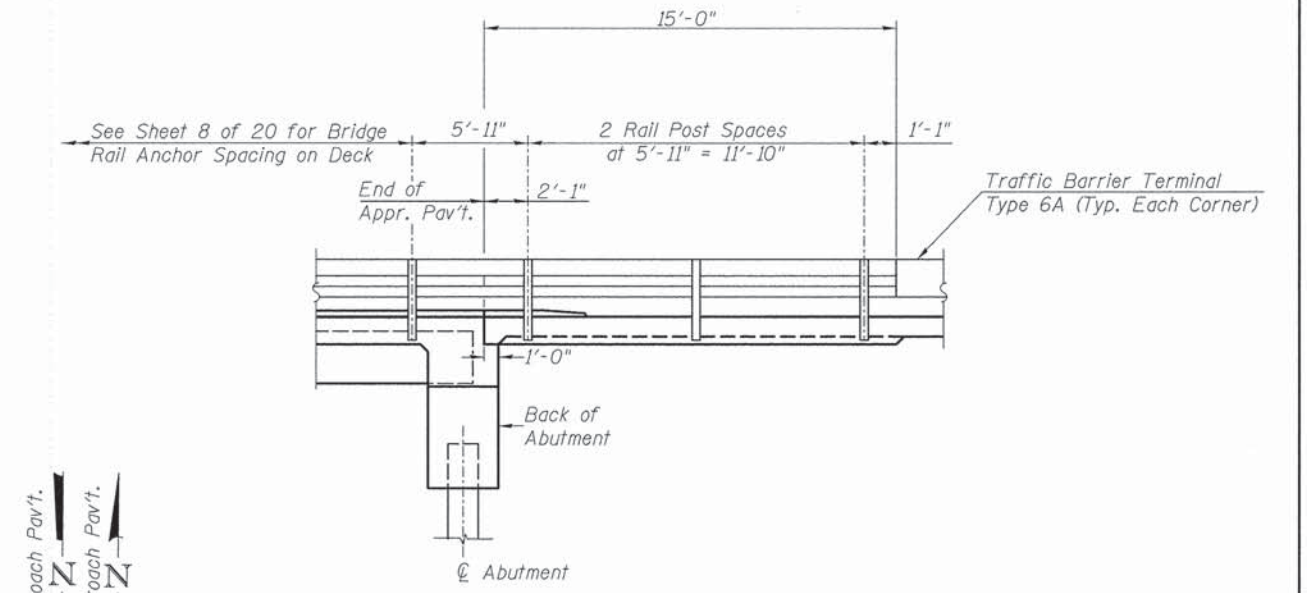
DIAPHRAGM DETAILS

SHEET NO. 9 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	16
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		

Notes:
 See Sheet 11 of 20 for Sections A-A, B-B, D-D and View C-C.
 $a_1(E)$, $a_2(E)$, $a_4(E)$, $a_5(E)$, and $a_6(E)$ bar spacings measured along C.R.
 See Sheet 12 of 20 for Rail Post Anchor Details.



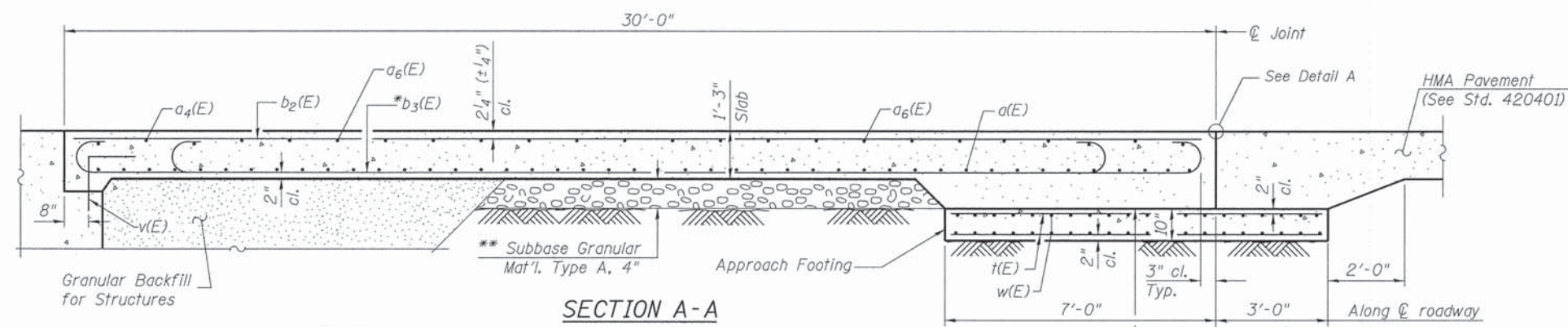
* Tilt #9 $b_3(E)$ bars as required to maintain clearance.



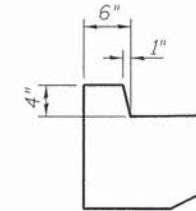
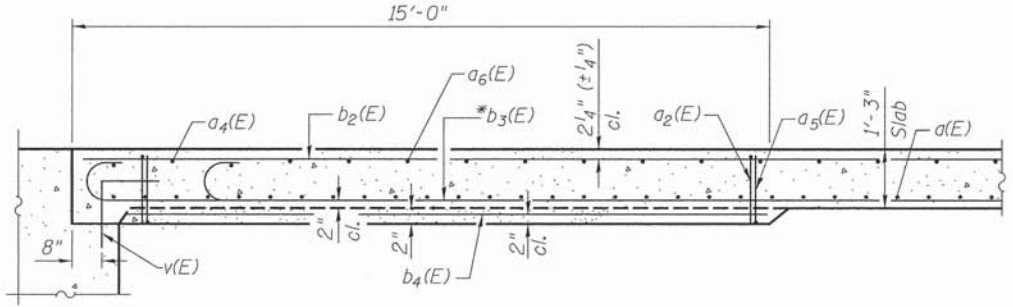
DETAIL A

(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS

SHEET NO. 10 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	17
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		

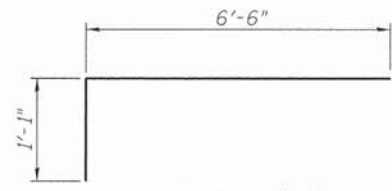
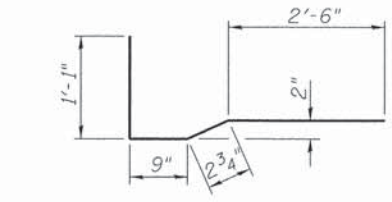
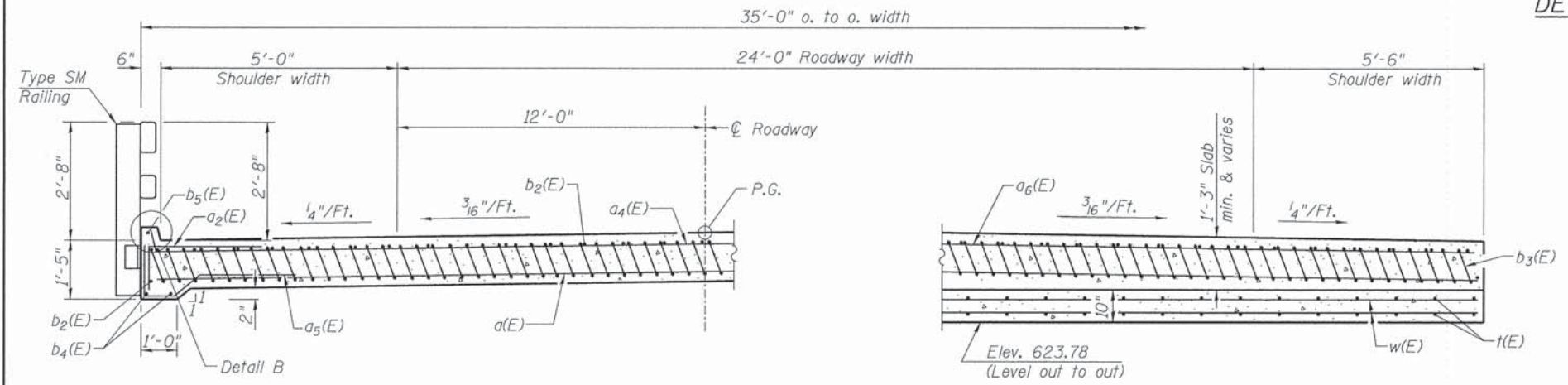


Notes:
 See Sheet 10 of 20 for Detail A.
 Approach slab and curb shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 See Sheet 8 of 20 for v(E) bar details.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See Sheet 2 of 20 for Granular Backfill and drainage treatment details.



* Tilt #9 b3(E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure

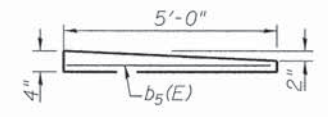
DETAIL B



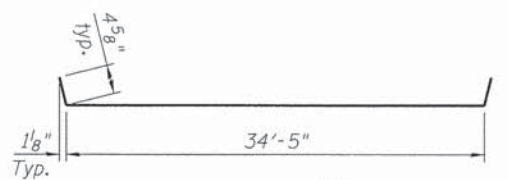
NEAR ABUTMENT

SECTION B-B
 (See Plan for dimensions not shown)

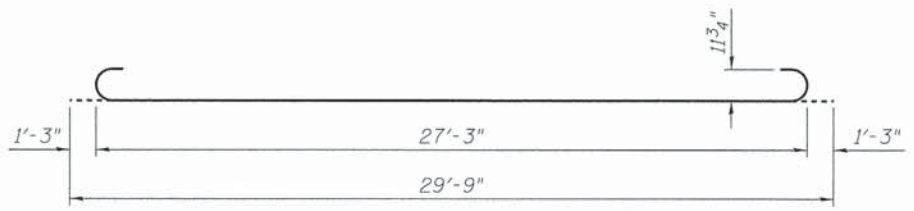
AT APPROACH FOOTING



VIEW C-C



BAR a4(E)



BAR b3(E)

TWO APPROACHES
 BILL OF MATERIAL

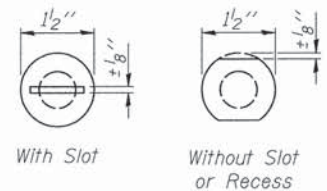
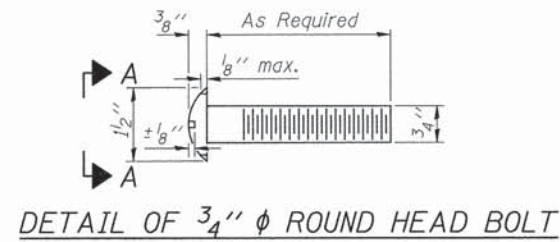
Bar	No.	Size	Length	Shape
a(E)	92	#5	34'-9"	—
a2(E)	144	#6	7'-7"	—
a4(E)	10	#4	35'-3"	—
a5(E)	52	#5	4'-7"	—
a6(E)	40	#4	34'-9"	—
b2(E)	62	#4	29'-8"	—
b3(E)	168	#9	29'-9"	—
b4(E)	8	#4	14'-8"	—
b5(E)	4	#4	4'-9"	—
t(E)	144	#4	9'-8"	—
w(E)	80	#5	34'-8"	—
Concrete Superstructure			CU YD	107.3
Concrete Structures			CU YD	21.6
① Reinforcement Bars, Epoxy Coated			POUND	28,520

① See Special Provisions

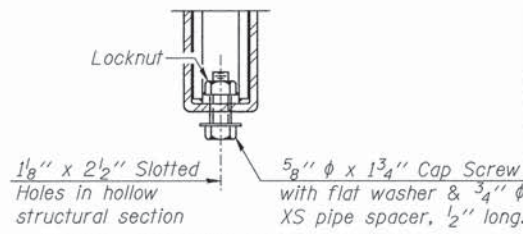
(Sheet 2 of 2)
 BRIDGE APPROACH SLAB DETAILS

SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	18
20 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)		

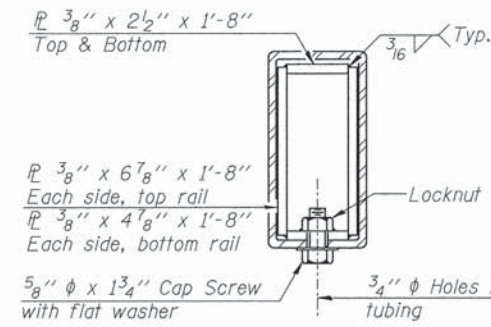
FOR RAIL POST SPACING SEE SHEET 8 OF 20.



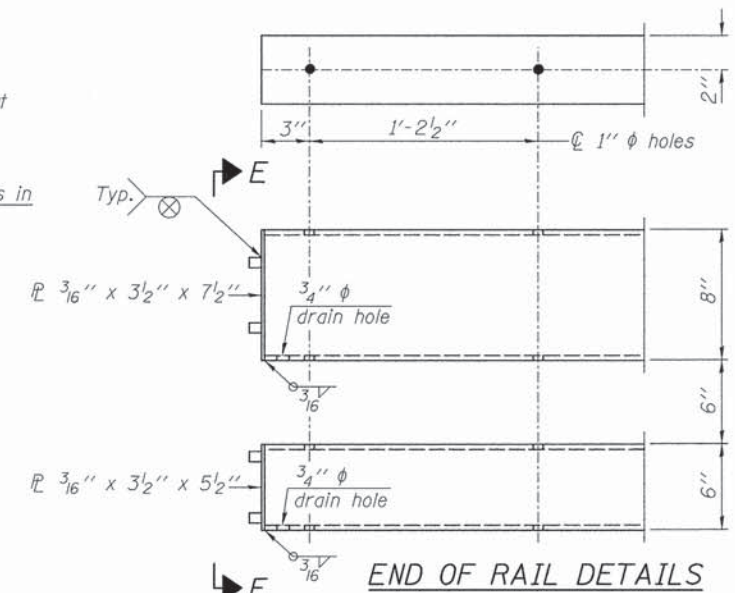
VIEW A-A



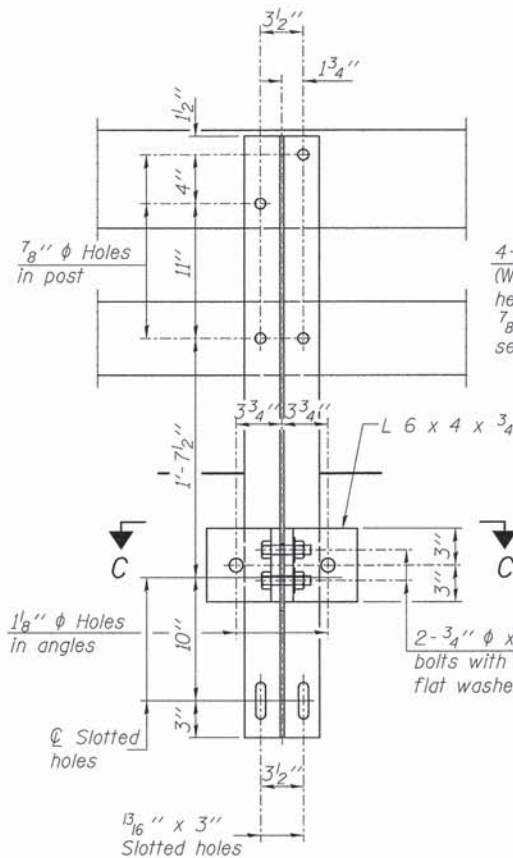
RAIL SPLICE CONNECTION AT EXPANSION JT.



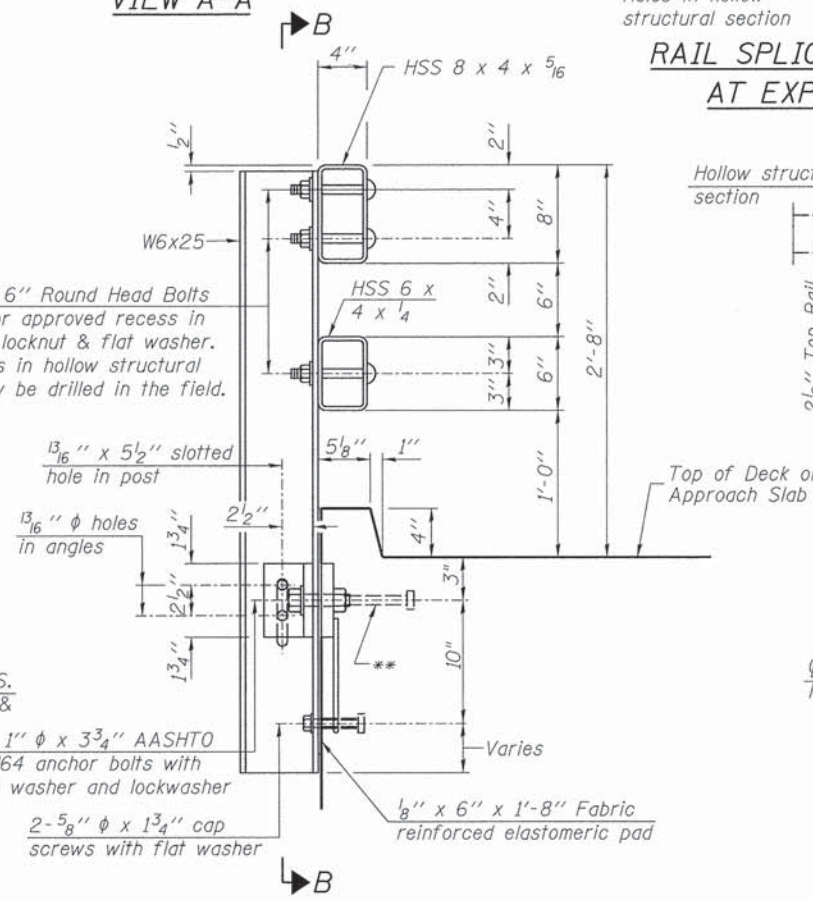
SECTION AT RAIL SPLICE



END OF RAIL DETAILS

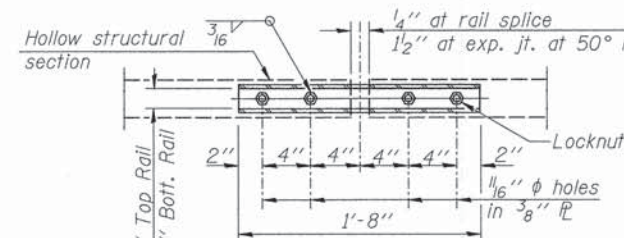


SECTION B-B



SECTION AT RAIL POST

Section of deck shown, Section at approach pavement similar (without curb).

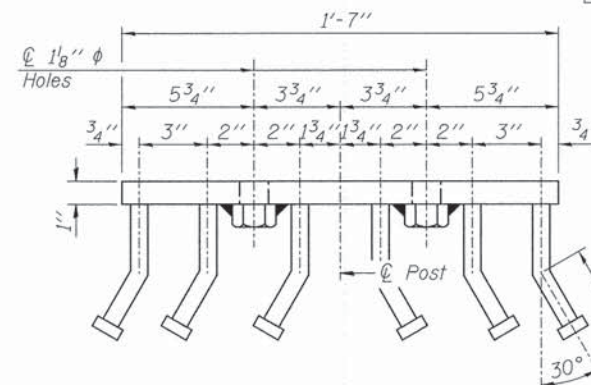


PLAN-BOTT. SPLICE R TYPICAL

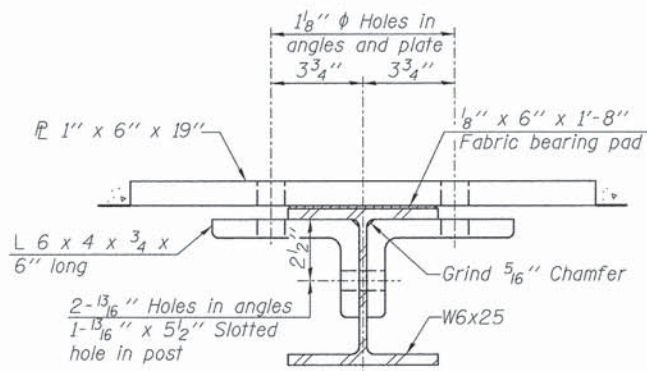
①-5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



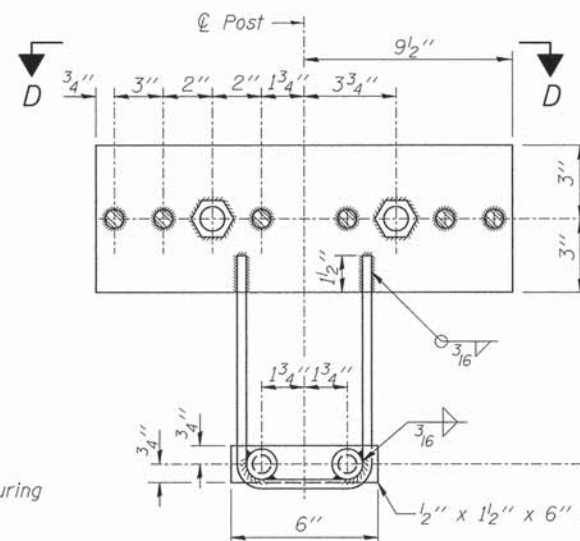
VIEW E-E



VIEW D-D



SECTION C-C



ANCHOR DEVICE

Notes:

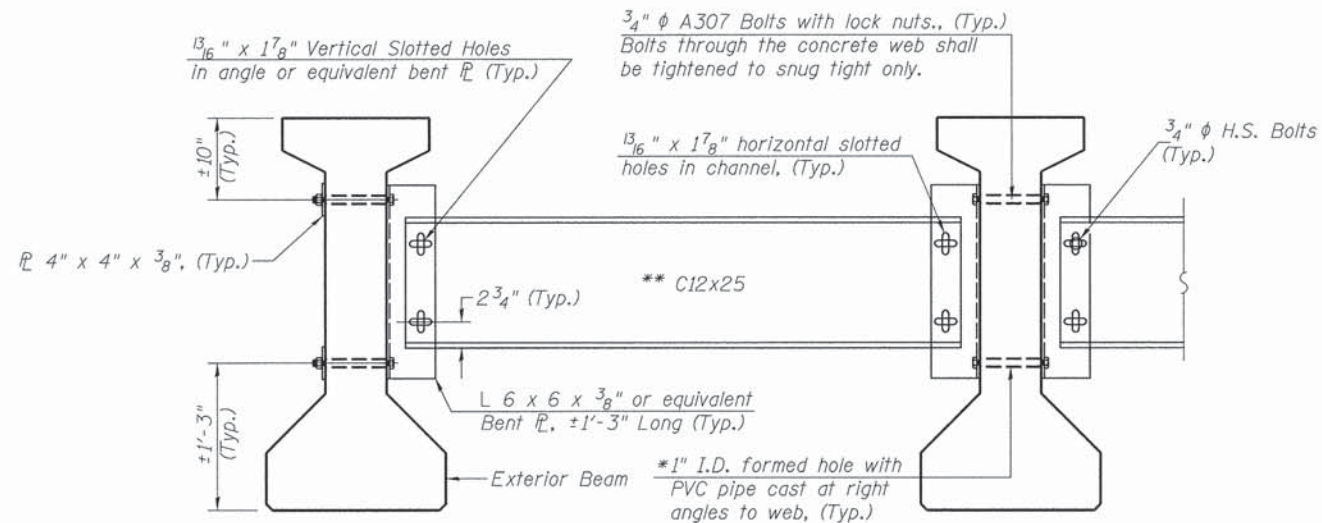
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
- All steel railing elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- ** 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.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	FOOT	170

STEEL RAILING TYPE SM

SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20 SHEETS	272	16-00732-00-BR	LASALLE	44
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.

All holes shall be 1 5/16 inch unless otherwise noted. 5/16 inch x 3 inch plate washers are required over all slotted holes.

All bolts shall be galvanized according to AASHTO M232.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

All structural steel for permanent bracing shall be AASHTO M270 Gr. 50.

* Fabricator shall locate to miss strands within permissible tolerances.

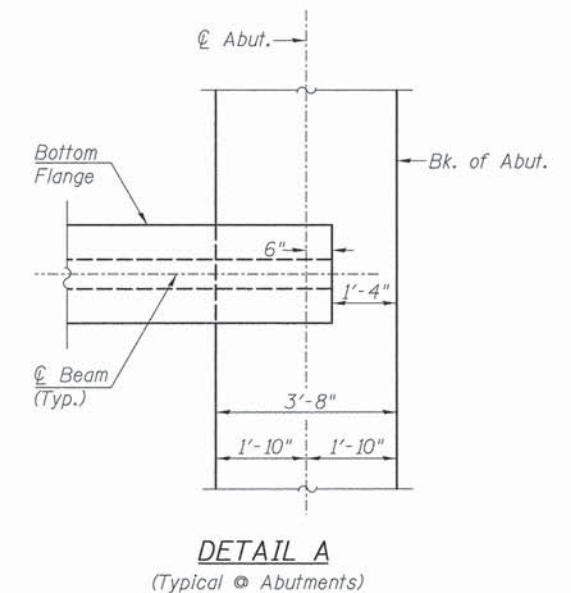
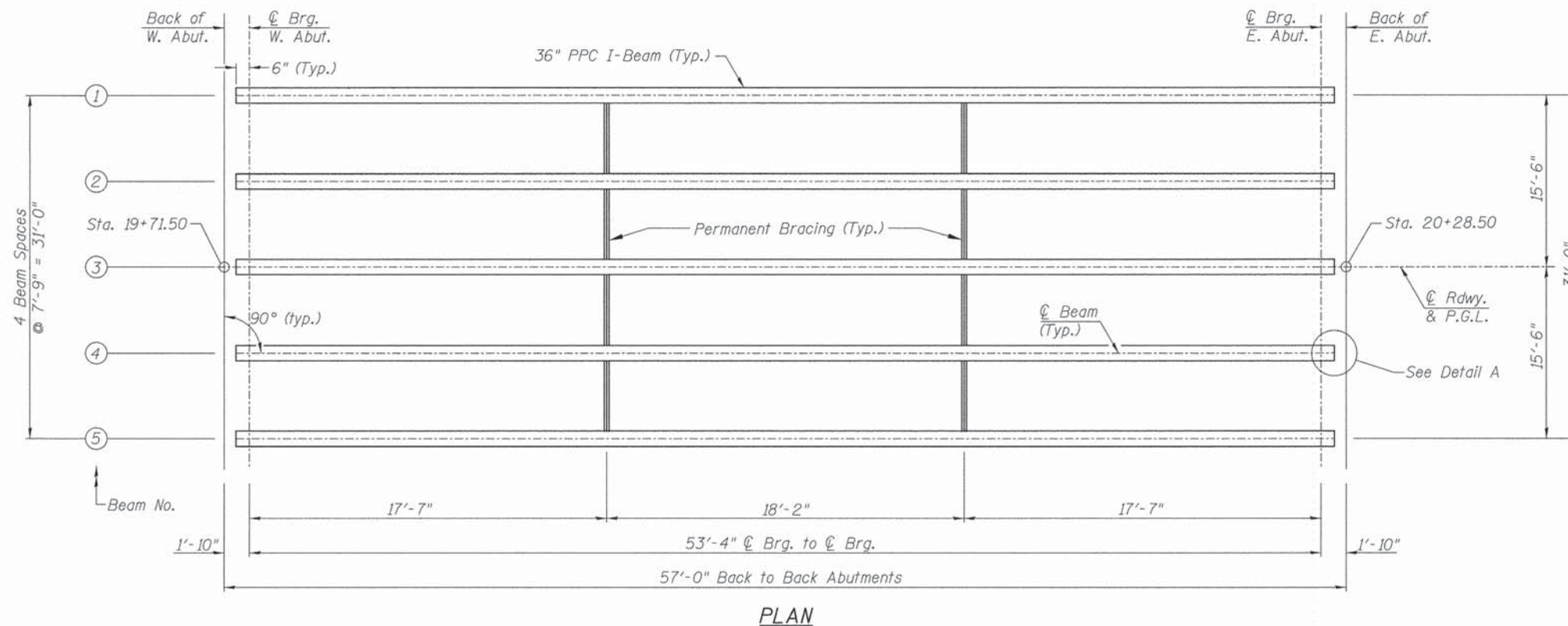
** Alternate C12x30 channels are permitted to facilitate material acquisition.

- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in ⁴)	48,648
I'	(in ⁴)	190,142
S _b	(in ³)	3,165
S _b '	(in ³)	6,086
S _t	(in ³)	2,358
S _t '	(in ³)	35,874
DC1	(k/ft)	1.213
M _{DC1}	(k)	431
DC2	(k/ft)	0.040
M _{DC2}	(k)	14
DW	(k/ft)	0.388
M _{DW}	(k)	138
M _{L + IM}	(k)	840

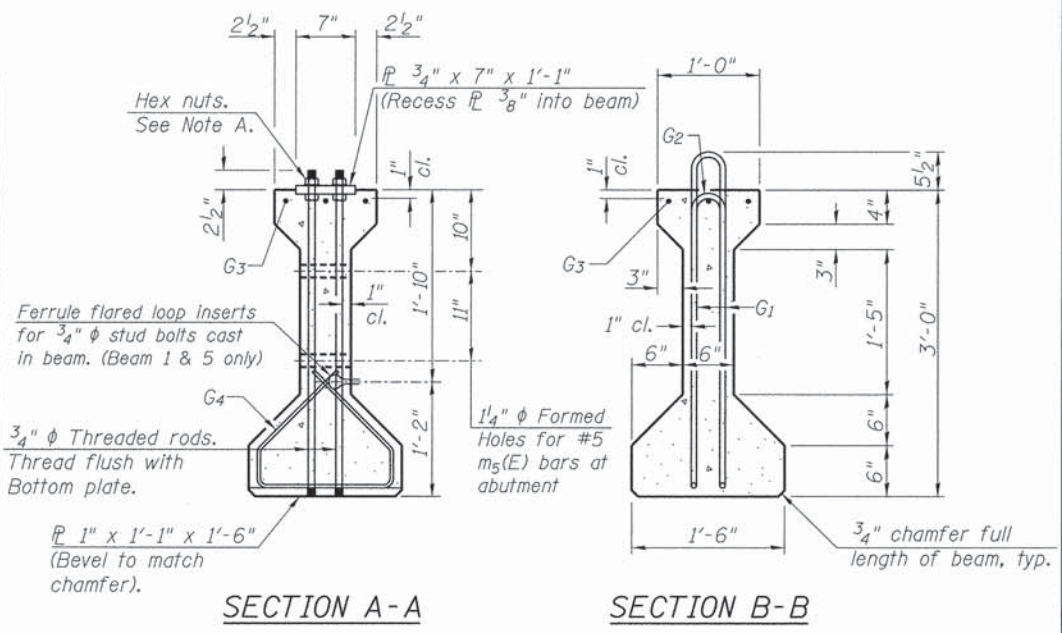
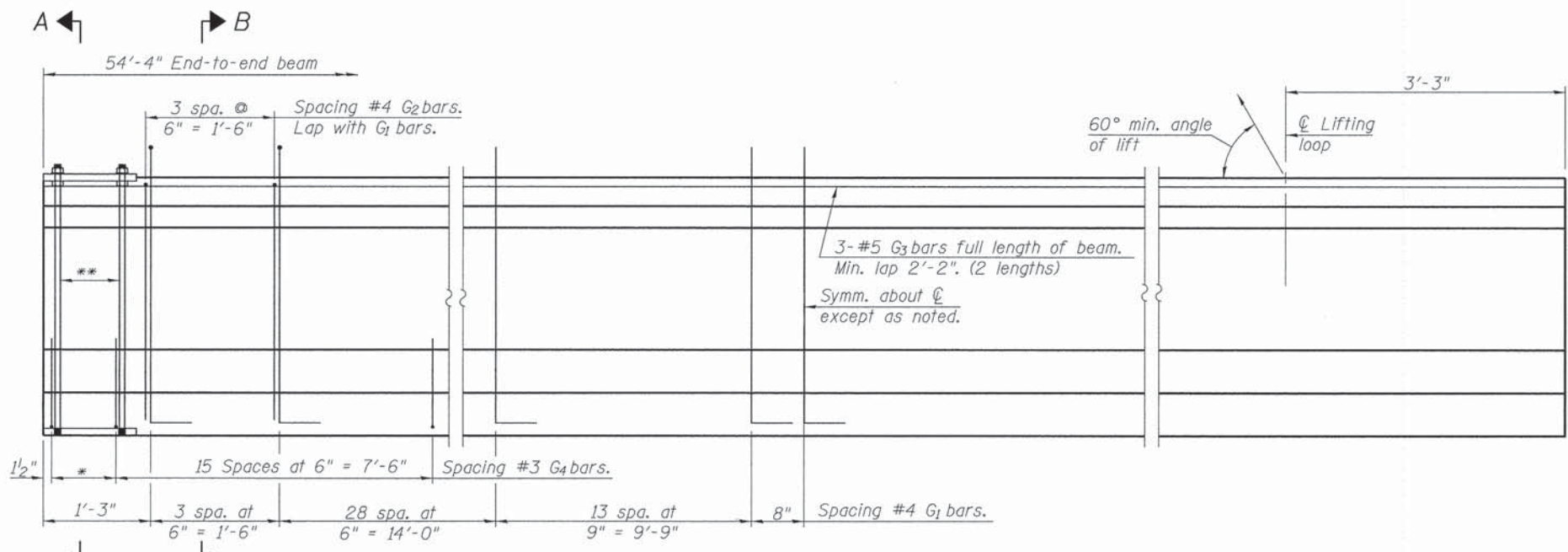
INTERIOR BEAM REACTION TABLE		
		Abut.
R _{DC1}	(k)	32.3
R _{DC2}	(k)	1.1
R _{DW}	(k)	10.3
R _{L + IM}	(k)	76.6
R _{Total}	(k)	120.3

PERMANENT BRACING DETAILS FOR 36" PPC I-BEAMS



FRAMING PLAN AND DETAILS

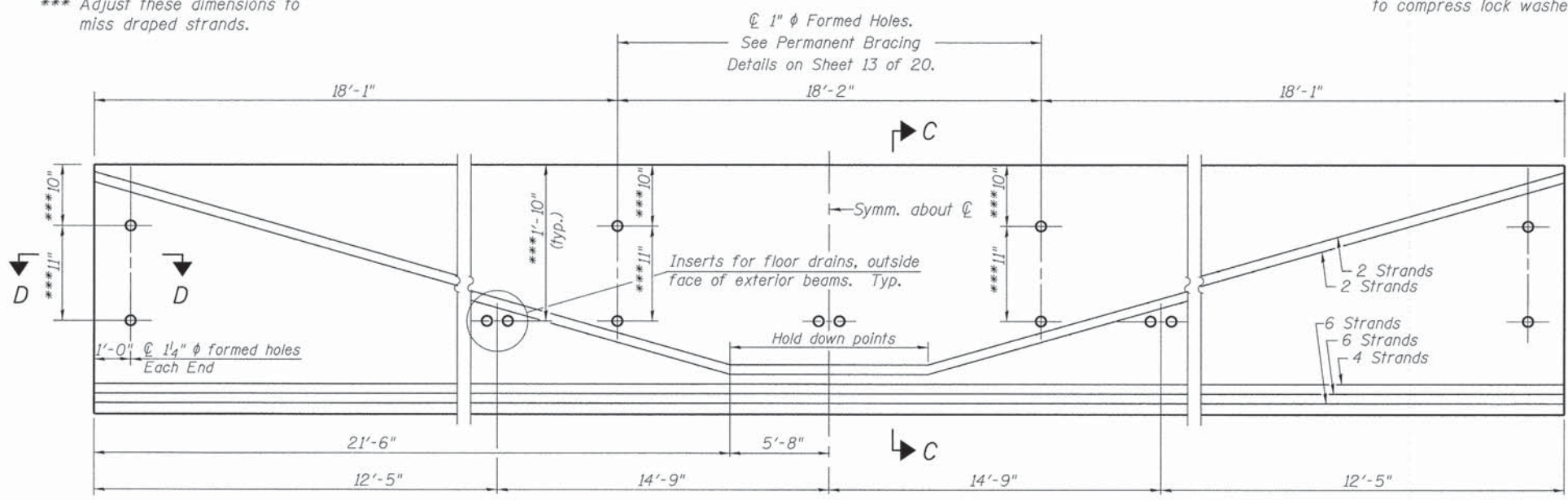
SHEET NO. 13 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	20
	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)			



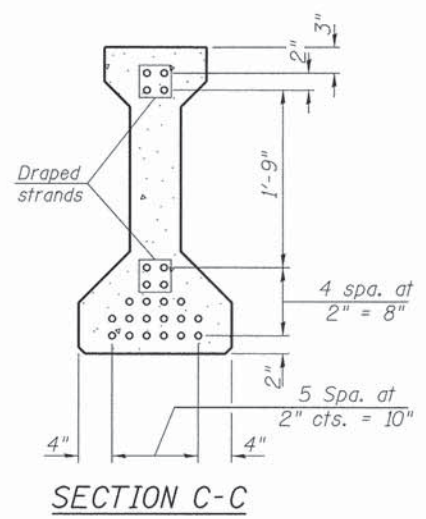
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

* 3 spaces at 3" = 9".
** 4-3/4" φ threaded dowel rods at 3" cts., Each Face
*** Adjust these dimensions to miss draped strands.



ELEVATION OF BEAM
(Showing prestressing steel)



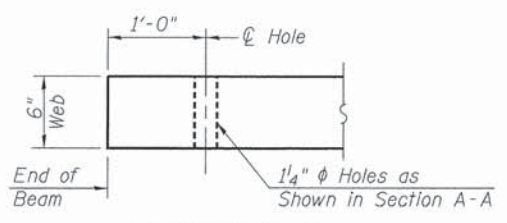
SECTION C-C

******BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G ₁	91	#4	7'-7"	∩ L
G ₂	8	#4	5'-8"	∩
G ₃	6	#5	28'-2"	—
G ₄	38	#3	4'-1"	⊂

****For information only

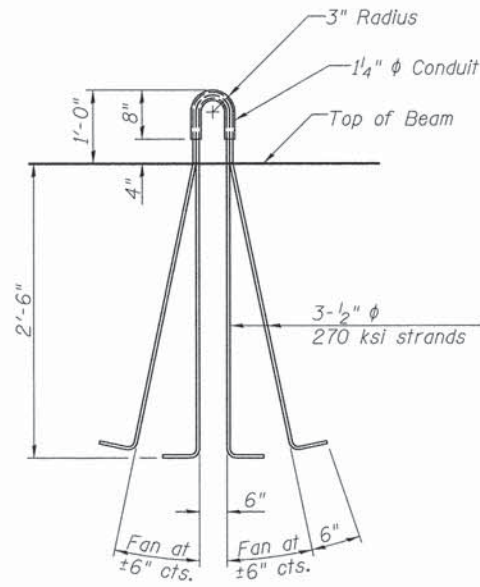
Notes:
See Sheet 15 of 20 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6,000 psi.



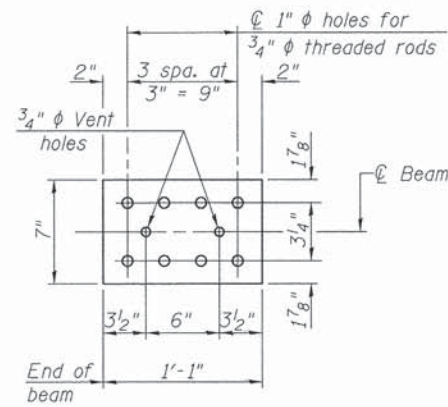
SECTION D-D

36" PPC I-BEAM

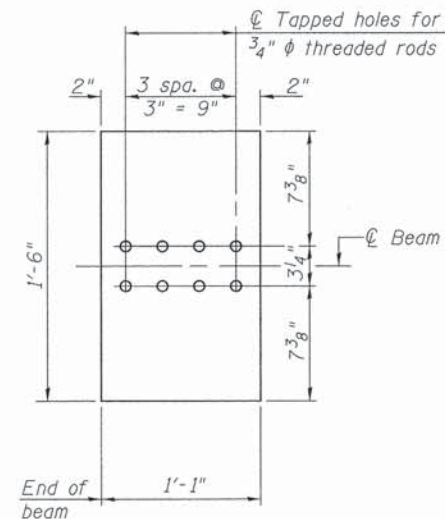
SHEET NO. 14 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	21
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)			



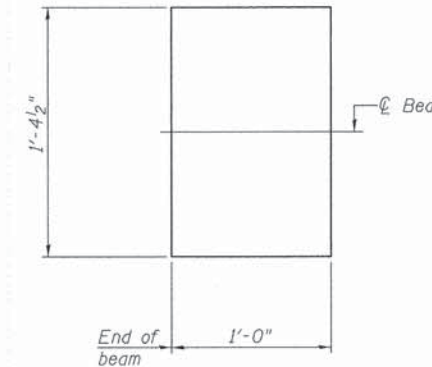
LIFTING LOOP DETAIL



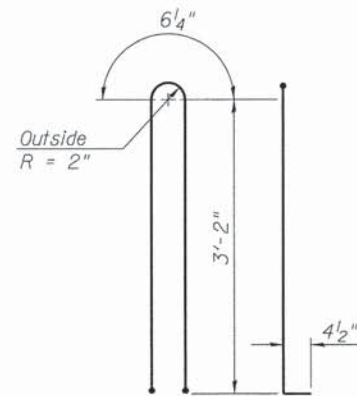
TOP PLATE



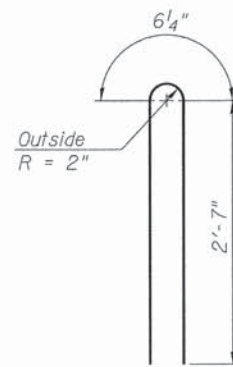
BOTTOM PLATE
(Showing threaded rods)



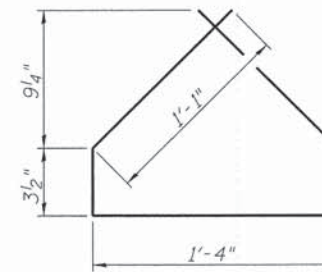
1" FABRIC BEARING PAD



BAR G1



BAR G2



BAR G4

NOTES

Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. 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. A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55.

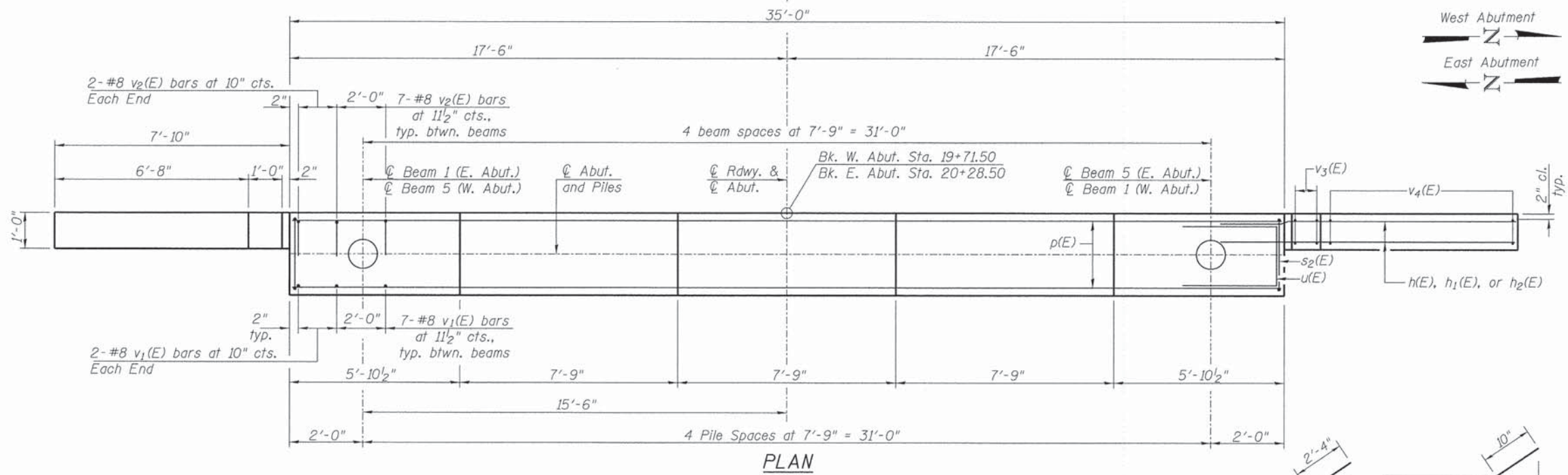
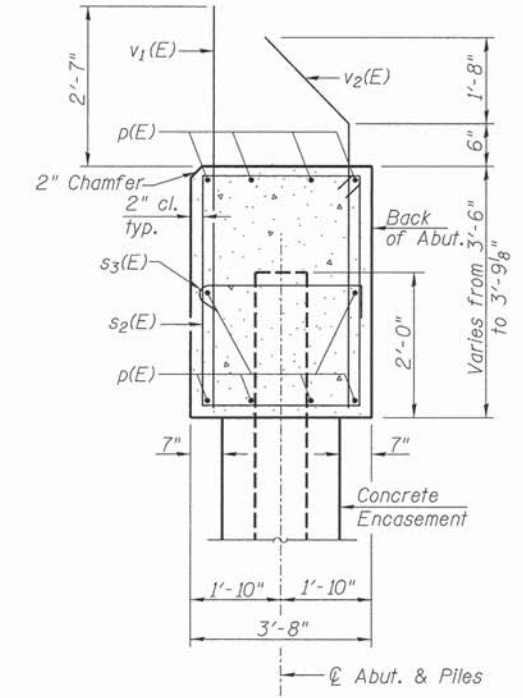
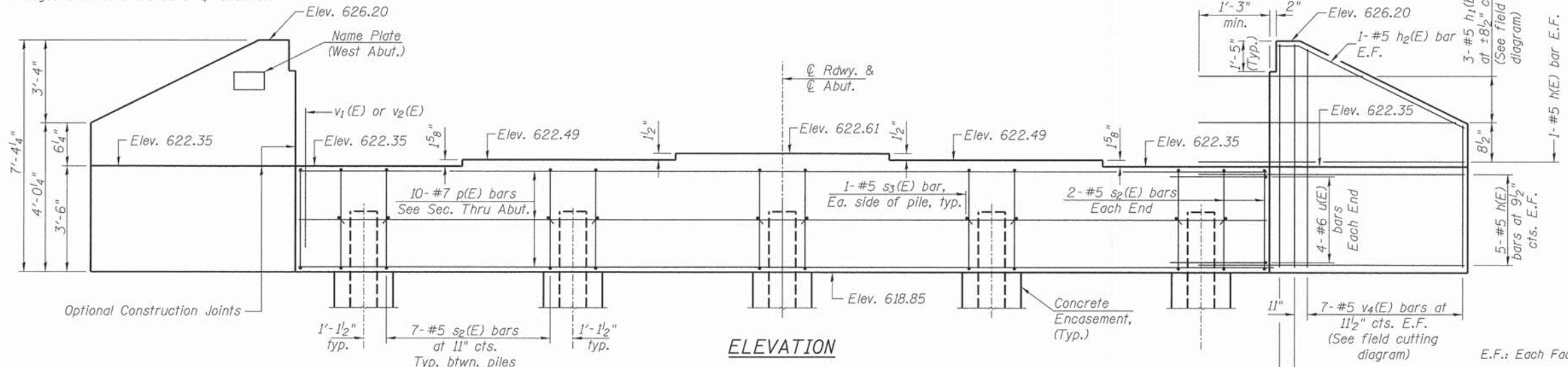
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	FOOT	272

36" PPC I-BEAM DETAILS

SHEET NO. 15	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20 SHEETS	272	16-00732-00-BR	LASALLE	44	22
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		

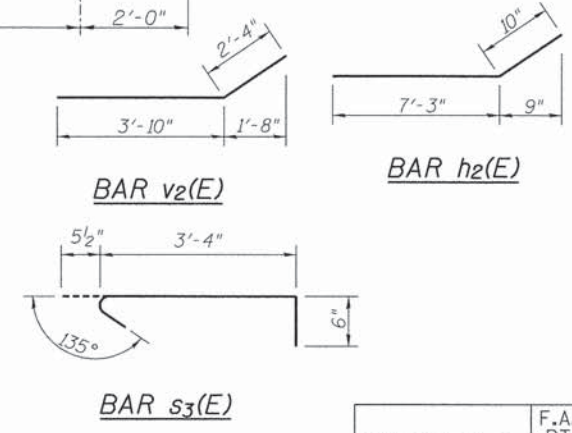
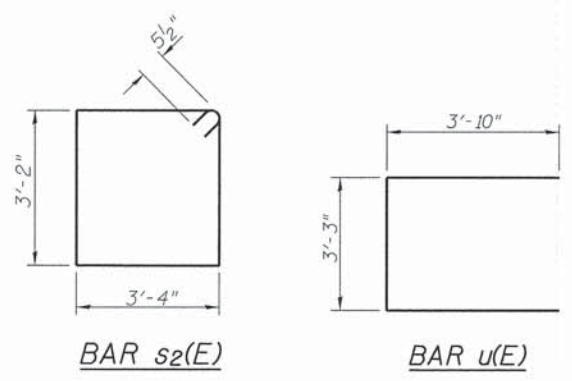
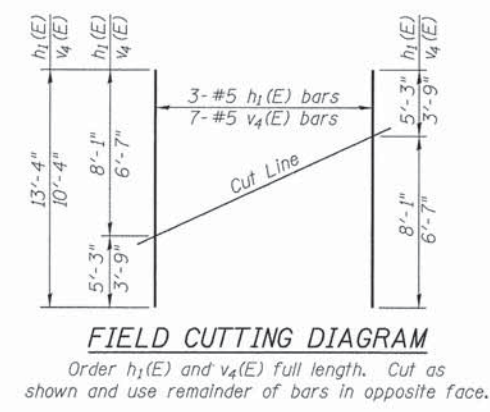
Notes:
 Four steps monolithically with cap.
 All edges shall have standard $\frac{3}{4}$ " chamfer.



**BILL OF MATERIALS
 TWO ABUTMENTS**

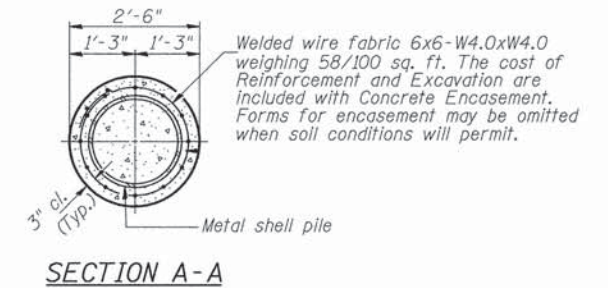
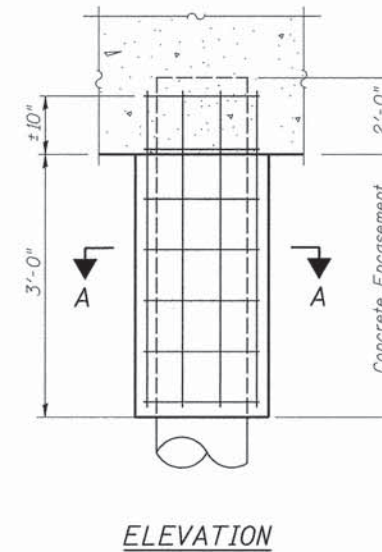
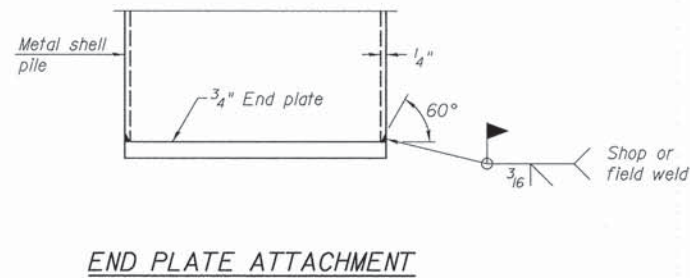
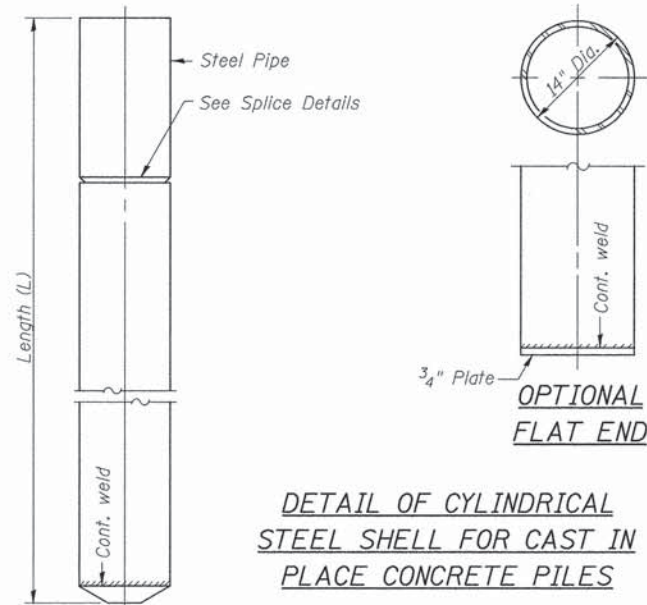
Bar	No.	Size	Length	Shape
h(E)	48	#5	9'-0"	—
h ₁ (E)	12	#5	13'-4"	—
h ₂ (E)	8	#5	8'-1"	—
p(E)	20	#7	34'-9"	—
s ₂ (E)	64	#5	13'-11"	□
s ₃ (E)	20	#5	4'-4"	—
u(E)	16	#6	10'-11"	—
v ₁ (E)	64	#8	5'-11"	—
v ₂ (E)	64	#8	6'-2"	—
v ₃ (E)	16	#5	7'-0"	—
v ₄ (E)	28	#5	10'-4"	—
Structure Excavation	CU YD		165	
Concrete Structures	CU YD		40.5	
Reinforcement Bars, Epoxy Coated	POUND		5,870	
Name Plates	EACH		1	
Furnishing Metal Shell Piles 14"x0.250"	FOOT		360	
Driving Piles	FOOT		360	
Test Pile Metal Shells	EACH		2	
Concrete Encasement	CU YD		4.3	

PILE DATA
 Type: Metal Shell 14"x0.250"
 Nominal Required Bearing: 370 kips
 Factored Resistance Available: 204 kips
 Est. Length: 45' W. Abutment
 45' E. Abutment
 No. Required: 10 (Includes 1 Test Pile at Each Abut.)

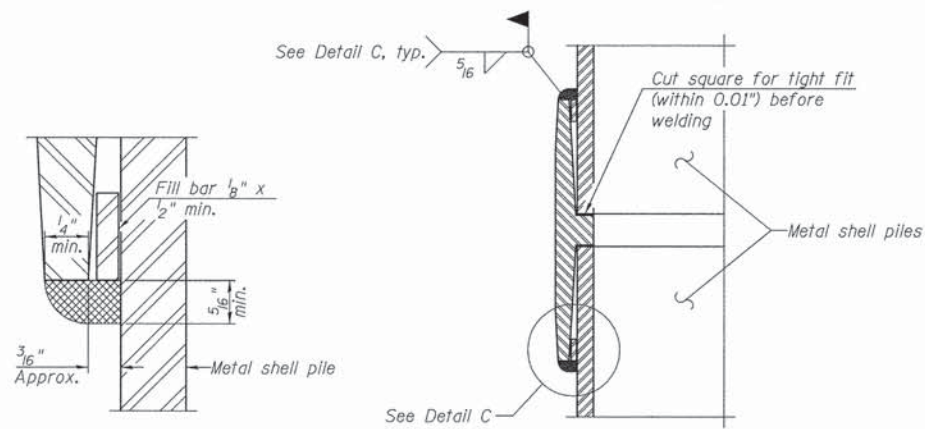


SHEET NO. 16	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20 SHEETS	272	16-00732-00-BR	LASALLE	44	23
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		

Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.

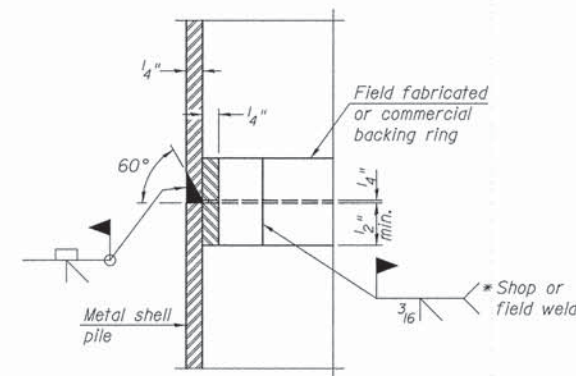


DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS

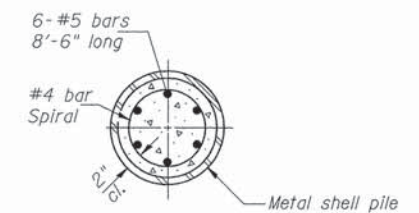
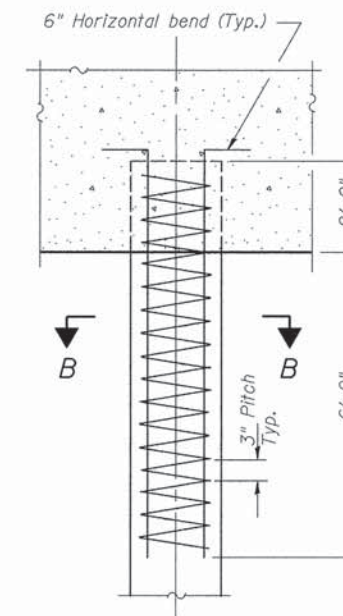


WELDED COMMERCIAL SPLICE

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.



* 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.



The cost of Reinforcement is included with Furnishing Metal Shell Piles 14"x0.250"

METAL SHELL PILE DETAILS

SHEET NO. 17	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	24
20 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0272(112)		

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Sheet 1 of 3
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
 Project Name: County Hwy 6 Over Covell Creek Tributary
 Project Site: Section 16-00732-00-BR
LaSalle County, IL.
 Boring No. B-1
 Surface Elev. 99.75
 Auger Depth 61' Rotary Depth NA
 Start Date 01/13/14 Finish Date 01/13/14

Location: 29' West of Center of Existing Bridge
16' South of centerline of roadway

(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 (%)
99.75	0 - 3" AC 3"-14" Agg.		1						Randy Safranski Diedrich D-120		
98.75			2								
97.75			3	1	SS	1.2	9	B			27
96.75	Stiff Black/Gray Silty Clay Fill with Wood Fragments and Cobbles		4								
95.75			5	2	SS	1.2	9	B			26
94.75			6								
93.75			7								
92.75			8	3	SS	1.2	10	B			26
91.75			9								
90.75			10	4	SS	---	11	---	14		
89.75	Medium Dense Gray Sand & Gravel		11								
88.75			12								
87.75			13	5	SS	3.5	16	B	15		
86.75			14								
85.75			15	6	SS	4.0	19	B	15		
84.75	Very Stiff Gray Silty Clay Till		16								
83.75			17								
82.75			18	7	SS	3.3	18	B	16		
81.75			19								
80.75			20	8	SS	3.1	18	B	17		
79.75											

Groundwater Data: Water after auger removal at 11' below ground level
 Comments: **Assumed centerline elevation of existing bridge to be 100.0**

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Sheet 2 of 3
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net

Client: Hutchison Engineering, Inc.
 Project Name: County Hwy 6 Over Covell Creek Tributary
 Project Site: Section 16-00732-00-BR
LaSalle County, IL.
 Boring No. B-1
 Surface Elev. 99.75
 Auger Depth 61' Rotary Depth NA
 Start Date 01/13/14 Finish Date 01/13/14

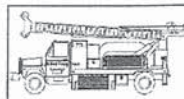
Location: 29' West of Center of Existing Bridge
16' South of centerline of roadway

(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 (%)
78.75			22						Randy Safranski Diedrich D-120		
77.75			23	9	SS	2.8	17	B			20
76.75	Very Stiff Gray Clay Till		24								
75.75			25	10	SS	2.7	17	B			22
74.75			26								
73.75			27								
72.75			28								
71.75			29								
70.75			30								
69.75	Very Stiff Gray Clay Till with Sand Seams		31	11	SS	2.0	17	B			24
68.75			32								
67.75			33								
66.75			34								
65.75	Very Stiff Gray Silty Clay Loam Till		35	12	SS	3.7	22	B	10		
64.75			36								
63.75			37								
62.75			38								
61.75			39								
60.75	Very Stiff Gray Silty Clay Till		40	13	SS	3.9	22	B	20		
59.75			41								
58.75											

Groundwater Data: Water after auger removal at 11' below ground level
 Comments: **Assumed centerline elevation of existing bridge to be 100.0**

SOIL BORING LOGS

SHEET NO. 18 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	25
	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



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

BORING LOG

Sheet 3 of 3

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

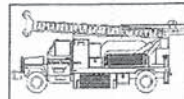
Client: Hutchison Engineering, Inc.
Project Name: County Hwy 6 Over Covell Creek Tributary
Project Site: Section 16-00732-00-BR
LaSalle County, IL.

Boring No. B-1
Surface Elev. 99.75
Auger Depth 61' Rotary Depth NA
Start Date 01/13/14 Finish Date 01/13/14

Location: 29' West of Center of Existing Bridge
16' South of centerline of roadway

(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)	
57.75											
56.75	Very Stiff Gray Silty Clay Loam Till		43								
55.75			44								
54.75			45	14	SS	2.5	22	B/S	20		
53.75			46								
52.75			47								
51.75			48								
50.75			49								
49.75			50								
48.75			51	15	SS	2.3	26	B/S	20		
47.75			52								
46.75			53								
45.75			54								
44.75	Hard Pinkish/Gray Silty Clay Till with Cobbles		55								
43.75			56	16	SS	---	52	---	12		
42.75			57								
41.75			58								
40.75			59								
39.75			60								
38.75			61	17	SS	---	25 1"	---	12		
37.75			62								

Groundwater Data: Water after auger removal at 11' below ground level
Comments: **Assumed centerline elevation of existing bridge to be 100.0**



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

BORING LOG

Sheet 1 of 3

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

Client: Hutchison Engineering, Inc.
Project Name: County Hwy 6 Over Covell Creek Tributary
Project Site: Section 16-00732-00-BR
LaSalle County, IL.

Boring No. B-2
Surface Elev. 99.67
Auger Depth 61' Rotary Depth NA
Start Date 01/13/14 Finish Date 01/13/14

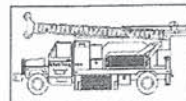
Location: 29' East of Center of Existing Bridge
16' North of centerline of roadway

(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)	
99.67											
98.67	0 - 3" AC 3" - 12" Agg		1								
97.67			2								
96.67			3	1	SS	1.0	7	B	27		
95.67			4								
94.67	Black Gray Silty Clay Fill with Wood Fragments and Cobbles		5	2	SS	0.6	4	B	29		
93.67			6								
92.67			7								
91.67			8	3	SS	---	4	---	28		
90.67			9								
89.67			10								
88.67	Medium Dense Gray Sand & Gravel		11	4	SS	---	14	---	18		
87.67			12								
86.67	Medium Dense Brown Sand & Gravel		13	5	SS	---	16	---	14		
85.67			14								
84.67			15	6	SS	---	24	---	12		
83.67			16								
82.67	Very Stiff Gray Silty Clay Till		17								
81.67			18	7	SS	3.0	26	B	16		
80.67			19								
79.67			20	8	SS	3.1	26	B	17		

Groundwater Data: Water after auger removal at 11' below ground level
Comments: **Assumed centerline elevation of existing bridge to be 100.0**

SOIL BORING LOGS

SHEET NO. 19 20 SHEETS	F.A.S. RTE. 272	SECTION 16-00732-00-BR	COUNTY LASALLE	TOTAL SHEETS 44	SHEET NO. 26
	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



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

BORING LOG

Sheet 2 of 3

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

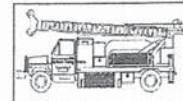
Client: Hutchison Engineering, Inc.
Project Name: County Hwy 6 Over Covell Creek Tributary
Project Site: Section 16-00732-00-BR
LaSalle County, IL.

Boring No. B-2
Surface Elev. 99.67
Auger Depth 61' Rotary Depth NA
Start Date 01/13/14 Finish Date 01/13/14

Location: 29' East of Center of Existing Bridge
16' North of centerline of roadway

(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			
78.67									Randy Safranski Diedrich D-120		
77.67			22								
76.67			23	9	SS	2.9	20	B	20		
75.67			24								
74.67			25	10	SS	3.0	22	B	19		
73.67			26								
72.67			27								
71.67			28								
70.67			29								
69.67			30								
68.67	Very Stiff Gray Silty Clay Till		31	11	SS	2.3	15	B	22		
67.67			32								
66.67			33								
65.67			34								
64.67			35								
63.67			36	12	SS	3.1	20	B	19		
62.67			37								
61.67			38								
60.67			39								
59.67			40								
58.67			41	13	SS	3.1	21	B	19		

Groundwater Data: Water after auger removal at 11' below ground level
Comments: **Assumed centerline elevation of existing bridge to be 100.0**



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

BORING LOG

Sheet 3 of 3

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

Client: Hutchison Engineering, Inc.
Project Name: County Hwy 6 Over Covell Creek Tributary
Project Site: Section 16-00732-00-BR
LaSalle County, IL.

Boring No. B-2
Surface Elev. 99.67
Auger Depth 61' Rotary Depth NA
Start Date 01/13/14 Finish Date 01/13/14

Location: 29' East of Center of Existing Bridge
16' North of centerline of roadway

(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			
57.67									Randy Safranski Diedrich D-120		
56.67			43								
55.67			44								
54.67	Very Stiff Gray Silty Clay Till		45	14	SS	2.7	22	B	22		
53.67			46								
52.67			47								
51.67			48								
50.67			49								
49.67			50								
48.67	Very Stiff Gray Silty Clay Loam Till		51	15	SS	3.5	29	S	15		
47.67			52								
46.67			53								
45.67			54								
44.67			55								
43.67			56	16	SS	---	40	---	12		
42.67	Hard Pinkish Gray Silty Clay with Cobbles		57								
41.67			58								
40.67			59								
39.67			60								
38.67			61	17	SS	---	90	---	12		
37.67			62								

Groundwater Data: Water after auger removal at 11' below ground level
Comments: **Assumed centerline elevation of existing bridge to be 100.0**

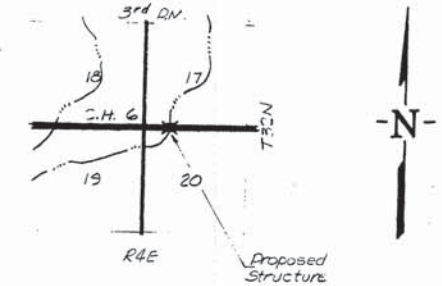
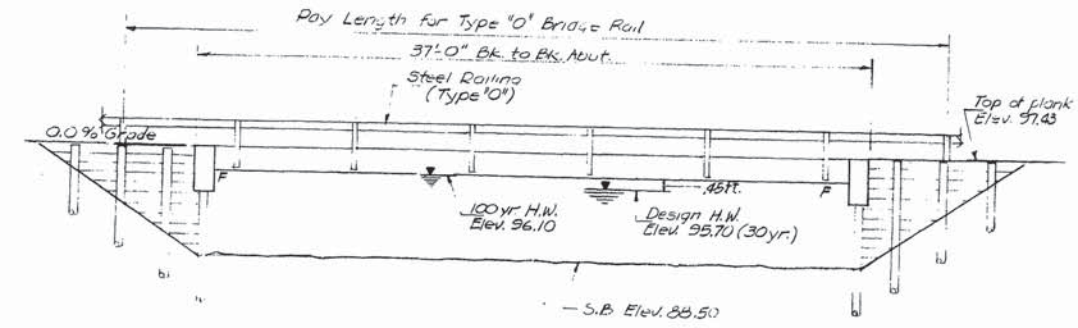
SOIL BORING LOGS

SHEET NO. 20 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	27
S.N. 050-3614			CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
79-00024-00	7	LASALLE	44	28
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

* SEC. 79-00024-00-BR

SHEET 1 OF 5



LOCATION SKETCH

GENERAL NOTES

- All work shall comply with the Standard Specifications for Road and Bridge Construction, Revised Edition, 1979.
- The Contractor shall drive 1" diameter test piles in the permanent location of the wing abutment prior to ordering the remaining piles.
- See Special Provisions for Metal Deck Bridge Rail, Name Plate & Waterproofing Membrane System requirements.
- Channel excavation material will be classified for placement but shall be considered inert until the contractor is advised.
- All hardware shall be hot dipped galvanized.
- Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M31 or M53 Grade 60.

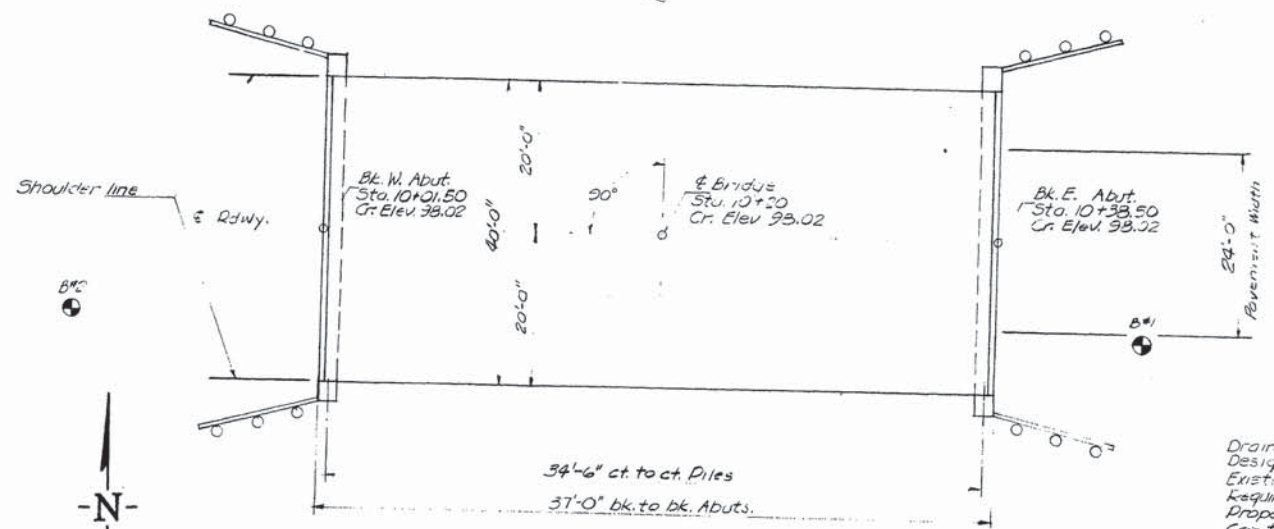
- B.M.#1 - Top of ROW Marker
30" Left of Sta. 1+91 Elev. 100.00
B.M.#2 - Chiseled "X" on top of N.W. Wingwall, Left of Sta. 9+95 Elev. 97.59

ELEVATION

Existing Structure consists of a single span reinforced concrete thru girder with concrete wing walls and abutments. It is assumed that the bridge is supported by concrete spread footing. Bk to bk. abuts = 33'-0" width = 23'-0"
The contractor shall remove the existing superstructure and substructure prior to construction of new bridge.

BORING DATA

Station	Blow Count	Soil Description
95.0	6	Medium Blue Silty Clay (FILL)
90.0	7	Stiff Blue Silty Clay
85.0	4	Stiff Yellow Brown Silty Clay
80.0	25	Loose Grey to Brown Sand and Fine Gravel
75.0	12	Medium Brown Loam
70.0	24	Hard Grey Silty Clay Till
65.0	15	Medium Grey Course Sand and Fine Gravel
60.0	18	Hard Grey Silty Clay Till
55.0	17	Very Stiff Silty Clay Till



WATERWAY DATA

Drainage Area: 7.0 sq. mi.
Design Discharge (30 yr.): 1,110 c.f.s.
Existing Opening (below 30 yr. H.W.E.): 135 sq. ft.
Required Opening (below 30 yr. H.W.E.): 236 sq. ft.
Proposed Opening (below 30 yr. H.W.E.): 237 sq. ft.
Created Head for Design Flood: 0.3 ft.
Created Head for 100 yr. Flood: 1.480 c.f.s.
0.79 ft.

PLAN

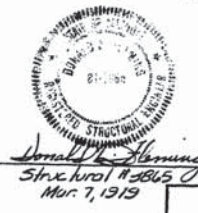
DESIGN STRESSES

SUPERSTRUCTURE
f_c = 5,000 psi. f_s = 270,000 psi. (2" # Strum.)
f_y = 60,000 psi. f_s = 183,000 psi. (" ")
f_{cl} = 4,000 psi.

SUBSTRUCTURE
f_c = 2,500 psi.
f_y = 60,000 psi.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB.	TOTAL
Precast Prestressed Conc. Deck Beams 17"	Sq. ft.	1427		1427
Class X Concrete	Cu. yd.		19.6	19.6
Reinforcement Bars	Lbs.	2277		2277
Treated Timber	Lbs.	5551		5551
Hardware	Lbs.	3324		3324
Steel Railing (Type "O")	Lin. ft.	573		573
Test Pile (Timber)	ea.	1		1
Furnishing Crossed Piles (20.1' to 33')	Lin. ft.		782	782
Driving Timber Piles	ea.		782	782
Name Plate	ea.	1		1
Removal of Existing Structure	ea.	1		1
Portland Cement Mortar Finishing Course	Lin. ft.		321	321
Waterproofing Membrane System	Sq. yd.	158.6		158.6



- N - Number of blows required to drive a 2" dia. split spoon sampler with a 140 lb. hammer falling 30"
Qu - Unconfined compressive strength tons/sq. ft.
W - Natural moisture content %

STATION 10+20
SEC. 79-00024-00-BR
F.A.S. RTE 272
LASALLE COUNTY
BUILT 197
LOADING HS20 BRIDGE NO. 050-34

LETTERING FOR NAME PLATE

Locate Name Plate at N.W. corner of structure (The complete structure number will be furnished to the contractor after award of contract.)

H.S. 20-44 LOADING
psi = 25 psi. future wearing surface

GENERAL PLAN & ELEVATION
F.A.S. RTE. 272 - COUNTY HWY. 6
SECTION 79-00024-00-BR
LASALLE COUNTY
STATION 10+20

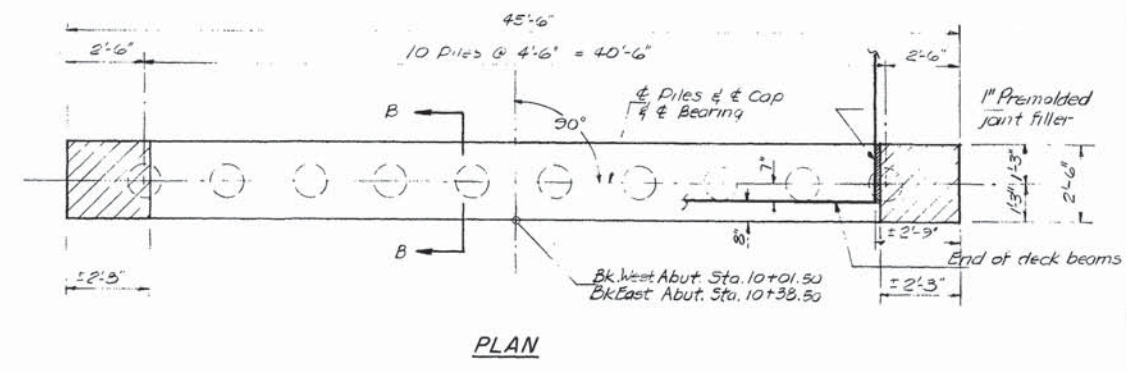
DESIGNED BY: DNF
CHECKED BY: PEB
DRAWN BY: GDZ
APPROVED BY: DNF

FILE NO. 78092
DATE 3-7-79

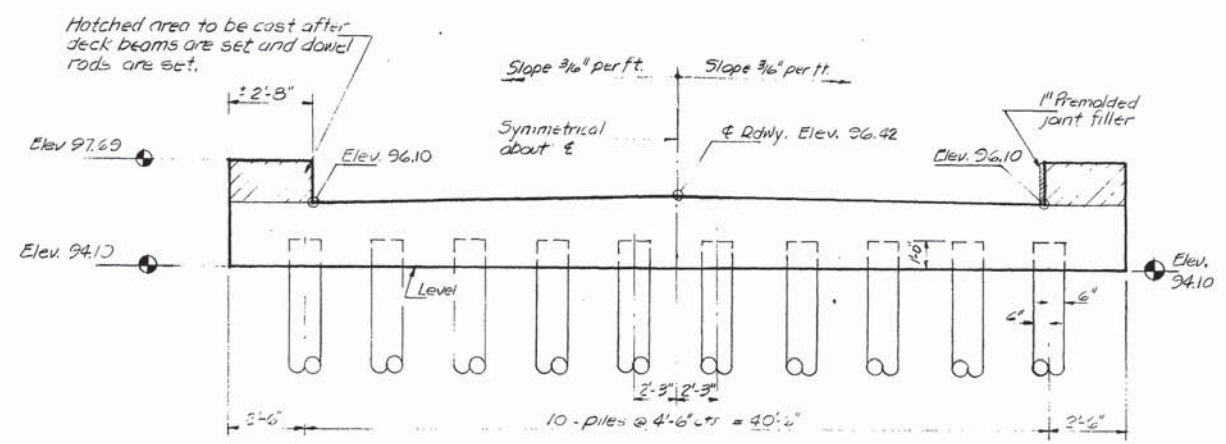
HANSON ENGINEERS INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

EXISTING STRUCTURE PLANS

SHEET NO. 1	F.A.S. RTE. 272	SECTION 16-00732-00-BR	COUNTY LASALLE	TOTAL SHEETS 44	SHEET NO. 28
5 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)		



PLAN

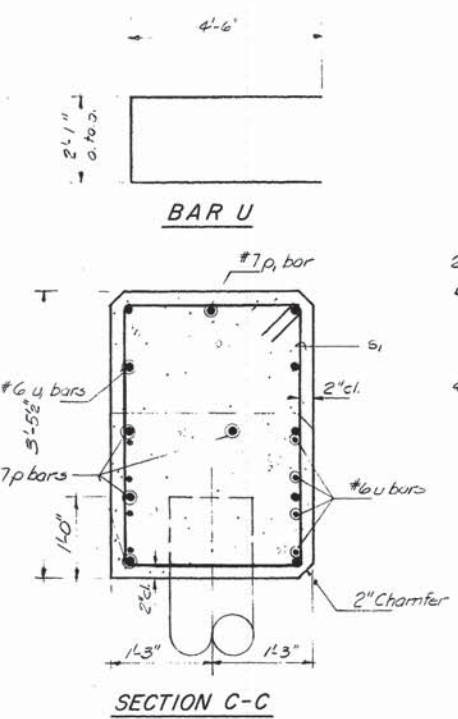


ELEVATION

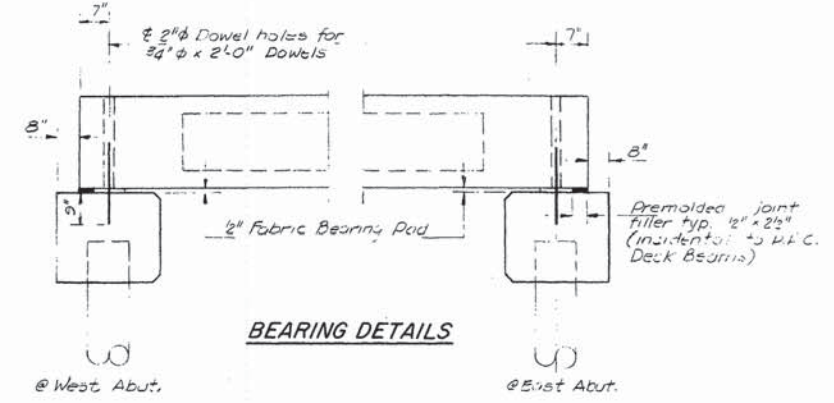
PILE DATA

Abutments	
Type	Cresotated Timber (12"φ)
No. Req'd.	* 20
Est. Length	26 ft.
Capacity	19 tons
Wingwalls	
Type	Cresotated Timber (12"φ)
No. Req'd.	12
Est. Length	24 ft.
Capacity	Min. Tip Elev. 73.5

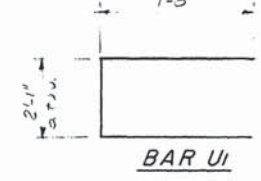
Note: Precure a 10" diameter hole a minimum of 12'-0" below streambed, then drive to capacity. * includes 1-test pile



SECTION C-C



BEARING DETAILS



BAR U

BILL OF MATERIAL (2 PILE CAPS)

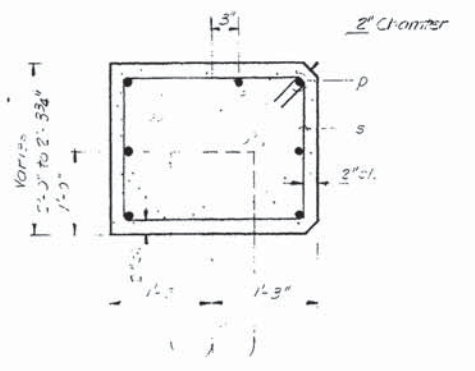
BAR	NO.	SIZE	LENGTH	SHAPE
P	25	#7	23'-10"	
P1	4	#7	2'-4"	
S	72	#4	8'-5"	□
S1	12	#4	11'-7"	□
U	16	#6	11'-1"	
U1	16	#6	5'-5"	
Class X Concrete		cu. yd.	3.6	
Reinforcement Bars		lbs.	4,277	

BAR U

BAR S

BAR S1

REINFORCEMENT DETAIL



SECTION B-B

BILL OF MATERIAL (2 ABUTMENTS)

ITEM	UNIT	TOTAL
Class X Concrete	cu. yd.	19.6
Reinforcement Bars	lbs.	2,577
Treated Timber	l.b.m.	5,551
Hardware	lbs.	2,226*
Furn. Cresotated Piles (201' to 38')	lin. ft.	782
Driving Timber Piles	lin. ft.	782
Test Pile (Timber)	ea.	1

* includes 3% for galvanizing

PILE CAP DETAILS
 F.A.S. RTE. 272 - COUNTY HWY. 6
 SECTION 79-00024-00-BR
 LASALLE COUNTY
 STATION 10+20

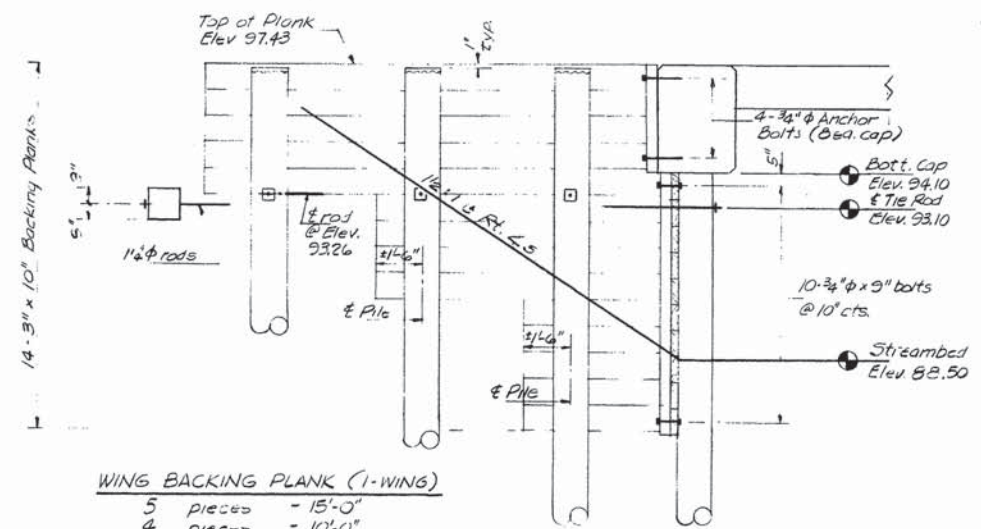
DESIGNED BY: G.L.F.
 CHECKED BY: P.E.B.
 DRAWN BY: G.D.Z.
 CREDIT TO: J.M.F.

HANSON ENGINEERS
 INCORPORATED
 SPRINGFIELD, ILLINOIS

FILE NO.: 75072
 DATE: 2-77

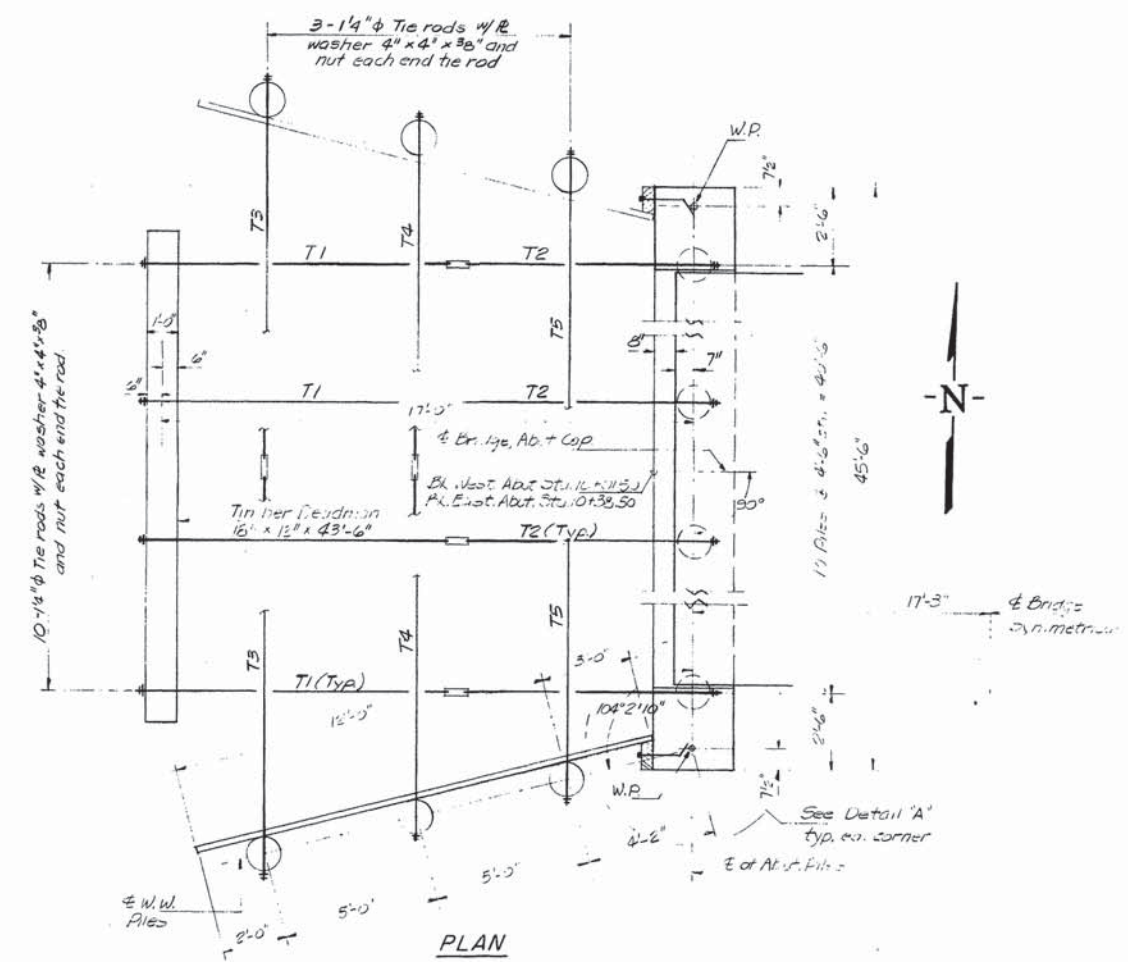
EXISTING STRUCTURE PLANS

SHEET NO. 3	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	30
5 SHEETS	S.N. 050-3614		CONTRACT NO. 87588		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)		

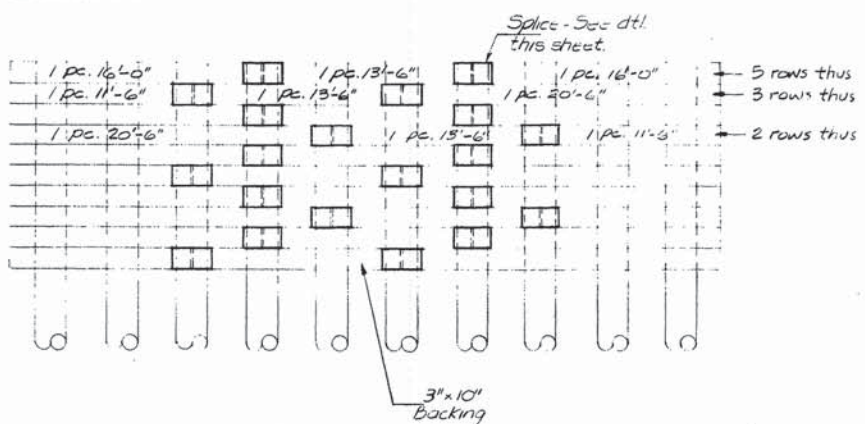


- WING BACKING PLANK (1-WING)**
- 5 pieces - 15'-0"
 - 4 pieces - 10'-0"
 - 5 pieces - 5'-0"

ELEVATION

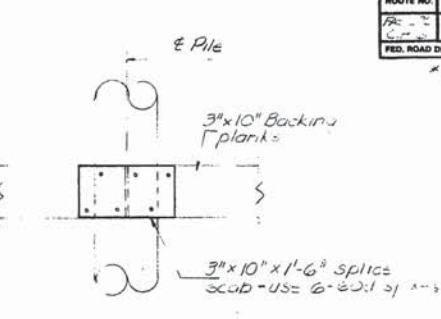


PLAN

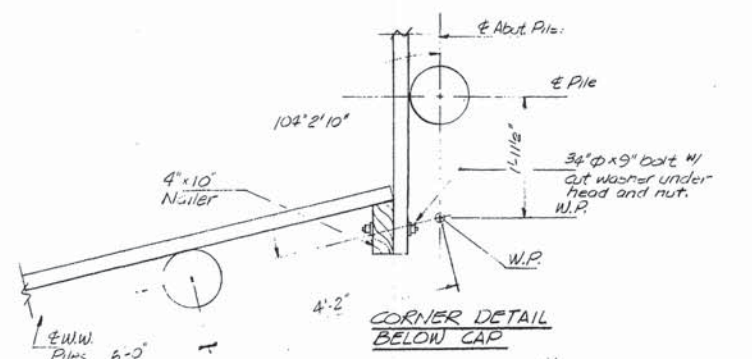


ELEVATION-BACKING PLANK

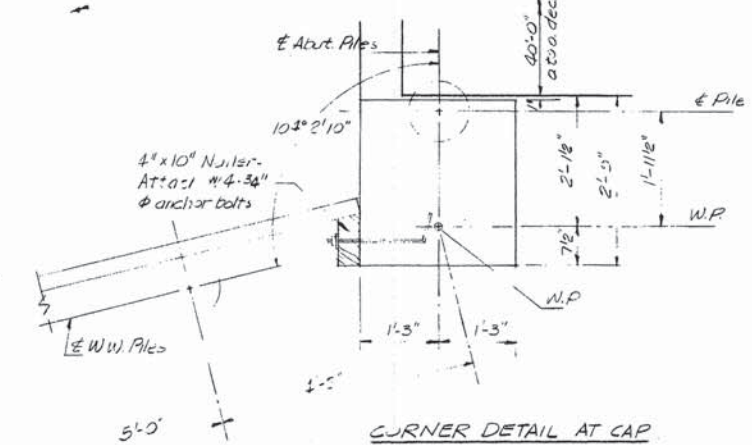
Notes: Backing plank shall be fastened to each pile and nailer with 3-60 d nails.



SPLICE DETAIL

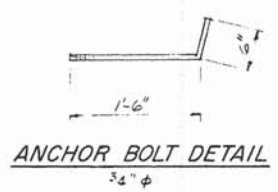


CORNER DETAIL BELOW CAP



CORNER DETAIL AT CAP

DETAIL A



ANCHOR BOLT DETAIL

HARDWARE

ITEM	NO.	SIZE
Plate Washers	52	4" x 3" x 3/8"
Cut Washers	36	3/4" φ
Anchor Bolts w/ nut	16	3/4" φ
Bolts w/ nuts	40	3/4" x 9"
Turnbuckles	20	7/8" x 12"
	6	1/4" x 12"
Spikes	1,464	2.1"
Tie Rods w/ Nuts	T-1	20 1 1/4" x 5'-4"
	T-2	20 1 1/4" x 3'-4"
	T-3	4 1 1/4" x 26'-4"
	T-4	4 1 1/4" x 25'-2"
	T-5	4 1 1/4" x 24'-0"

LUMBER

ITEM	PCS.	LENGTH	SIZE
Abutment Backing	20	16'-0"	3" x 10"
	10	20'-6"	3" x 10"
	10	11'-6"	3" x 10"
	20	13'-6"	3" x 10"
	20	15'-6"	3" x 10"
WING Backing	16	10'-0"	3" x 10"
	20	5'-0"	3" x 10"
	4	12'-0"	4" x 10"
Nailers	4	12'-0"	4" x 10"
Splice Scab	40	1'-6"	3" x 10"
Leadman	2	43'-"	13" x 12"

ABUTMENT & WINGWALL DETAILS
 F.A.S. RTE. 272 - COUNTY HWY. 6
 SECTION 79-00024-00-BR
 LASALLE COUNTY
 STATION 10+20

DESIGNED DNF
 CHECKED WEE
 DRAWN GCP
 CHECKED DNF

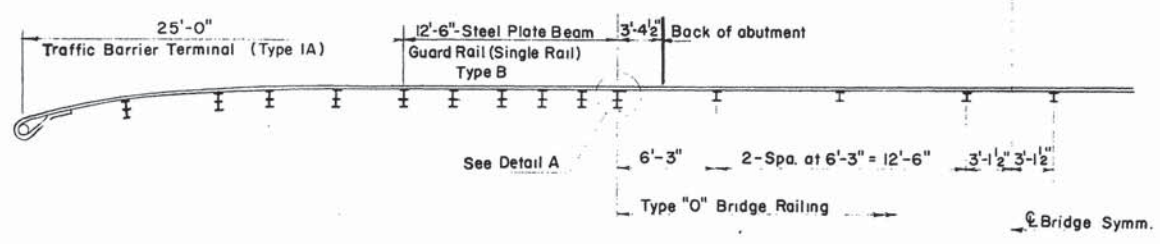
FILE NO. 78092
 DATE 3-7-79

EXISTING STRUCTURE PLANS

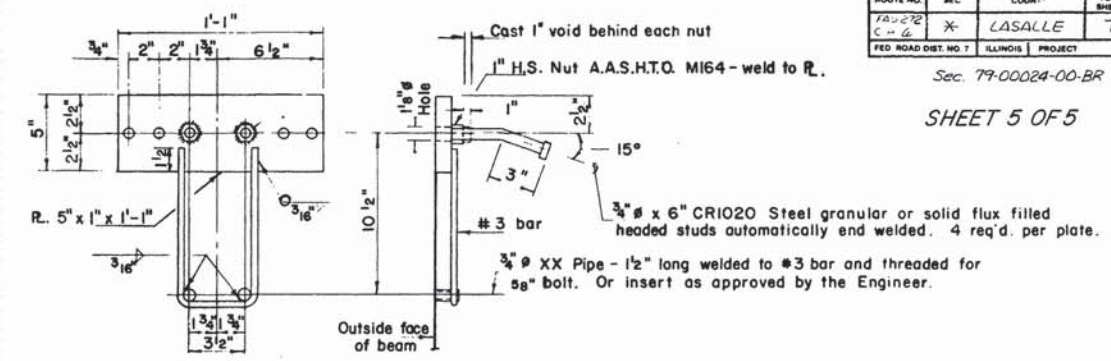
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	272	16-00732-00-BR	LASALLE	44	31
	S.N. 050-3614		CONTRACT NO. 87588		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0272(112)			

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
272	6	LASALLE	7	7
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT			Sec. 79-0024-00-BR	

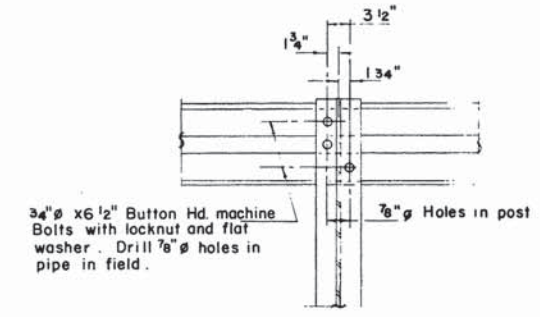
SHEET 5 OF 5



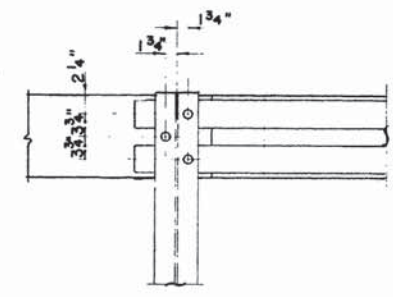
TYPICAL APPROACH GUARD RAIL & BRIDGE RAIL LAYOUT
See Std. 2230-11 & 2336



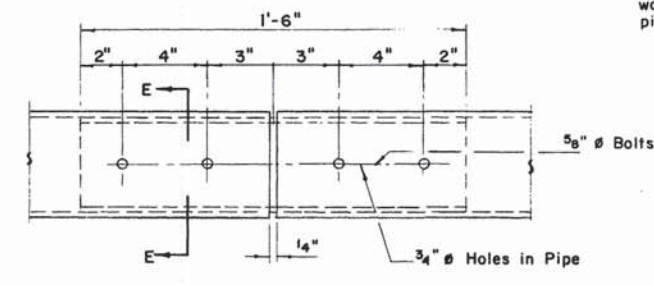
ANCHOR DEVICE



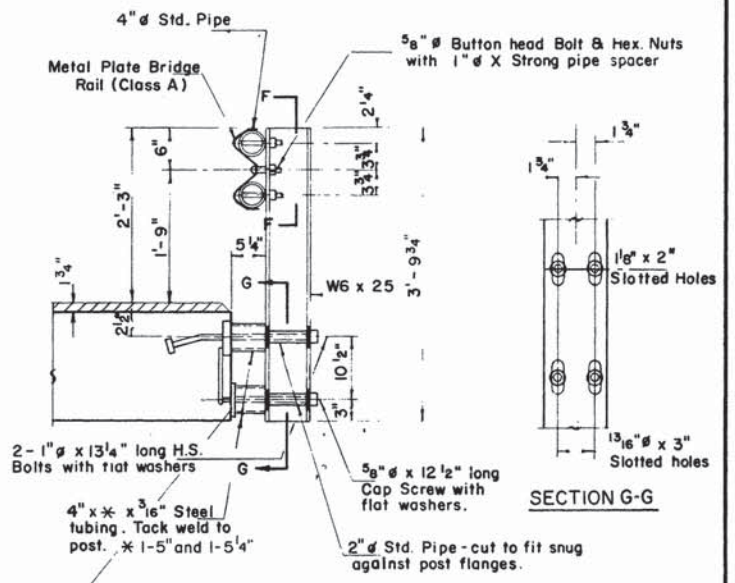
SECTION F-F



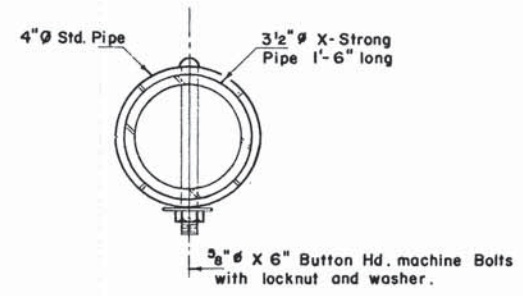
DETAIL A



TOP VIEW AT RAIL SPLICE



TYPICAL SECTION AT RAIL POST



SECTION AT RAIL SPLICE E-E

GENERAL NOTES

- Steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M-183 except as noted. Posts shall conform to A.A.S.H.T.O. M-223.
- Bolts, cap screws, and nuts shall conform to the requirements of A.S.T.M. designation A-307 except for high strength bolts, nuts, and washers noted shall conform to A.A.S.H.T.O. M-164
- All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232
- All posts, railing, rail splices, anchor devices and angles shall be galvanized in accordance with A.A.S.H.T.O. M-111 and A.S.T.M. A-385 after shop fabrication. Galvanized rail shall not be painted.
- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- The lower portion of the post flange or spacer in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/8" fabric bearing pad between the post and concrete.
- Steel railing shall be in accordance with Section 508 of the Std. Spec. except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE O.
- Steel tubing for rails shall conform to A.S.T.M. A-500 Grade B.
- The 1" high strength bolts connecting the post to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.

RAILING DETAIL
F.A.S. RTE. 272 - COUNTY HWY 6
SECTION 79-0024-00-BR
LASALLE COUNTY
STATION 10+20

PREPARED BY DNF
CHECKED BY PEB
DATE 3-7-79

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

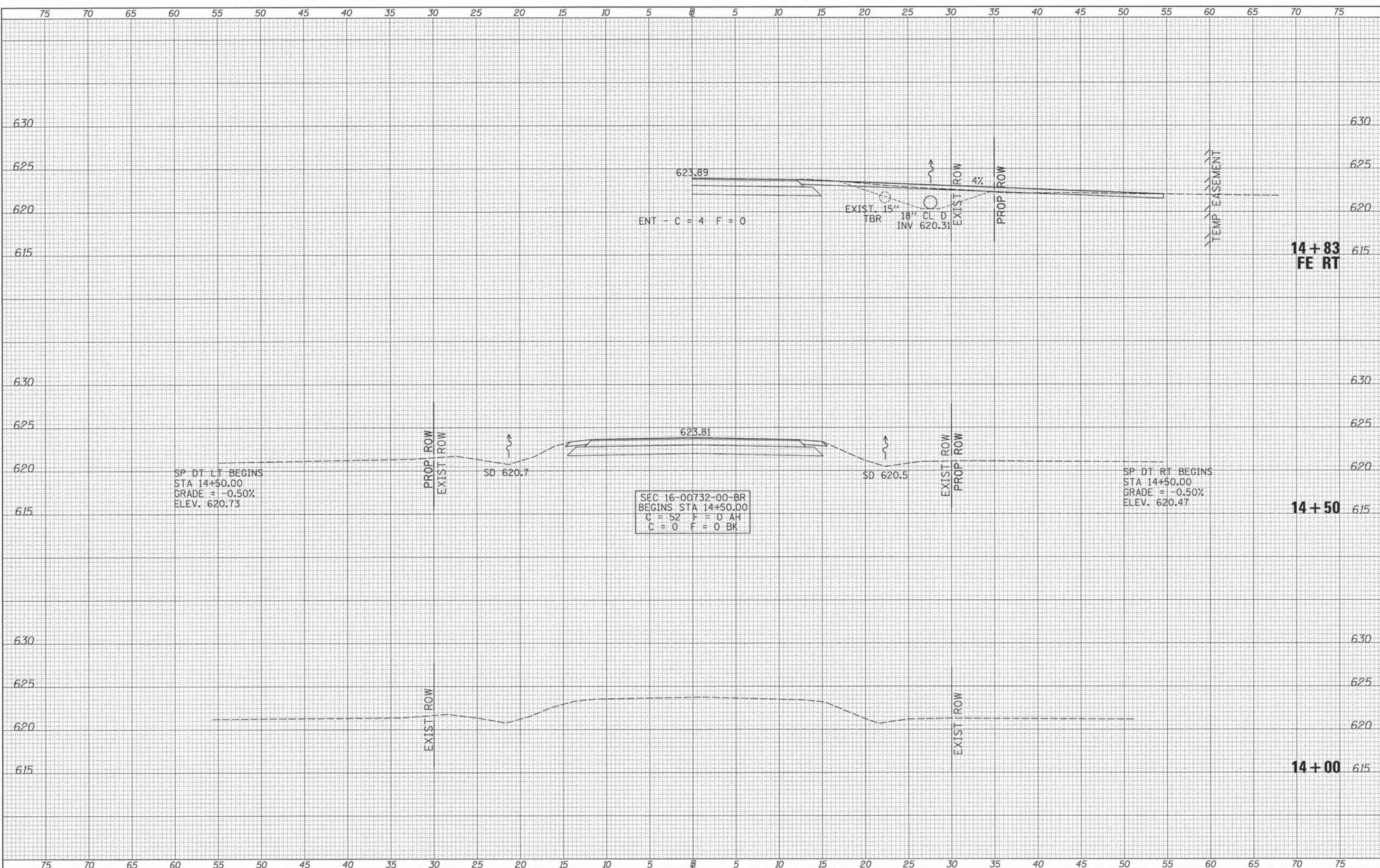
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DATE 3-7-79

EXISTING STRUCTURE PLANS

SHEET NO. 5 5 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	272	16-00732-00-BR	LASALLE	44	32
	S.N. 050-3614		CONTRACT NO. 87588		
	FED. ROAD DIST. NO. 7 ILLINOIS	FED. AID PROJECT BRS-0272(112)			

DATE	
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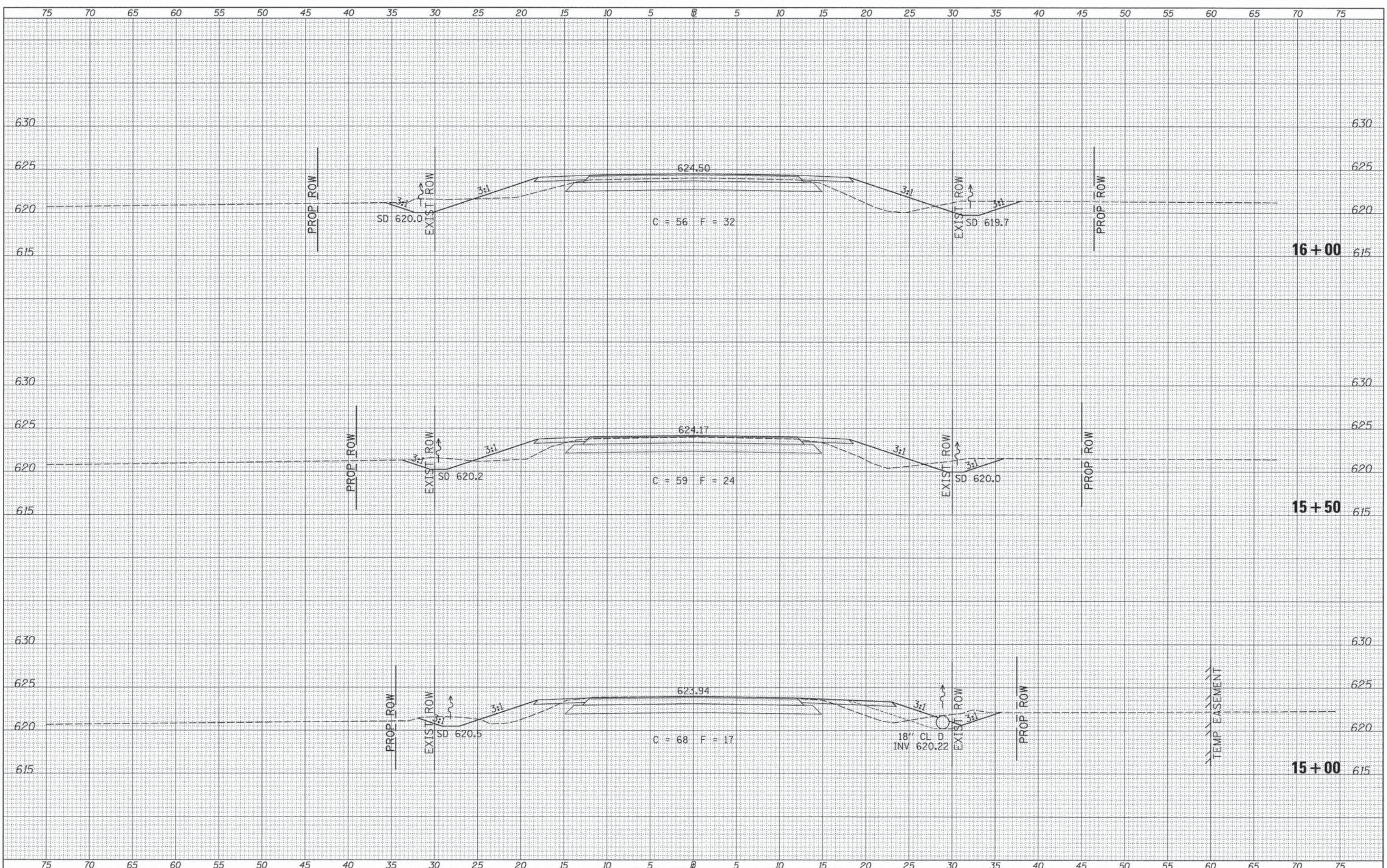
**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVELL CREEK TRIBUTARY**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 1 OF 12 SHEETS
 STA. 14+00 TO STA. 14+83

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	33
CONTRACT NO. 87588			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BR5-0272(12)				

DATE	
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FINAL SURVEY	
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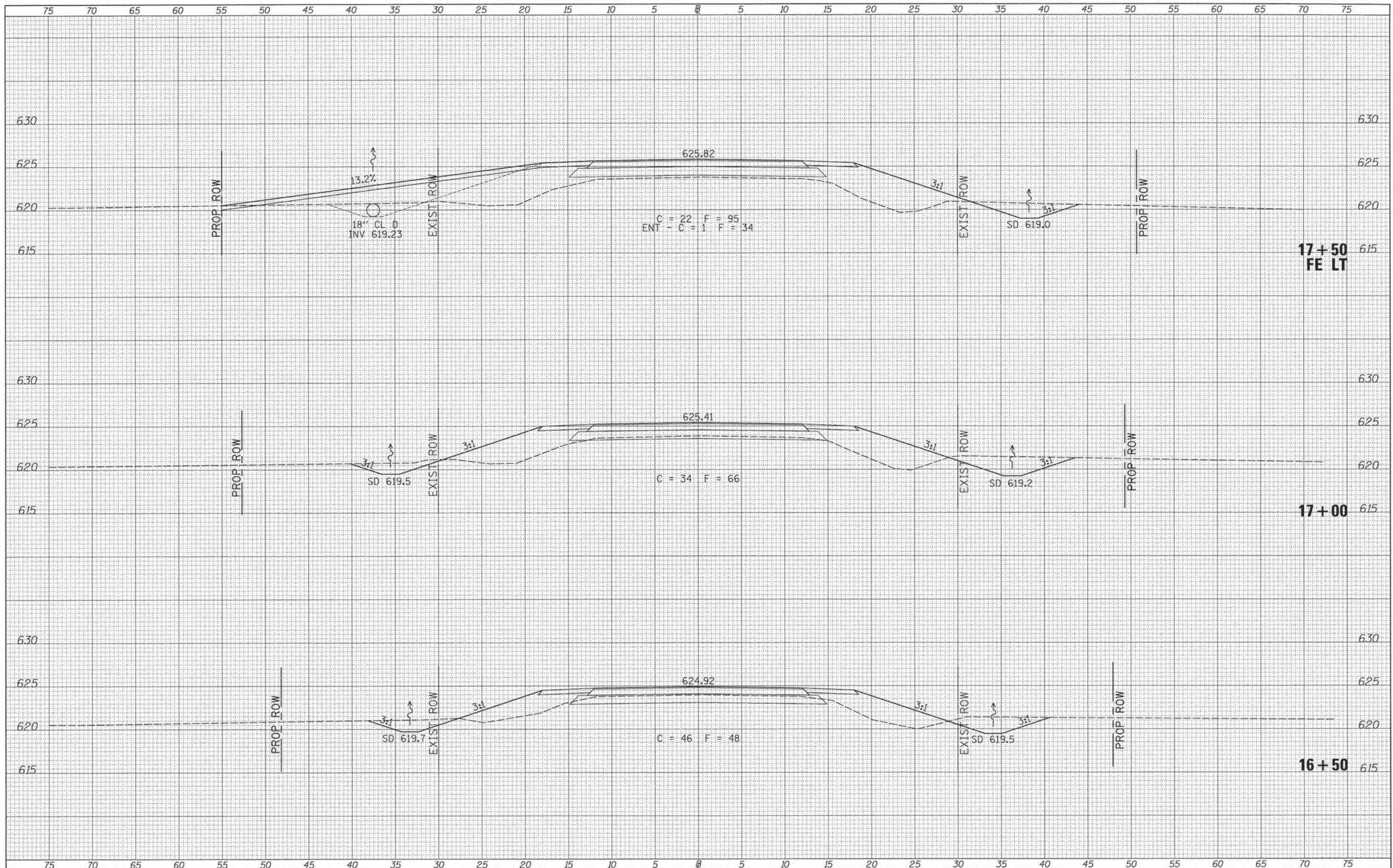
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**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVELL CREEK TRIBUTARY**

SCALE: 1"=5' SHEET 2 OF 12 SHEETS STA. 15+00 TO STA. 16+00

CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	34
CONTRACT NO. 87588			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BR5-0272(112)				



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BY	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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ORIGINAL SURVEY	
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NOTE BOOK	
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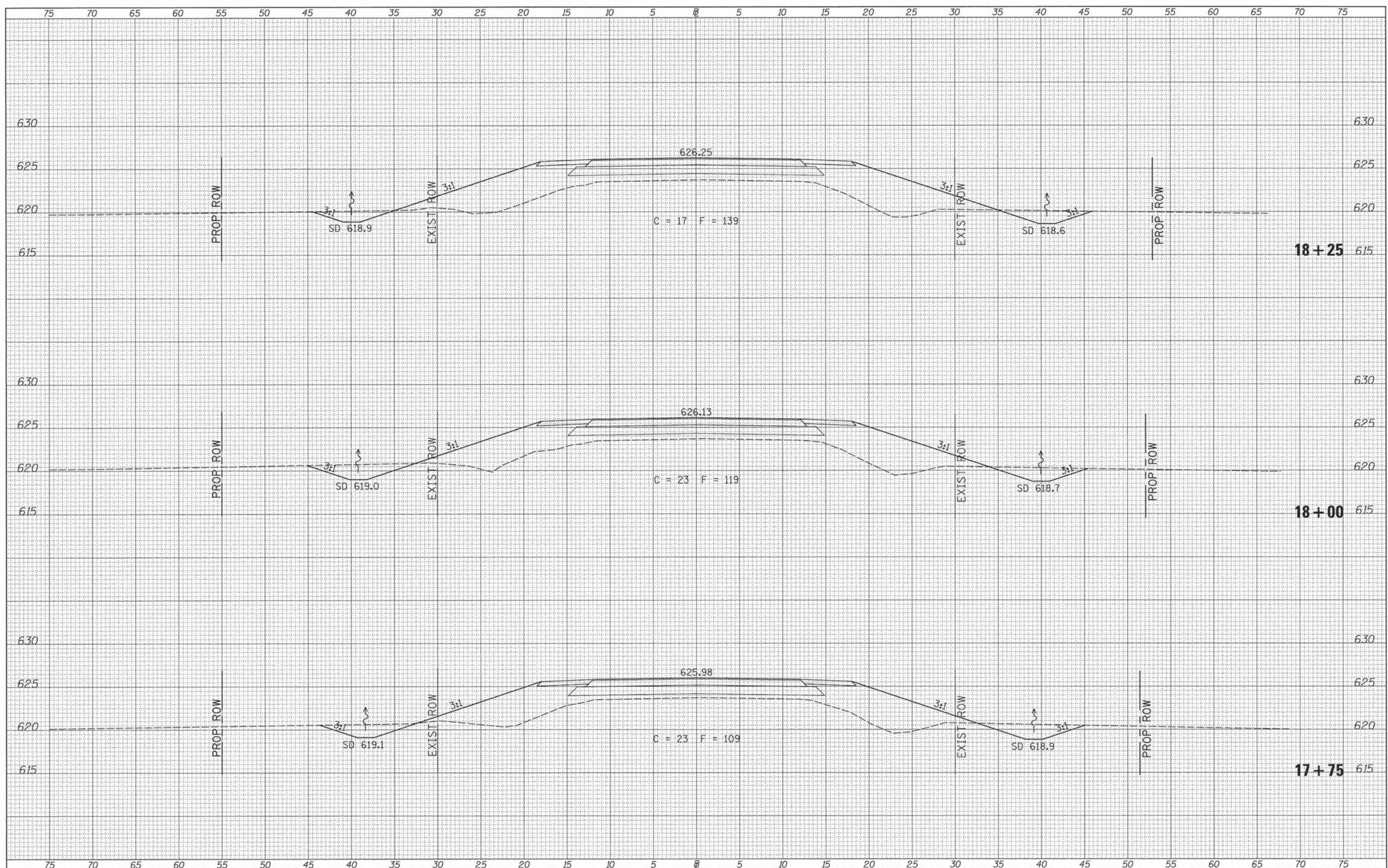
**LASALLE COUNTY
COUNTY HIGHWAY 6 OVER
COVELL CREEK TRIBUTARY**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET 3	OF 12 SHEETS	STA. 16+50 TO STA. 17+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	35
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87588	
FED. AID PROJECT BRS-0272(112)				

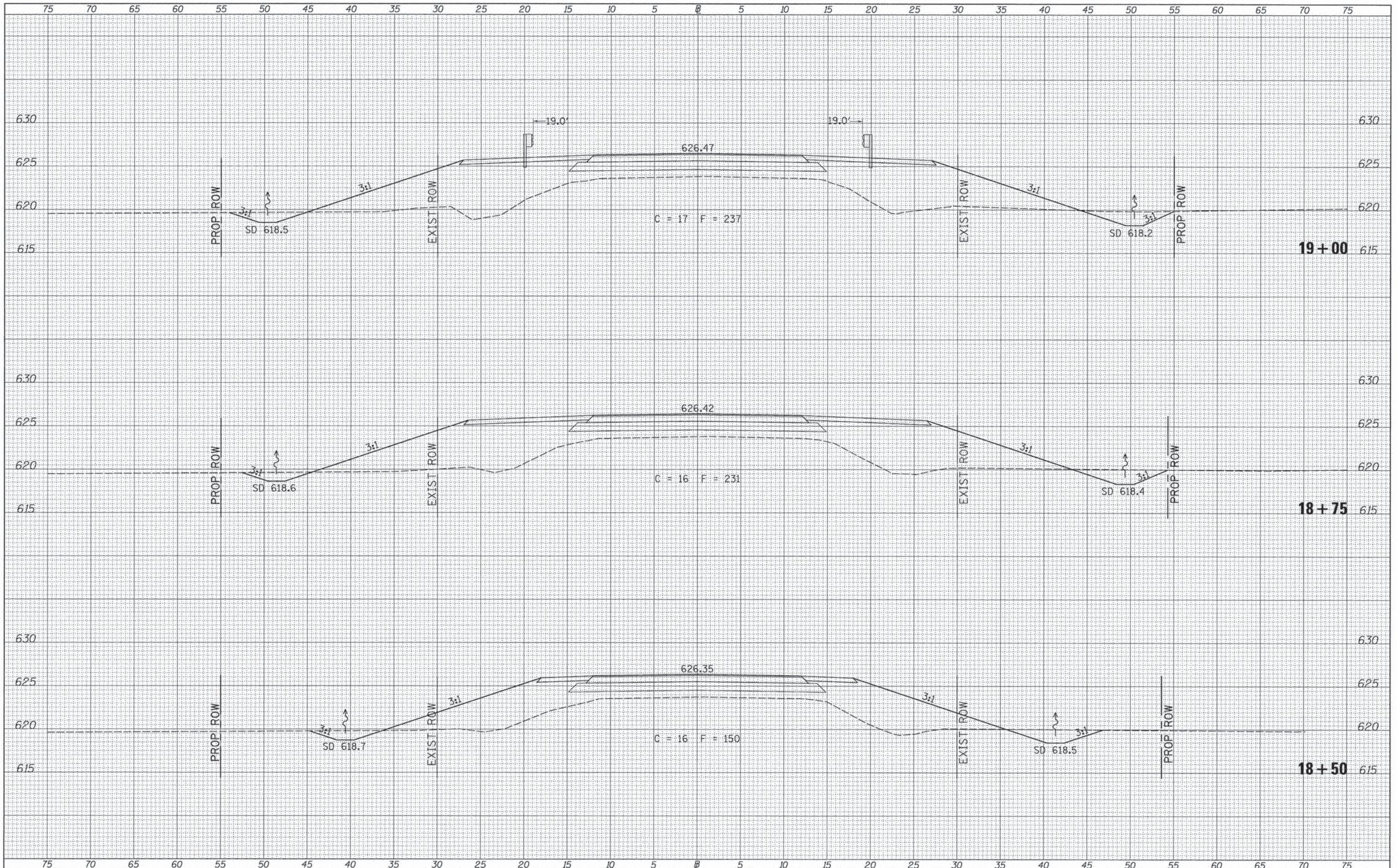
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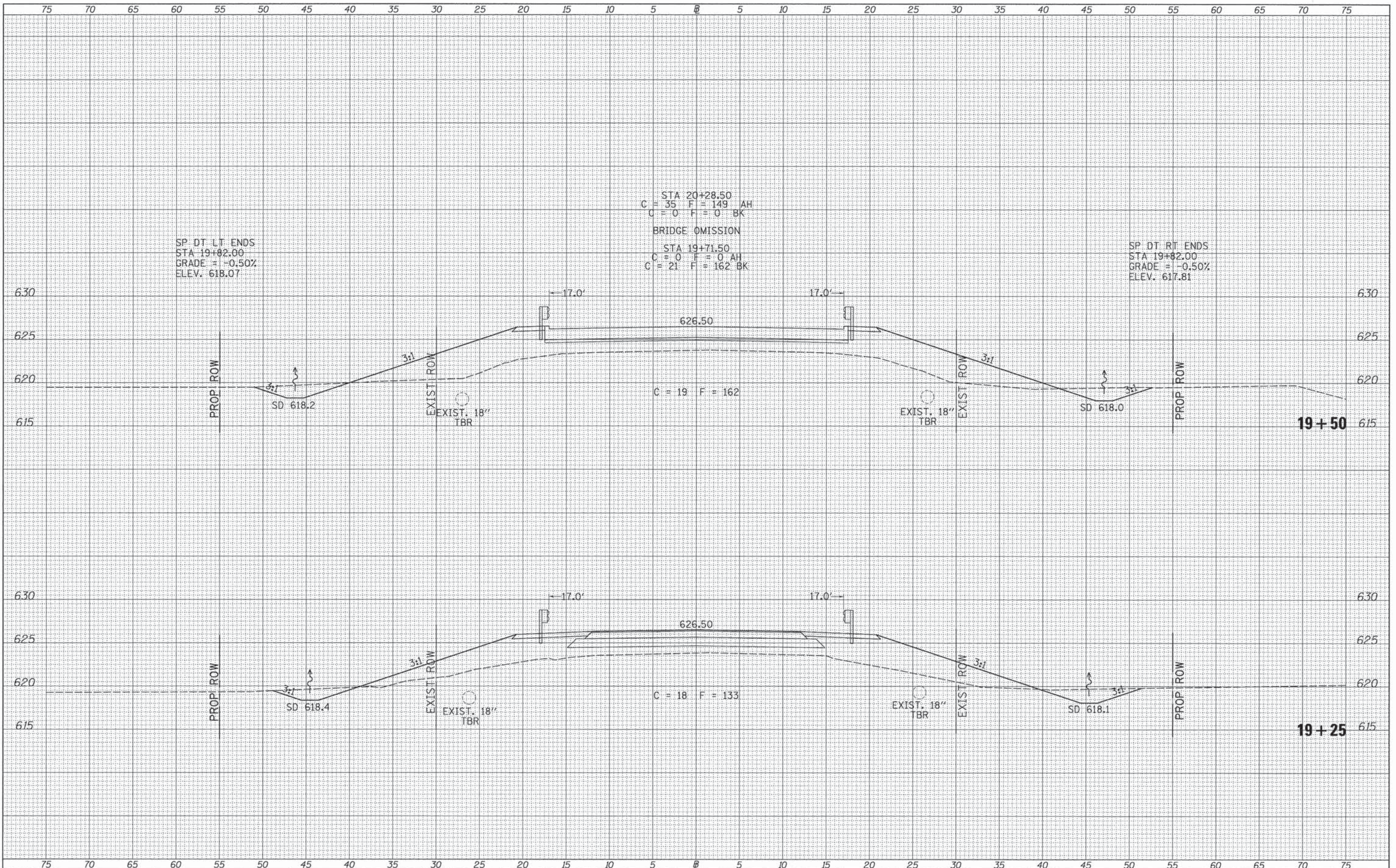
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NOTE BOOK	
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	PLOT DATE = 1/5/2015	DATE -	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS							
					FED. AID PROJECT BR5-0272(1)21							

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



SP DT LT ENDS
 STA 19+02.00
 GRADE = -0.50%
 ELEV. 618.07

STA 20+28.50
 C = 35 F = 149 AH
 C = 0 F = 0 BK
 BRIDGE OMISSION
 STA 19+71.50
 C = 0 F = 0 AH
 C = 21 F = 162 BK

SP DT RT ENDS
 STA 19+82.00
 GRADE = -0.50%
 ELEV. 617.81

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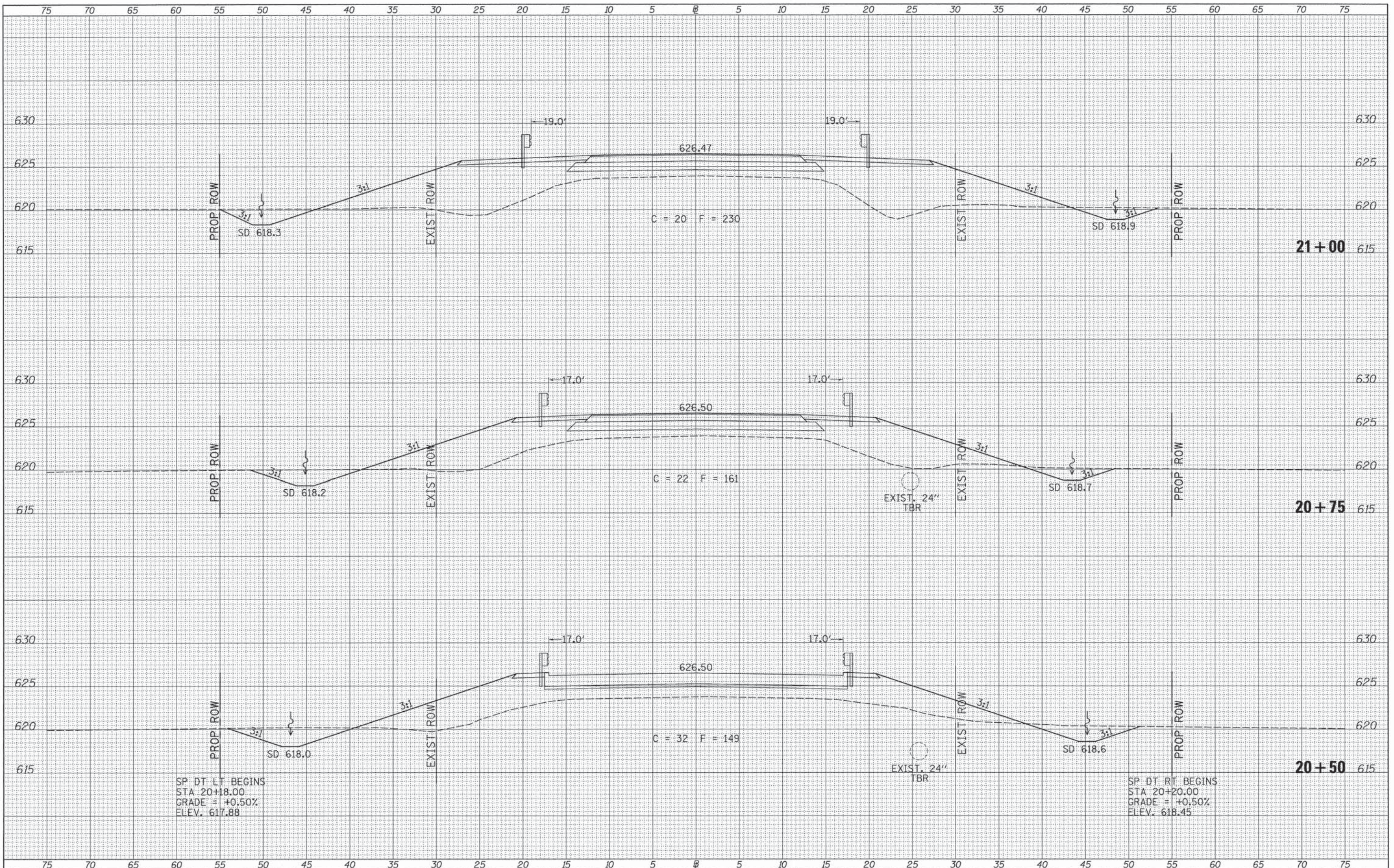
**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVEL CREEK TRIBUTARY**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 6 OF 12 SHEETS
 STA. 19+25 TO STA. 19+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	38
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-02721121	

DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



SP DT LT BEGINS
 STA 20+18.00
 GRADE = +0.50%
 ELEV. 617.88

SP DT RT BEGINS
 STA 20+20.00
 GRADE = +0.50%
 ELEV. 618.45

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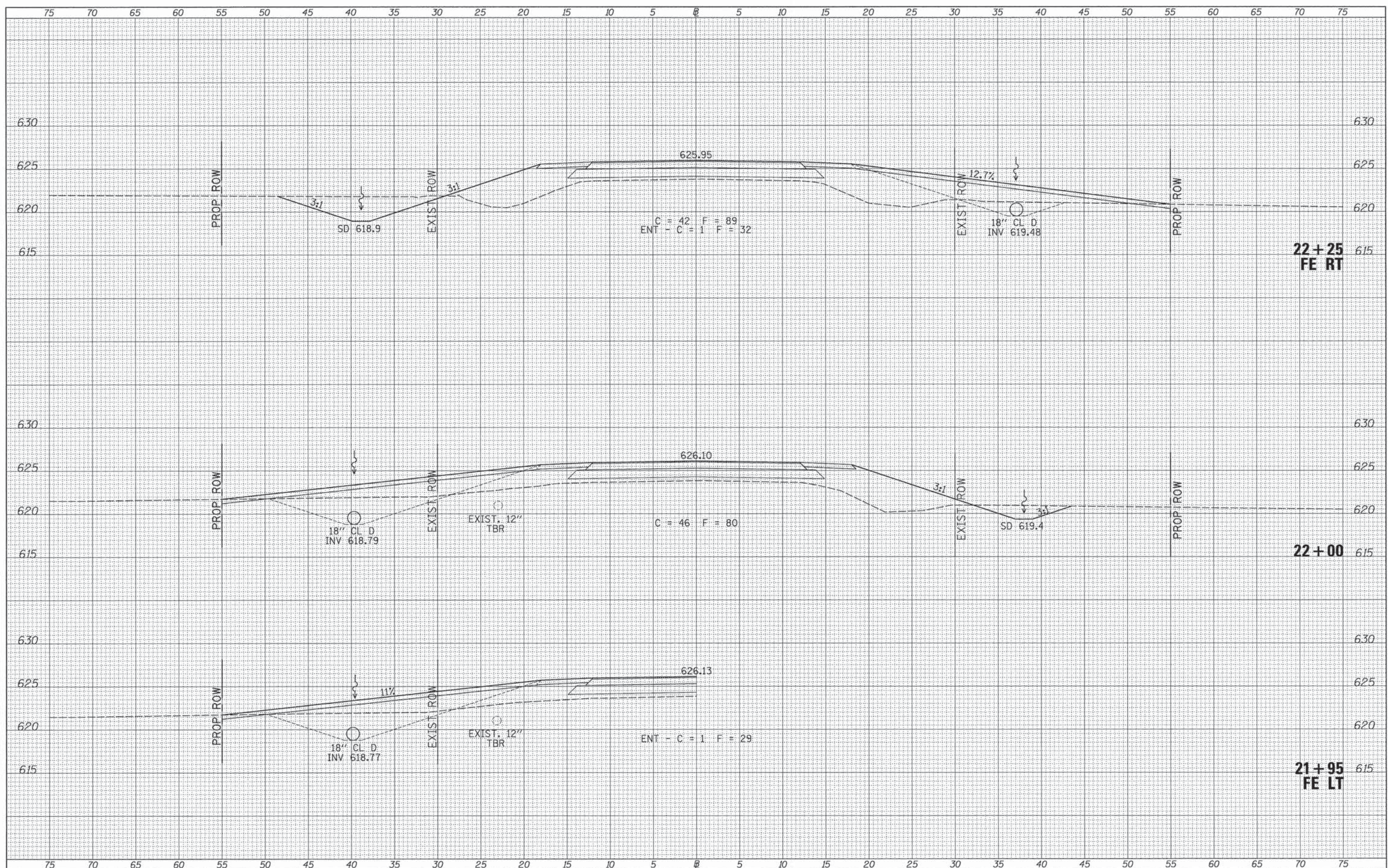
**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVEL CREEK TRIBUTARY**

CROSS SECTIONS	
SCALE: 1"=5'	SHEET 7 OF 12 SHEETS
STA. 20+50	TO STA. 21+00

F.A.S. R.T.E. 272	SECTION 16-00732-00-BR	COUNTY LASALLE	TOTAL SHEETS 44	SHEET NO. 39
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-0272(112)		

DATE	
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FINAL SURVEYED	
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NOTE BOOK	
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DATE	
BY	
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NOTE BOOK	
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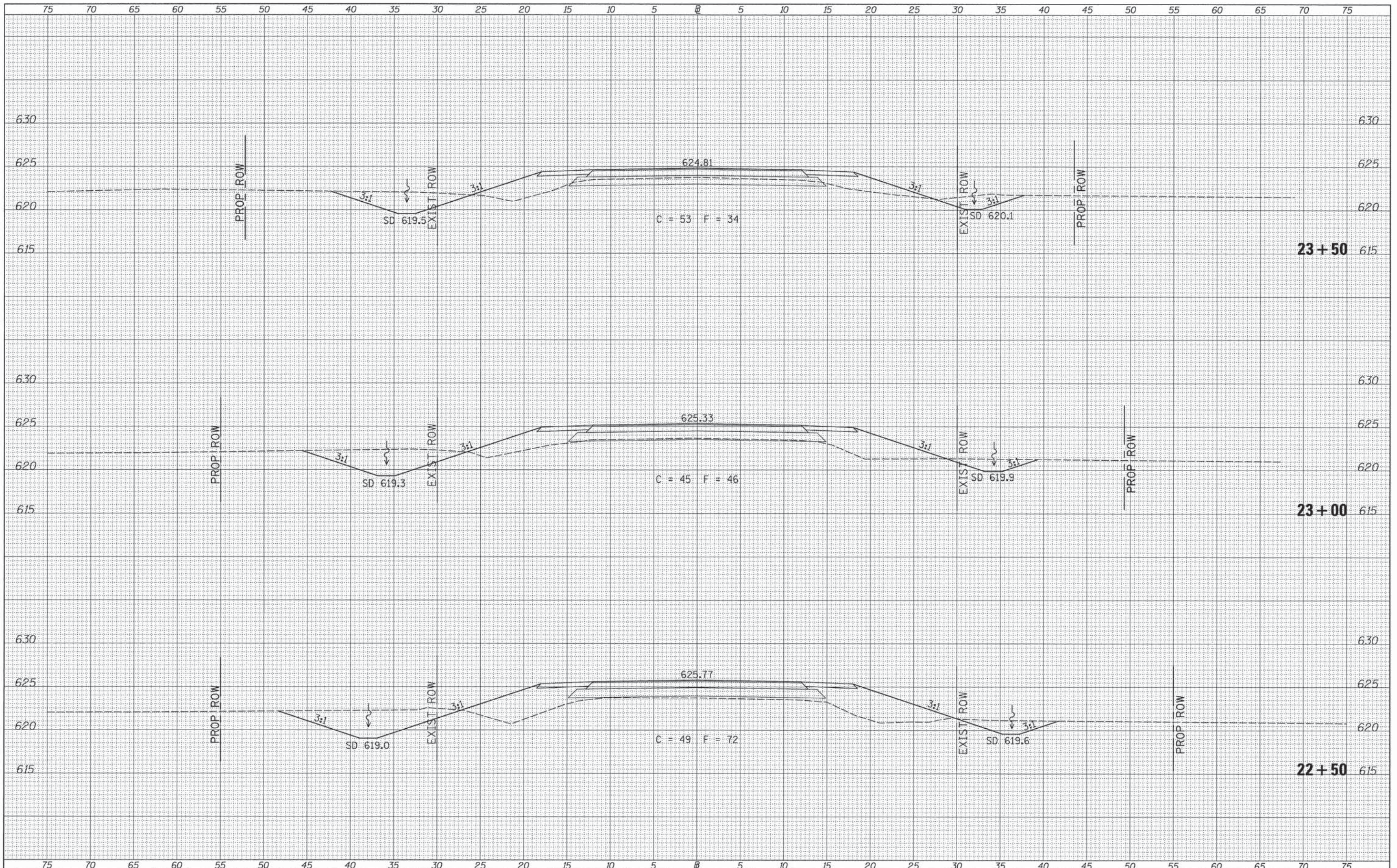
**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVEL CREEK TRIBUTARY**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 9 OF 12 SHEETS
 STA. 21+95 TO STA. 22+25

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	41
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BR5-0272(112)	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
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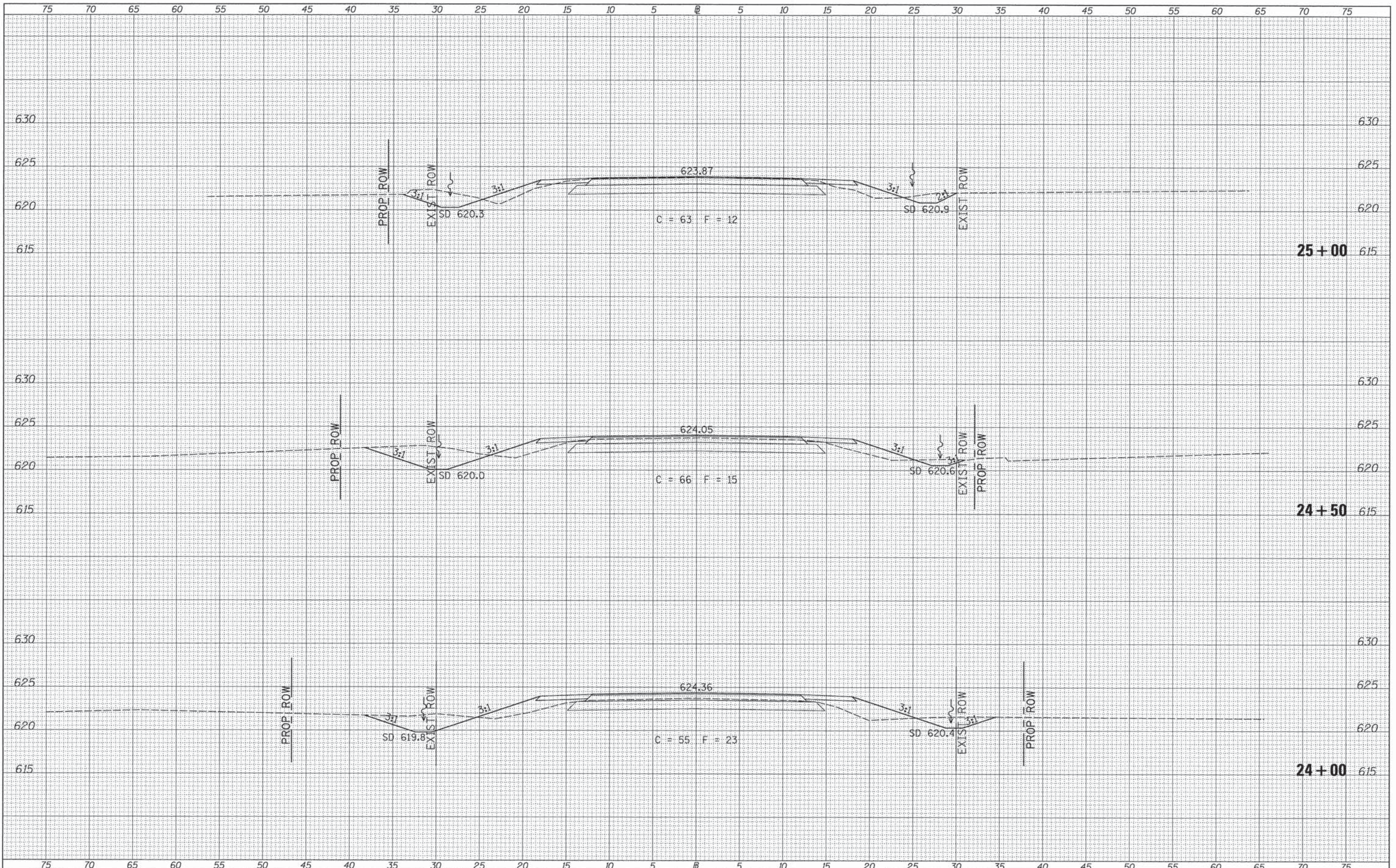
**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVEL CREEK TRIBUTARY**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 10 OF 12 SHEETS
 STA. 22+50 TO STA. 23+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	42
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0272(112)	

BY	DATE
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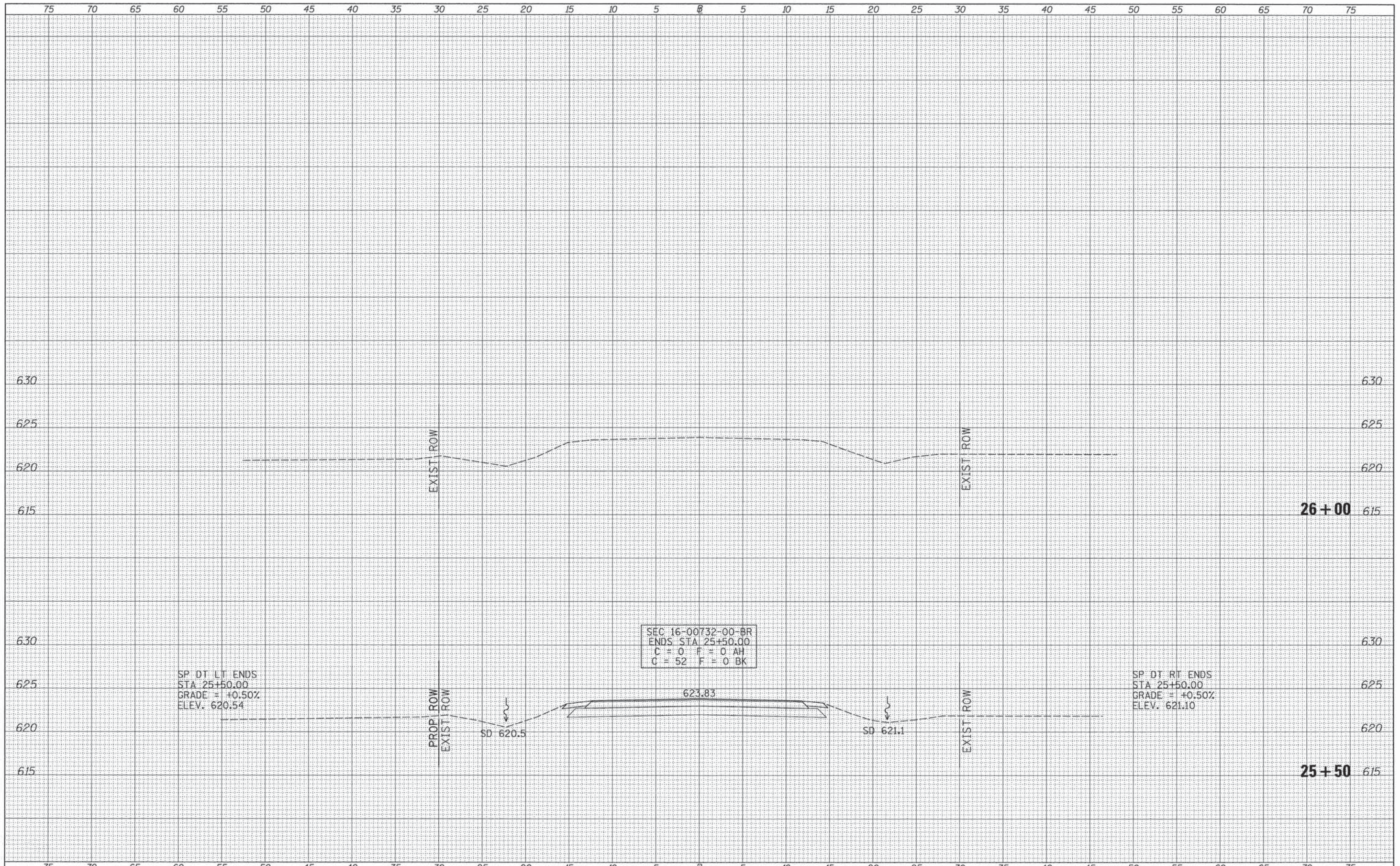
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Default	PLOT DATE = 1/5/2015	DATE -	REVISED -								

DATE	
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FINAL SURVEY	
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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**LASALLE COUNTY
 COUNTY HIGHWAY 6 OVER
 COVEL CREEK TRIBUTARY**

SCALE: 1"=5' SHEET 12 OF 12 SHEETS STA. 25+50 TO STA. 26+00

CROSS SECTIONS

F.A.S. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
272	16-00732-00-BR	LASALLE	44	44
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87588	
FED. AID PROJECT BRS-0272(112)				