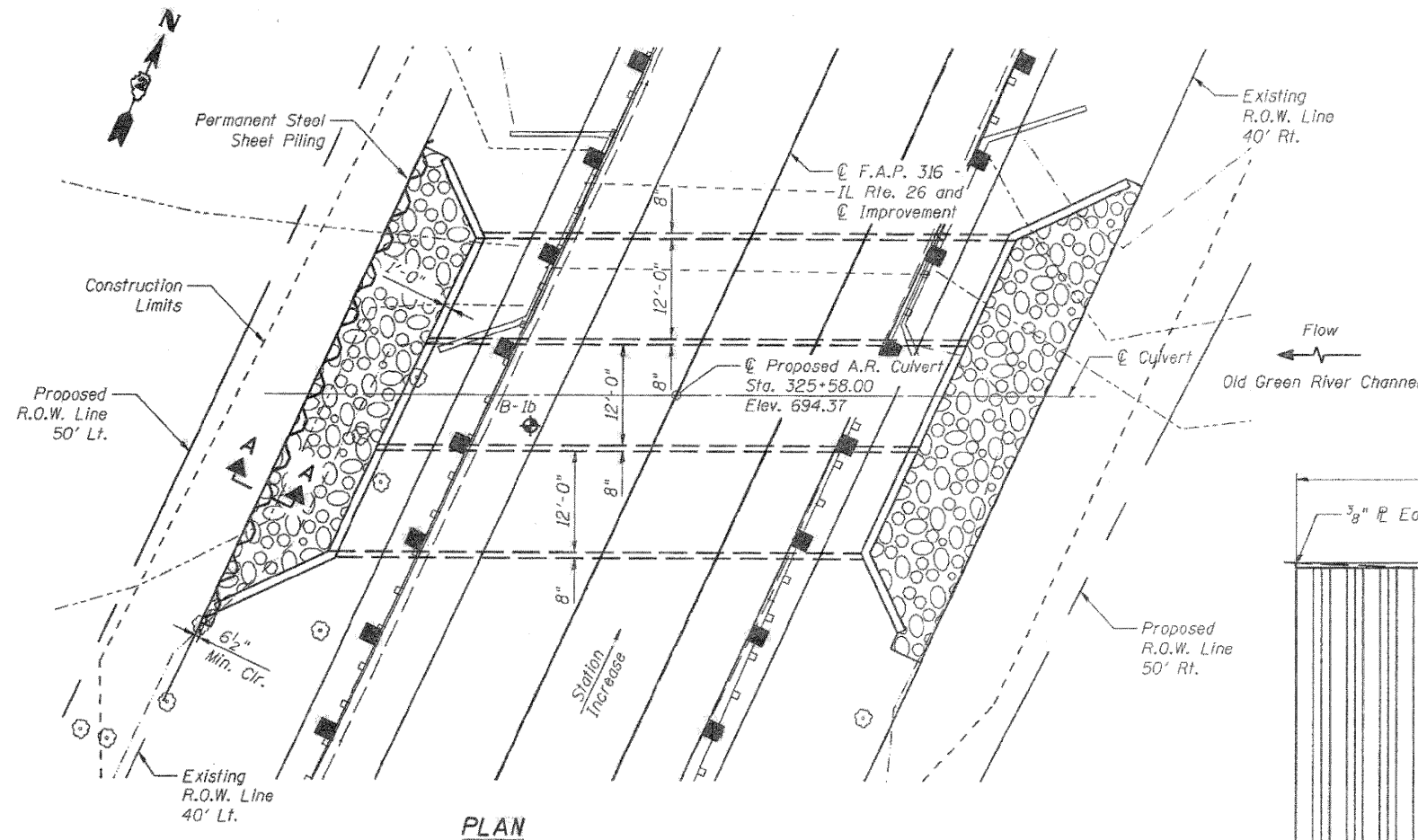


**GENERAL NOTES**

1. The sheet piling shall conform to the special provision Permanent Steel Sheet Piling.
2. The minimum effective section modulus for the Permanent Steel Sheet Piling shall be 10.4 cubic in./ft.
3. The fabricated steel cap shall be AASHTO M270 Grade 50W. The cap shall not be paid for separately, but shall be included in the cost for Permanent Steel Sheet Piling.
4. Fasteners shall be AASHTO M164 Type 3.
5. Hard driving may be encountered during the sheet piling installation. The Contractor shall select a sheet pile shape to satisfy the section requirements and provide appropriate driving equipment for the soil conditions indicated on the boring log.

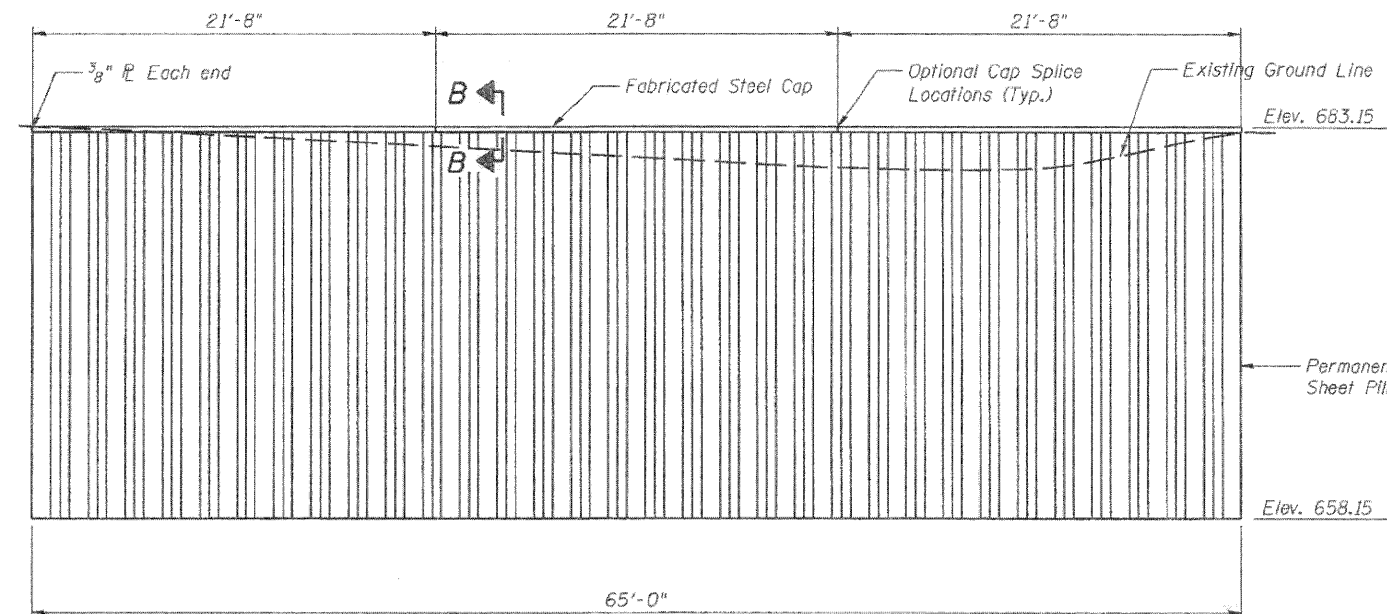
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Permanent Steel Sheet Piling	Sq. Ft.	1625

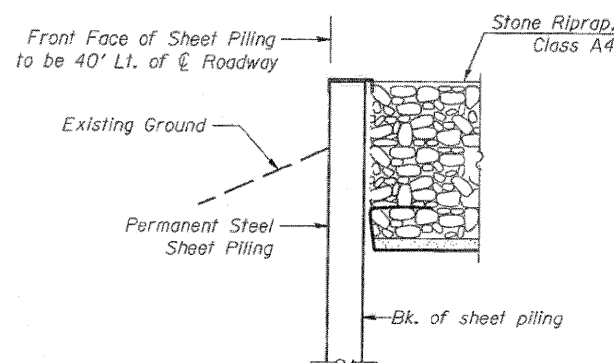


**PLAN**

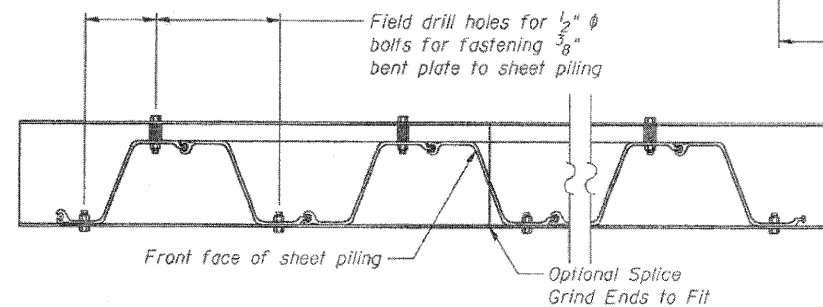
\*Included in the cost of Permanent Steel Sheet Piling.



**PERMANENT SHEET PILING REAR ELEVATION**

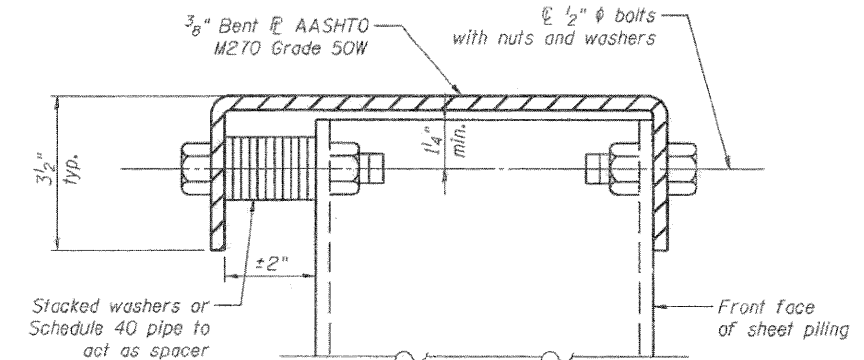


**SECTION A-A**



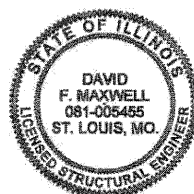
**PERMANENT SHEET PILING PLAN**

Showing connection of Fabricated Steel Cap to Permanent Steel Sheet Piling



**SECTION B-B**

Fabricated Steel Cap



David F. Maxwell, S.E. Reg. No. 081-005455

Date: 8/1/11  
My registration expires November 30, 2012.

FILE NAME =	USER NAME =	DESIGNED - CTH	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PERMANENT SHEET PILING DETAILS STRUCTURE NO. 052-2031</b>	F.A.P. RTE. 316	SECTION 102-BR7	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 101
PLOT SCALE =	DRAWN - EBS	CHECKED - KJB	REVISD -			CONTRACT NO. 64057				
PLOT DATE =	CHECKED - CTH	DRAWN - EBS	REVISD -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SHEET NO. 9 OF 9 SHEETS				

Bench Mark: Survey Point 401 - NE Headwall of SN 052-0025, 22.36' Lt, Sta. 420+76.12, Elev. 699.42.

Existing Structure: S.N. 052-0025 was built in 1929 as S.B.I. 89, Section 102B. In 1975 under S.B.I. 89, Section 102-BR, the bridge was widened and superstructure replaced. In 1990 under FA 38, Section 102BR-1 L(89), the bituminous wearing surface was replaced with concrete overlay. In 2007, under Section 102BRM, five of the damaged PPC Deck Beams were supported with steel I beams. Existing structure is a single span PPC Deck Beam bridge on reinforced concrete closed abutments founded on untreated timber piles, measuring 43'-0" bk. to bk. abutments, 42'-0" out to out with zero skew angle. The contractor shall remove and replace the existing structure. Staged Construction shall be utilized to maintain one lane of traffic during construction.

Existing Support Beams and Beam Supports to be salvaged as indicated on Sheet 3 of 32.

**DESIGN STRESSES**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50W)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.089g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.149g  
 Soil Site Class = D

**LOADING HL-93**

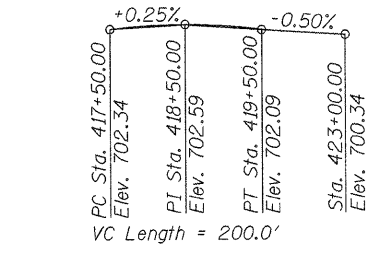
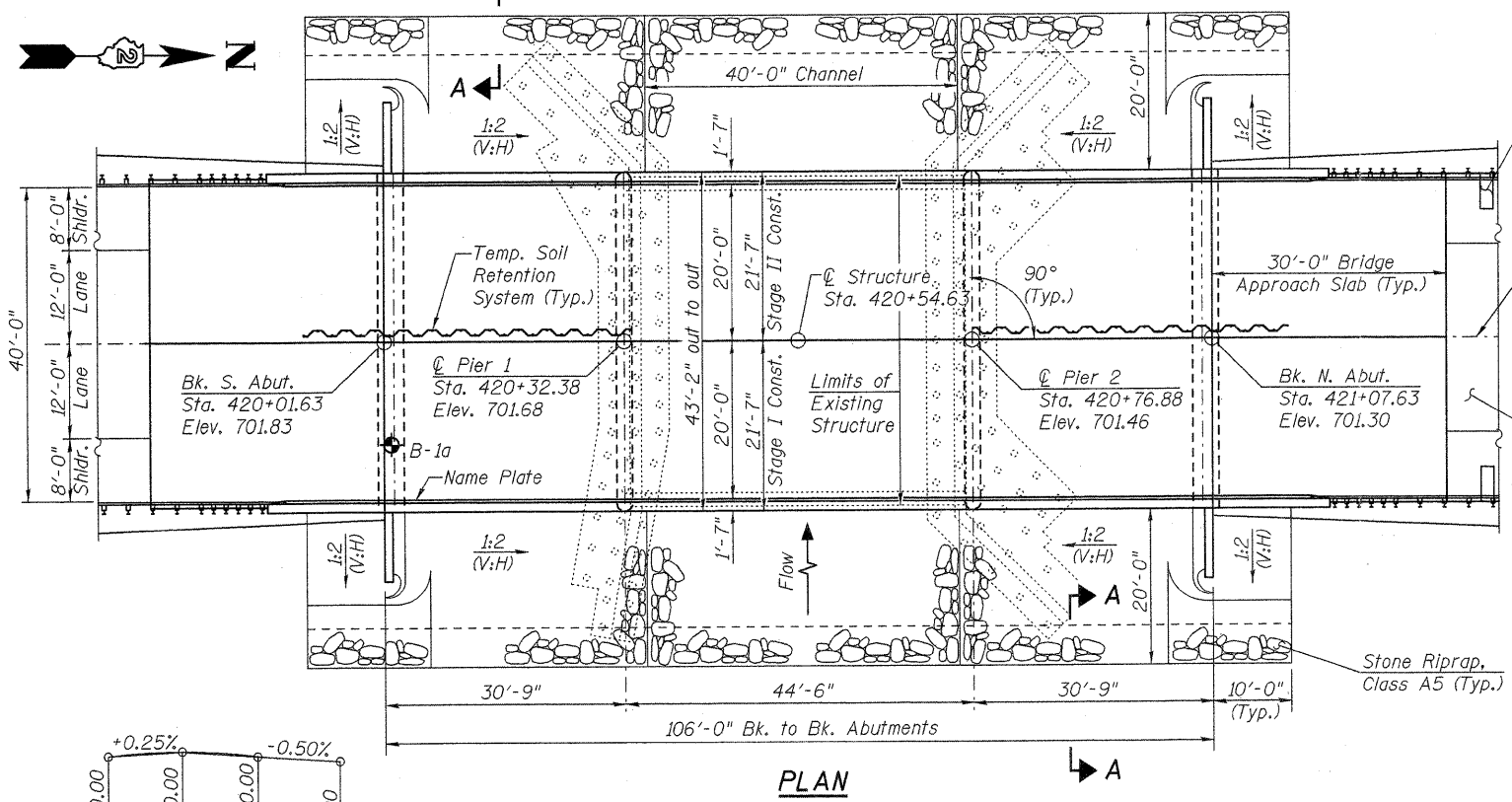
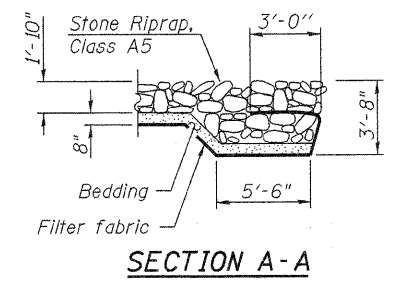
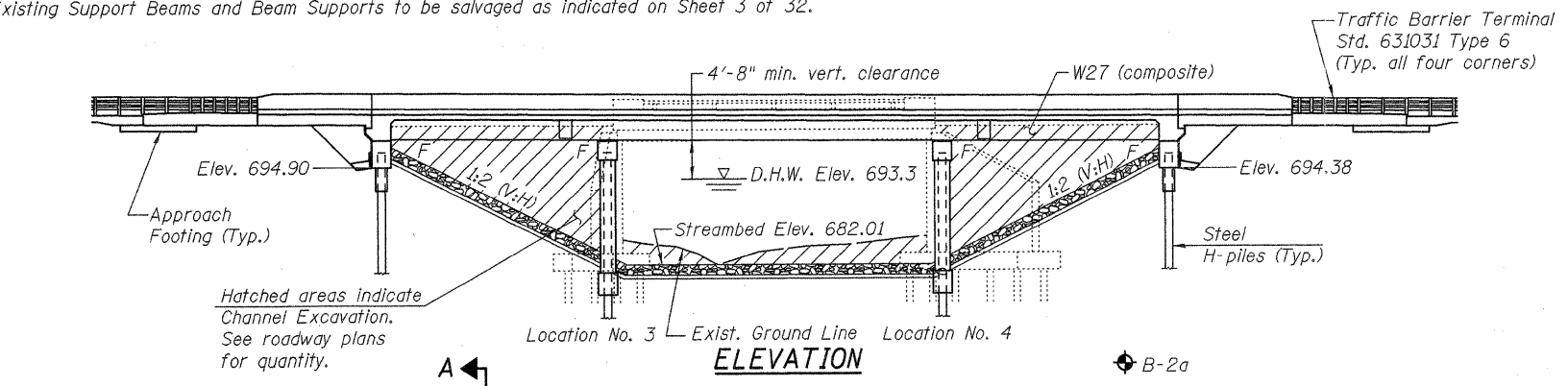
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

**INDEX OF SHEETS**

1. General Plan & Elevation
2. General Data
- 3.-4. Stage Construction Details
- 5.-8. Top of Slab Elevations
- 9.-10. Top of Bridge Approach Slab Elevations
11. Superstructure
- 12.-13. Diaphragm Details
14. Superstructure Details
- 15.-18. Bridge Approach Slab Details
19. Structural Steel
20. Structural Steel Details
21. Bearing Details
- 22.-23. Abutments
- 24.-25. Piers
26. Pile Location Plan at Piers
27. HP Pile Details
28. Bar Splicer Assembly and Mechanical Splicer Details
29. Temporary Concrete Barrier for Stage Construction
30. Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller
- 31.-32. Soil Boring Logs



**WATERWAY INFORMATION**

Existing Low Grade Elev. 699.85 @ Sta. 481+68  
 Drainage Area = 16.95 sq. mi. Proposed Low Grade Elev. 701.62 @ Sta. 489+50

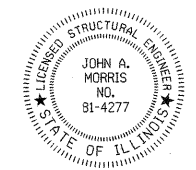
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1050	312	553	691.7	0.3	0.0	692.0	691.7
Base	50	1550	376	683	693.3	0.3	0.0	693.6	693.3
Overtopping	100	1750	400	735	693.9	0.3	0.0	694.2	693.9
Max. Calc.	500	2230	448	842	695.1	0.3	0.0	695.4	695.1

**DESIGN SCOUR ELEVATION TABLE**

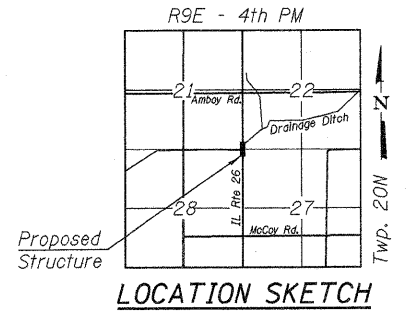
Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	694.9	672.6	672.6	694.4

10 Yr. Velocity thru Exist. Bridge=3.23 fps 10 Yr. Velocity thru Prop. Bridge=1.88 fps

**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY  
*John A. Morris*  
 ENGINEER OF BRIDGES AND STRUCTURES



*John A. Morris* 8-17-11  
 John A. Morris  
 Licensed Structural Engineer  
 State of Illinois No. 81-4277  
 Expires 11-30-2012



**GENERAL PLAN & ELEVATION**  
**IL RTE 26 OVER DRAINAGE DITCH**  
**FAP RTE 316 - SECTION 102BR-5**  
**LEE COUNTY**  
**STATION 420+54.63**  
**STRUCTURE NO. 052-0080**



FILE NAME = 052008-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 052-0080**  
 SHEET NO. 1 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	102
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{11}{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 64,920 Pounds

All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

No field welding is permitted except as specified in the contract documents.

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

Reinforcement bars designated (E) shall be epoxy coated.

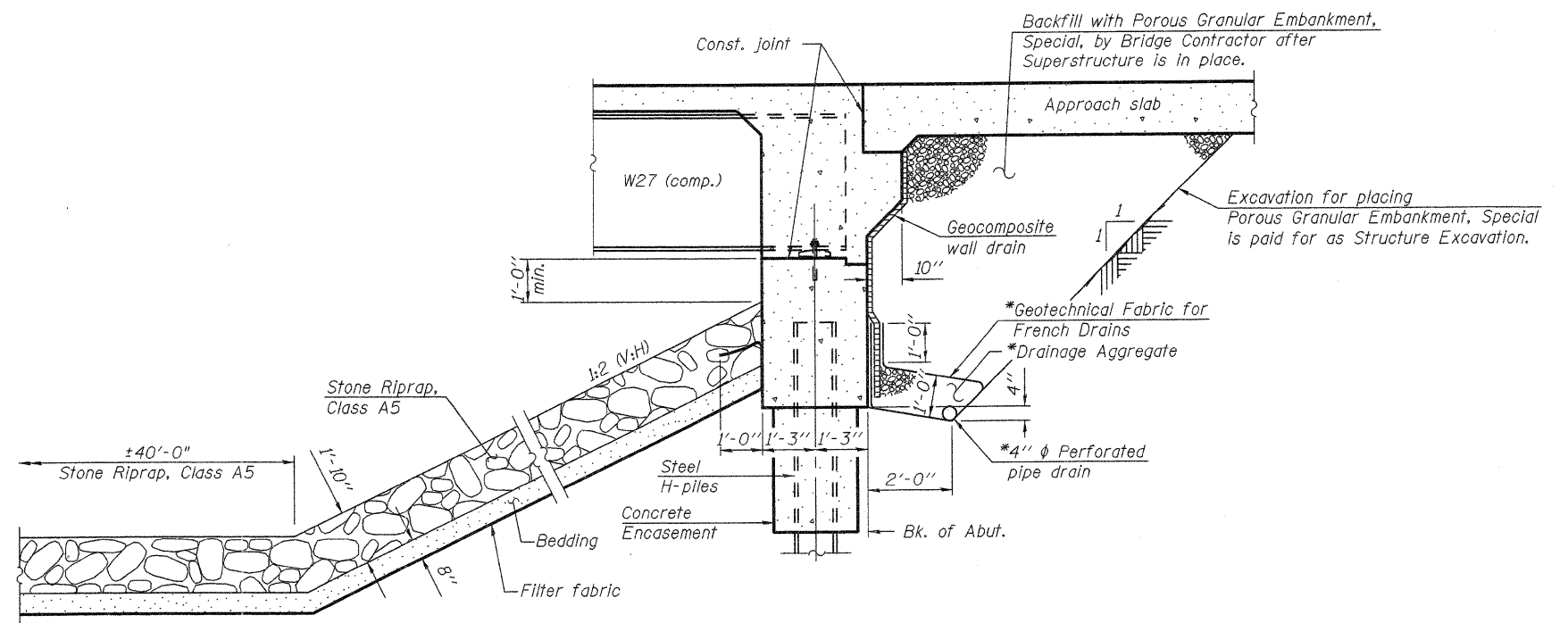
If the Contractor elects to use cantilever forming brackets on the exterior beams, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

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

Slipforming of the parapets is not allowed.



**SECTION THRU INTEGRAL ABUTMENT & RIPRAP DETAIL**

\*Included in the cost of Pipe Underdrains for Structures.

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).

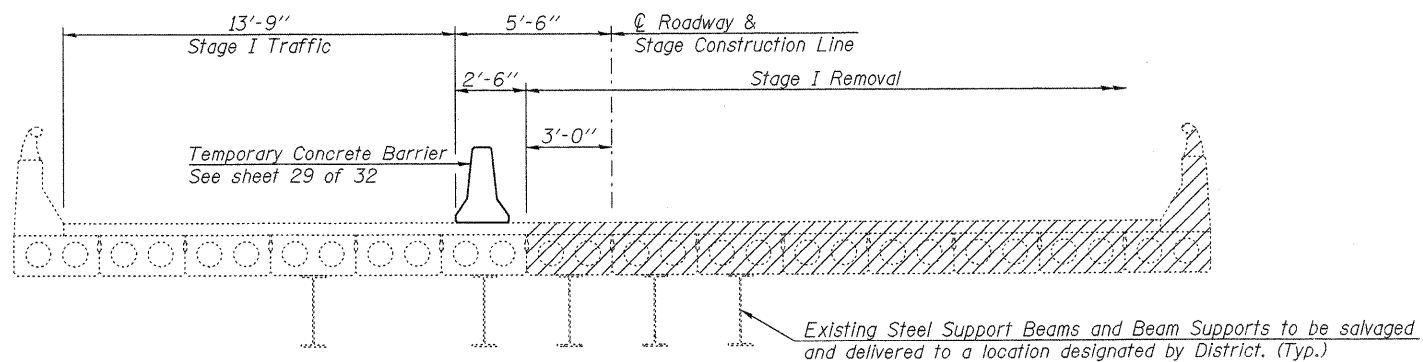
STATION 420+54.63  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 316 SEC. 102BR-5  
LOADING HL-93  
STR. NO. 052-0080

**NAME PLATE**

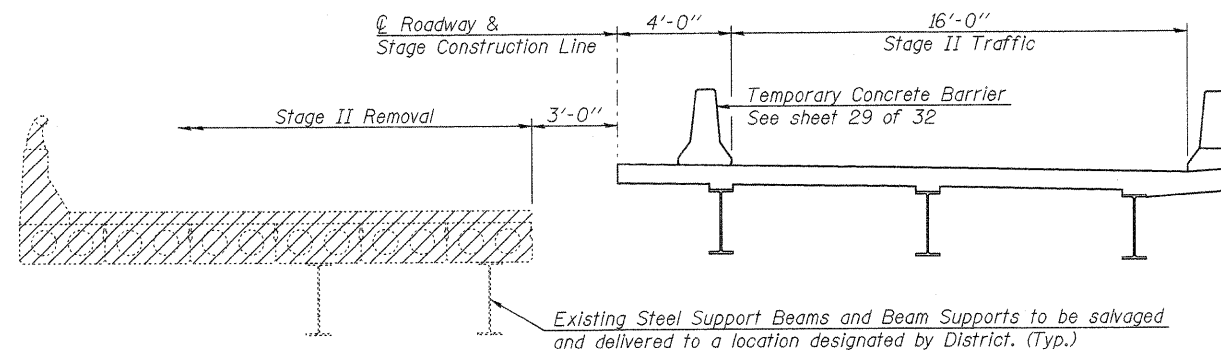
See Std. 515001

**TOTAL BILL OF MATERIAL**

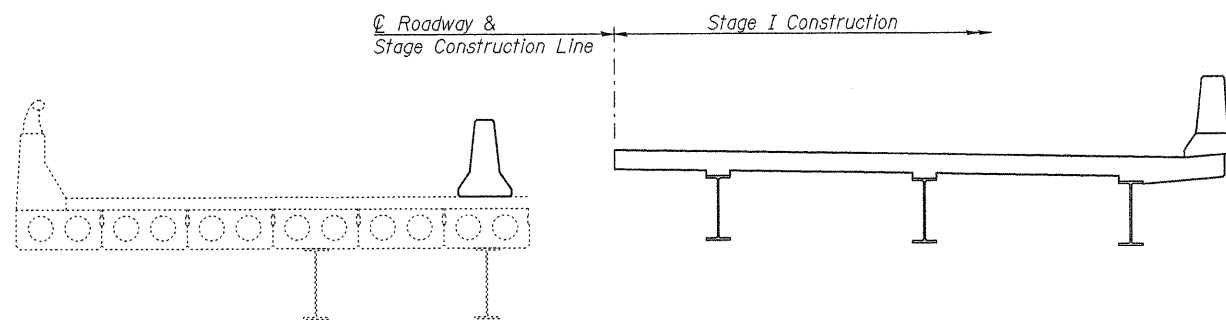
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.		165.3	165.3
Concrete Superstructure	Cu. Yd.	302.9		302.9
Bridge Deck Grooving	Sq. Yd.	704		704
Protective Coat	Sq. Yd.	861		861
Stud Shear Connectors	Each	2,988		2,988
Reinforcement Bars, Epoxy Coated	Pound	75,570	13,240	88,810
Bar Splicers	Each	686	100	786
Furnishing and Erecting Structural Steel	L. Sum	0.3		0.3
Name Plates	Each	1		1
Removal of Existing Structures No. 3	Each			1
Stone Riprap, Class A5	Sq. Yd.		1,085	1,085
Filter Fabric	Sq. Yd.		1,085	1,085
Porous Granular Embankment, Special	Cu. Yd.		112	112
Structure Excavation	Cu. Yd.		406	406
Furnishing Steel Piles HP12x53	Foot		475	475
Furnishing Steel Piles HP14x73	Foot		685	685
Driving Piles	Foot		1,160	1,160
Test Pile Steel HP12x53	Each		2	2
Test Pile Steel HP14x73	Each		2	2
Concrete Encasement	Cu. Yd.		10.8	10.8
Pipe Underdrains for Structures, 4"	Foot		147	147
Geocomposite Wall Drain	Sq. Yd.		67	67
Underwater Structure Excavation Protection, Location 3	Each		1	1
Underwater Structure Excavation Protection, Location 4	Each		1	1
Temporary Soil Retention System	Sq. Ft.		887	887
Asbestos Bearing Pad Removal	Each	28		28
Anchor Bolts, 1"	Each		48	48



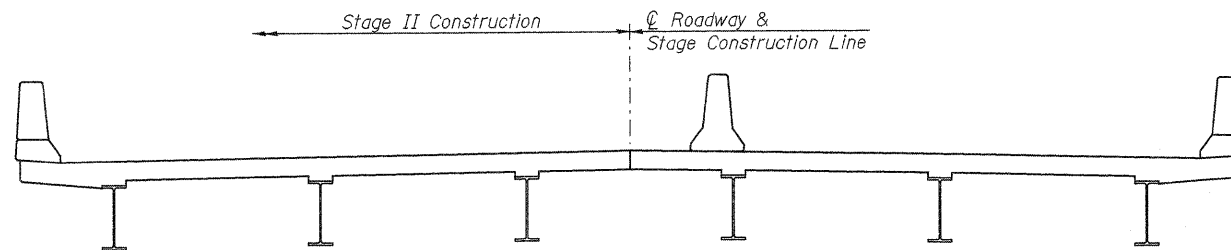
**STAGE I REMOVAL & TRAFFIC**



**STAGE II REMOVAL AND TRAFFIC**



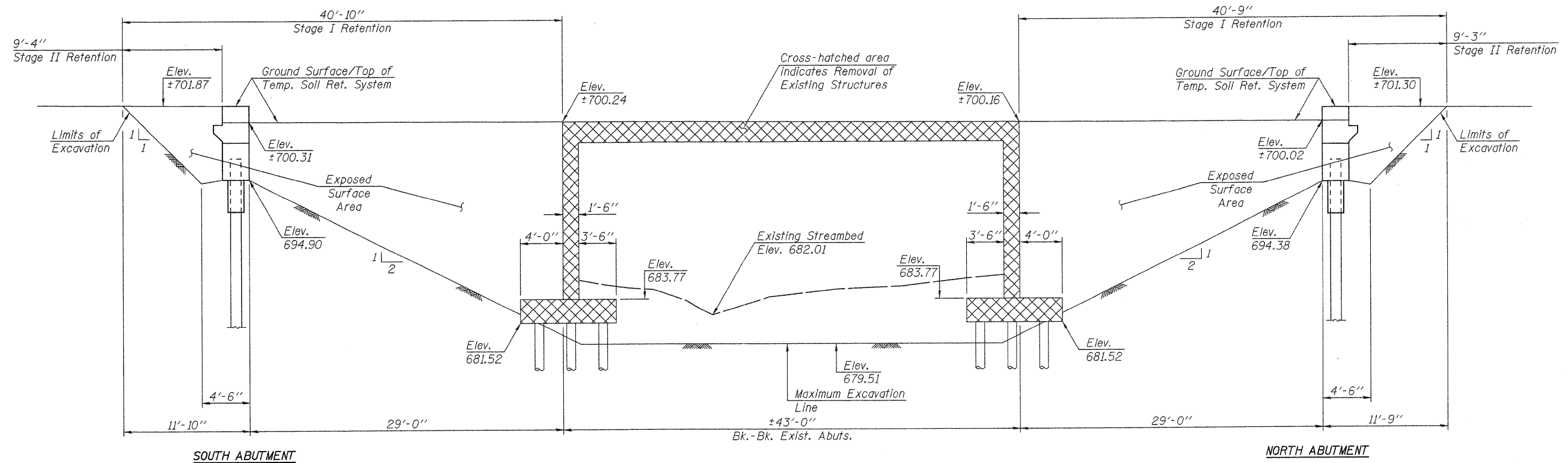
**STAGE I CONSTRUCTION**



**STAGE II CONSTRUCTION**

Notes:  
 All staging cross sections are looking North.  
 Hatched areas indicate Removal of Existing Structures.  
 For quantity of Temporary Concrete Barrier, see Roadway Plans.

Existing Steel Support Beams and Beam Supports located beneath the portion of the existing superstructure utilized for carrying Stage I Traffic shall remain in place until traffic has been diverted to the portion of the new structure carrying Stage II Traffic. All existing Steel Support Beams and Beam Supports shall be salvaged and remain the property of the State. The Contractor shall deliver salvaged Steel Support Beams and Beam Supports to the Illinois Department of Transportation Maintenance Yard located at 1502 US Highway 30 Amboy, Illinois. Department personnel can provide equipment necessary to assist with the unloading of the salvaged beams at the Maintenance Yard. The Contractor shall coordinate the delivery and unloading of the salvaged beams with Mr. Roy McKnight (815-857-2914). The cost of salvage and delivery of the existing Steel Support Beams and Beam Supports is included in Removal of Existing Structures.



**TEMPORARY SOIL RETENTION SYSTEM**

(Looking West)

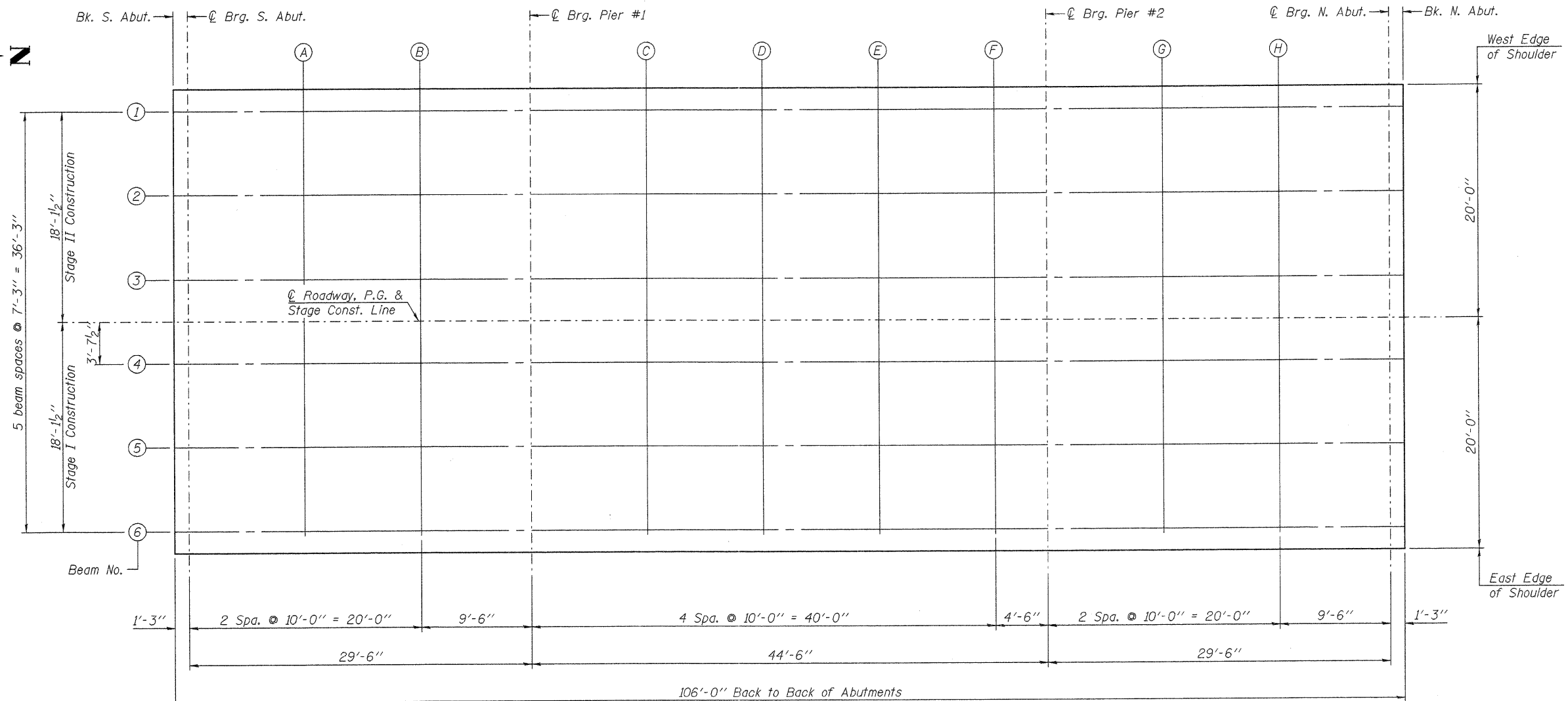
**Notes:**

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

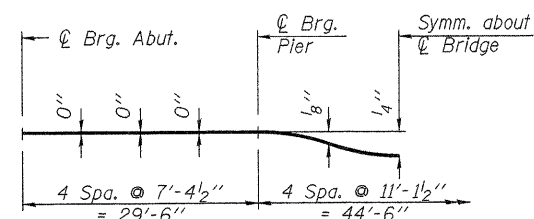
Plan dimensions and elevations relative to the existing abutments are subject to construction variations. Such variations shall not be cause for additional compensation for a change in scope of work

FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/18/11	CHECKED - J.A.M. & A.R.K.	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	105
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				



**PLAN**

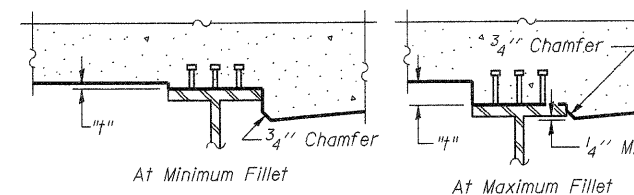


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 6 to 8 of 32.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 6 to 8 of 32, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**

**WEST EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	-20.000	701.478	701.478
☉ BRG. S. ABUT.	420+02.880	-20.000	701.472	701.472
A	420+12.880	-20.000	701.422	701.424
B	420+22.880	-20.000	701.372	701.372
☉ BRG. PIER #1	420+32.380	-20.000	701.324	701.324
C	420+42.380	-20.000	701.274	701.284
D	420+52.380	-20.000	701.224	701.241
E	420+62.380	-20.000	701.174	701.188
F	420+72.380	-20.000	701.124	701.129
☉ BRG. PIER #2	420+76.880	-20.000	701.102	701.102
G	420+86.880	-20.000	701.052	701.053
H	420+96.880	-20.000	701.002	701.004
☉ BRG. N. ABUT.	421+06.380	-20.000	700.954	700.954
BK. N. ABUT.	421+07.630	-20.000	700.948	700.948

**BEAM #1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	-18.125	701.517	701.517
☉ BRG. S. ABUT.	420+02.880	-18.125	701.511	701.511
A	420+12.880	-18.125	701.461	701.463
B	420+22.880	-18.125	701.411	701.411
☉ BRG. PIER #1	420+32.380	-18.125	701.363	701.363
C	420+42.380	-18.125	701.313	701.323
D	420+52.380	-18.125	701.263	701.280
E	420+62.380	-18.125	701.213	701.227
F	420+72.380	-18.125	701.163	701.168
☉ BRG. PIER #2	420+76.880	-18.125	701.141	701.141
G	420+86.880	-18.125	701.091	701.092
H	420+96.880	-18.125	701.041	701.043
☉ BRG. N. ABUT.	421+06.380	-18.125	700.993	700.993
BK. N. ABUT.	421+07.630	-18.125	700.987	700.987

**BEAM #2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	-10.875	701.662	701.662
☉ BRG. S. ABUT.	420+02.880	-10.875	701.656	701.656
A	420+12.880	-10.875	701.606	701.608
B	420+22.880	-10.875	701.556	701.556
☉ BRG. PIER #1	420+32.380	-10.875	701.508	701.508
C	420+42.380	-10.875	701.458	701.468
D	420+52.380	-10.875	701.408	701.425
E	420+62.380	-10.875	701.358	701.372
F	420+72.380	-10.875	701.308	701.313
☉ BRG. PIER #2	420+76.880	-10.875	701.286	701.286
G	420+86.880	-10.875	701.236	701.237
H	420+96.880	-10.875	701.186	701.188
☉ BRG. N. ABUT.	421+06.380	-10.875	701.138	701.138
BK. N. ABUT.	421+07.630	-10.875	701.132	701.132

E-S

7-1-10



FILE NAME = 0520080-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 052-0080

SHEET NO. 6 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	107
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

**BEAM #3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	-3.625	701.775	701.775
☉ BRG. S. ABUT.	420+02.880	-3.625	701.769	701.769
A	420+12.880	-3.625	701.719	701.721
B	420+22.880	-3.625	701.669	701.670
☉ BRG. PIER #1	420+32.380	-3.625	701.621	701.621
C	420+42.380	-3.625	701.571	701.582
D	420+52.380	-3.625	701.521	701.539
E	420+62.380	-3.625	701.471	701.485
F	420+72.380	-3.625	701.421	701.426
☉ BRG. PIER #2	420+76.880	-3.625	701.399	701.399
G	420+86.880	-3.625	701.349	701.350
H	420+96.880	-3.625	701.299	701.301
☉ BRG. N. ABUT.	421+06.380	-3.625	701.251	701.251
BK. N. ABUT.	421+07.630	-3.625	701.245	701.245

**☉ ROADWAY, P.G. & STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	0.000	701.832	701.832
☉ BRG. S. ABUT.	420+02.880	0.000	701.826	701.826
A	420+12.880	0.000	701.776	701.778
B	420+22.880	0.000	701.726	701.726
☉ BRG. PIER #1	420+32.380	0.000	701.678	701.678
C	420+42.380	0.000	701.628	701.638
D	420+52.380	0.000	701.578	701.595
E	420+62.380	0.000	701.528	701.542
F	420+72.380	0.000	701.478	701.483
☉ BRG. PIER #2	420+76.880	0.000	701.456	701.456
G	420+86.880	0.000	701.406	701.406
H	420+96.880	0.000	701.356	701.358
☉ BRG. N. ABUT.	421+06.380	0.000	701.308	701.308
BK. N. ABUT.	421+07.630	0.000	701.302	701.302

**BEAM #4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	3.625	701.775	701.775
☉ BRG. S. ABUT.	420+02.880	3.625	701.769	701.769
A	420+12.880	3.625	701.719	701.721
B	420+22.880	3.625	701.669	701.670
☉ BRG. PIER #1	420+32.380	3.625	701.621	701.621
C	420+42.380	3.625	701.571	701.582
D	420+52.380	3.625	701.521	701.539
E	420+62.380	3.625	701.471	701.485
F	420+72.380	3.625	701.421	701.426
☉ BRG. PIER #2	420+76.880	3.625	701.399	701.399
G	420+86.880	3.625	701.349	701.350
H	420+96.880	3.625	701.299	701.301
☉ BRG. N. ABUT.	421+06.380	3.625	701.251	701.251
BK. N. ABUT.	421+07.630	3.625	701.245	701.245

E-S

7-1-10



FILE NAME = 0520080-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 052-0080

SHEET NO. 7 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	108
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64D57	



**BEAM #5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	10.875	701.662	701.662
☉ BRG. S. ABUT.	420+02.880	10.875	701.656	701.656
A	420+12.880	10.875	701.606	701.608
B	420+22.880	10.875	701.556	701.556
☉ BRG. PIER #1	420+32.380	10.875	701.508	701.508
C	420+42.380	10.875	701.458	701.468
D	420+52.380	10.875	701.408	701.425
E	420+62.380	10.875	701.358	701.372
F	420+72.380	10.875	701.308	701.313
☉ BRG. PIER #2	420+76.880	10.875	701.286	701.286
G	420+86.880	10.875	701.236	701.237
H	420+96.880	10.875	701.186	701.188
☉ BRG. N. ABUT.	421+06.380	10.875	701.138	701.138
BK. N. ABUT.	421+07.630	10.875	701.132	701.132

**BEAM #6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	18.125	701.517	701.517
☉ BRG. S. ABUT.	420+02.880	18.125	701.511	701.511
A	420+12.880	18.125	701.461	701.463
B	420+22.880	18.125	701.411	701.411
☉ BRG. PIER #1	420+32.380	18.125	701.363	701.363
C	420+42.380	18.125	701.313	701.323
D	420+52.380	18.125	701.263	701.280
E	420+62.380	18.125	701.213	701.227
F	420+72.380	18.125	701.163	701.168
☉ BRG. PIER #2	420+76.880	18.125	701.141	701.141
G	420+86.880	18.125	701.091	701.092
H	420+96.880	18.125	701.041	701.043
☉ BRG. N. ABUT.	421+06.380	18.125	700.993	700.993
BK. N. ABUT.	421+07.630	18.125	700.987	700.987

**EAST EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	420+01.630	20.000	701.478	701.478
☉ BRG. S. ABUT.	420+02.880	20.000	701.472	701.472
A	420+12.880	20.000	701.422	701.424
B	420+22.880	20.000	701.372	701.372
☉ BRG. PIER #1	420+32.380	20.000	701.324	701.324
C	420+42.380	20.000	701.274	701.284
D	420+52.380	20.000	701.224	701.241
E	420+62.380	20.000	701.174	701.188
F	420+72.380	20.000	701.124	701.129
☉ BRG. PIER #2	420+76.880	20.000	701.102	701.102
G	420+86.880	20.000	701.052	701.053
H	420+96.880	20.000	701.002	701.004
☉ BRG. N. ABUT.	421+06.380	20.000	700.954	700.954
BK. N. ABUT.	421+07.630	20.000	700.948	700.948

E-S

7-1-10



FILE NAME = 0520080-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

REVISED -  
 REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 052-0080

SHEET NO. 8 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	109
			CONTRACT NO. 64D57	
			ILLINOIS FED. AID PROJECT	

**WEST EDGE OF SHOULDER**

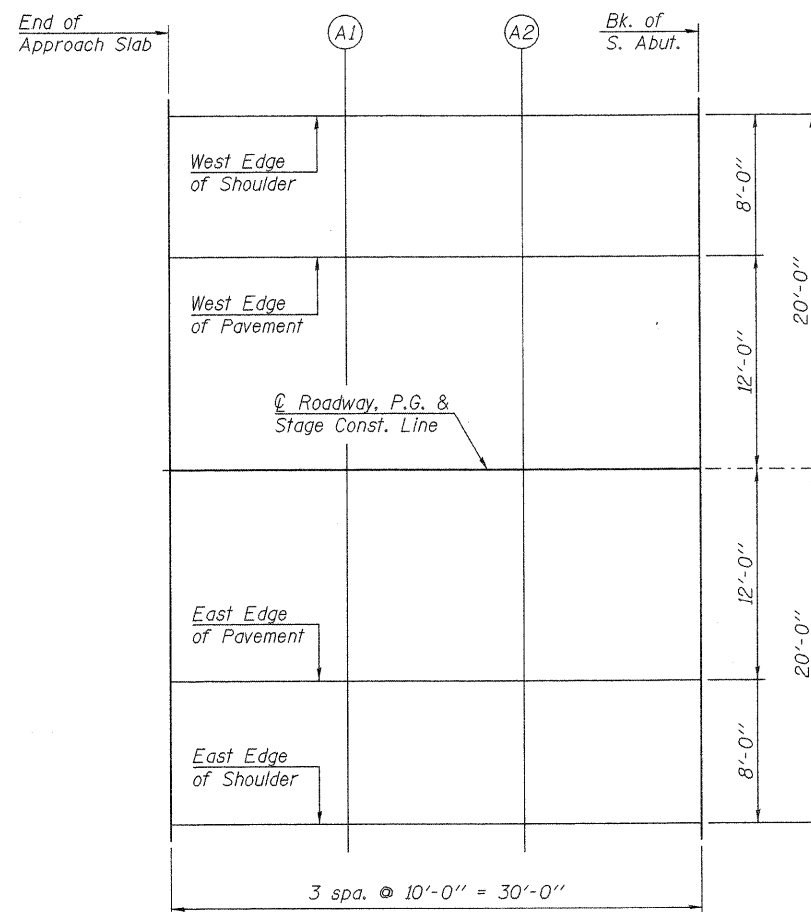
Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	419+71.630	-20.000	701.628
A1	419+81.630	-20.000	701.578
A2	419+91.630	-20.000	701.528
Bk. of S. Abut.	420+01.630	-20.000	701.478

**WEST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	419+71.630	-12.000	701.794
A1	419+81.630	-12.000	701.744
A2	419+91.630	-12.000	701.694
Bk. of S. Abut.	420+01.630	-12.000	701.644

**☉ ROADWAY, P.G. & STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	419+71.630	0.000	701.982
A1	419+81.630	0.000	701.932
A2	419+91.630	0.000	701.882
Bk. of S. Abut.	420+01.630	0.000	701.832



**PLAN**

**EAST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	419+71.630	12.000	701.794
A1	419+81.630	12.000	701.744
A2	419+91.630	12.000	701.694
Bk. of S. Abut.	420+01.630	12.000	701.644

**EAST EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	419+71.630	20.000	701.628
A1	419+81.630	20.000	701.578
A2	419+91.630	20.000	701.528
Bk. of S. Abut.	420+01.630	20.000	701.478

E-AS

7-1-10



FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATION  
STRUCTURE NO. 052-0080**

SHEET NO. 9 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	110
CONTRACT NO. 64D57			[ILLINOIS] FED. AID PROJECT	

**WEST EDGE OF SHOULDER**

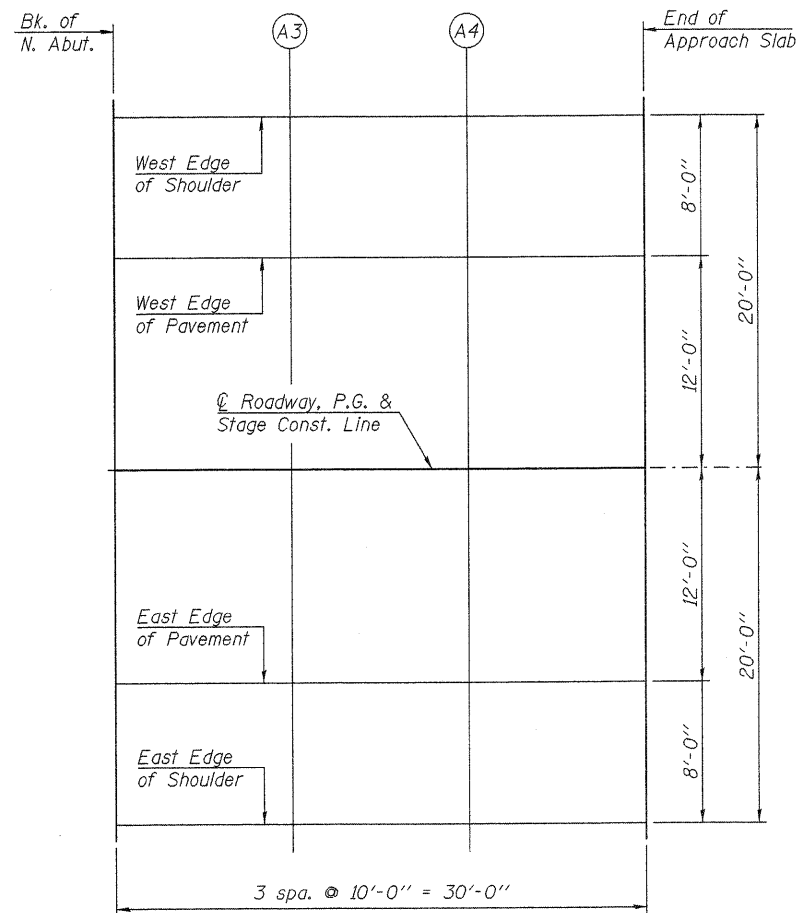
Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	421+07.630	-20.000	700.948
A3	421+17.630	-20.000	700.898
A4	421+27.630	-20.000	700.848
End of Appr. Slab	421+37.630	-20.000	700.798

**WEST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	421+07.630	-12.000	701.114
A3	421+17.630	-12.000	701.064
A4	421+27.630	-12.000	701.014
End of Appr. Slab	421+37.630	-12.000	700.964

**☉ ROADWAY, P.G. & STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	421+07.630	0.000	701.302
A3	421+17.630	0.000	701.252
A4	421+27.630	0.000	701.202
End of Appr. Slab	421+37.630	0.000	701.152



**PLAN**

**EAST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	421+07.630	12.000	701.114
A3	421+17.630	12.000	701.064
A4	421+27.630	12.000	701.014
End of Appr. Slab	421+37.630	12.000	700.964

**EAST EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	421+07.630	20.000	700.948
A3	421+17.630	20.000	700.898
A4	421+27.630	20.000	700.848
End of Appr. Slab	421+37.630	20.000	700.798

E-AS

7-1-10



FILE NAME = 0520080-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

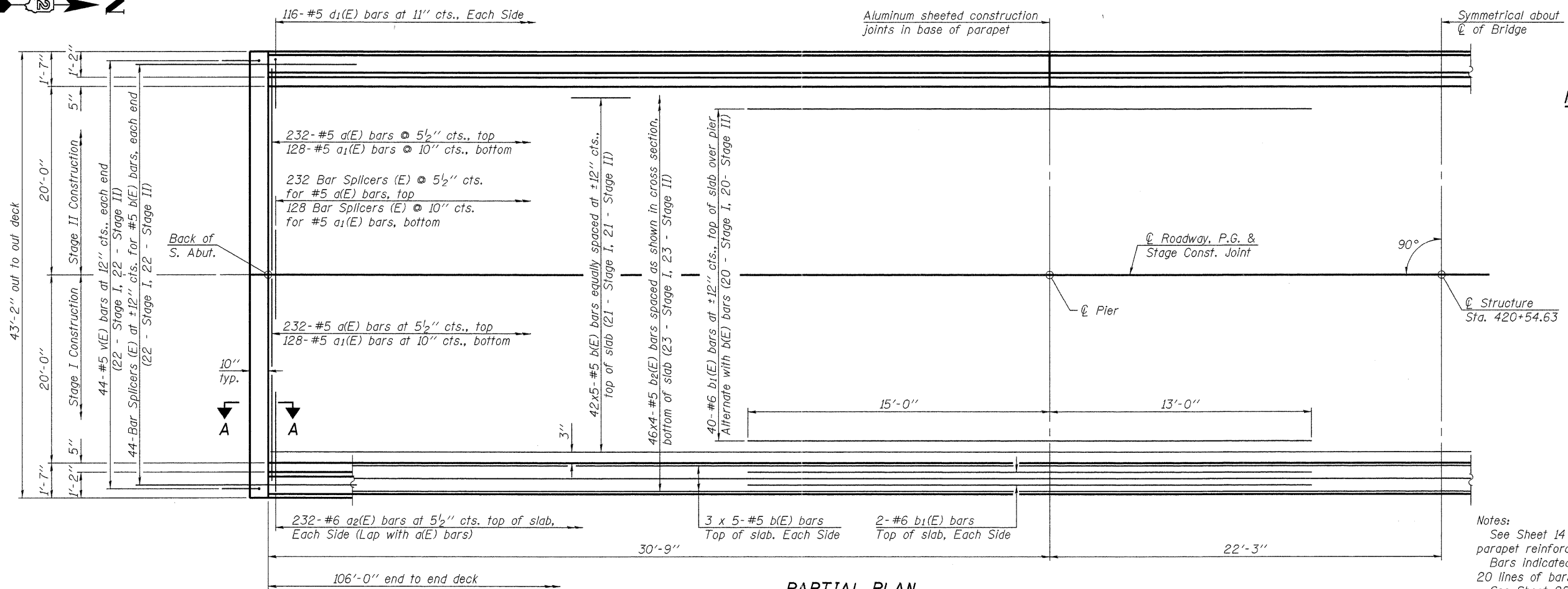
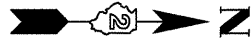
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATION  
 STRUCTURE NO. 052-0080**

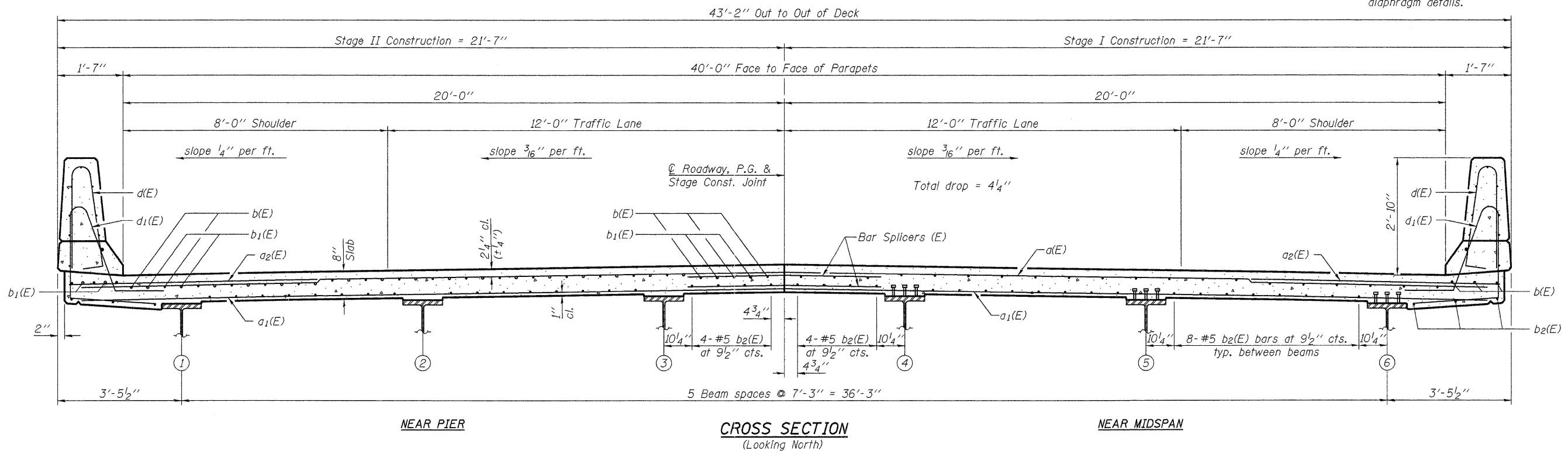
SHEET NO. 10 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	111
				CONTRACT NO. 64D57
ILLINOIS FED. AID PROJECT				



**PARTIAL PLAN**

**Notes:**  
See Sheet 14 of 32 for superstructure details, parapet reinforcement and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
See Sheet 28 of 32 for bar splicer details.  
See Sheet 12 & 13 of 31 for Section A-A and diaphragm details.



SI-2-0

7-1-10



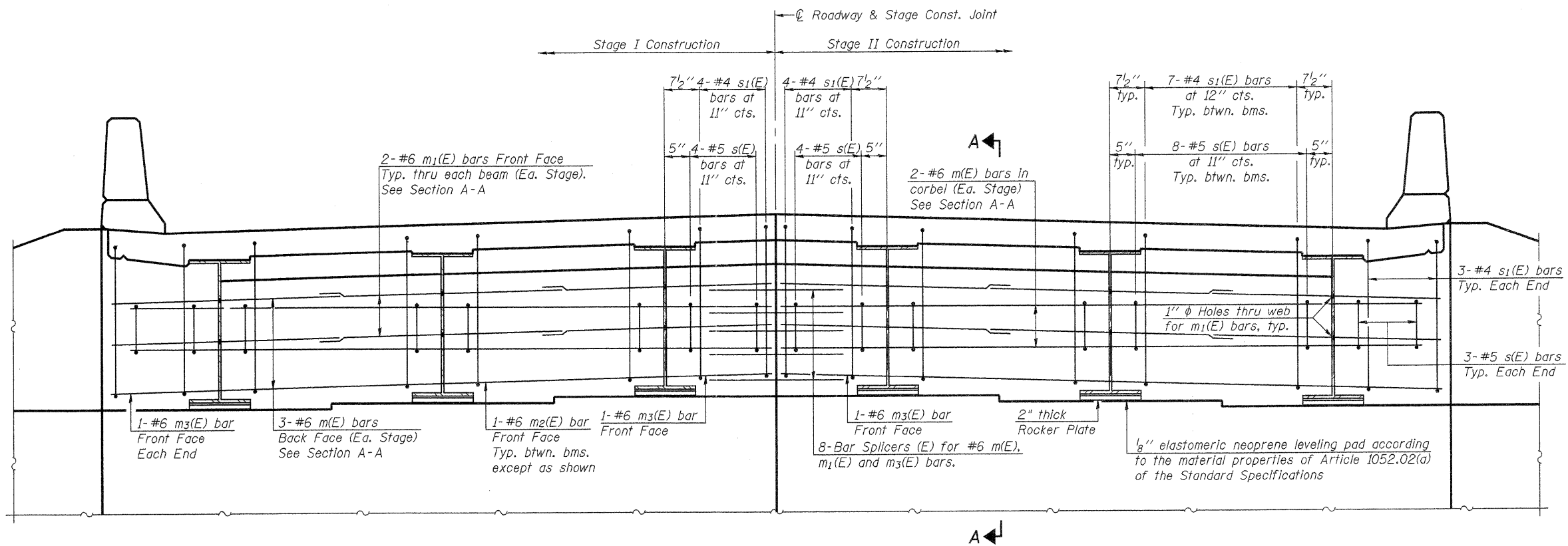
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USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/29/11	CHECKED - J.A.M. & A.R.K.	REVISED -

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

**SUPERSTRUCTURE**  
**STRUCTURE NO. 052-0080**

SHEET NO. 11 OF 32 SHEETS

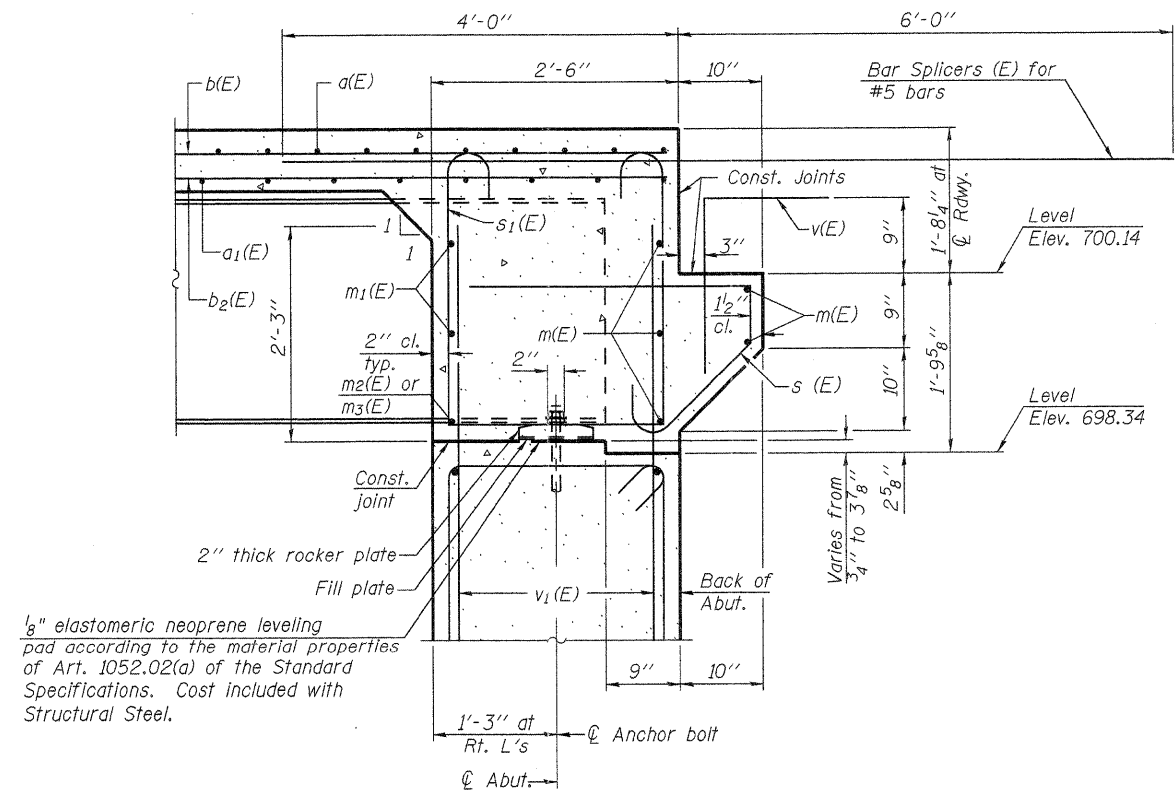
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	112
			CONTRACT NO. 64D57	
[ILLINOIS] FED. AID PROJECT				



**DIAPHRAGM ELEVATION AT SOUTH ABUTMENT**  
(Looking South)

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 14 of 32.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 14 of 32.  
 For details of bars s(E) & s1(E) see sheet 14 of 32.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 For Bar Splicer details see sheet 28 of 32.

**MIN. BAR LAP**  
 #6 bar = 3'-4"



**SECTION A-A**

Dimensions at right angles to abutment.

SI-DSI

7-1-10



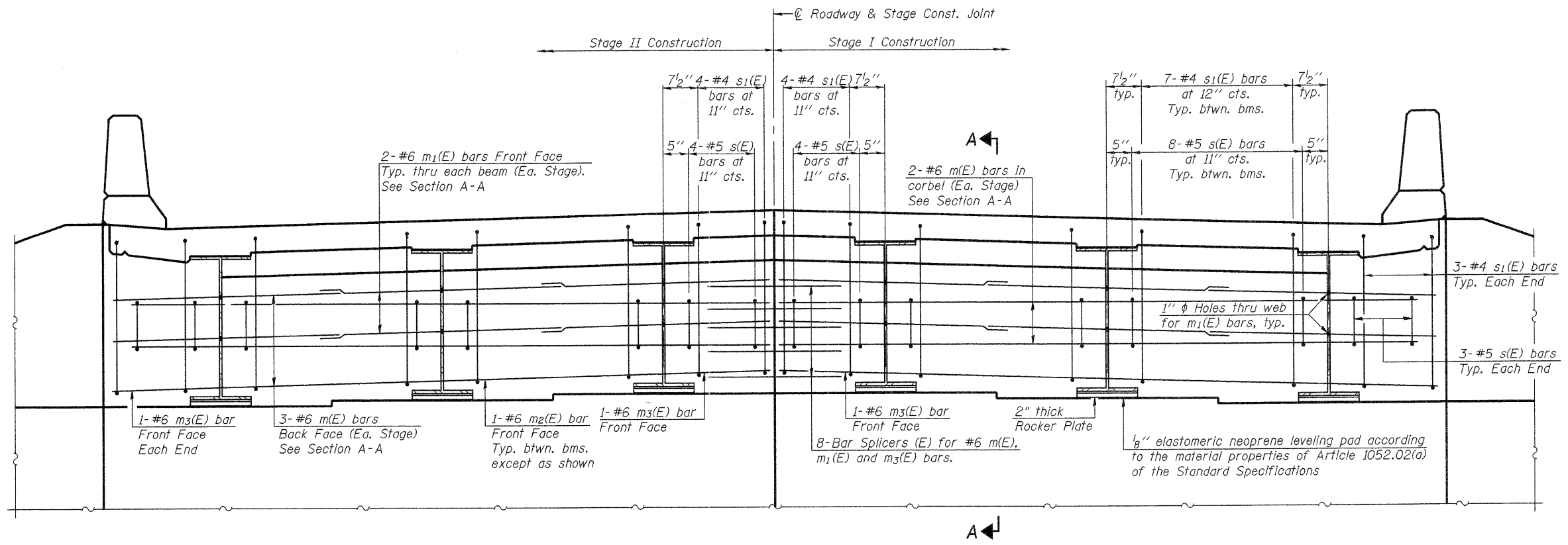
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PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

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

**SOUTH INTEGRAL ABUTMENT DIAPHRAGM DETAILS**  
**STRUCTURE NO. 052-0080**

SHEET NO. 12 OF 32 SHEETS

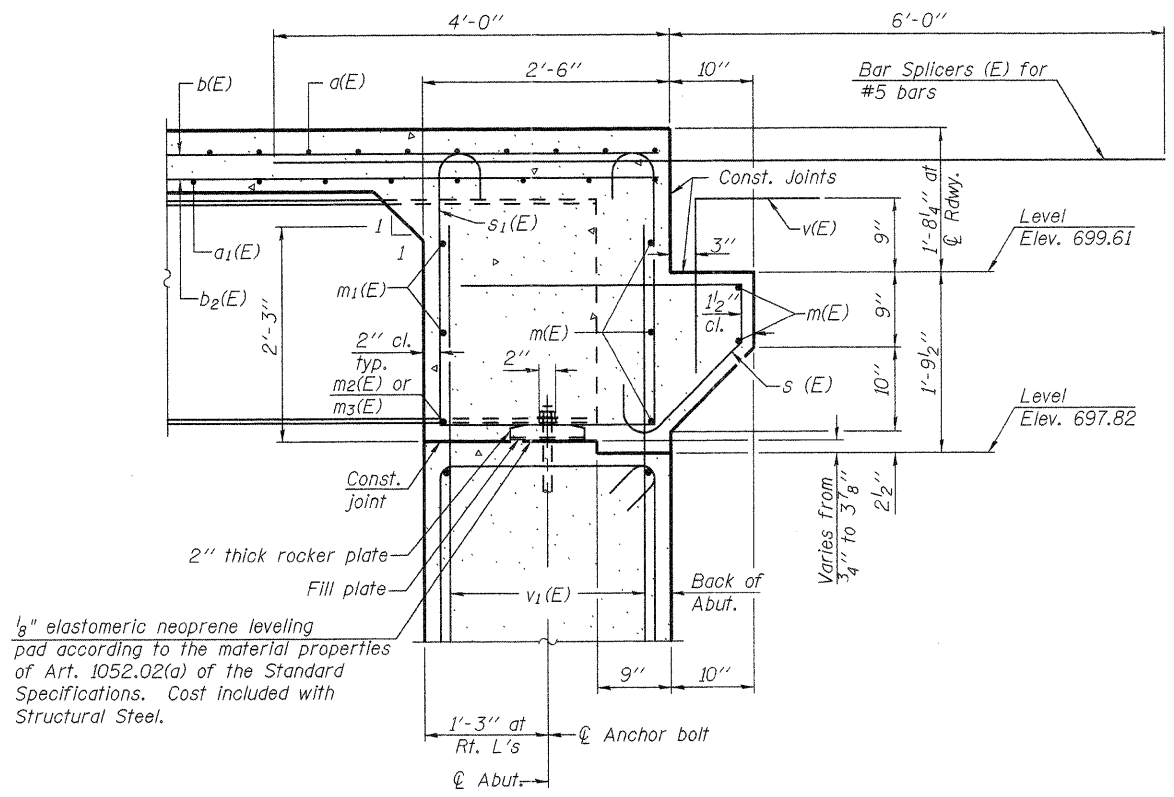
F.A.P. RTE. 316	SECTION 102BR-5	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 113
CONTRACT NO. 64057				
ILLINOIS FED. AID PROJECT				



**DIAPHRAGM ELEVATION AT NORTH ABUTMENT**  
(Looking North)

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 14 of 32.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 14 of 32.  
 For details of bars s(E) & s1(E) see sheet 14 of 32.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 For Bar Splicer details see sheet 28 of 32.

**MIN. BAR LAP**  
 #6 bar = 3'-4"



**SECTION A-A**

Dimensions at right angles to abutment.

SI-DSI

7-1-10



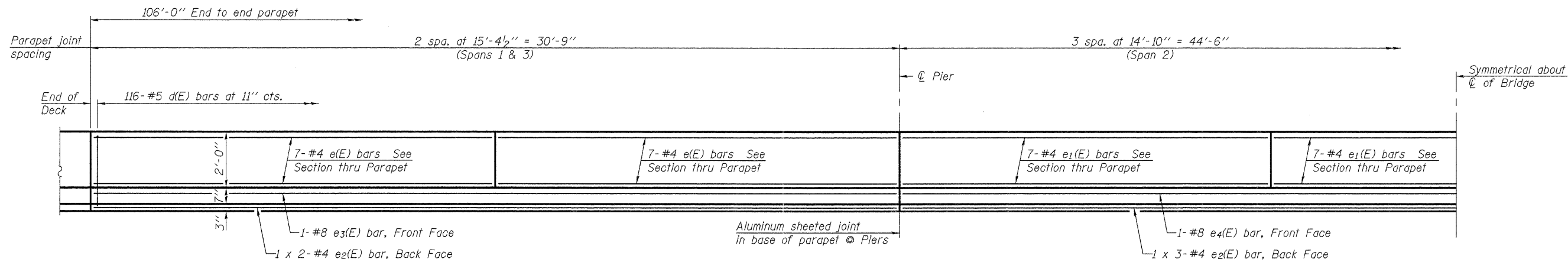
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PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

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

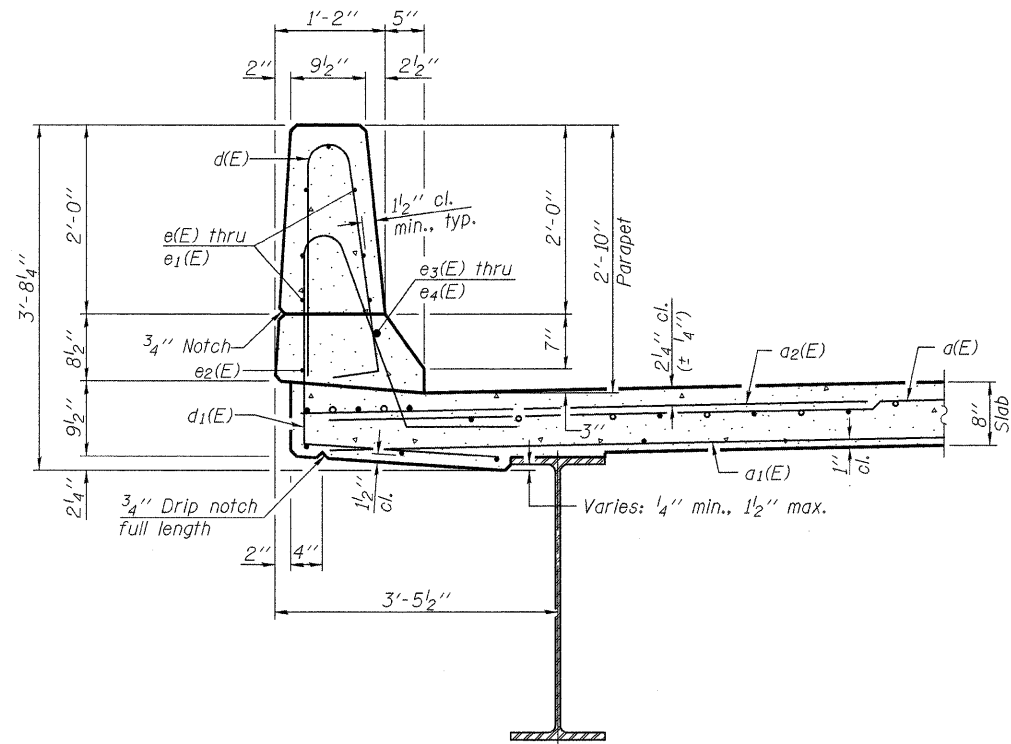
**NORTH INTEGRAL ABUTMENT DIAPHRAGM DETAILS**  
**STRUCTURE NO. 052-0080**

SHEET NO. 13 OF 32 SHEETS

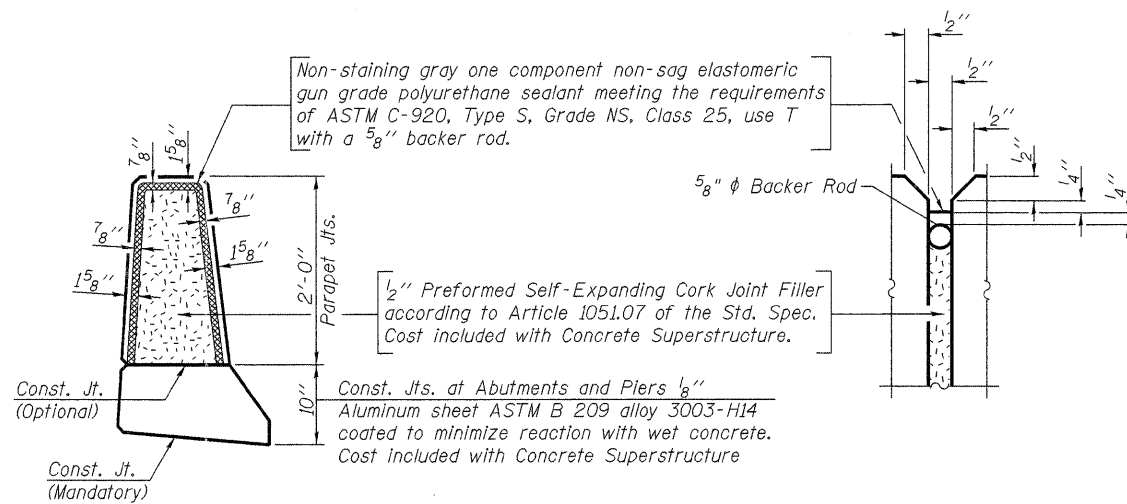
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	114
CONTRACT NO. 64057				
ILLINOIS FED. AID PROJECT				



**INSIDE ELEVATION OF PARAPET**



**SECTION THRU PARAPET**



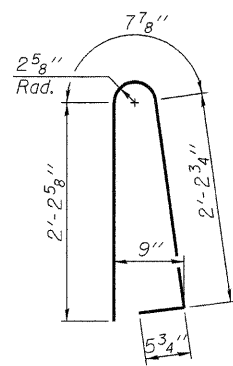
**PARAPET JOINT DETAILS**

**MINIMUM BAR LAP**  
(Parapet)  
#4 bar = 2'-0"  
#8 bar = 5'-2"

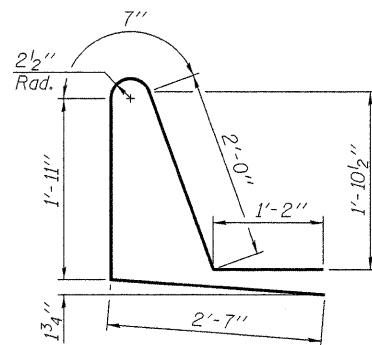
**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	464	#5	21'-0"	—
a1(E)	256	#5	20'-6"	—
a2(E)	464	#6	6'-6"	—
b(E)	240	#5	24'-0"	—
b1(E)	88	#6	28'-0"	—
b2(E)	184	#5	29'-0"	—
d(E)	232	#5	5'-7"	⌒
d1(E)	232	#5	8'-3"	⌒
e(E)	56	#4	15'-0"	—
e1(E)	42	#4	14'-6"	—
e2(E)	14	#4	16'-3"	—
e3(E)	4	#8	30'-5"	—
e4(E)	2	#8	44'-2"	—
m(E)	20	#6	21'-3"	—
m1(E)	24	#6	9'-6"	—
m2(E)	8	#6	6'-9"	—
m3(E)	8	#6	3'-2"	—
s(E)	92	#5	5'-5"	⌒
s1(E)	86	#4	8'-4"	⌒
v(E)	88	#5	4'-0"	⌒
Reinforcement Bars, Epoxy Coated			Pound	42,910
Concrete Superstructure			Cu. Yds.	163.5

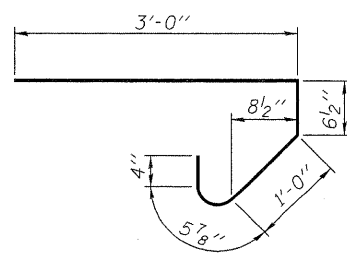
Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.



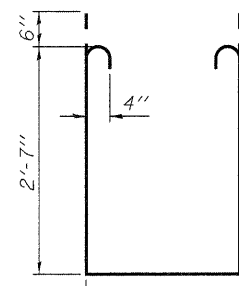
**BAR d(E)**



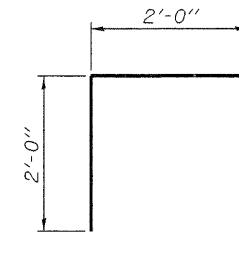
**BAR d1(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR v(E)**

S-I-D 7-1-10



FILE NAME = 0520000-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/29/11	CHECKED - J.A.M. & A.R.K.	REVISED -

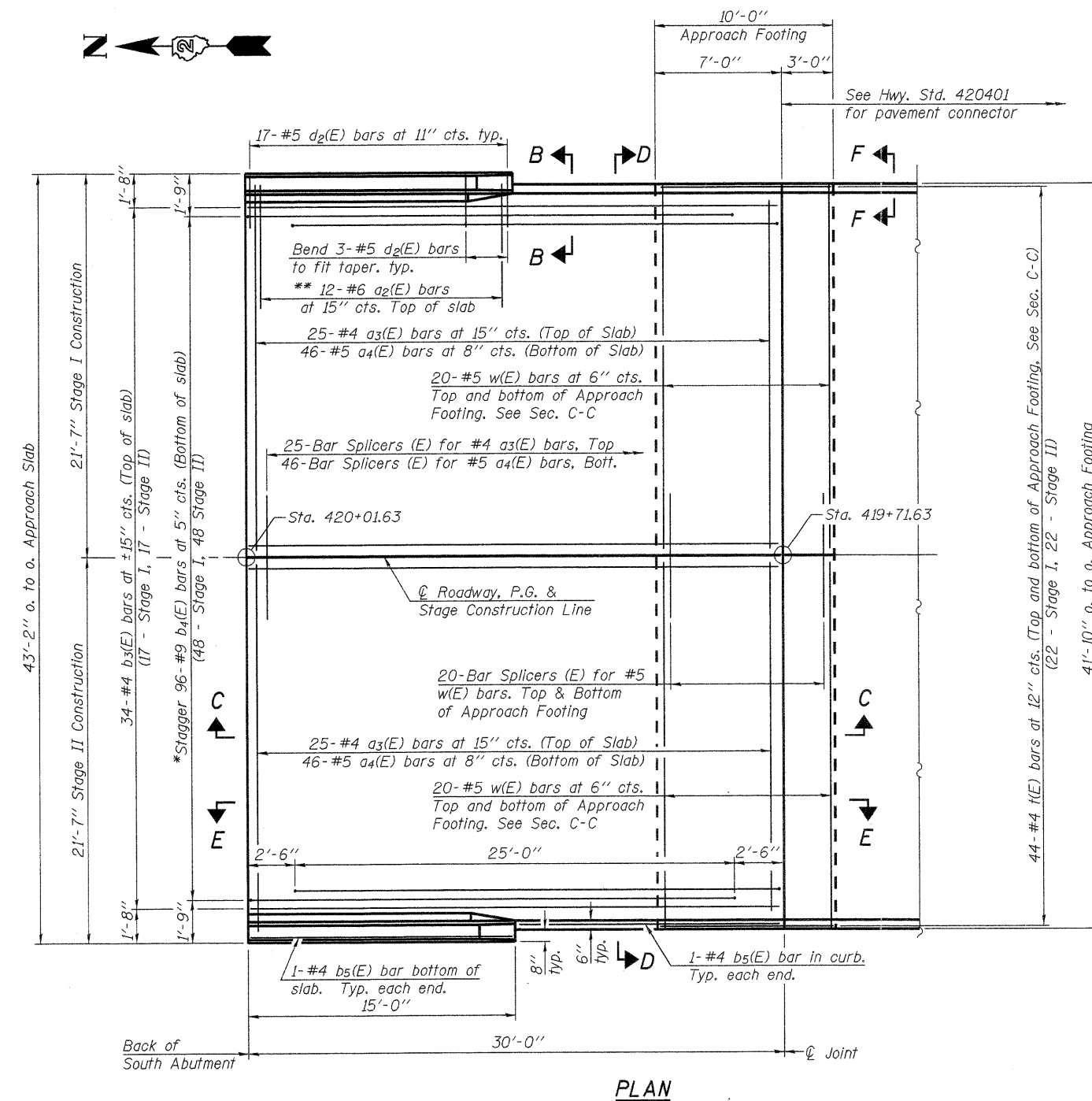
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 052-0080

SHEET NO. 14 OF 32 SHEETS

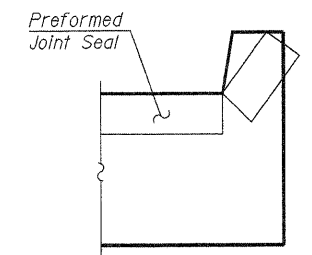
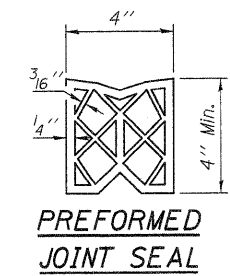
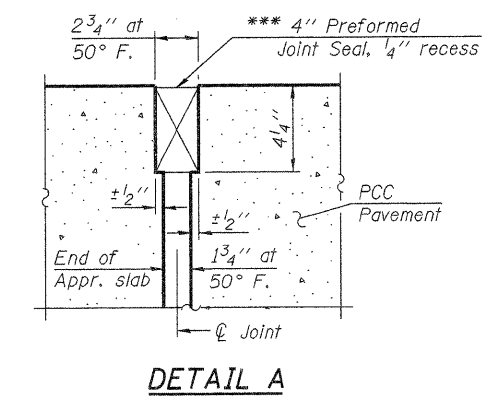
F.A.P. RTE. 316	SECTION 102BR-5	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 115
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

Notes:  
See sheet 16 of 32 for Sections C-C & D-D and View E-E.  
a<sub>3</sub>(E) and a<sub>4</sub>(E) bar spacings measured along  $\bar{C}$  Rdwy.

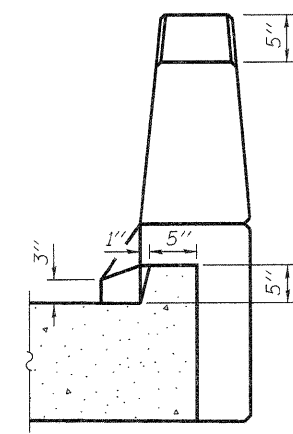


\* Tilt #9 b<sub>4</sub>(E) bars as required to maintain clearance.  
\*\* Space between a<sub>3</sub>(E) bars, typ. ea. parapet.

\*\*\*Cost Included with Concrete Superstructure



VIEW F-F  
Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

BA-0

7-1-10

**FEHR-GRAHAM & ASSOCIATES, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
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PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

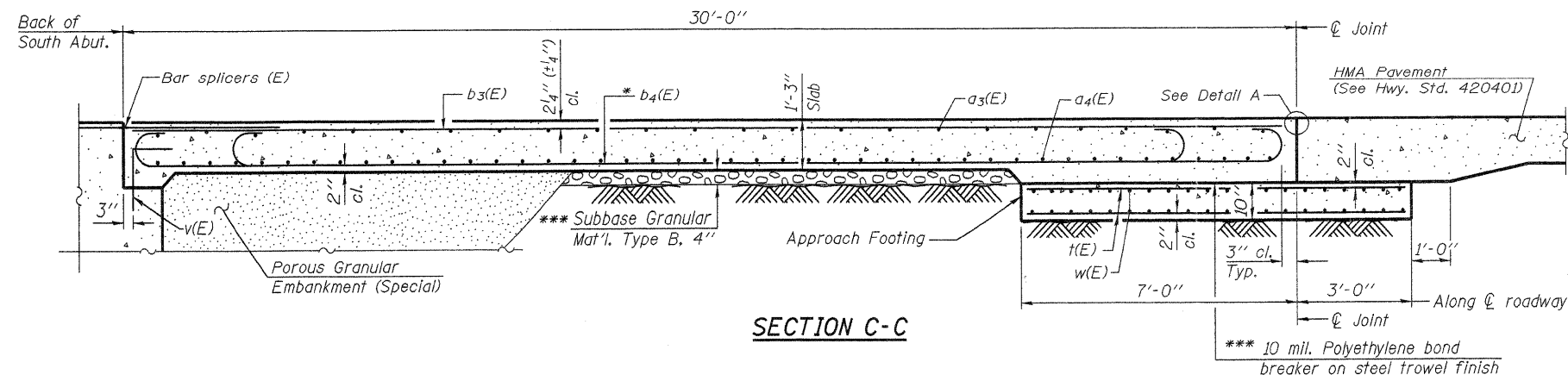
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 052-0080**

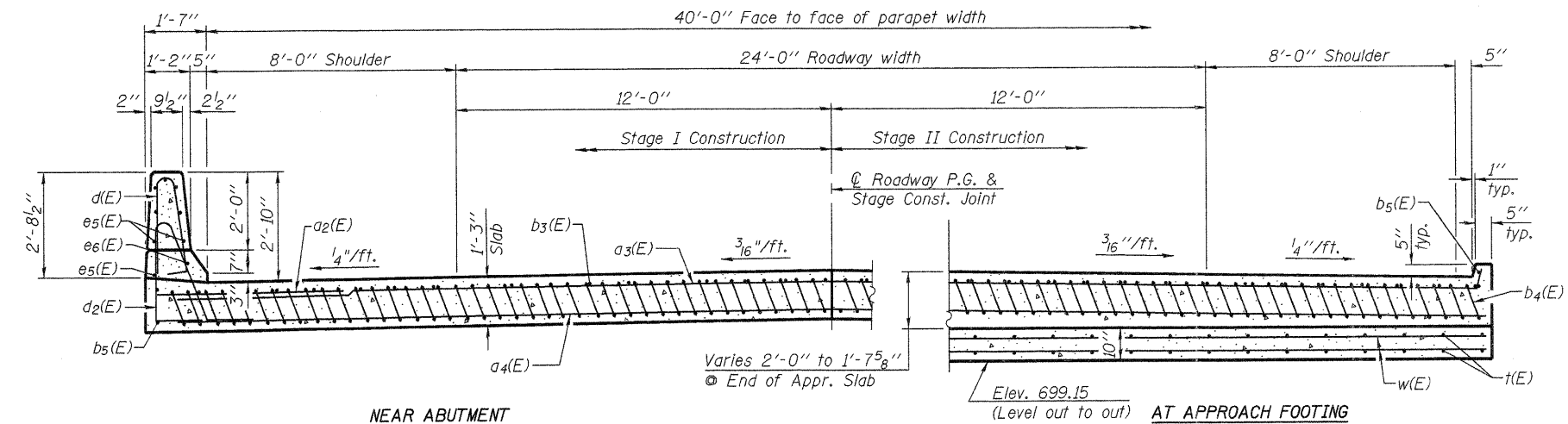
SHEET NO. 15 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	116
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				



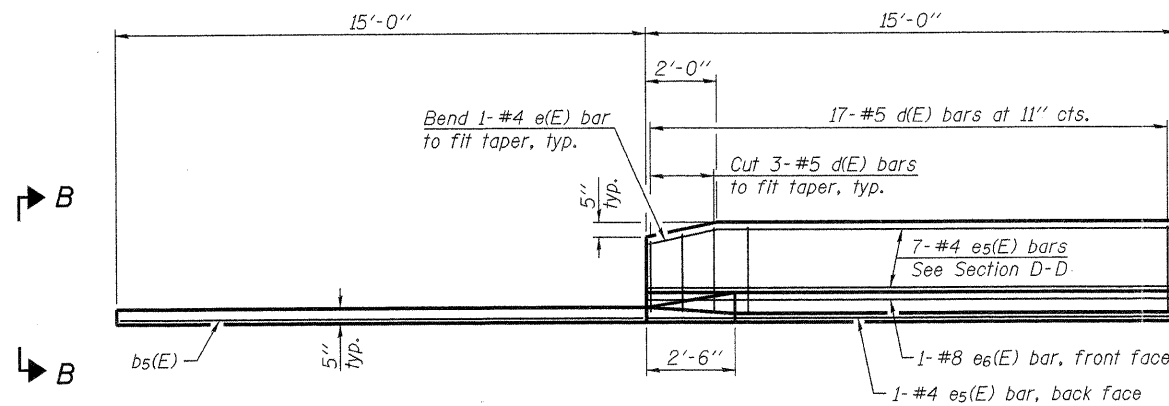


**SECTION C-C**

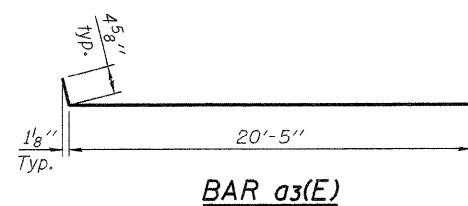


**SECTION D-D**

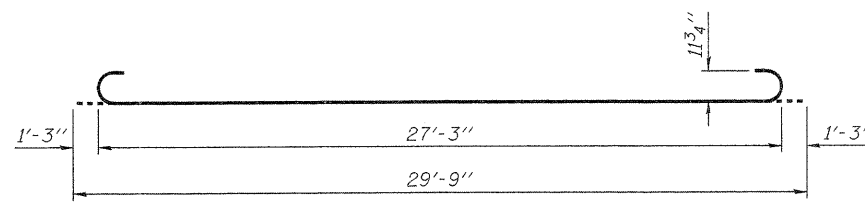
(Looking South)  
(See Plan on Sheet 15 of 32 for dimensions not shown)



**VIEW E-E**



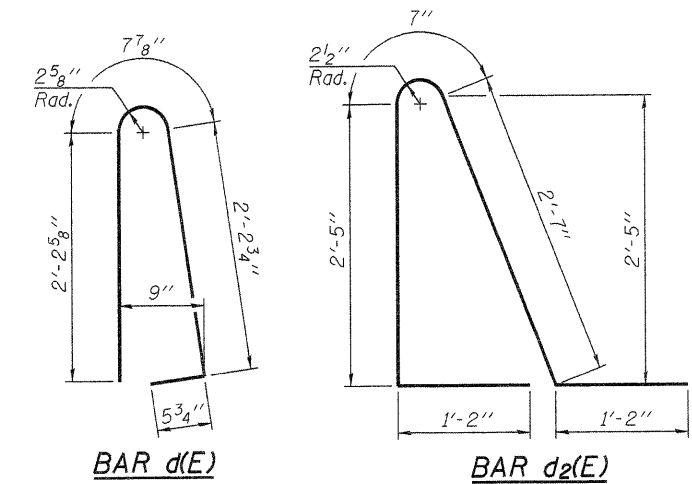
**BAR a3(E)**



**BAR b4(E)**

**Notes:**

See sheet 15 of 32 for Detail A and View B-B.  
Approach slab and parapet concrete 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.  
For v(E) bar details, see sheet 14 of 32.  
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
For bar splicer details, see sheet 28 of 32.  
Cost of excavation for approach footing included with Concrete Structures.  
For Porous Granular Embankment, Special and drainage treatment details, see sheet 2 of 32.  
For additional parapet details, see sheet 14 of 32.



\* Tilt #9 b4(E) bars as required to maintain clearance.

\*\*\* Cost included with Concrete Superstructure.

**SOUTH APPROACH  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	24	#6	6'-6"	—
a3(E)	50	#4	20'-10"	—
a4(E)	92	#5	20'-7"	—
b3(E)	34	#4	29'-8"	—
b4(E)	96	#9	29'-9"	—
b5(E)	4	#4	14'-8"	—
d(E)	34	#5	5'-7"	U
d2(E)	34	#5	7'-11"	U
e5(E)	16	#4	14'-8"	—
e6(E)	2	#8	14'-8"	—
t(E)	88	#4	9'-8"	—
w(E)	80	#5	20'-7"	—
Concrete Superstructure			Cu. Yd.	69.7
Concrete Structures			Cu. Yd.	12.9
Reinforcement Bars, Epoxy Coated			Pound	16,330

BA-0

7-1-10



FILE NAME = 0520080-64057.DGN  
USER NAME = S.A.P.  
PLOT SCALE =  
PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
CHECKED - A.R.K.  
DRAWN - S.A.P.  
CHECKED - J.A.M. & A.R.K.

REVISED -  
REVISED -  
REVISED -  
REVISED -

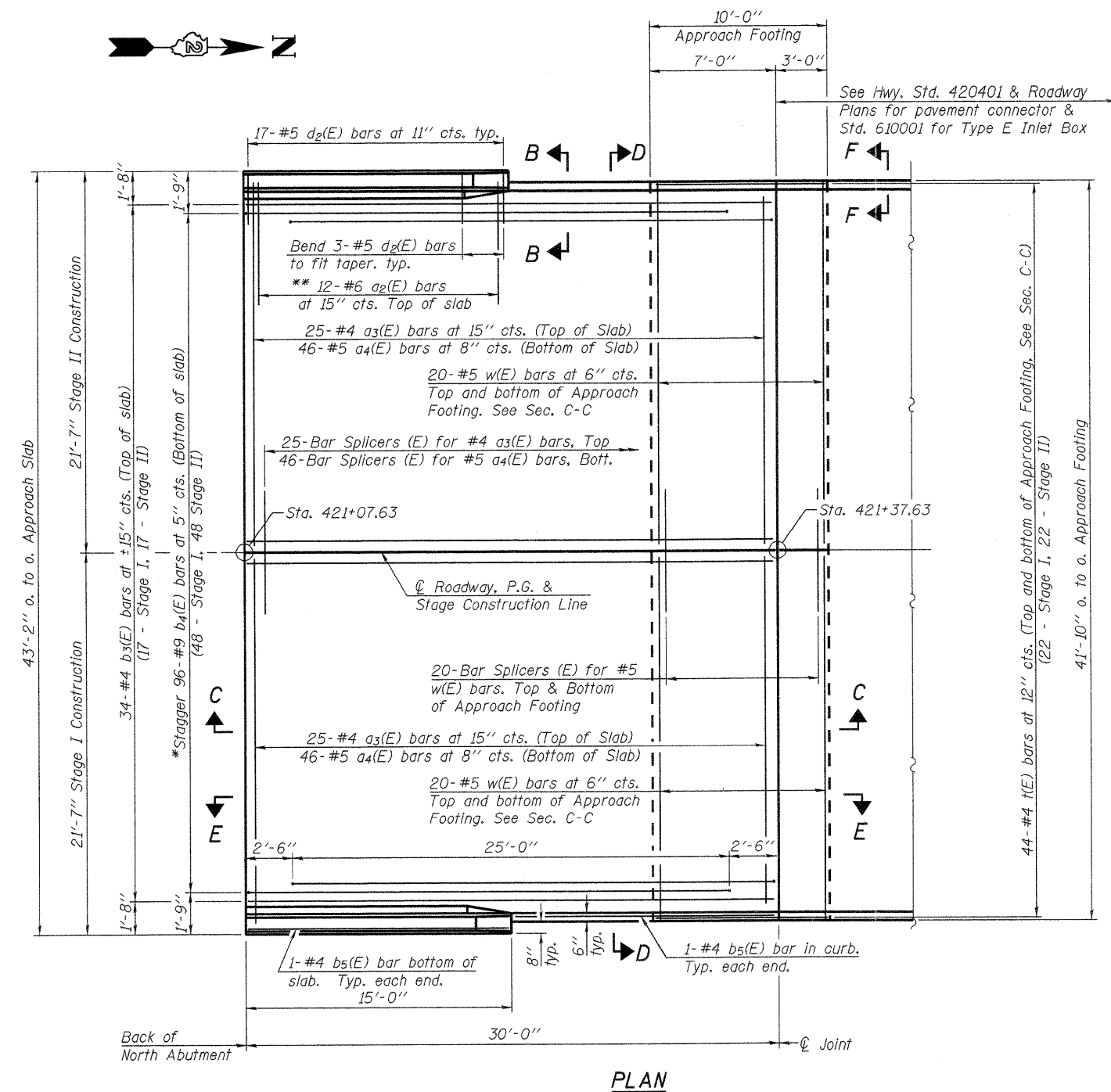
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 052-0080

SHEET NO. 16 OF 32 SHEETS

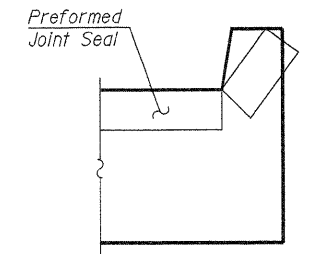
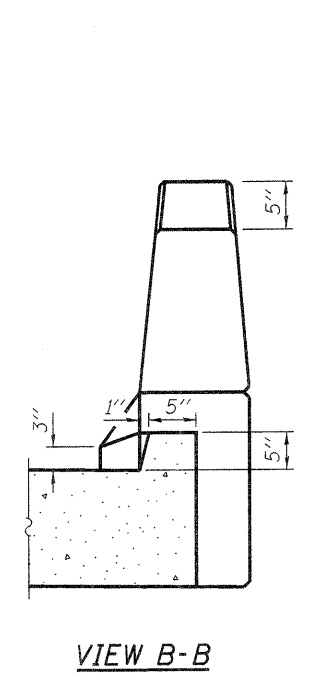
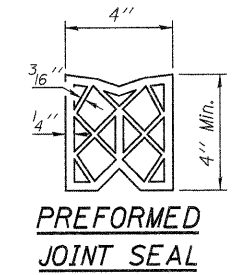
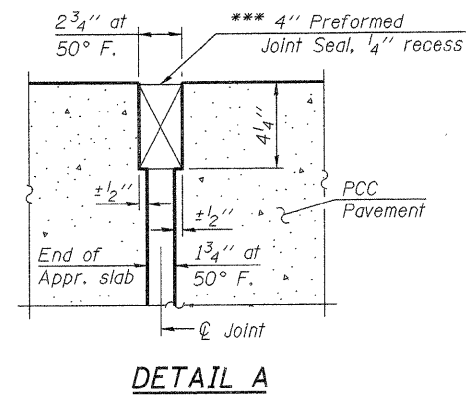
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	117
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

Notes:  
 See sheet 18 of 32 for Sections C-C & D-D and View E-E.  
 $a_3(E)$  and  $a_4(E)$  bar spacings measured along  $\varnothing$  Rdwy.



\* Tilt #9  $b_4(E)$  bars as required to maintain clearance.  
 \*\* Space between  $a_3(E)$  bars, typ. ea. parapet.

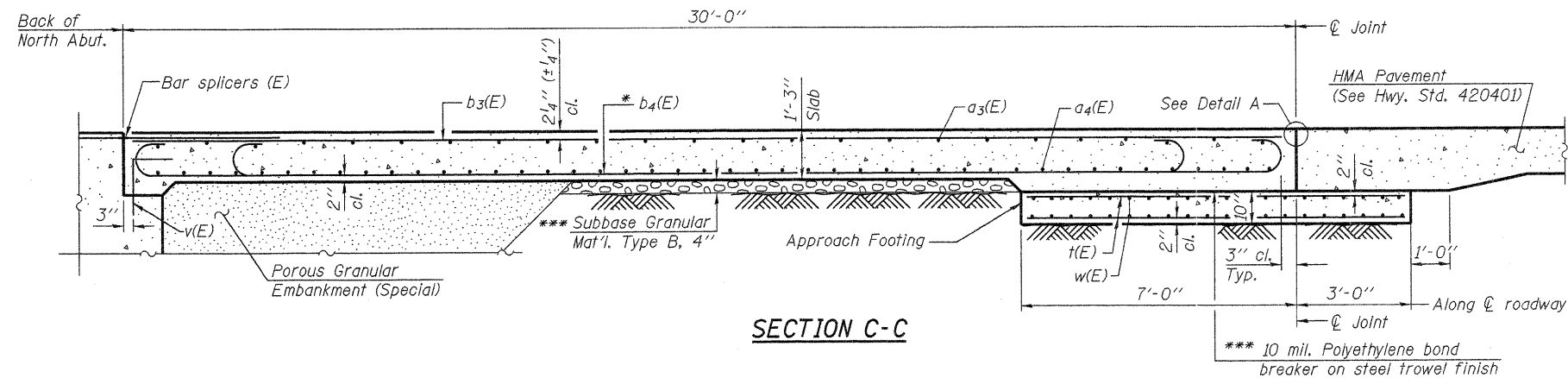
\*\*\*Cost included with Concrete Superstructure



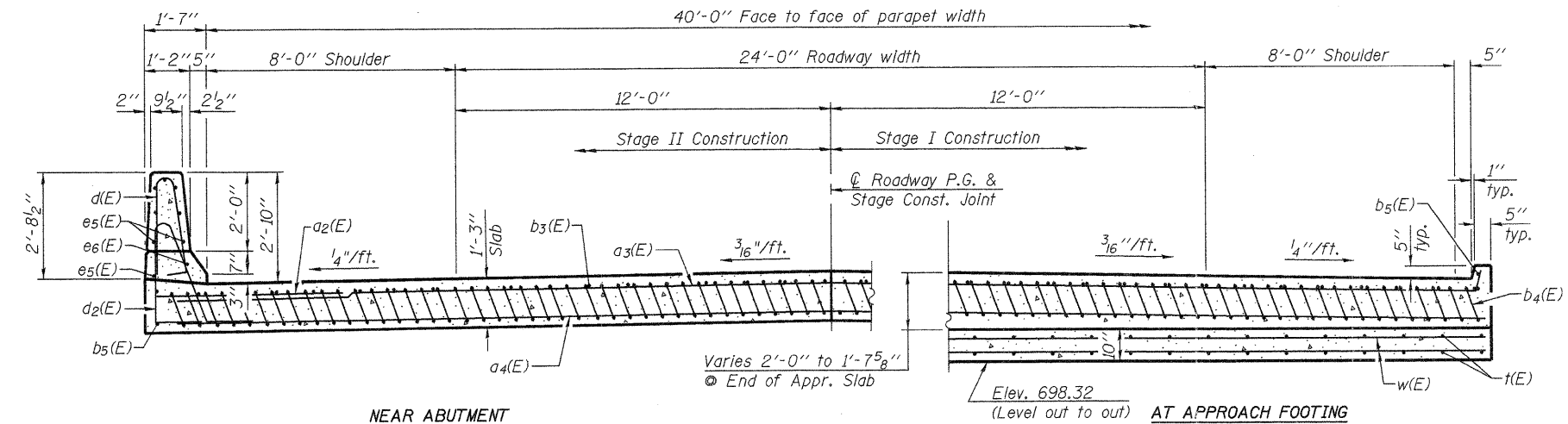
VIEW F-F  
 Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

BA-0 7-1-10

	FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>NORTH BRIDGE APPROACH SLAB DETAILS</b> <b>STRUCTURE NO. 052-0080</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -		316	102BR-5	LEE	216	118		
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -		CONTRACT NO. 64D57						
	PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -		ILLINOIS FED. AID PROJECT						



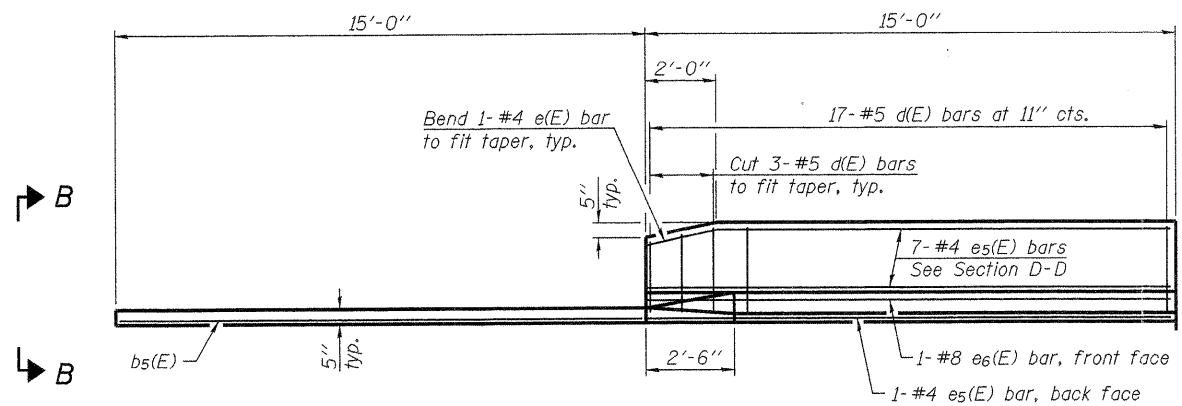
**SECTION C-C**



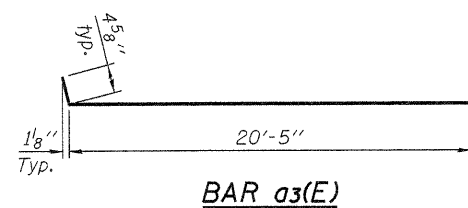
**NEAR ABUTMENT**

**SECTION D-D**

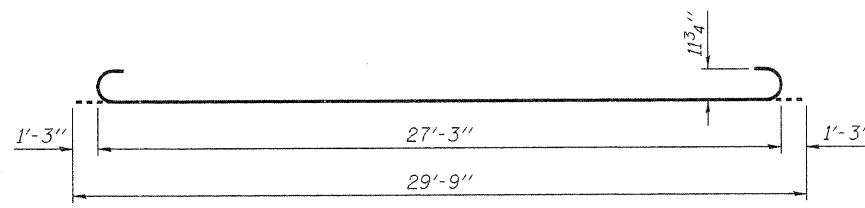
(Looking North)  
(See Plan on Sheet 17 of 32 for dimensions not shown)



**VIEW E-E**



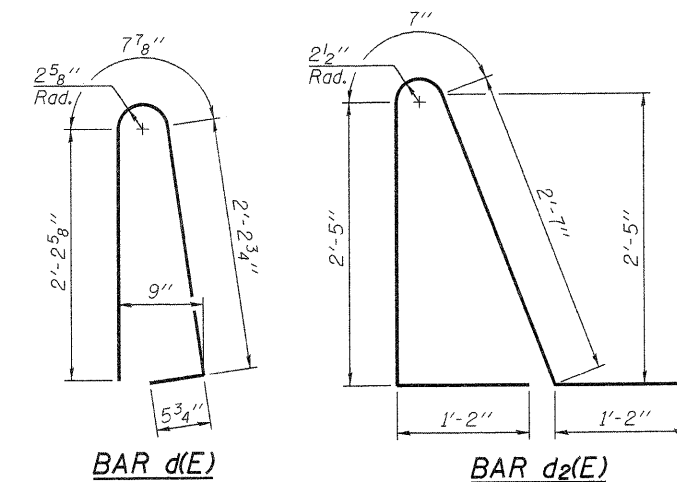
**BAR a3(E)**



**BAR b4(E)**

**Notes:**

See sheet 17 of 32 for Detail A and View B-B.  
Approach slab and parapet concrete 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.  
For v(E) bar details, see sheet 14 of 32.  
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
For bar splicer details, see sheet 28 of 32.  
Cost of excavation for approach footing included with Concrete Structures.  
For Porous Granular Embankment, Special and drainage treatment details, see sheet 2 of 32.  
For additional parapet details, see sheet 14 of 32.



**BAR d(E)**

**BAR d2(E)**

\* Tilt #9 b4(E) bars as required to maintain clearance.

\*\*\* Cost included with Concrete Superstructure.

**NORTH APPROACH  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	24	#6	6'-6"	
a3(E)	50	#4	20'-10"	
a4(E)	92	#5	20'-7"	
b3(E)	34	#4	29'-8"	
b4(E)	96	#9	29'-9"	
b5(E)	4	#4	14'-8"	
d(E)	34	#5	5'-7"	
d2(E)	34	#5	7'-11"	
e5(E)	16	#4	14'-8"	
e6(E)	2	#8	14'-8"	
t(E)	88	#4	9'-8"	
w(E)	80	#5	20'-7"	
Concrete Superstructure			Cu. Yd.	69.7
Concrete Structures			Cu. Yd.	12.9
Reinforcement Bars, Epoxy Coated			Pound	16,330

BA-0

7-1-10

**Fehr-Graham & Associates, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS

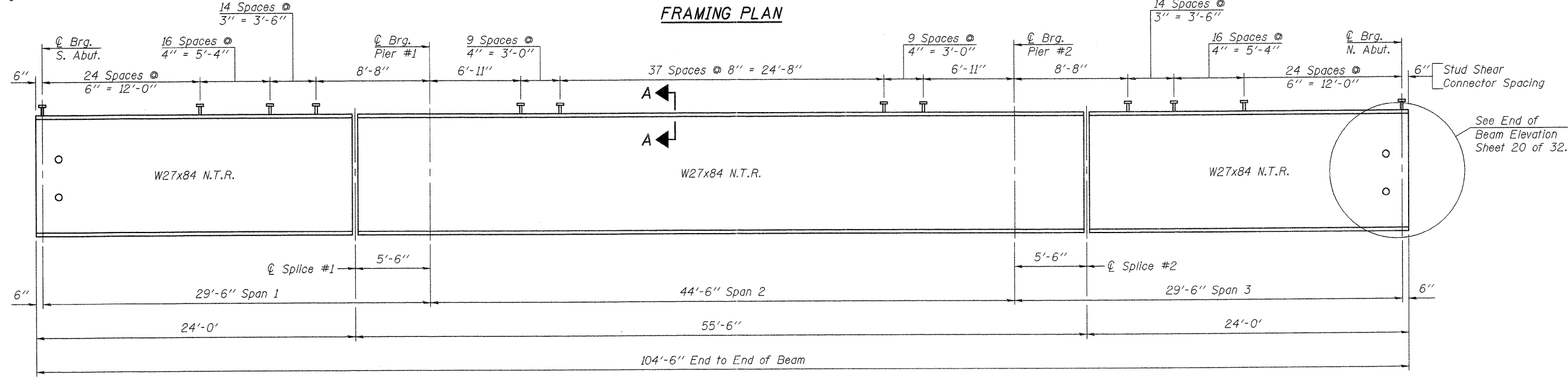
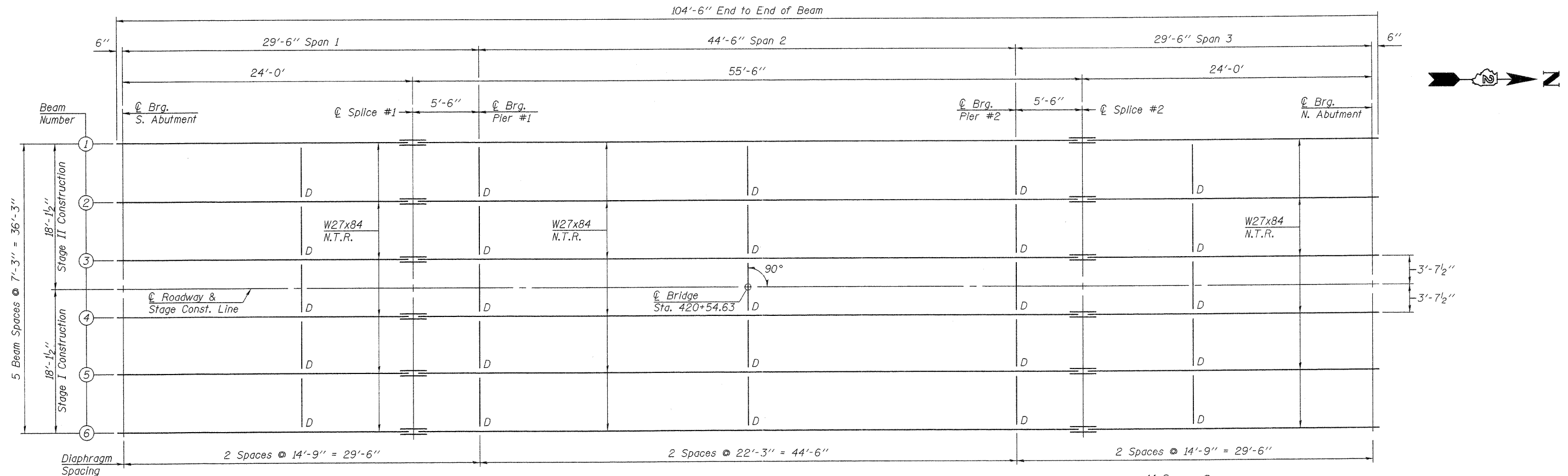
FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 052-0080**

SHEET NO. 18 OF 32 SHEETS

F.A.P. RTE. 316	SECTION 102BR-5	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 119
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

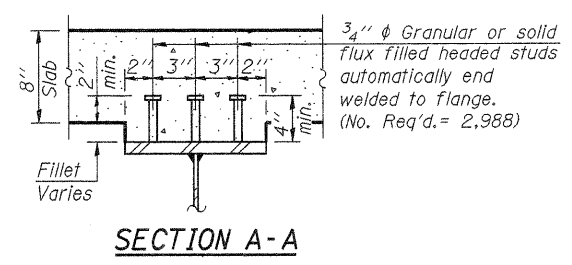


Note: N.T.R. Indicates that Notch Toughness Requirements are applicable.

Note: See Sheet 20 of 32 for Splice Details.

TOP OF BEAM ELEVATIONS  
(For Fabrication Only)

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
℄ Brg. S. Abut.	700.80	700.95	701.06	701.06	700.95	700.80
℄ Splice #1	700.61	700.76	700.87	700.87	700.76	700.61
℄ Brg. Pier #1	700.58	700.73	700.84	700.84	700.73	700.58
℄ Brg. Pier #2	700.36	700.51	700.62	700.62	700.51	700.36
℄ Splice #2	700.33	700.48	700.59	700.59	700.48	700.33
℄ Brg. N. Abut.	700.28	700.43	700.54	700.54	700.43	700.28



All structural steel shall be AASHTO M 270 Grade 50W.

Load carrying components designated "N.T.R." shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
$I_s$	(in <sup>4</sup> )	2,850	2,850	2,850
$I_c(n)$	(in <sup>4</sup> )	9,235	---	9,235
$I_c(3n)$	(in <sup>4</sup> )	7,054	---	7,054
$S_s$	(in <sup>3</sup> )	213	213	213
$S_c(n)$	(in <sup>3</sup> )	340	---	340
$S_c(3n)$	(in <sup>3</sup> )	309	---	309
$Z$	(in <sup>3</sup> )	---	244	---
DC1	(k/ft)	0.836	0.836	0.836
M <sub>DC1</sub>	(k)	38	123	83
DC2	(k/ft)	0.155	0.155	0.155
M <sub>DC2</sub>	(k)	9	19	21
DW	(k/ft)	0.333	0.333	0.333
M <sub>DW</sub>	(k)	20	39	44
M <sub>ℓ + IM</sub>	(k)	312	217	453
M <sub>u</sub> (Strength I)	(k)	635	616	989
* $\phi_r M_n, \phi_r M_{nc}$	(k)	1,749	---	1,749
$f_s$ DC1	(ksi)	2.2	7.0	4.7
$f_s$ DC2	(ksi)	0.4	1.1	0.9
$f_s$ DW	(ksi)	0.8	2.2	1.8
$f_s$ 1.3(ℓ+IM)	(ksi)	14.4	15.9	20.8
$f_s$ (Service II)	(ksi)	17.8	26.2	28.2
** $f_s$ (Total)(Strength I)	(ksi)	---	34.9	---
V <sub>f</sub>	(k)	36.2	---	35.4

\* Compact sections  
 \*\* Non-Compact and slender sections

INTERIOR BEAM REACTION TABLE			
	Abuts.	Pier 1 & 2	
R <sub>DC1</sub>	(k)	8.1	34.9
R <sub>DC2</sub>	(k)	1.7	6.4
R <sub>DW</sub>	(k)	3.6	13.7
R <sub>ℓ + IM</sub>	(k)	53.4	84.9
R <sub>Total</sub>	(k)	66.8	139.9

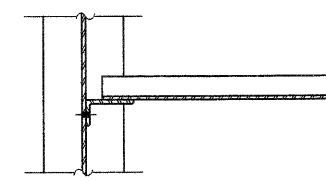
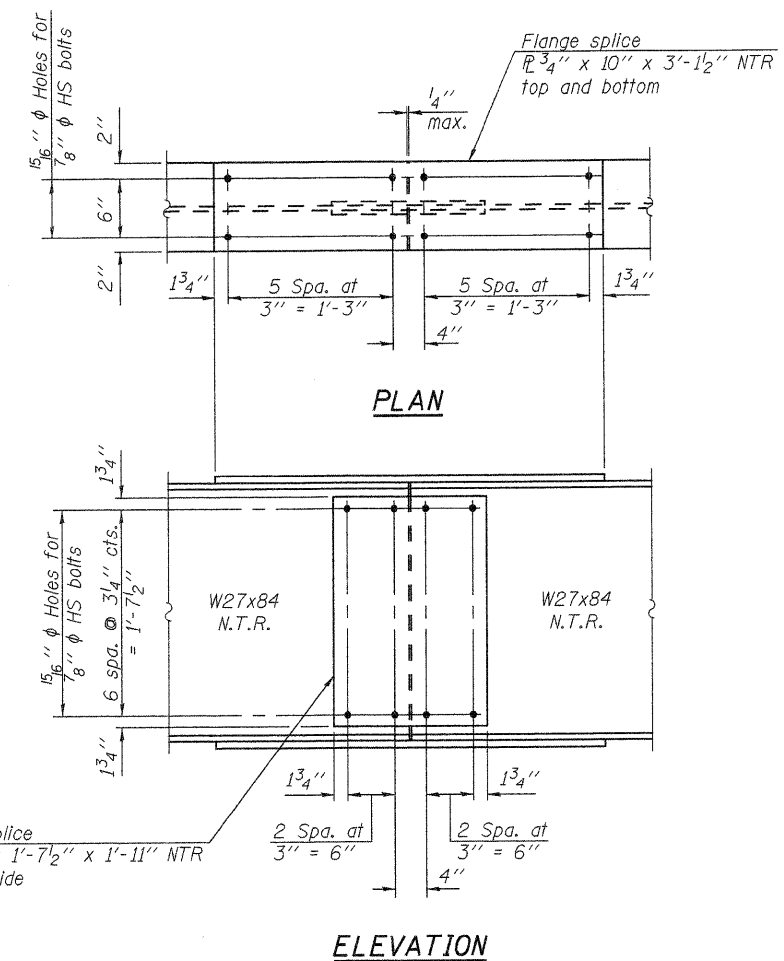
$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

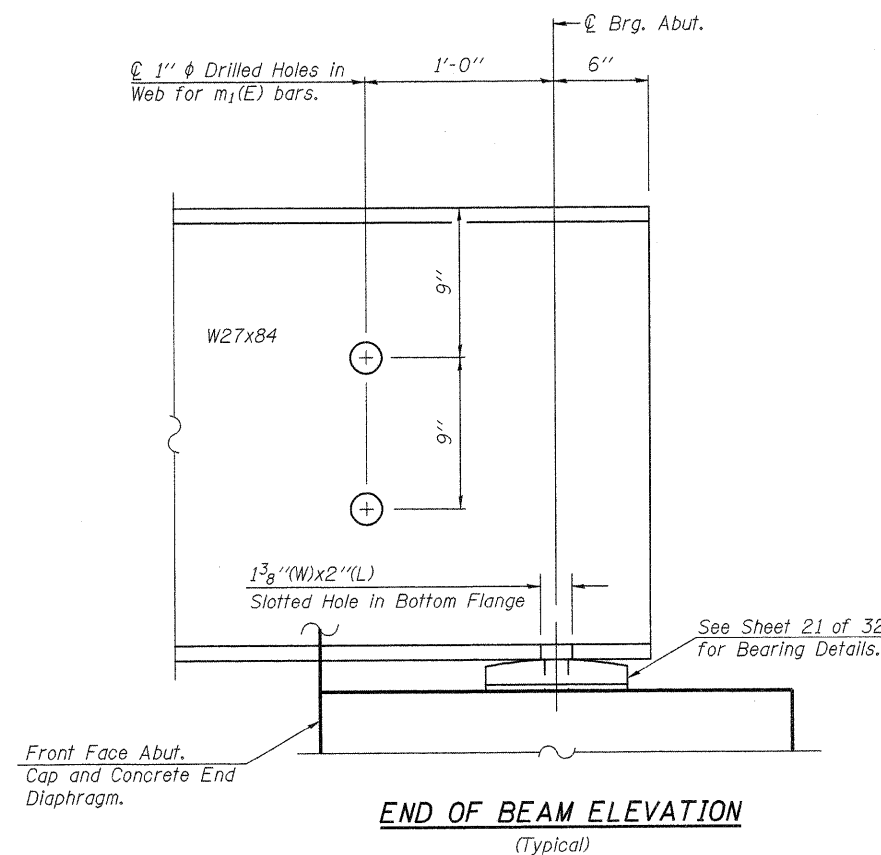
$I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

Z: Plastic Section Modulus of the steel section in non-composite areas.

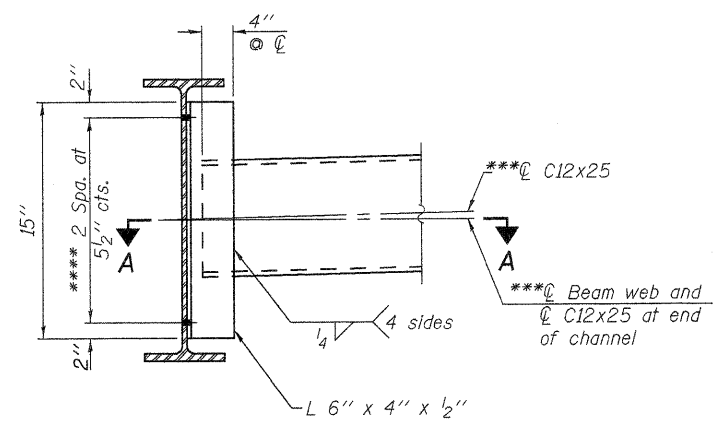
DC1: Un-factored non-composite dead load (kips/ft.).  
 M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).  
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 M<sub>DC2</sub>: Un-factored moment due to long-term composite (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<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 M<sub>ℓ + IM</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
 M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}$   
 $\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).  
 $\phi_r M_{nc}$ : Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).  
 $f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).  
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{ℓ + IM}$   
 $f_s$  (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}$   
 V<sub>f</sub>: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



SECTION A-A



END OF BEAM ELEVATION  
(Typical)

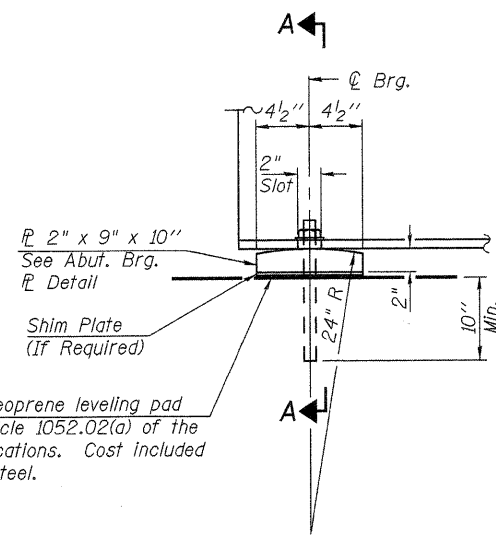


INTERIOR DIAPHRAGM - D  
(25 Req'd.)

Note:  
 Two hardened washers required for each set of oversized holes.  
 \*\*\*Alternate channels C12x30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.  
 \*\*\*\*3/4 inch diameter HS bolts, 15/16 inch diameter holes

SPLICE DETAIL  
(12 Required)

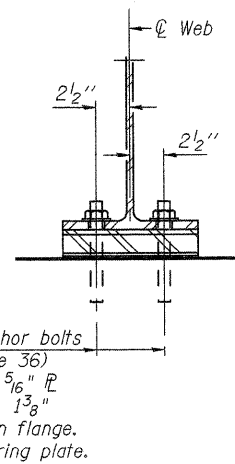
Work this Sheet with Sheets 19 & 21 of 32.



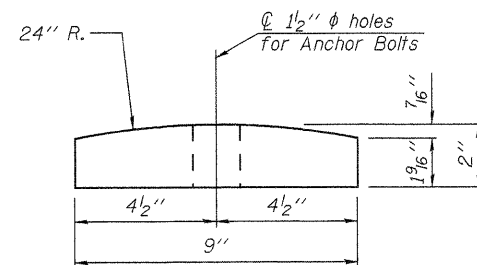
**ELEVATION AT ABUTMENTS**

**ABUTMENT BEARING DETAILS**

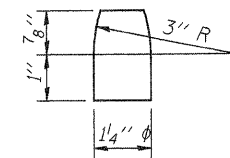
(12 Required)  
Weight included with Structural Steel.



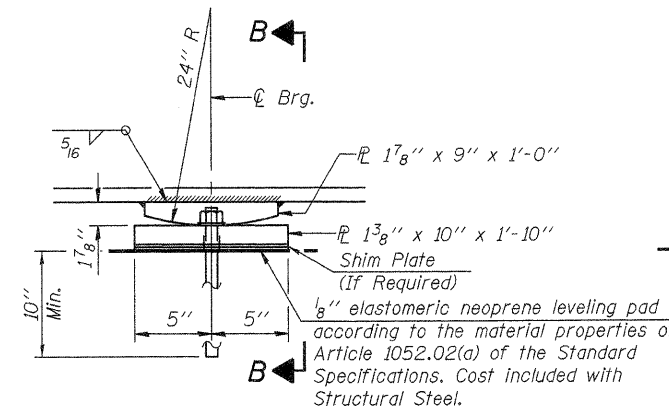
**SECTION A-A**



**ABUTMENT BEARING PLATE DETAIL**



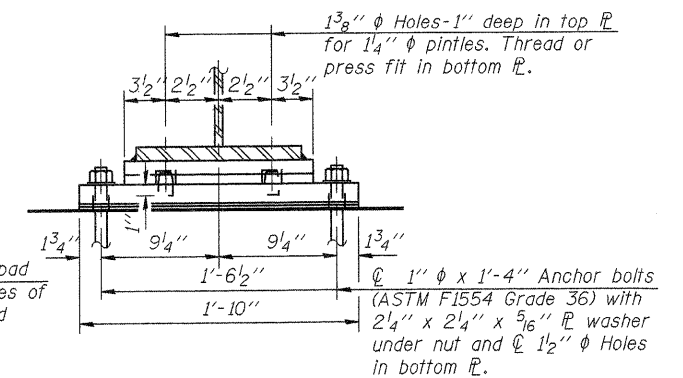
**PINTLE**



**ELEVATION AT PIERS 1 & 2**

**PIER BEARING DETAILS**

(12 Required)  
Weight included with Structural Steel.



**SECTION B-B**

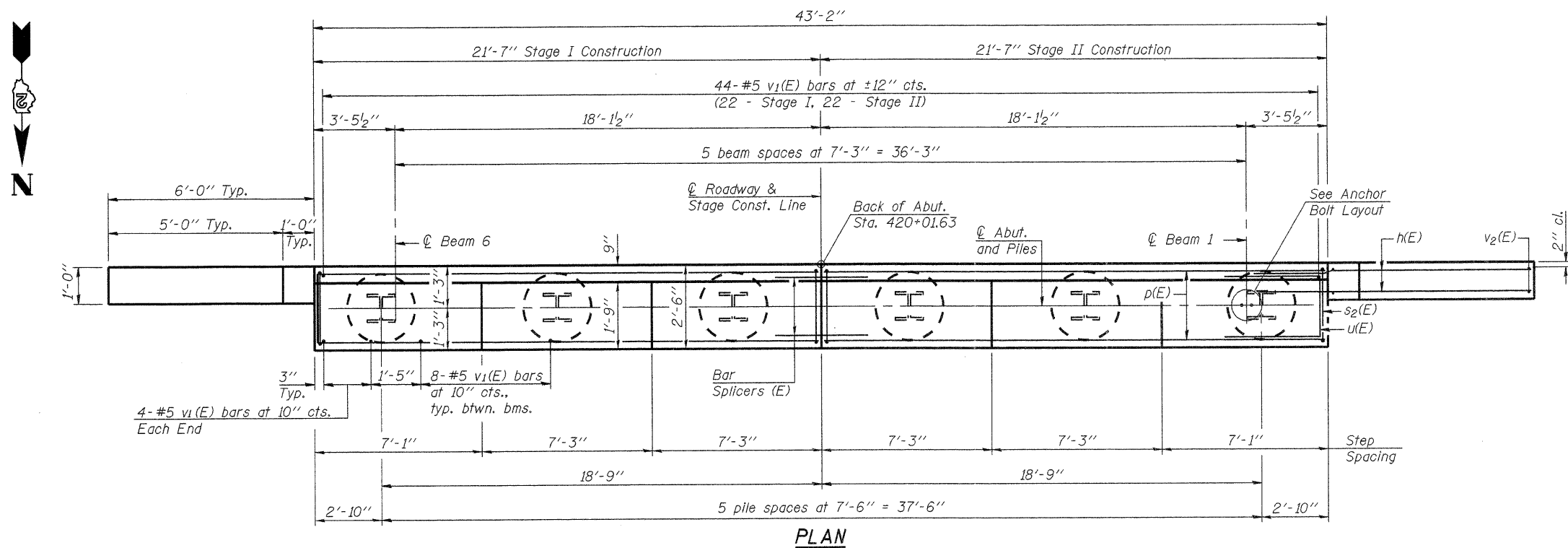
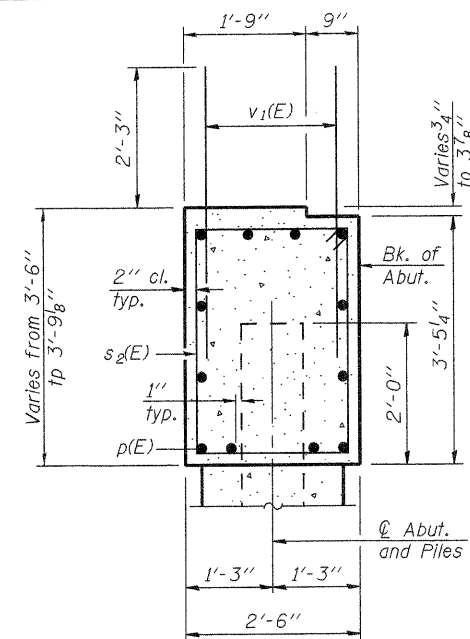
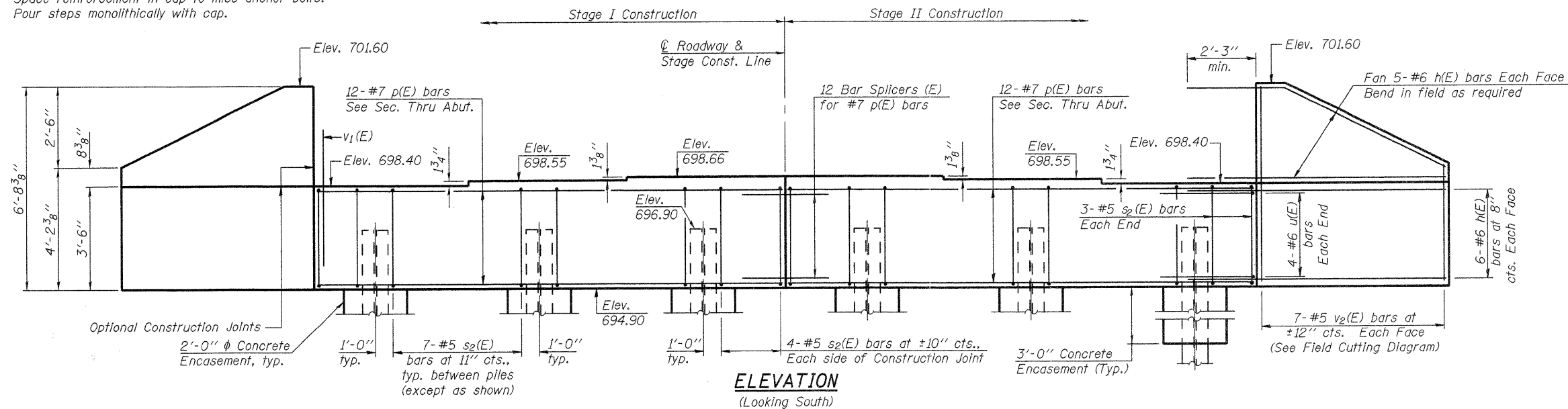
Notes: Two 1/8 inch adjusting shims, of the dimension of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.  
Anchor bolts shall be ASTM F1554 Grade 36, all-thread of the diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Anchor bolts at piers may be either cast in place or installed in holes drilled after the supported member is in place.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Pintles and structural steel plates of the Bearing Assemblies shall conform to the requirements of AASHTO M270 Grade 50W.

**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1"	Each	48

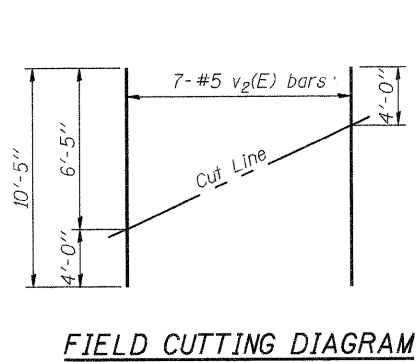
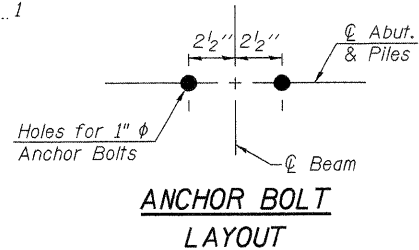
Work this Sheet with Sheets 19 & 20 of 32.

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Four steps monolithically with cap.

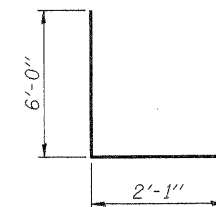
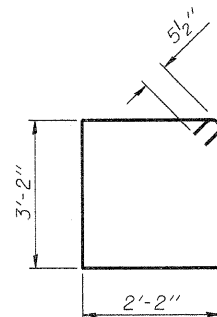


**PILE DATA**

Type: HP12x53  
 Nominal Required Bearing: 240 k  
 Factored Resistance Available: 132 k  
 Est. Length: 55 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1



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



**SOUTH ABUTMENT BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	44	#6	8'-9"	—
p(E)	24	#7	21'-3"	—
s2(E)	42	#5	11'-7"	□
u(E)	8	#6	14'-1"	□
v1(E)	92	#5	4'-6"	—
v2(E)	14	#5	10'-5"	—
Structure Excavation		Cu. Yd.	149	
Concrete Structures		Cu. Yd.	16.8	
Reinforcement Bars, Epoxy Coated		Pound	2,880	
Furnishing Steel Piles, HP12x53		Foot	275	
Driving Piles		Foot	275	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

For details of Bar Splicers, see sheet 28 of 32.  
 For details of piles and Concrete Encasement, see sheet 27 of 32.

AI-0 7-1-10



FILE NAME = 0520080-64057.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

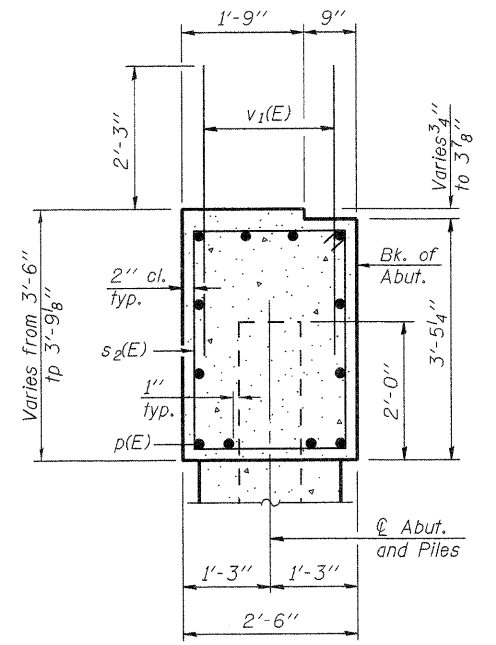
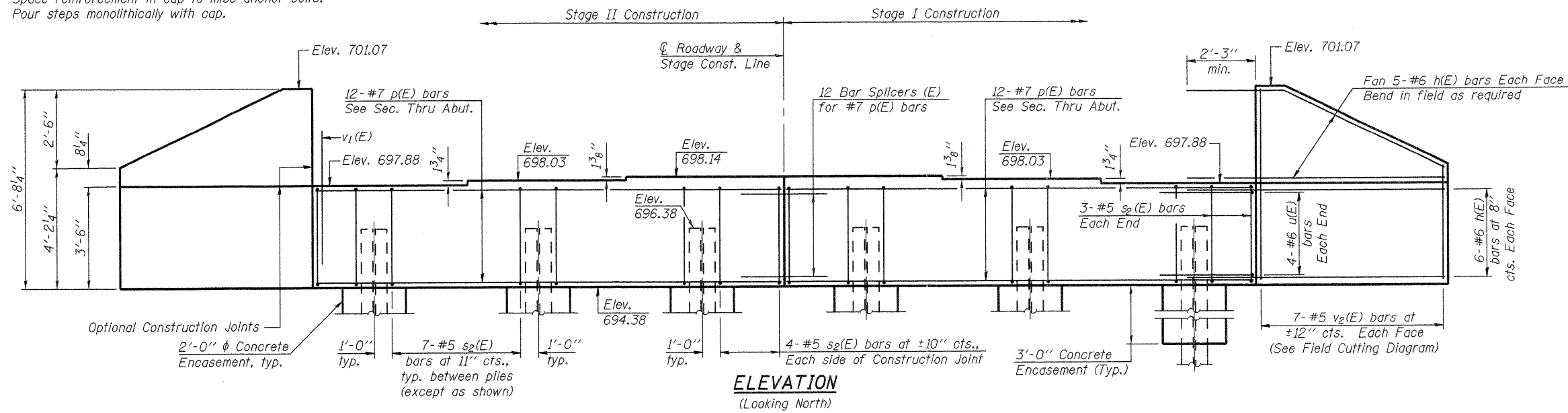
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT  
 STRUCTURE NO. 052-0080**

SHEET NO. 22 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	123
CONTRACT NO. 64057				
ILLINOIS FED. AID PROJECT				

Notes:  
Space reinforcement in cap to miss anchor bolts.  
Four steps monolithically with cap.

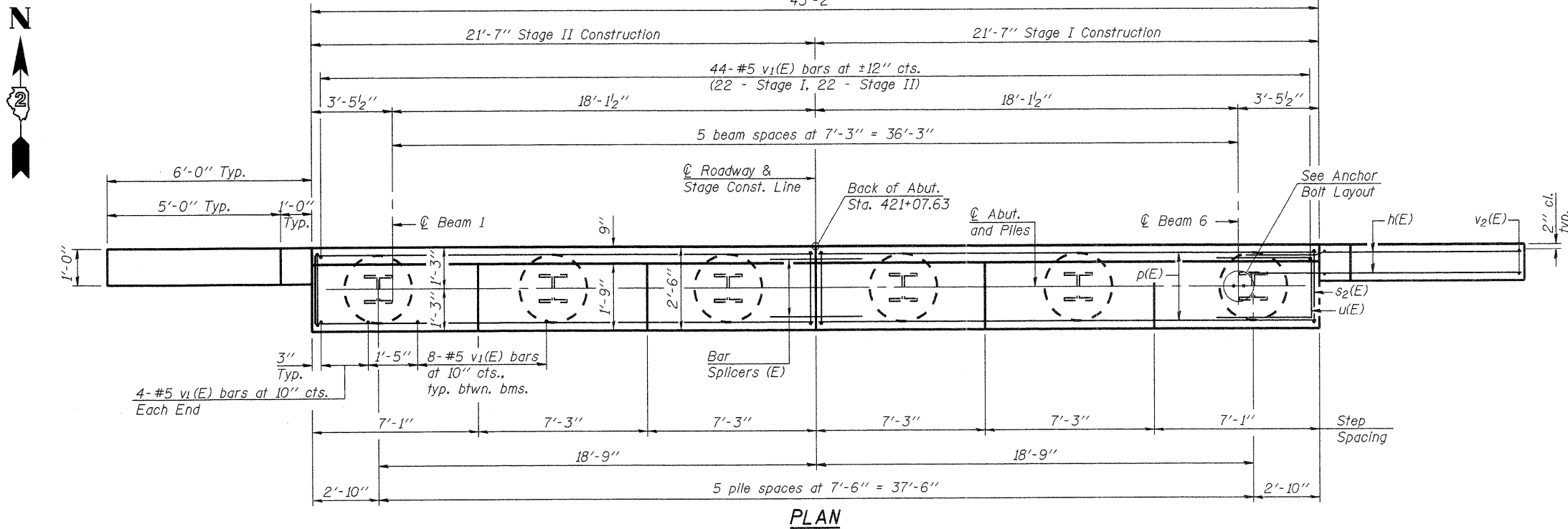


SEC. THRU ABUT.

**NORTH ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	44	#6	8'-9"	—
p(E)	24	#7	21'-3"	—
s <sub>2</sub> (E)	42	#5	11'-7"	□
u(E)	8	#6	14'-1"	—
v <sub>1</sub> (E)	92	#5	4'-6"	—
v <sub>2</sub> (E)	14	#5	10'-5"	—
Structure Excavation		Cu. Yd.	149	
Concrete Structures		Cu. Yd.	16.8	
Reinforcement Bars, Epoxy Coated		Pound	2,880	
Furnishing Steel Piles, HP12x53		Foot	200	
Driving Piles		Foot	200	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

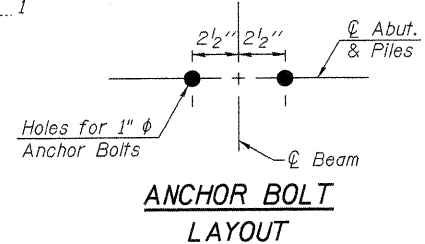
For details of Bar Splicers, see sheet 28 of 32.  
For details of piles and Concrete Encasement, see sheet 27 of 32.



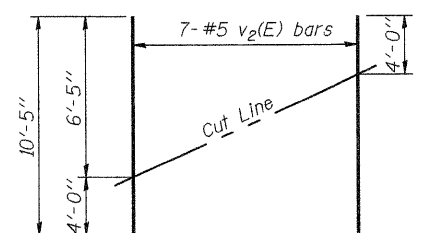
PLAN

**PILE DATA**

Type: HP12x53  
Nominal Required Bearing: 240 k  
Factored Resistance Available: 132 k  
Est. Length: 40 ft.  
No. Production Piles: 5  
No. Test Piles: 1

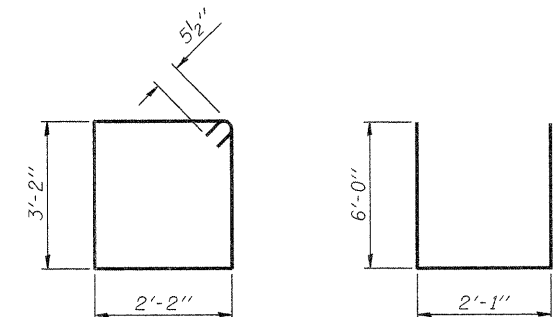


ANCHOR BOLT LAYOUT



FIELD CUTTING DIAGRAM

Order v<sub>2</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s<sub>2</sub>(E)

BAR u(E)

AI-0 7-1-10

**FEHR-GRAHAM & ASSOCIATES, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 0520089-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

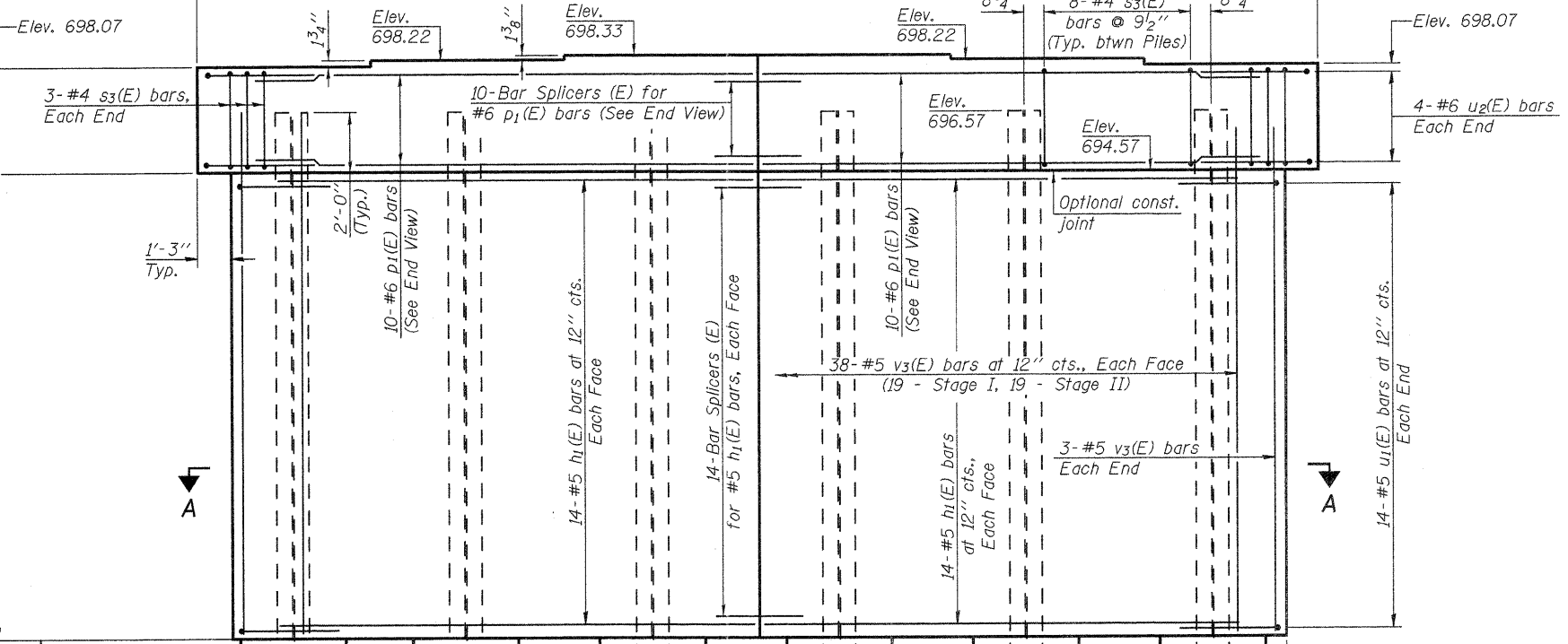
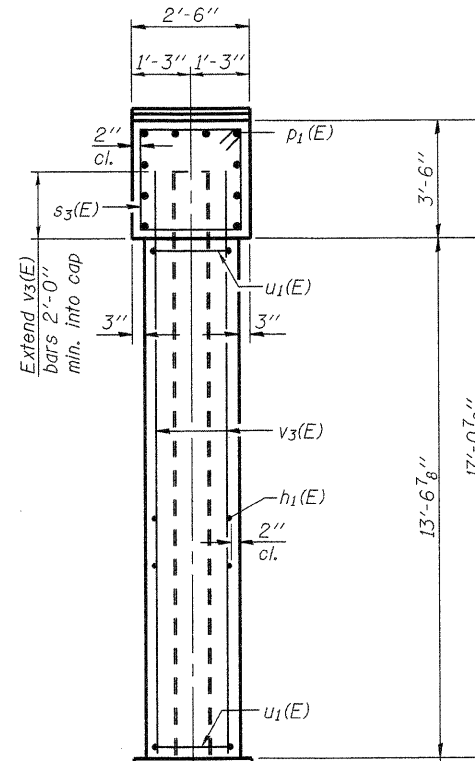
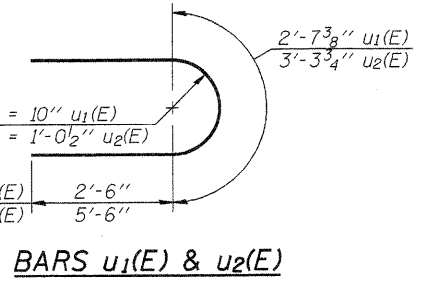
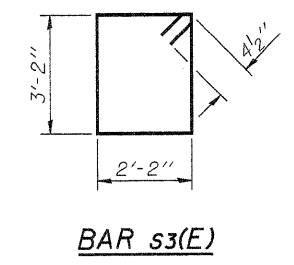
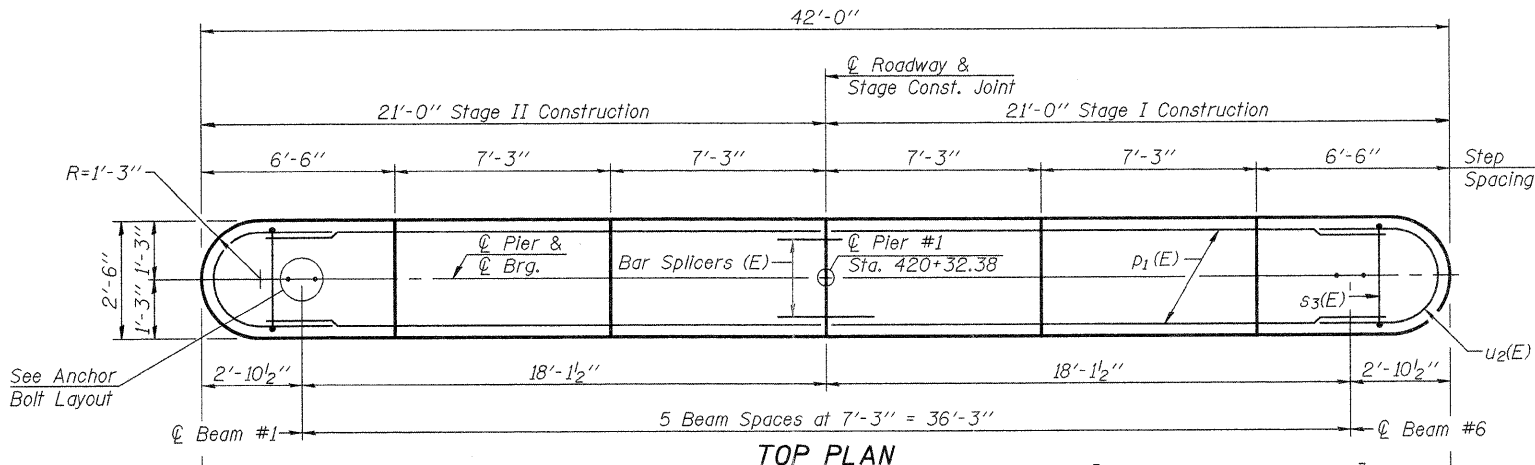
**NORTH ABUTMENT  
STRUCTURE NO. 052-0080**

SHEET NO. 23 OF 32 SHEETS

F.A.P. RTE. 316	SECTION 102BR-5	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 124
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	



Notes:  
 If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.  
 Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.  
 For details of piles and concrete encasement, see sheet 27 of 32.

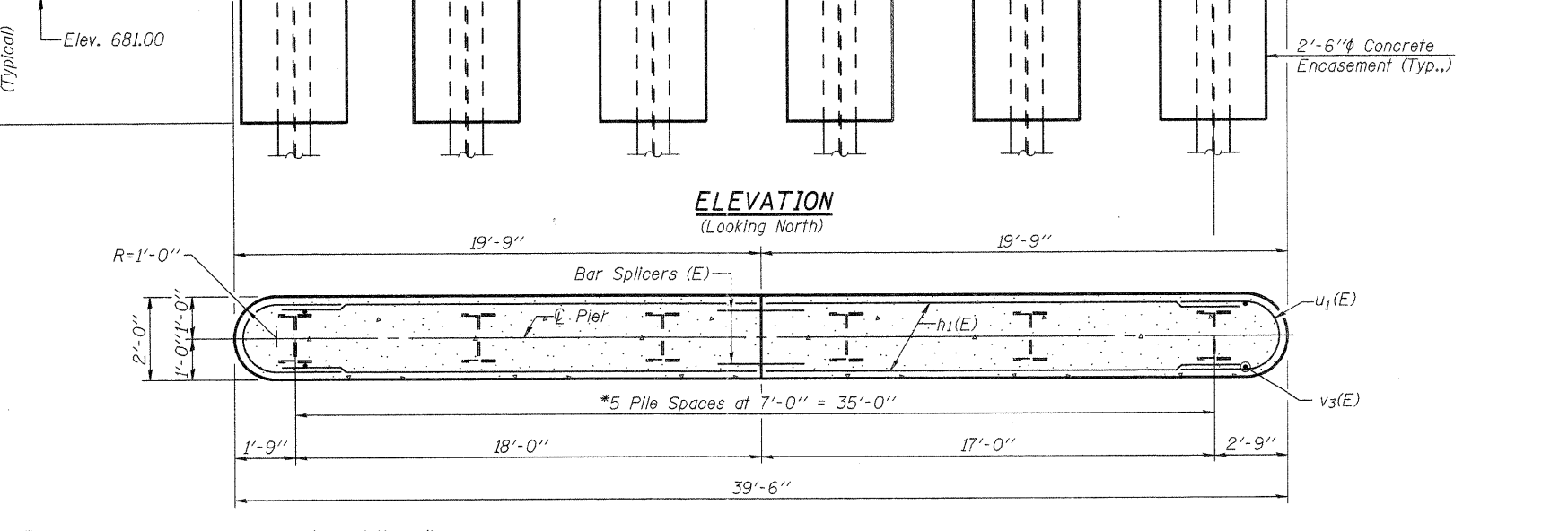
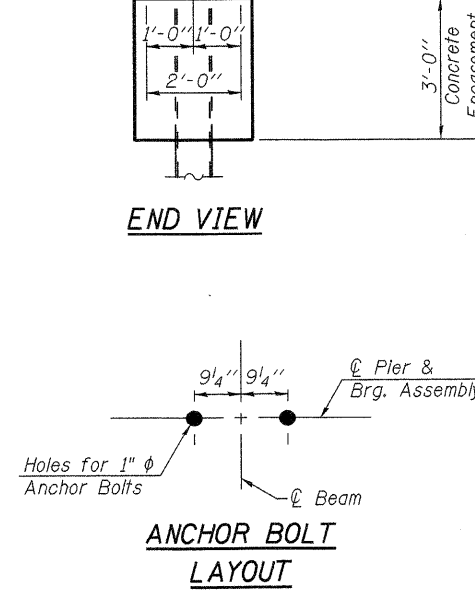


**PILE DATA**

Type: HP14x73  
 Nominal Required Bearing: 435 k  
 Factored Resistance Available: 200 k  
 Est. Length: 60 ft.  
 No. Production Piles: 5  
 No. Test Piles: 1

**PIER #1  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	56	#5	18'-6"	—
p1(E)	20	#6	19'-6"	—
s3(E)	46	#4	11'-5"	□
u1(E)	28	#5	7'-8"	U
u2(E)	8	#6	14'-3"	U
v3(E)	82	#5	15'-6"	—
Structure Excavation		Cu. Yd.	57	
Concrete Structures		Cu. Yd.	53.3	
Reinforcement Bars, Epoxy Coated		Pound	3,740	
Furnishing Steel Piles HP14x73		Foot	300	
Driving Piles HP14x73		Foot	300	
Test Pile Steel HP14x73		Each	1	
Concrete Encasement		Cu. Yd.	3.3	
Underwater Structure Excavation Protection, Location 3		Each	1	

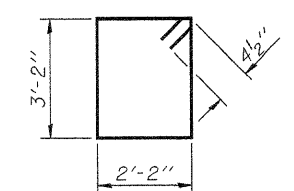
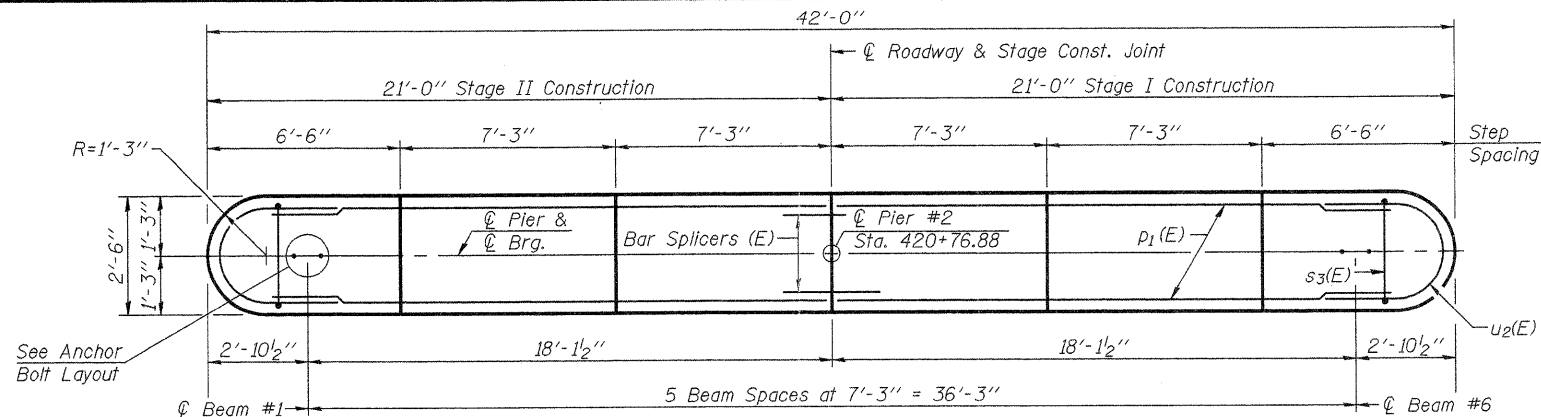


\*Note: Proposed piles spaced to miss existing piles. See sheet 26 or 32.

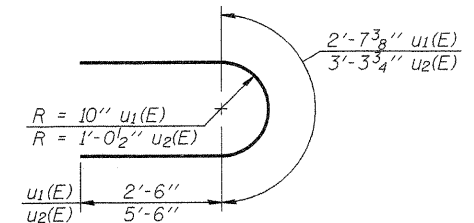
For details of Bar Splicers, See Sheet 28 of 32.

PC-1 7-1-10

Notes:  
 If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.  
 Space reinforcement in cap to miss anchor bolts. Four steps monolithically with cap.  
 For details of piles and concrete encasement, see sheet 27 of 32.



BAR s3(E)



BARS u1(E) & u2(E)

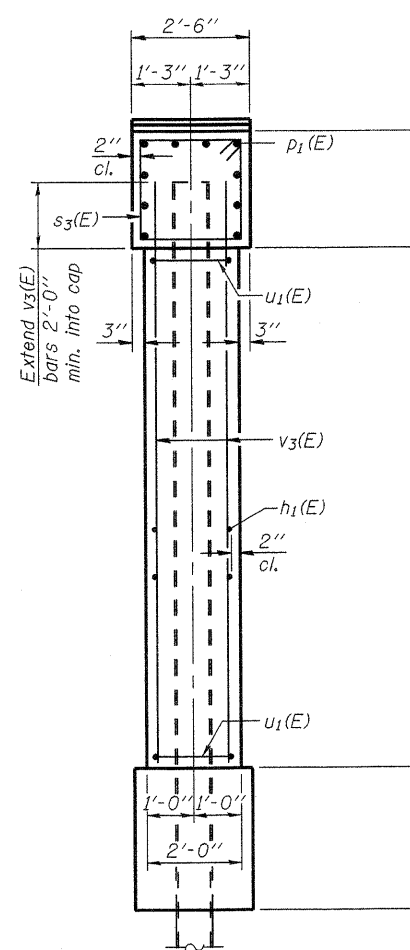
**PILE DATA**

Type:..... HP14x73  
 Nominal Required Bearing:..... 435 k  
 Factored Resistance Available:..... 200 k  
 Est. Length:..... 77 ft.  
 No. Production Piles:..... 5  
 No. Test Piles:..... 1

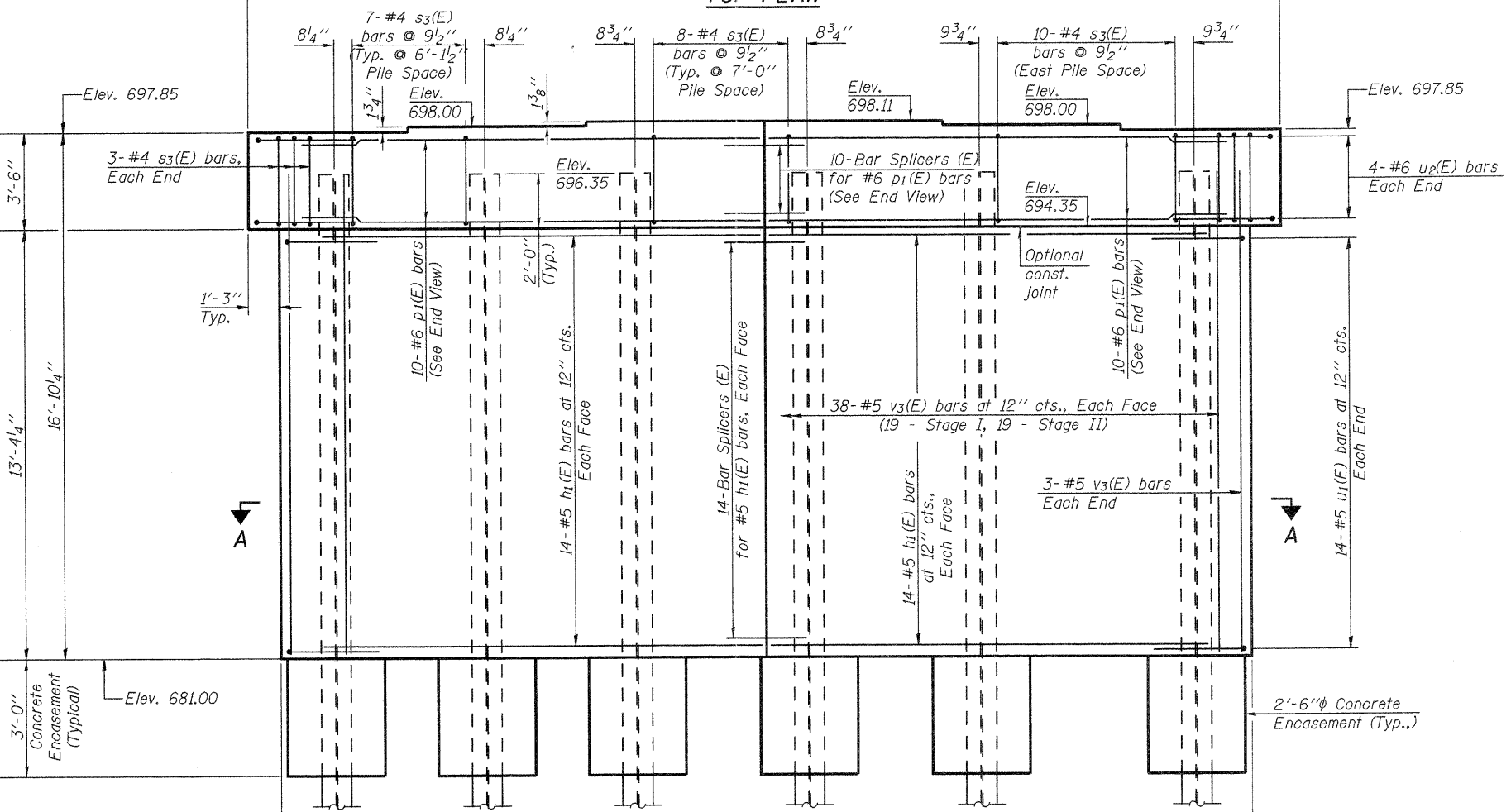
**PIER #2  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	56	#5	18'-6"	—
p1(E)	20	#6	19'-6"	—
s3(E)	46	#4	11'-5"	□
u1(E)	28	#5	7'-8"	U
u2(E)	8	#6	14'-3"	U
v3(E)	82	#5	15'-6"	—
Structure Excavation		Cu. Yd.	51	
Concrete Structures		Cu. Yd.	52.6	
Reinforcement Bars, Epoxy Coated		Pound	3,740	
Furnishing Steel Piles HP14x73		Foot	385	
Driving Piles		Foot	385	
Test Pile Steel HP14x73		Each	1	
Concrete Encasement		Cu. Yd.	3.3	
Underwater Structure Excavation Protection, Location 4		Each	1	

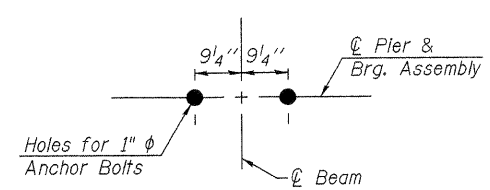
For details of Bar Splicers, See Sheet 28 of 32.



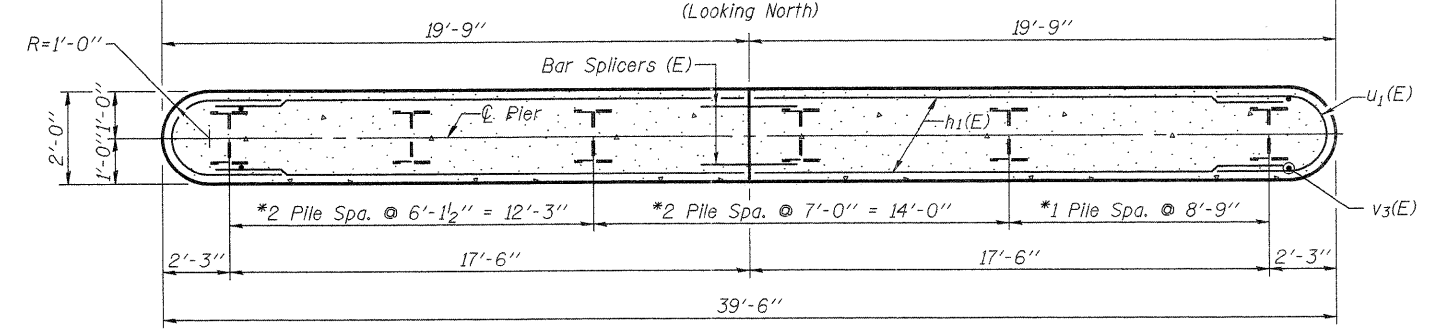
END VIEW



ELEVATION (Looking North)



ANCHOR BOLT LAYOUT



SECTION A-A

\*Note: Proposed piles spaced to miss existing piles. See sheet 26 of 32.

PC-1 7-1-10



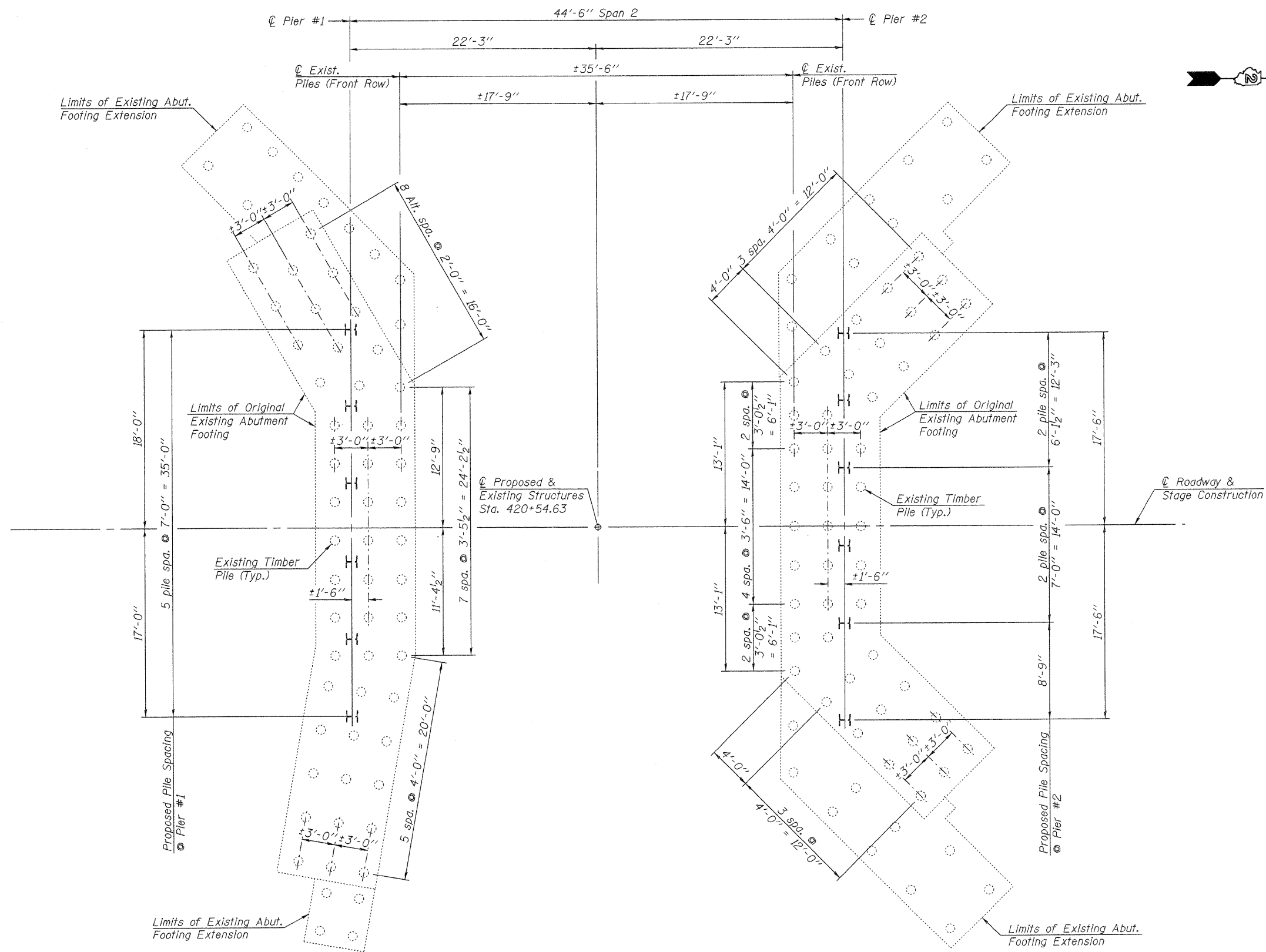
FILE NAME = 0520088-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/18/11	CHECKED - J.A.M. & A.R.K.	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER NO. 2  
 STRUCTURE NO. 052-0080

SHEET NO. 25 OF 32 SHEETS

F.A.P. RTE. 316	SECTION 102BR-5	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 126
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				



Notes:  
 Plan dimensions and details relative to existing piles and abutments are subject to construction variations. Such variations shall not be cause for additional compensation for a change in scope of work.

**PILE LOCATION PLAN AT PIERS**



FILE NAME = 0520080-64D57.DGN  
 USER NAME = S.A.P.  
 PLOT SCALE =  
 PLOT DATE = 08/10/11

DESIGNED - J.A.M.  
 CHECKED - A.R.K.  
 DRAWN - S.A.P.  
 CHECKED - J.A.M. & A.R.K.

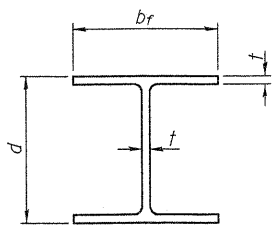
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PILE LOCATION PLAN AT PIERS  
 STRUCTURE NO. 052-0080

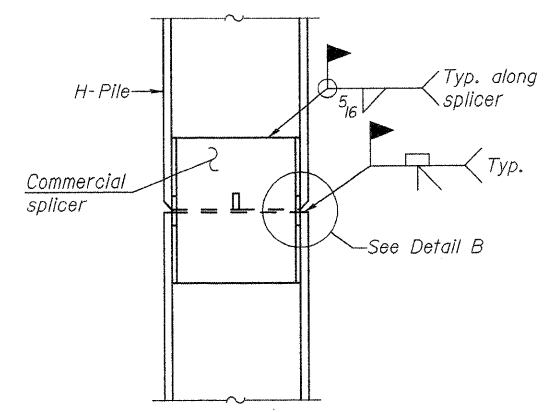
SHEET NO. 26 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	127
				CONTRACT NO. 64D57
ILLINOIS FED. AID PROJECT				

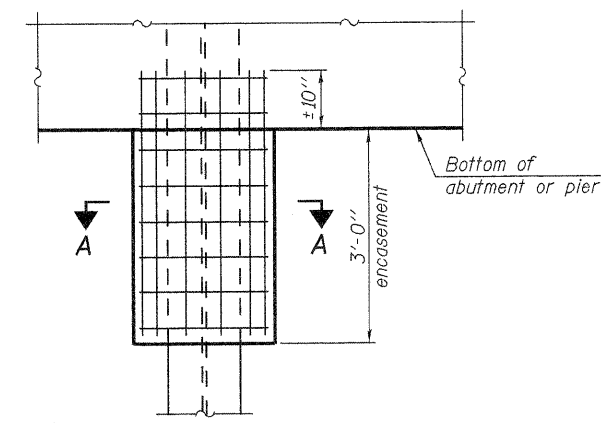


**STEEL PILE TABLE**

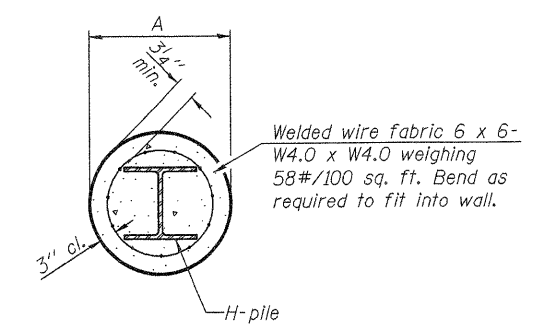
Designation	Depth d	Flange width b <sub>f</sub>	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/2"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/2"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"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



**ELEVATION**



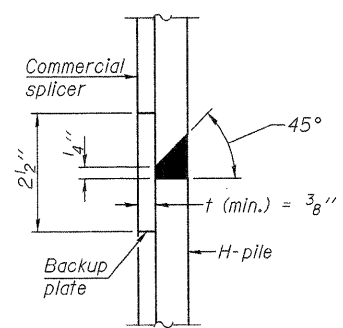
**ELEVATION**



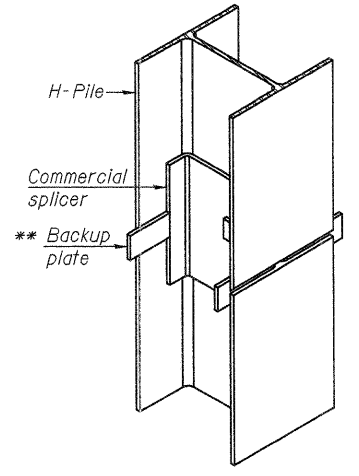
**SECTION A-A**

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

**PILE ENCASEMENT**

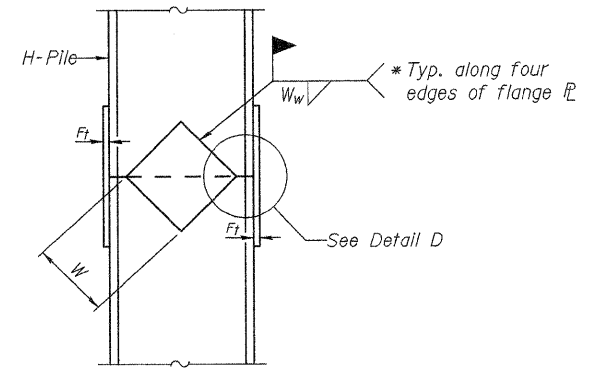


**DETAIL "B"**

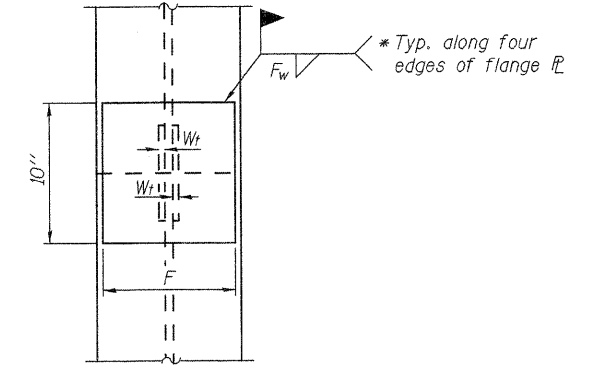


**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

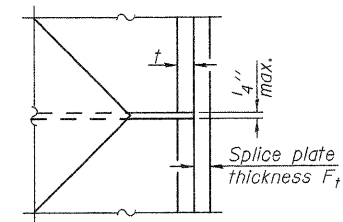


**ELEVATION**



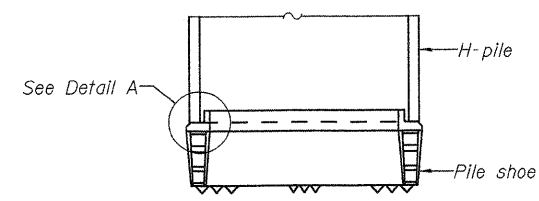
**END VIEW**

**DETAIL D**

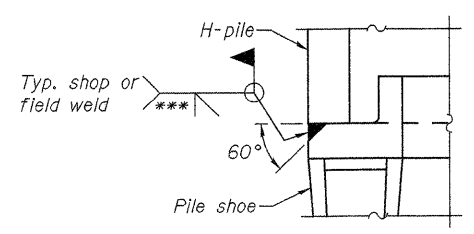


**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/2"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

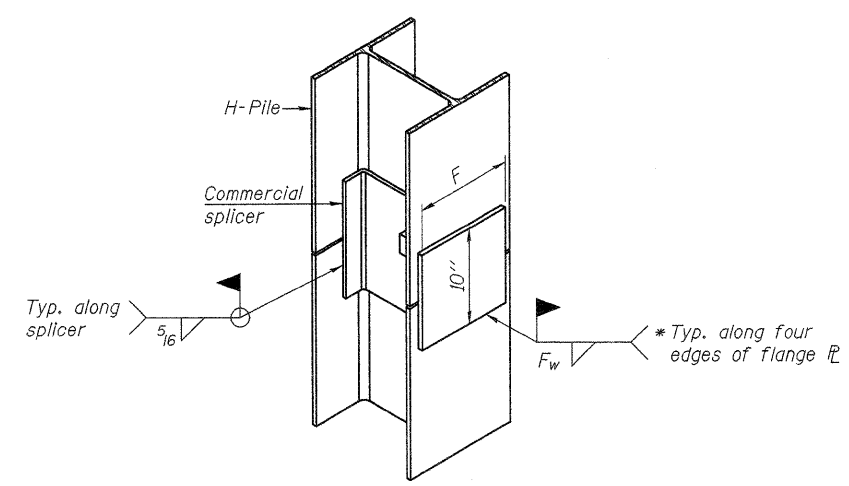


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



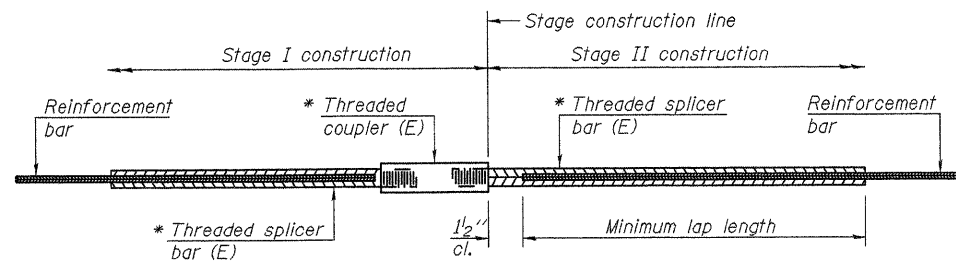
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

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

F-HP 7-1-10



**STANDARD BAR SPLICER ASSEMBLY**

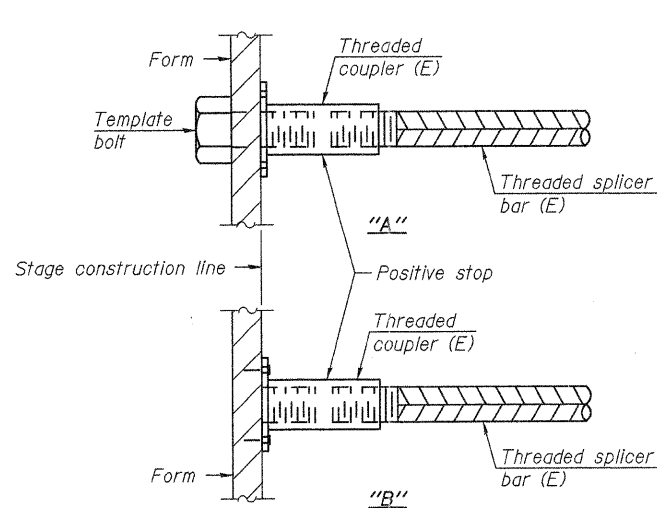
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

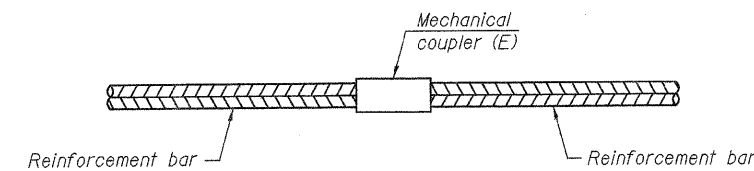
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	360	3
Appr. Slabs	#4	50	4
Appr. Slabs	#5	92	3
Appr. Slab Ftgs.	#5	80	3
Abut. Caps	#7	24	4
Abut Diaphragms	#6	16	4
Pier Caps	#6	20	4
Pier Enc. Wall	#5	56	4



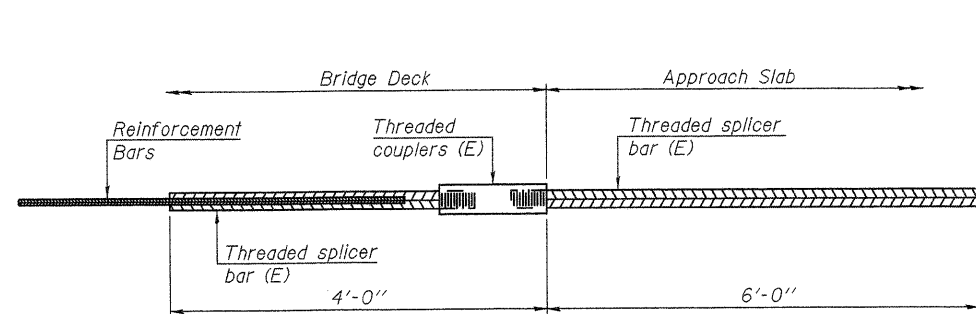
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



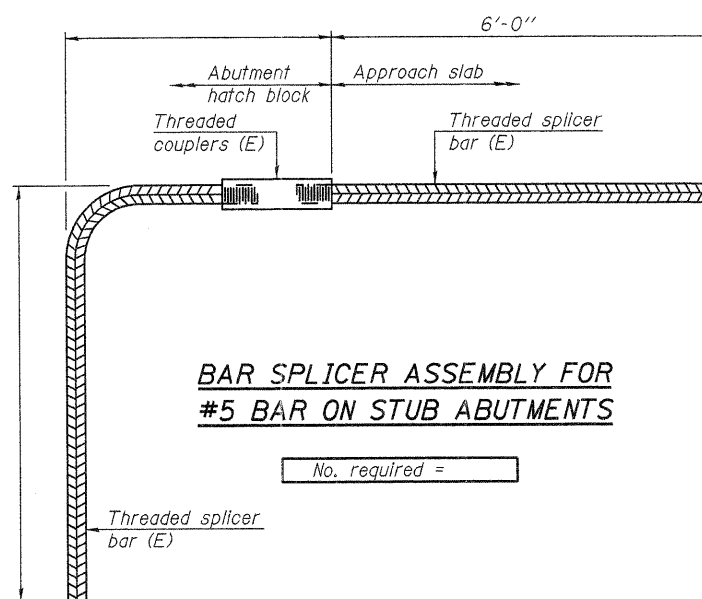
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 88



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See special provision for Mechanical Splicers.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10



FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

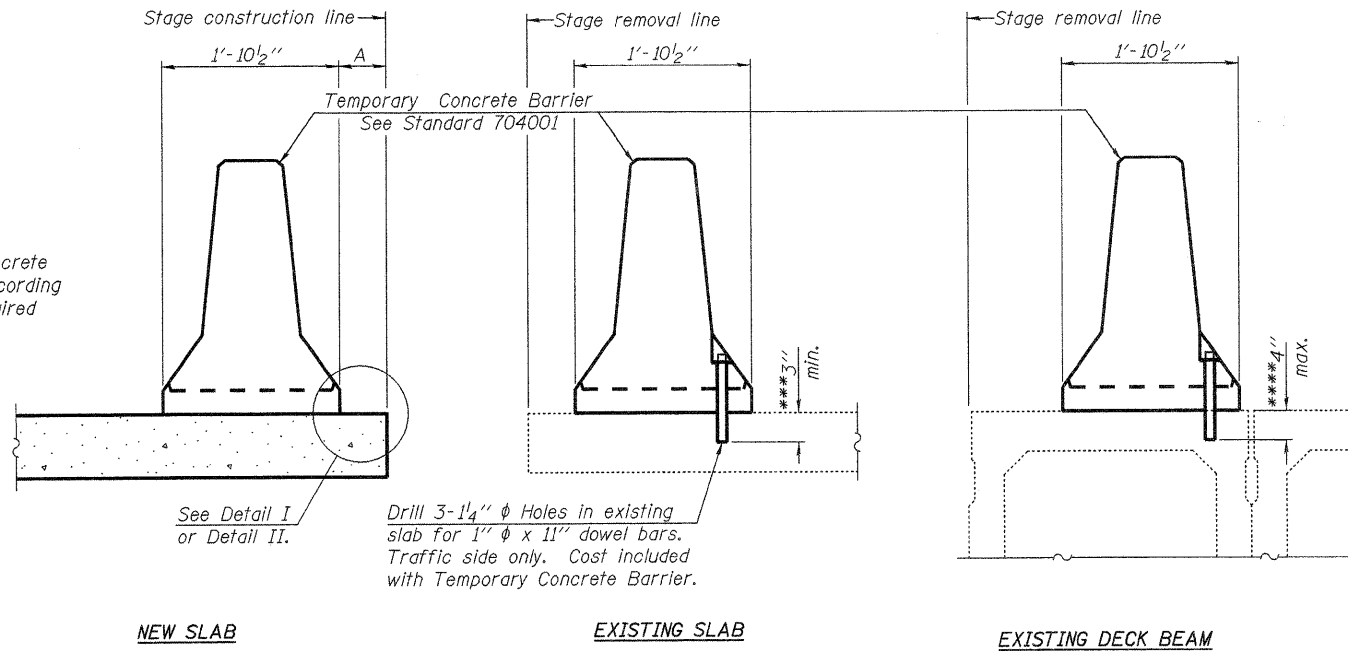
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 052-0080

SHEET NO. 28 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	129
			CONTRACT NO. 64D57	
[ILLINOIS] FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

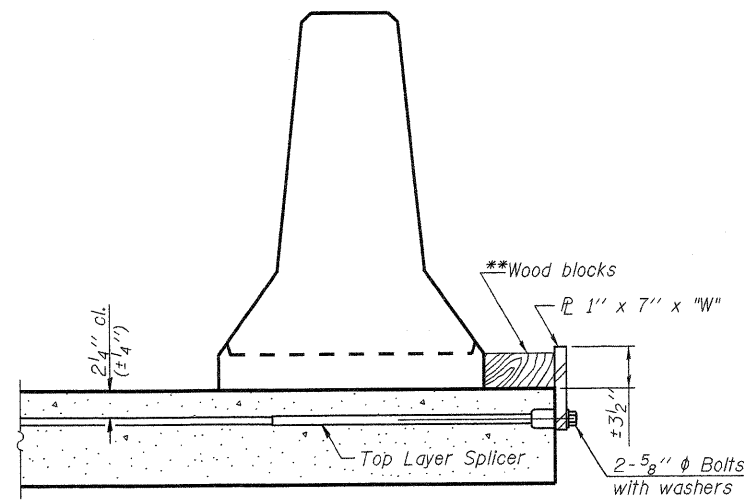
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{P}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{P}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

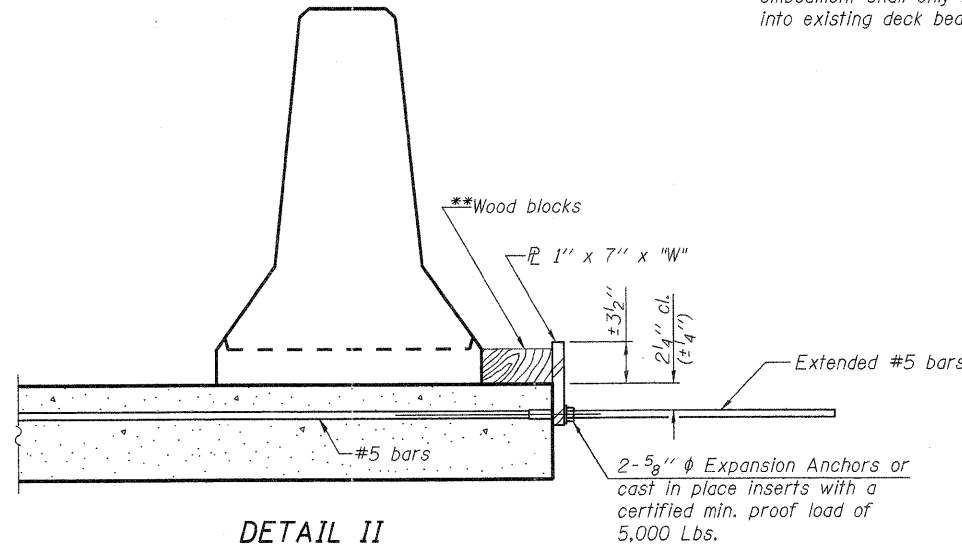
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

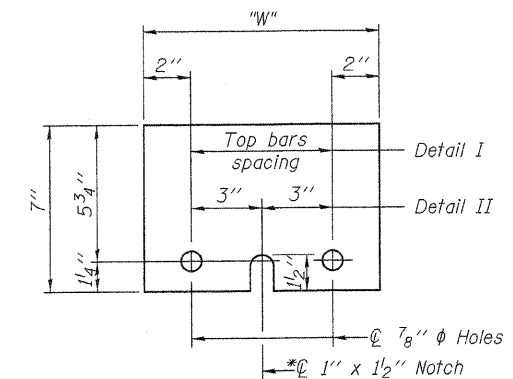
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER  $\bar{P}$  1" x 7" x "W"**

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

**FEHR-GRAHAM & ASSOCIATES, LLC**  
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 0520082-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 052-0080**

SHEET NO. 29 OF 32 SHEETS

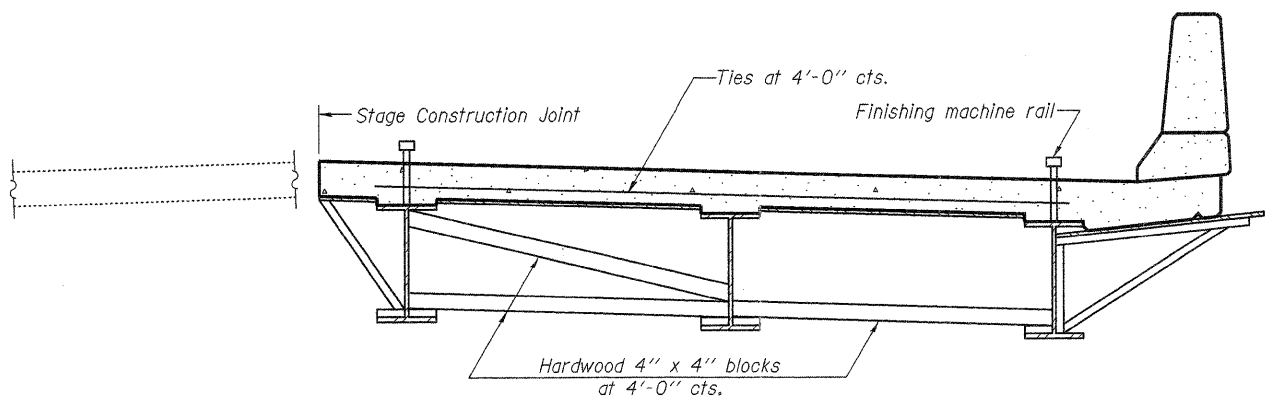
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	130
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

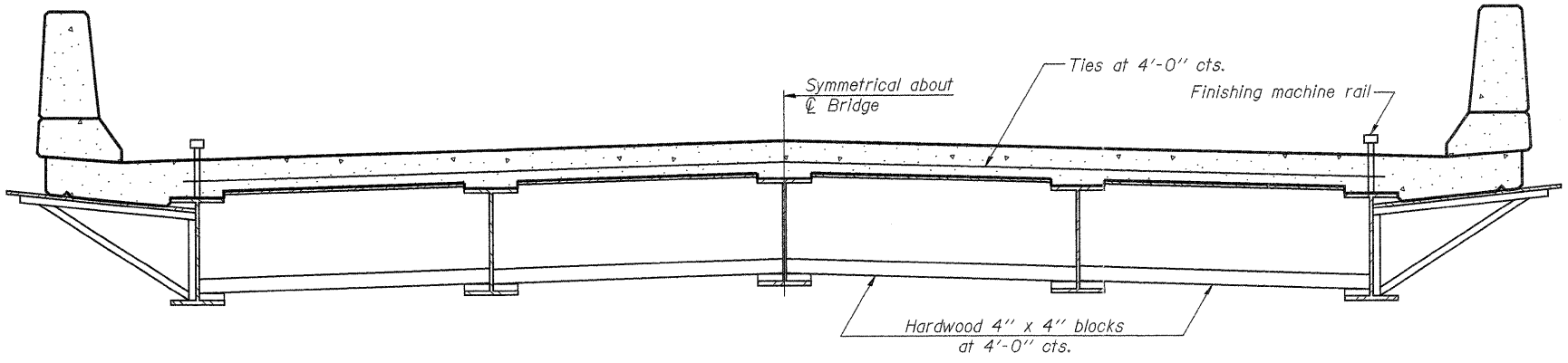
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR  
STAGE CONSTRUCTION**



**FORM BRACES FOR  
STANDARD CONSTRUCTION**

SB-1 7-1-10

<p><b>FEHR-GRAHAM &amp; ASSOCIATES, LLC</b> ENGINEERING AND SCIENCE CONSULTANTS</p>	FILE NAME = 0520080-64057.DGN	DESIGNED - J.A.M.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH W27 BEAMS AND SMALLER STRUCTURE NO. 052-0080</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -			316	102BR-5	LEE	216	131
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -			CONTRACT NO. 64057				
	PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. 30 OF 32 SHEETS										



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation/D-2

**SOIL BORING LOG**

Page 1 of 2

Date 9/11/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over a ditch, .4 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION Marion Twp. - 21 SE, SEC., TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T %	Surface Water Elev.	D E P T H	B L O W S	U C S Qu	M O I S T %
BORING NO. Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
420+57					85.00	0			
420+02					84.00	1	0.6	15.0	
13.00ft Rt CL						3	B		
99.20									
Shoulder Rock									
SOFT brown SANDY LOAM		0.3	14.0		77.70				
		P							
96.70									
STIFF dark brown SILTY CLAY LOAM		1				0			
		2	1.1	21.0		2	0.8	15.0	
95.20		2	P		75.20	4	B		
MEDIUM dark brown SILTY CLAY LOAM with 9% ORGANICS		0				2			
		2	0.6	44.0		4	2.7	11.0	
92.70		4	B		72.70	7	B		
MEDIUM tan/gray LOAM		1				6			
		3	0.7	24.0		7	3.7	10.0	
90.20		2	B		70.20	11	S		
MEDIUM tan SILT		1				9			
		2	0.8	22.0		9	3.9	10.0	
87.20		4	P		67.70	15	B		
MEDIUM tan fine SAND		4				13			
		5				15	4.5	10.0	
85.20		7			65.20	17	P		
MEDIUM tan fine SAND		1				29			
		6				19			
82.20		9			62.70	21			
SOFT gray SILT		2				5			
		3	0.3	22.0		13	5.5	9.0	
80.20		4	P		60.20	22	B		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation/D-2

**SOIL BORING LOG**

Page 2 of 2

Date 9/11/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over a ditch, .4 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION Marion Twp. - 21 SE, SEC., TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T %	Surface Water Elev.	D E P T H	B L O W S	U C S Qu	M O I S T %
BORING NO. Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
420+57					85.00	0			
420+02					84.00	1	0.6	15.0	
13.00ft Rt CL						3	B		
99.20									
HARD gray LOAM TILL		32				13			
		25	6.0	9.0		22			
57.70		23	S		37.70	20			
HARD gray LOAM TILL with clean medium SAND lens		7							
		11	5.0	12.0					
54.70		14	B						
MEDIUM gray clean medium coarse SAND		1							
		4							
52.70		11							
Wash DENSE gray SAND & GRAVEL		7							
		14							
49.70		17							
Wash MEDIUM gray clean medium coarse SAND with bottom 3" TILL		7							
		8	3.0	11.0					
47.70		7	P						
Wash HARD gray CLAY LOAM TILL		6							
		13	4.3	12.0					
45.20		19	B						
Wash HARD gray CLAY LOAM TILL		5							
		11	4.1	12.0					
42.20		14	B						
Wash VERY DENSE gray fine SAND with medium GRAVEL		26							
		38							
40.20		36							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Boring Elev. Correction to Project Datum:  
Boring Elev. 100.00 = Project Elev. 700.10



FILE NAME = 0520088-64057.DGN	DESIGNED - J.A.M.	REVISED -
USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/18/11	CHECKED - J.A.M. & A.R.K.	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS STRUCTURE NO. 052-0080**

SHEET NO. 31 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	132
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	





Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation/D-2

### SOIL BORING LOG

Page 1 of 2

Date 9/12/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over a ditch, .4 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION Marion Twp. - 21 SE, SEC. TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station 420+57  
BORING NO. B-2a Station 421+00  
Offset 54.00ft Lt CL  
Ground Surface Elev. 97.10 ft

DEPTH (ft)	SOIL DESCRIPTION	U.C.S. (tsf)	M.O.S.T. (%)	DEPTH (ft)	SOIL DESCRIPTION	U.C.S. (tsf)	M.O.S.T. (%)
85.00	Surface Water Elev.			85.00	Surface Water Elev.		
84.00	Stream Bed Elev.			84.00	Stream Bed Elev.		
	Groundwater Elev.:				Groundwater Elev.:		
	First Encounter 79.6 ft				First Encounter 79.6 ft		
	Upon Completion Wash ft				Upon Completion Wash ft		
	After Hrs. ft				After Hrs. ft		
94.60	DRY brown SANDY LOAM		8.0	75.60	STIFF gray SILTY CLAY LOAM TILL	7	10 1.4 13.0
92.60	STIFF brown SANDY LOAM	3		73.10	STIFF gray SILTY CLAY LOAM TILL	2	4 1.4 13.0
		2 1.0 14.0				6 B	
		3 S					
90.60	LOOSE tan fine SAND	2		70.60	VERY STIFF gray LOAM TILL	4	
		3				5 2.5 11.0	
		4				8 B	
87.60	MEDIUM tan fine SAND	6		68.10	VERY STIFF gray LOAM TILL	5	
		6				6 3.5 10.0	
		9				10 B	
85.60	VERY SOFT gray SILT	2	21.0	65.60	VERY STIFF gray LOAM TILL	5	
		2 0.2 21.0				7 2.7 11.0	
		4 P				11 B	
82.60	MEDIUM gray SILT with SAND lens	1		63.10	MEDIUM gray LOAM TILL	5	
		4 0.5 21.0				3 0.7 13.0	
		5 P				5 B	
80.10	MEDIUM gray medium moist SAND	7		60.60	VERY DENSE gray CLAY LOAM TILL with big GRAVEL	26	
		10				58 8.0	
		13				42	
78.10	STIFF gray SILTY CLAY LOAM TILL	2	14.0	57.60	HARD gray CLAY LOAM TILL	23	
		2 1.1 14.0				19 7.2 9.0	
		5 B				24 B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation/D-2

### SOIL BORING LOG

Page 2 of 2

Date 9/12/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over a ditch, .4 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION Marion Twp. - 21 SE, SEC. TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station 420+57  
BORING NO. B-2a Station 421+00  
Offset 54.00ft Lt CL  
Ground Surface Elev. 97.10 ft

DEPTH (ft)	SOIL DESCRIPTION	U.C.S. (tsf)	M.O.S.T. (%)
85.00	Surface Water Elev.		
84.00	Stream Bed Elev.		
	Groundwater Elev.:		
	First Encounter 79.6 ft		
	Upon Completion Wash ft		
	After Hrs. ft		
55.60	MEDIUM gray SAND & GRAVEL		
53.10	Wash DENSE gray clean medium coarse SAND		
50.60	Wash DENSE gray clean medium coarse SAND		
48.10	Wash DENSE gray clean medium coarse SAND with medium GRAVEL		
45.60	Wash Same as above		
	End of Boring		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Boring Elev. Correction to Project Datum:  
Boring Elev. 100.00 = Project Elev. 700.10



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USER NAME = S.A.P.	CHECKED - A.R.K.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - J.A.M. & A.R.K.	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 052-0080

SHEET NO. 32 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5	LEE	216	133
			CONTRACT NO. 64057	
ILLINOIS FED. AID PROJECT				

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

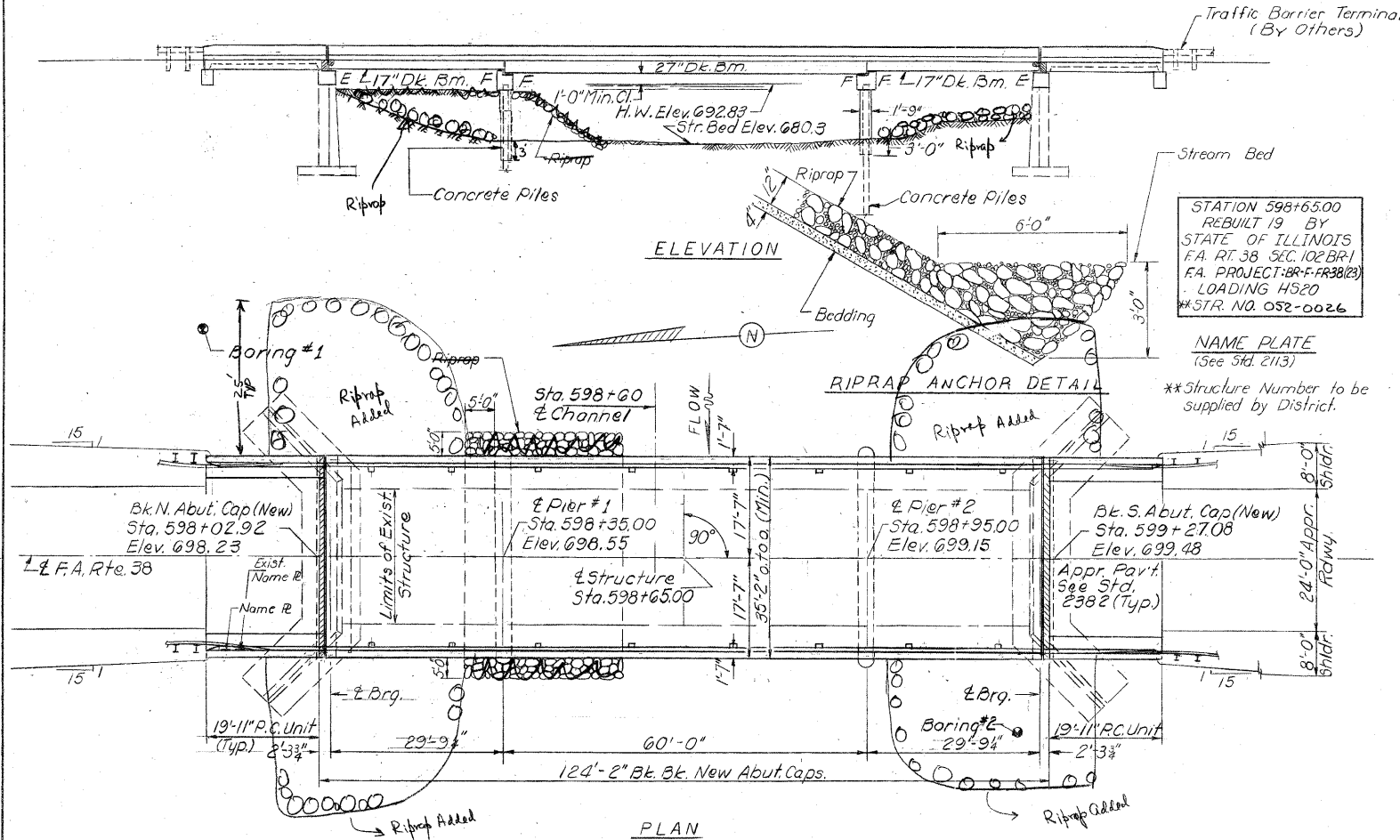
B.M. Chiseled square on S.W. wingwall of bridge 15' Rt. Sta. 602+56 Elev. 695.49  
Existing Structure #052-0026 Built as S.B.I. Rt. 26, Sec. 102 B+C, at Sta. 598+65  
in the year 1927. The existing 120'-0" long by 23'-2" wide steel truss shall  
be removed and the existing R.C. closed Abuts. rebuilt and two new concrete  
enclosed pile bent piers built to accommodate a new P.P.C. Deck Beam  
Superstructure. Traffic shall be detoured.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	102 BR-1	LEE	61	15
13 SHEETS				

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.  
See Proposal for Boring Data.  
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.  
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.  
The contractor shall drive one concrete test pile in a permanent location at Pier 1 as directed by the Engineer before ordering the remainder of piles.  
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 4".  
Limits of Waterproofing Membrane System shall be from toe to toe of parapets and end to end of deck beams.  
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.  
Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.



STATION 598+65.00  
REBUILT BY  
STATE OF ILLINOIS  
F.A. RT. 38 SEC. 102 BR-1  
F.A. PROJECT: BR-F-R38(2)  
LOADING HS20  
\*STR. NO. 052-0026

NAME PLATE  
(See Std. 2113)  
\*\*Structure Number to be supplied by District.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	50		50
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		18	18
Structure Excavation	Cu. Yd.		83	83
Stone Riprap	Sq. Yd.		140	140
Protective Coat	Sq. Yd.	130		130
Class X Concrete	Cu. Yd.	424	110.9	534.9
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2122		2122
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2097		2097
Structural Steel	Pound	4620		4620
Reinforcement Bars	Pound	4200	9150	13350
Reinforcement Bars (Epoxy Coated)	Pound	1480		1480
Concrete Piles	Lin. Ft.		563	563
Test Piles Concrete	Each	1	1	1
Name Plates	Each	1		1
Preformed Joint Seal 2 1/2"	Lin. Ft.	70		70
Portland Cement Mortar Fairing Course	Lin. Ft.	1085		1085
Waterproofing Membrane System	Sq. Yd.	429		429

**DESIGN STRESSES**

FIELD UNITS PRECAST UNITS

f'c = 3500 psi. f'c = 4500 psi.  
f'y = 60,000 psi (Rein) f'c = 1800 psi.  
f's = 20,000 psi (Struct) f's = 20,000 psi.

PRECAST PRESTRESSED UNITS

f'c = 5000 psi.  
f'ci = 4000 psi.  
f's = 270,000 psi (2" Strands)  
f'si = 189,000 psi (1/2" Strands)

Design Specifications 1977 AASHTO  
1978, 1979 & 1980 Interim Specs. as applicable  
Allow 25 sq. ft for future Wearing Surface  
LOADING HS20-44 (New Structure)

**WATERWAY INFORMATION**

Drainage Area		235 Sq. Mi. Low Grade Elev.		@ Sta.		
Flood	Freq. Yrs.	Q C.F.S.	Opening Sq. Ft.	Nat. Head Ft.	Headwater El.	
		Exist.	Prop.	Exist.	Prop.	
Design	50	6900	990	692.83	0	692.83
Base	100	7250	990	693.3	0	693.3
Max. Calc.	500	9135	990	693.3	0	693.3

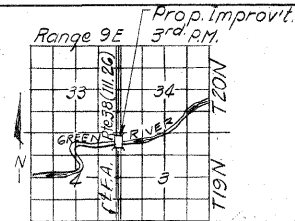
\*Estimated Discharges.

Note: Proposed opening over the Green River is one opening of a total of (3) located in the Green River floodplain. A total opening 1328 Sq. Ft. is provided below design Highwater.

**PROPOSED PROFILE GRADE**

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

FEBRUARY 28 1981

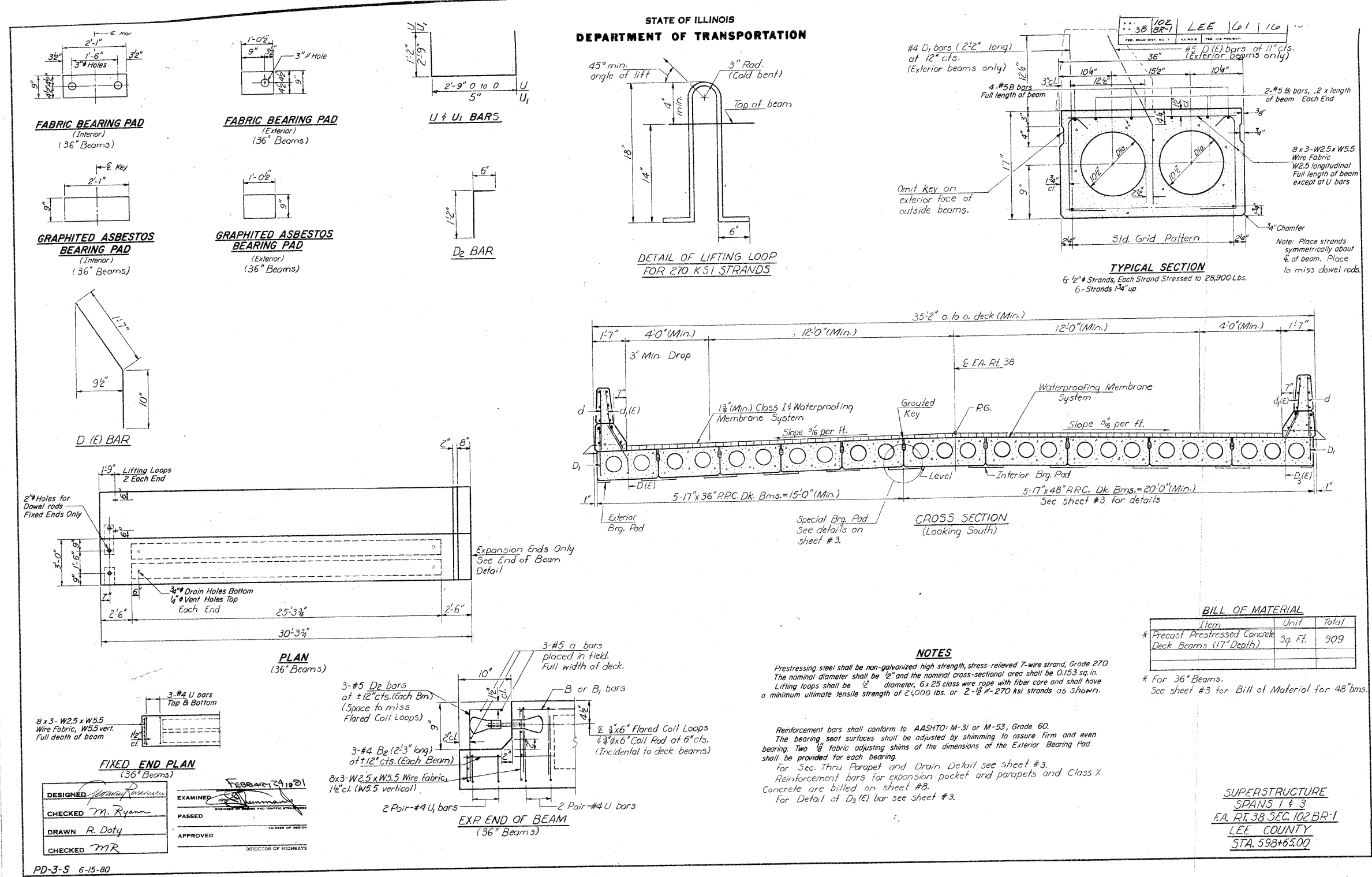


**GENERAL PLAN**

F.A. R.T.E. 38 OVER GREEN RIVER  
F.A. R.T.E. 38 (LL RT 26) SEC. 102 BR-1  
LEE COUNTY  
STA. 598+65.00

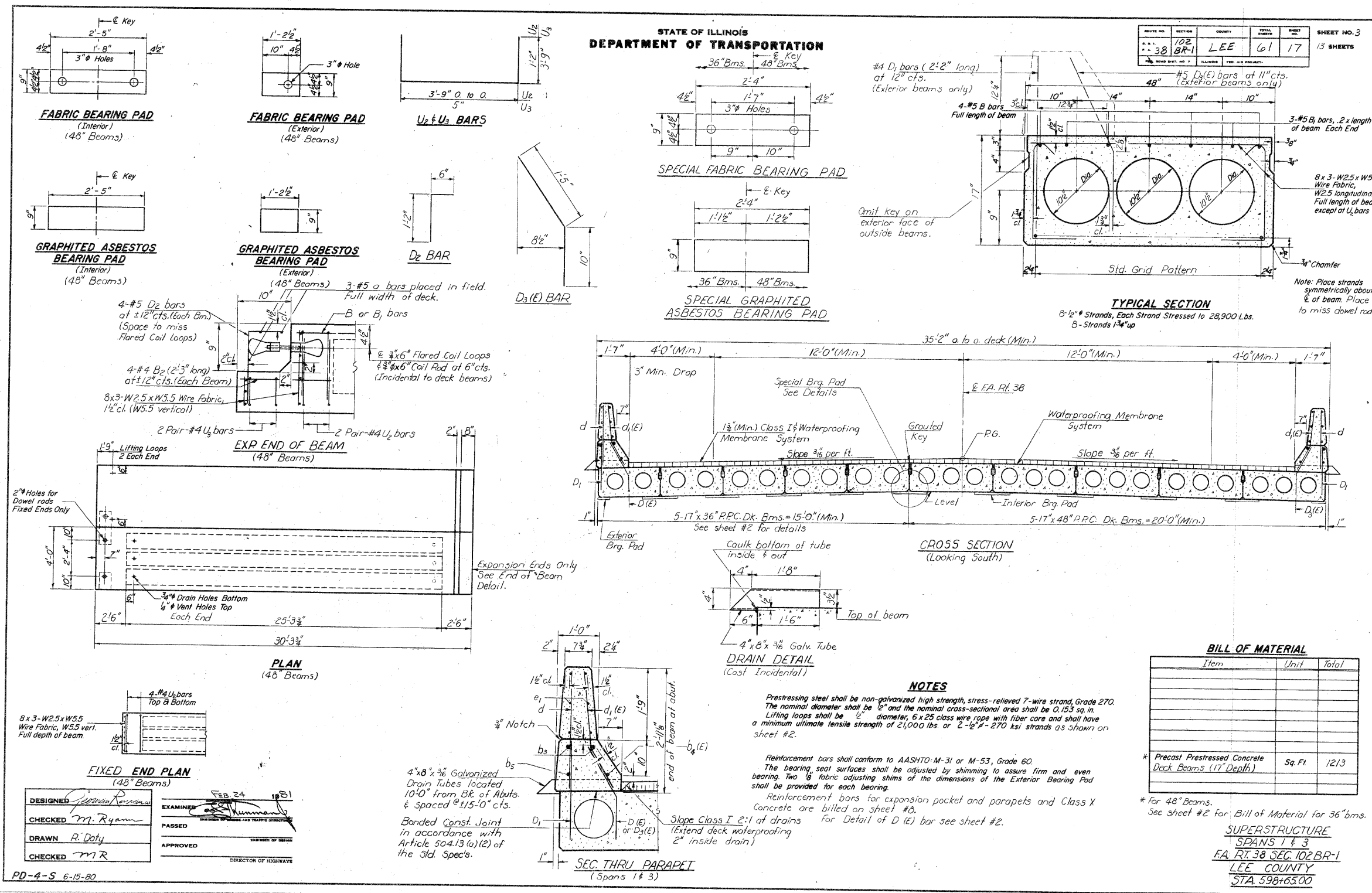
**LOCATION PLAN**

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



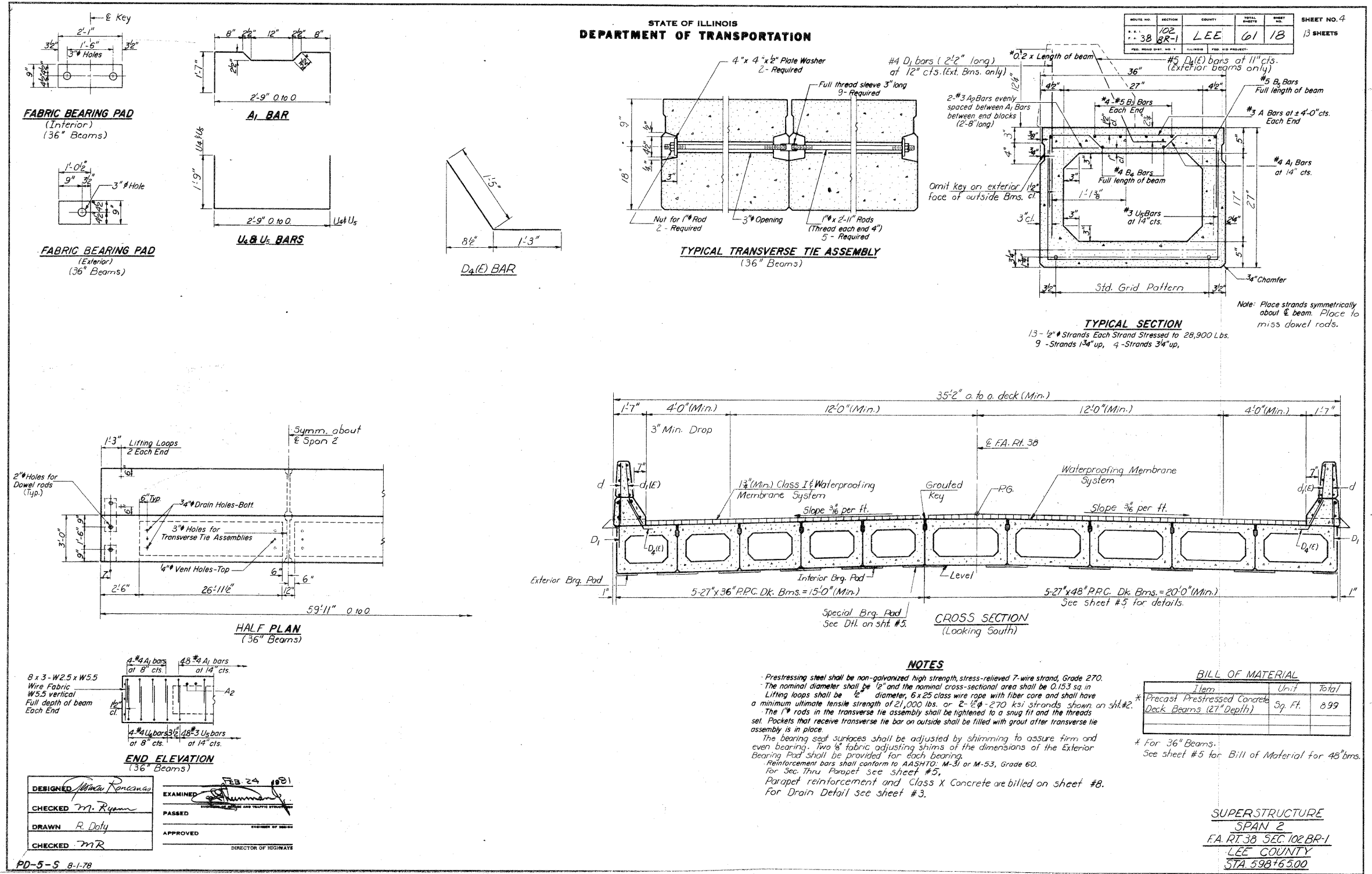
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	PLOT DATE = Thu Jul 14 09:31:47 2011	CHECKED -	REVISED -												
		DATE -	REVISED -												

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE PLANS</b>	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 136	
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PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -								
PLOT DATE = Thu Jul 14 09:31:47 2011		DATE -	REVISED -								
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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						ILLINOIS FED. AID PROJECT					

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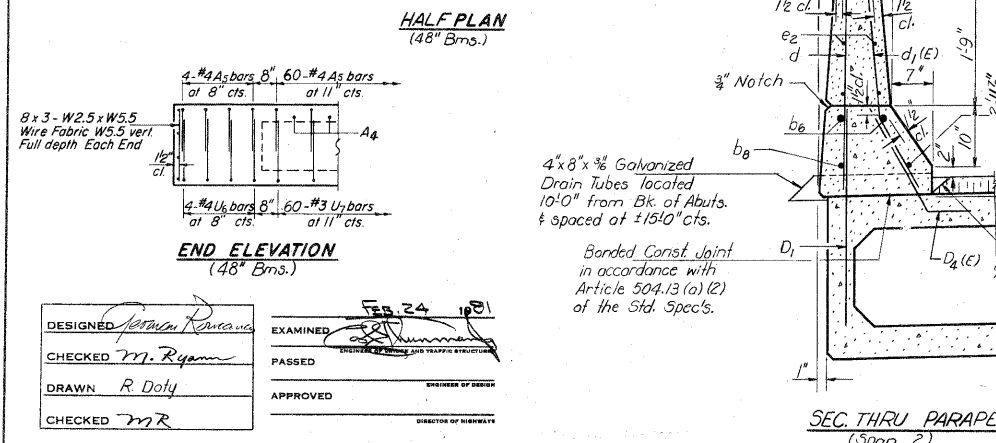
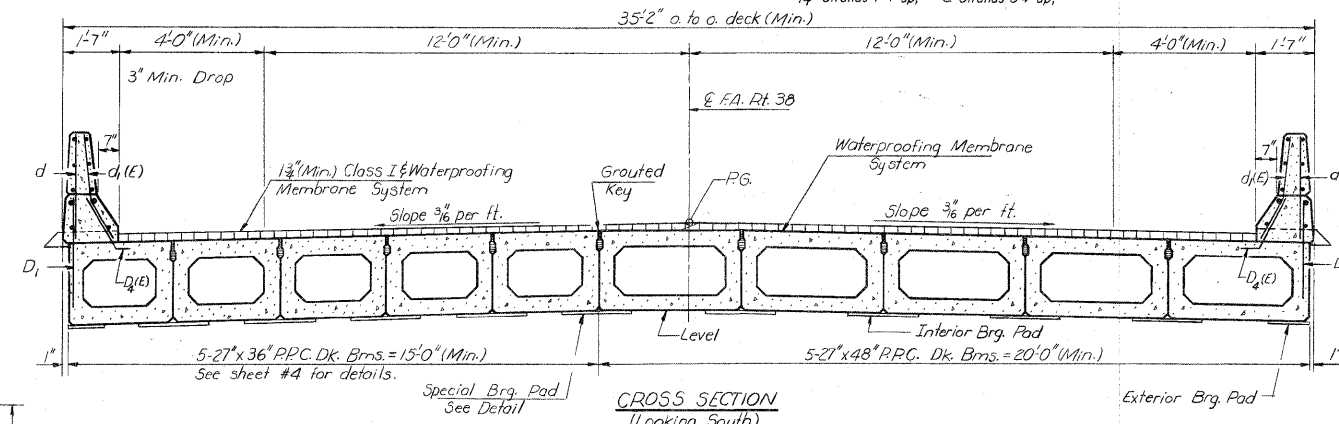
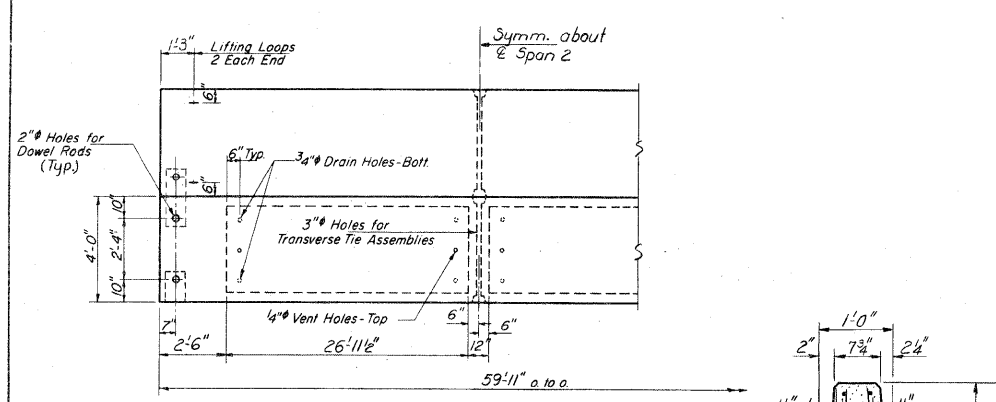
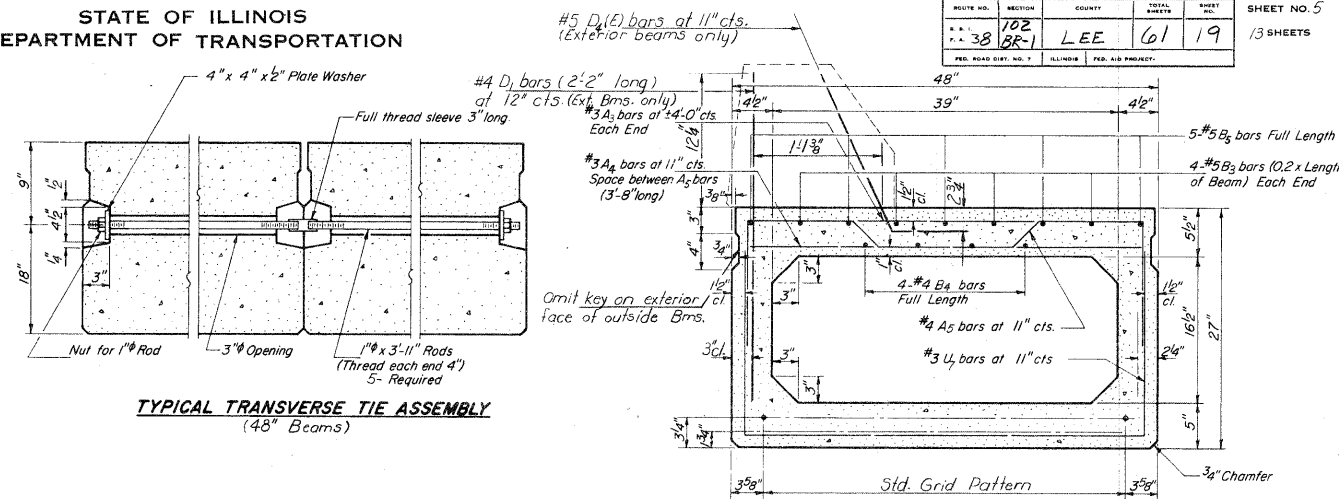
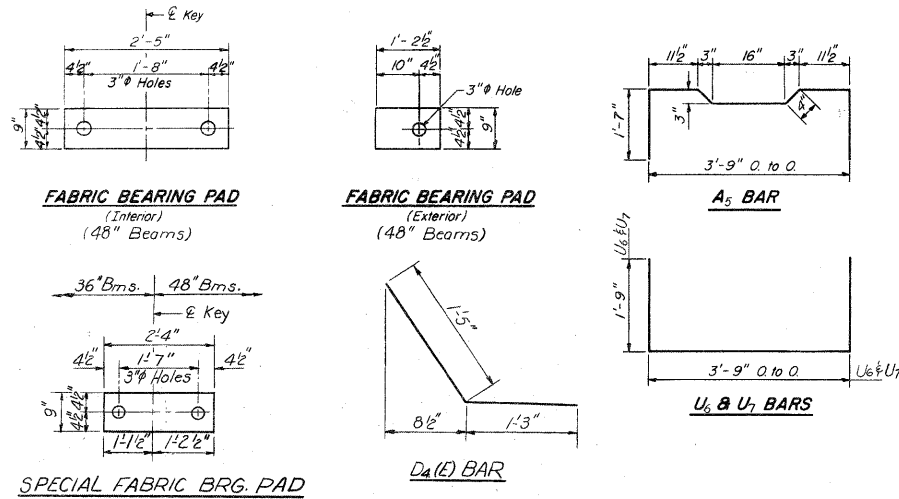


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PLOT DATE = Thu Jul 14 09:31:47 2011		DATE -	REVISED -							
						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
						ILLINOIS FED. AID PROJECT				

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
38	102 BR-1	LEE	61	19
ILLINOIS FED. AID PROJECT				



**NOTES**

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 7/8" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3/8" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. or 2-1/2 #270 ksi strands as shown on sheet #2. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Parapet reinforcement and Class X Concrete are billed on sheet #8. For Drain Detail see sheet #3.

**BILL OF MATERIAL**

Item	Unit	Total
* Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1198

\* For 48" Beams. See sheet #4 for Bill of Material for 36" Bms.

**SUPERSTRUCTURE  
SPAN 2  
F.A. RT. 38 SEC. 102 BR-1  
LEE COUNTY  
STA. 598+65.00**

DESIGNED: *[Signature]*  
 CHECKED: *M. Ryan*  
 DRAWN: *R. Doly*  
 CHECKED: *MR*

EXAMINED: *[Signature]*  
 PASSED  
 APPROVED

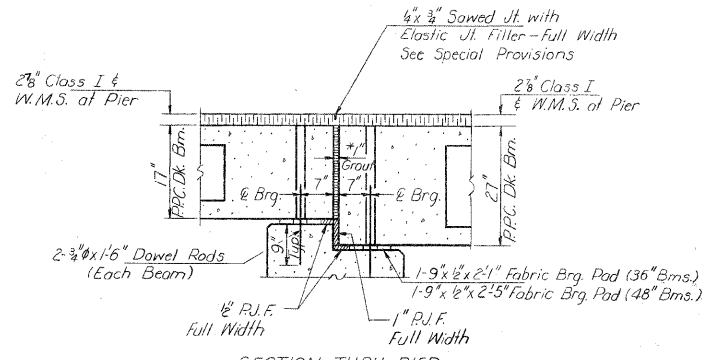
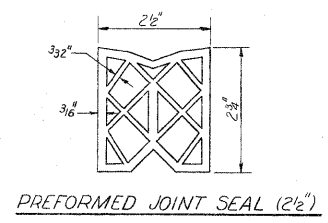
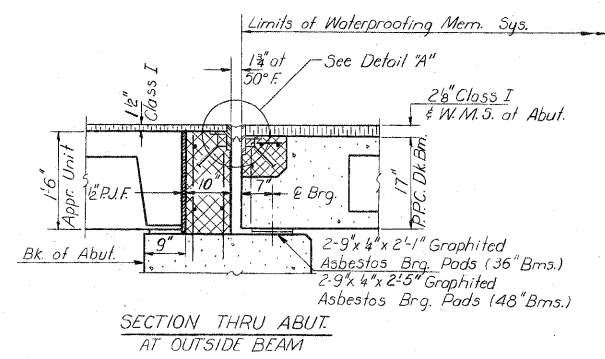
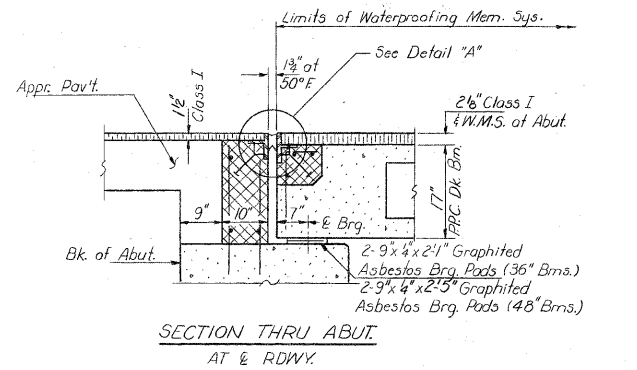
DATE: FEB 24 1981

PD-6-S 6-15-80

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

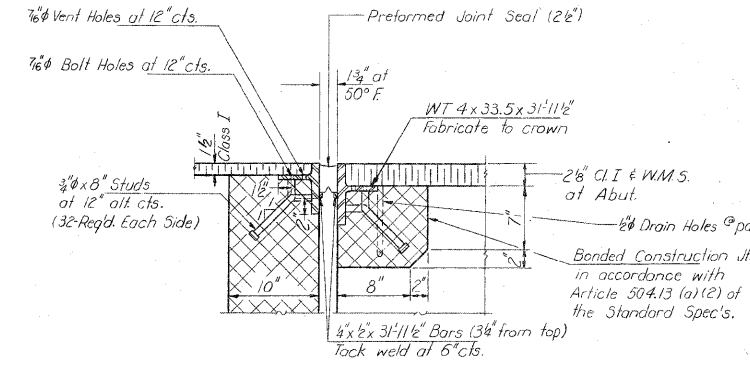
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
38	102 BR-1	LEE	61 20	13
ILLINOIS FED. AID PROJECT				



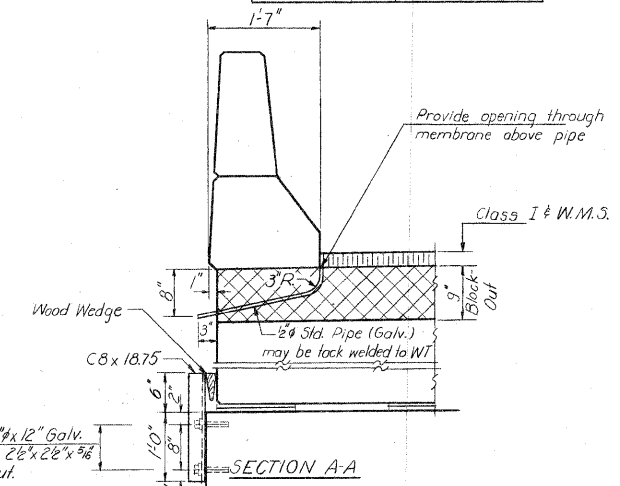
**SECTION THRU PIER  
PIER 1 LOOKING EAST  
PIER 2 LOOKING WEST**

\* 1" Joint shall be packed with a very dry mix of 2:1 sand and PC mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.

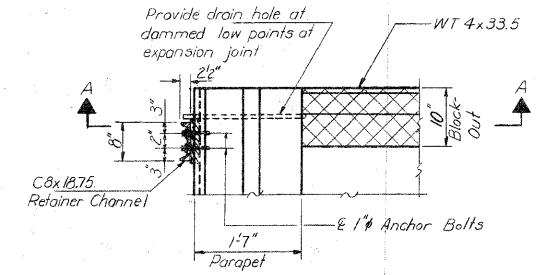
Note:  
After beams are in place, holes shall be drilled into the bridge seat and the dowel rods grouted in place prior to grouting shear keys.



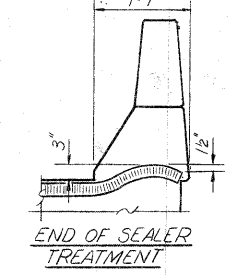
**NOTES:** Dimensions are at right angles.  
Cross hatched areas to be poured after beams have been erected and joints grouted. Quantity of Class X Concrete included with superstructure on sheet #8.  
Ends of beams shall be aligned at the expansion joints.  
Any linear variation in the beam lengths shall be placed at the fixed ends.  
See End of Beam Detail on sheets #2 & #3 for reinforcement.



\* Anchor bolts may be cast into the masonry or placed in drilled holes and grouted in place. Cost including Retainer Channel and Accessories Incidental to Beams.



Note: After block-outs are poured and cured the retainer channels shall be removed. Anchor bolts may be left in place. (Cost for removal of retainer channels shall be incidental.)

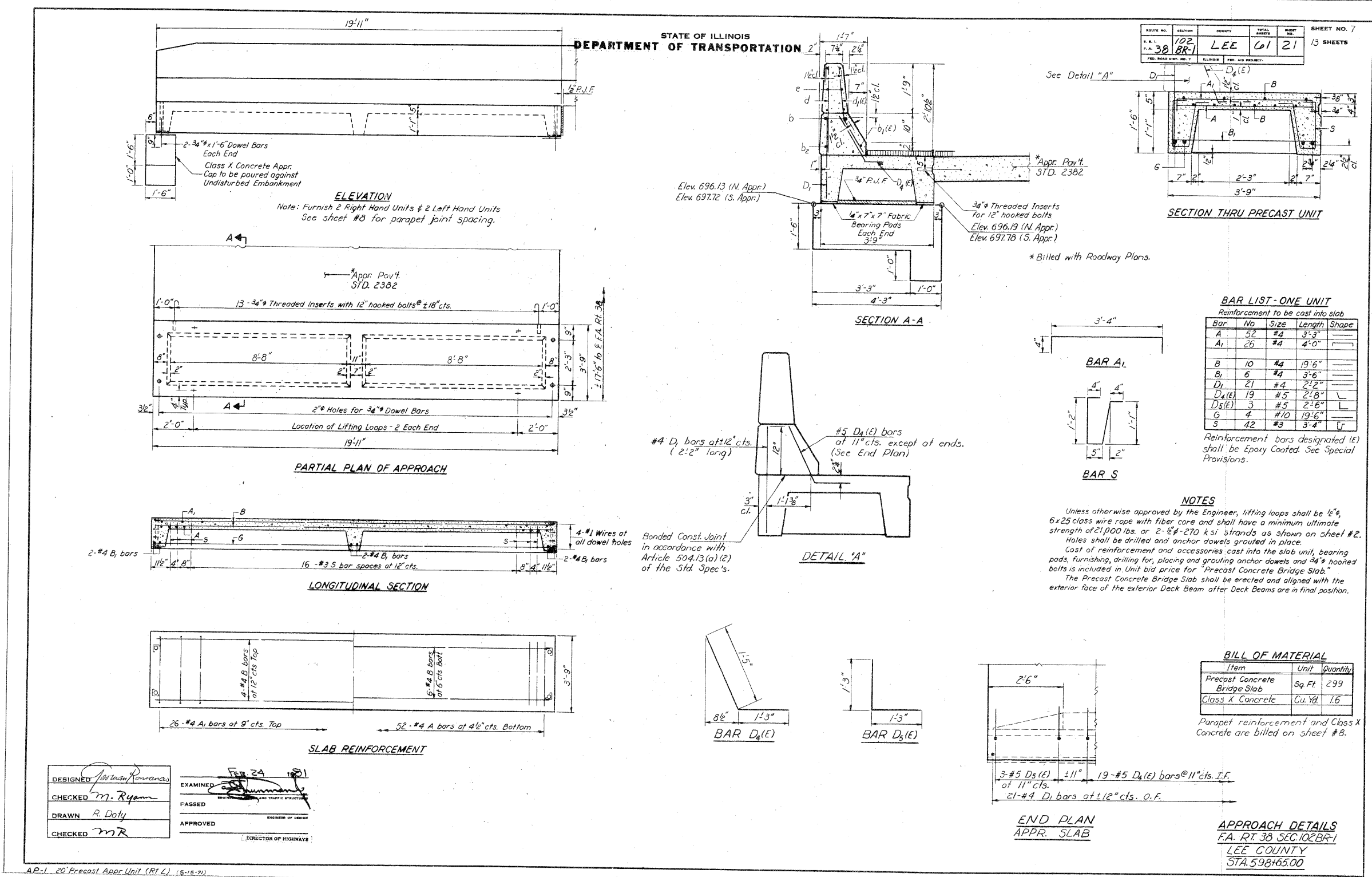


**SUPERSTRUCTURE DETAILS  
F.A. RT. 38 SEC. 102 BR-1  
LEE COUNTY  
STA. 598+65.00**

DESIGNED <i>[Signature]</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	PASSED
DRAWN <i>[Signature]</i>	APPROVED
CHECKED <i>[Signature]</i>	DESIGNER OF WORK

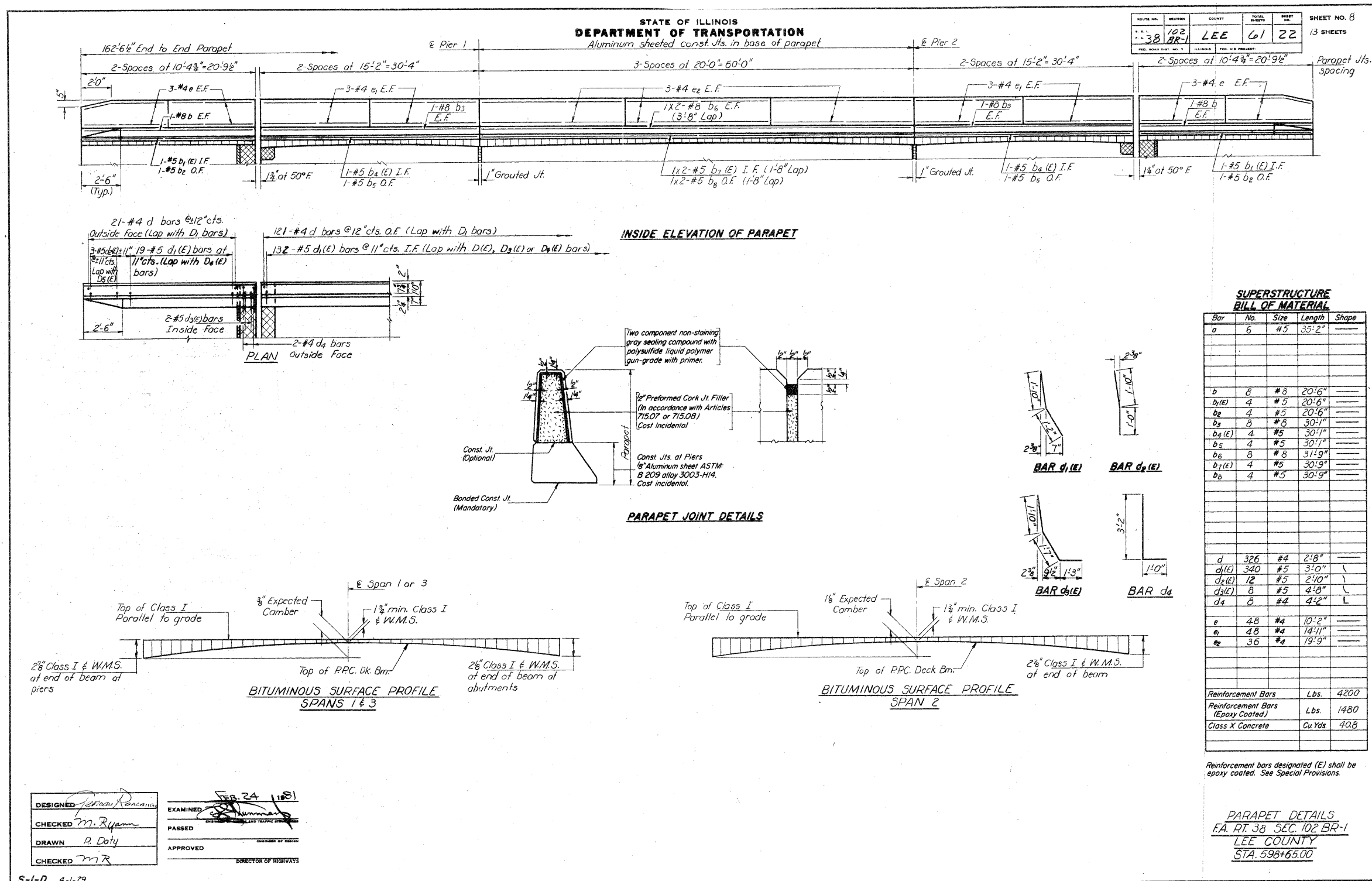
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PLT SCALE = 50.0000 1/16 in.	PLT DATE = Thu Jul 14 10:19:56 2011	DRAWN -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64057				
ILLINOIS FED. AID PROJECT * 102BR-5, 102BR-6, & 102BR-7										

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

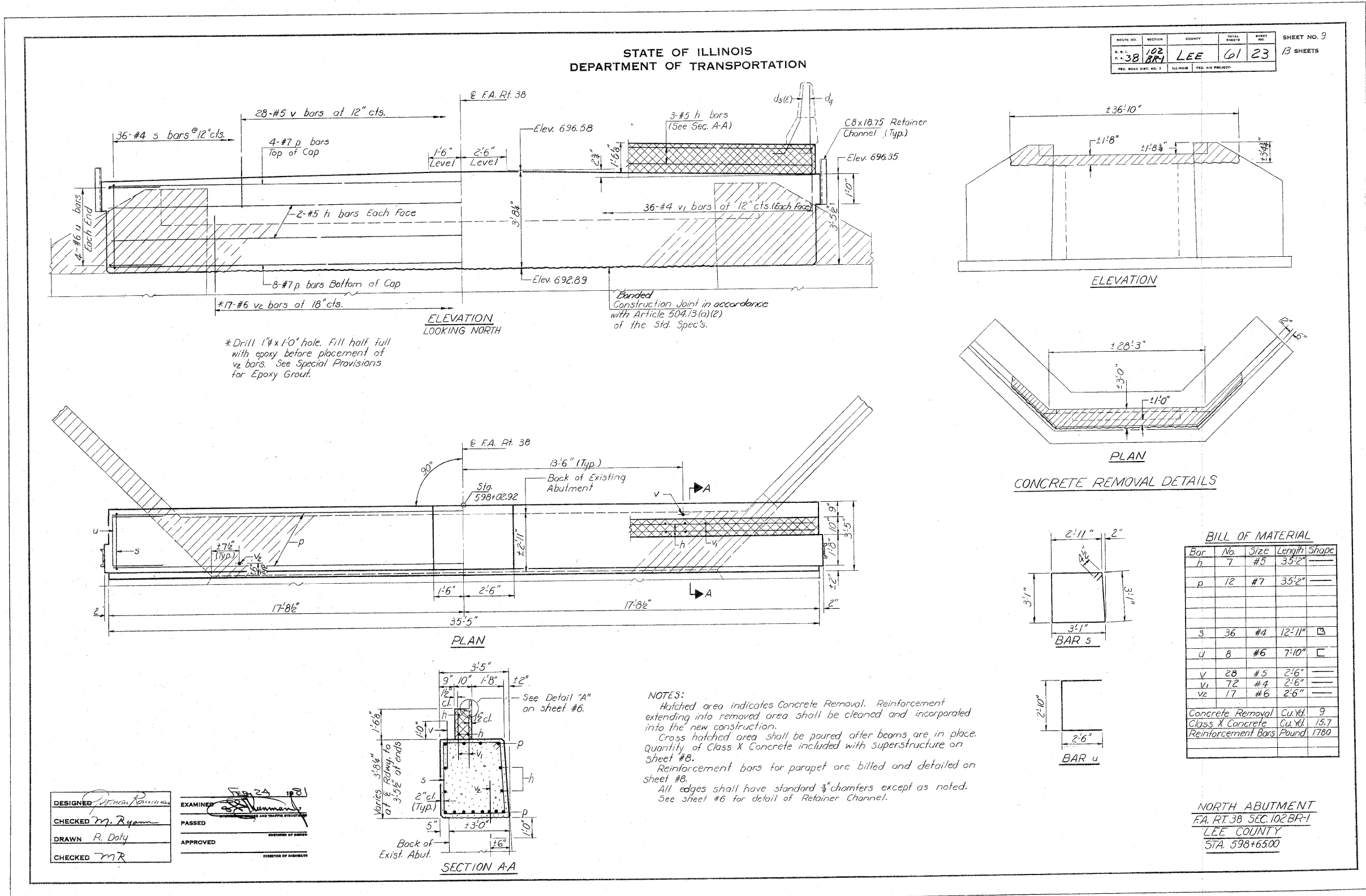




# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



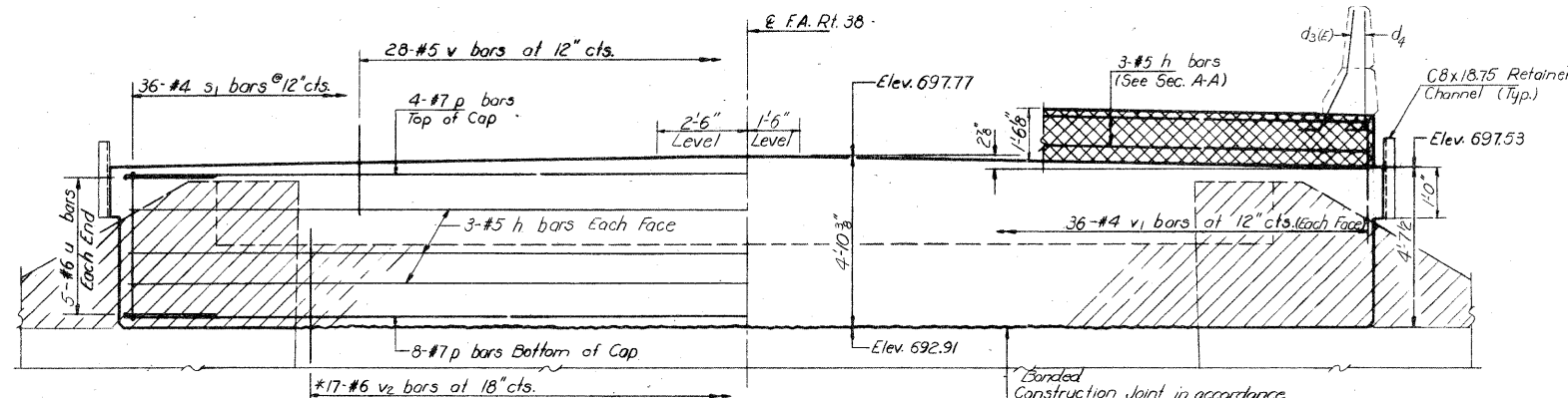
# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

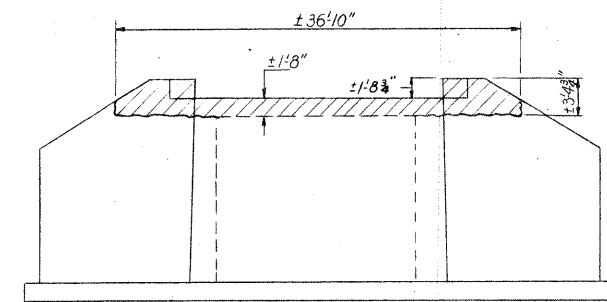
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102	102	LEE	61	24	13 SHEETS



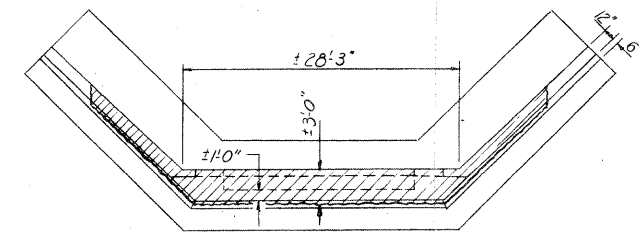
ELEVATION  
LOOKING SOUTH

\* Drill 1" x 1'-0" hole. Fill half full with epoxy before placement of v2 bars. See Special Provisions for Epoxy Grout.

Banded Construction Joint in accordance with Article 504.13(a)(2) of the Std. Specs.

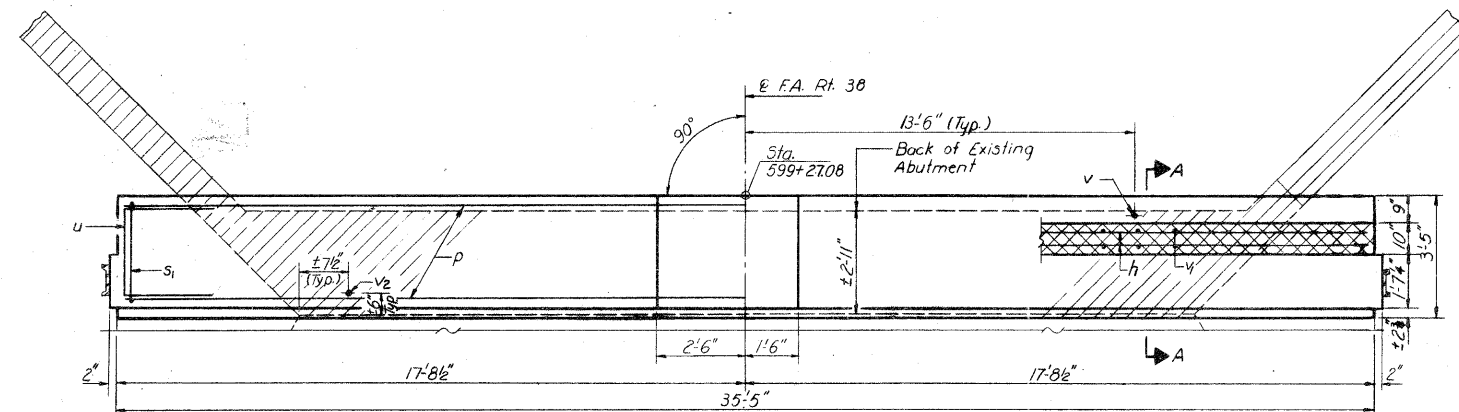


ELEVATION

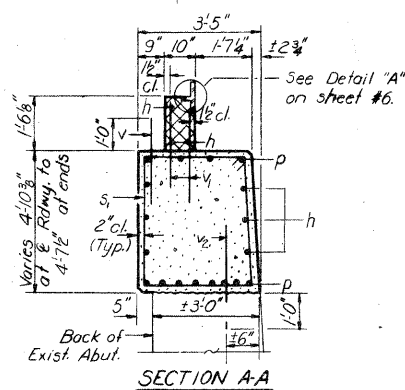


PLAN

CONCRETE REMOVAL DETAILS



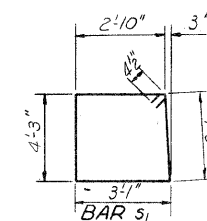
PLAN



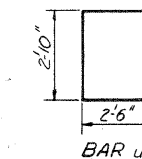
SECTION A-A

NOTES:

- Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
- Cross hatched area shall be poured after beams are in place. Quantity of Class X Concrete included with superstructure on sheet #8.
- Reinforcement bars for parapet are billed and detailed on sheet #8.
- All edges shall have standard 3/8" chamfers except as noted. See sheet #6 for detail of Retainer Channel.



BAR s1



BAR u

BILL OF MATERIAL

Bar	No	Size	Length	Shape	
h	9	#5	33'-2"	—	
p	12	#7	35'-2"	—	
s1	36	#4	15'-2"	□	
u	10	#6	7'-10"	□	
v	23	#5	2'-6"	—	
v1	72	#4	2'-6"	—	
v2	17	#6	2'-6"	—	
Concrete Removal				Cu. Yd.	9
Class X Concrete				Cu. Yd.	20.6
Reinforcement Bars				Pound	1930

SOUTH ABUTMENT  
F.A. RT. 38 SEC. 102BR-1  
LEE COUNTY  
STA. 598+6300

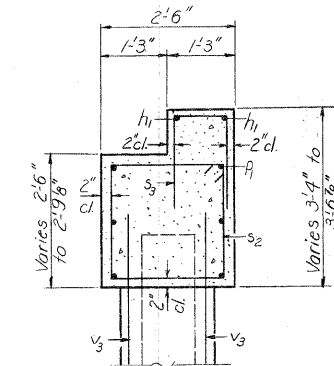
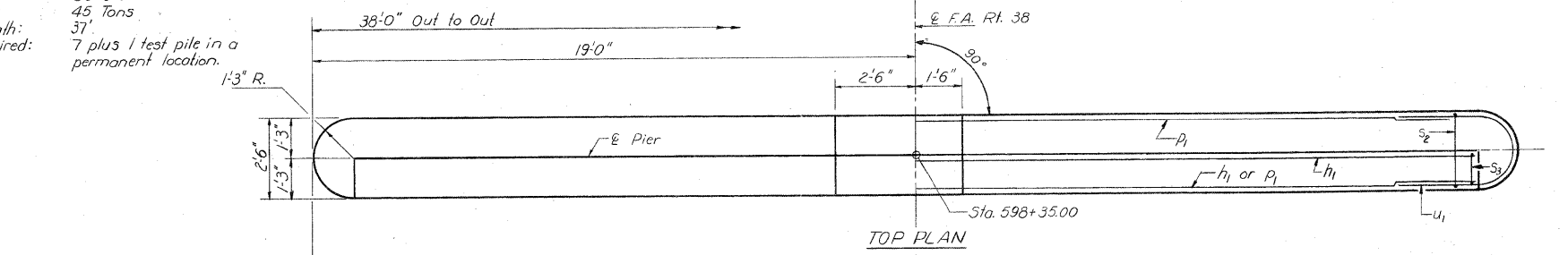
DESIGNED: <i>R. Doty</i>	EXAMINED: <i>R. Doty</i>
CHECKED: <i>M. Ryan</i>	PASSED: <i>M. Ryan</i>
DRAWN: <i>R. Doty</i>	APPROVED: <i>M. Ryan</i>
CHECKED: <i>MR</i>	

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

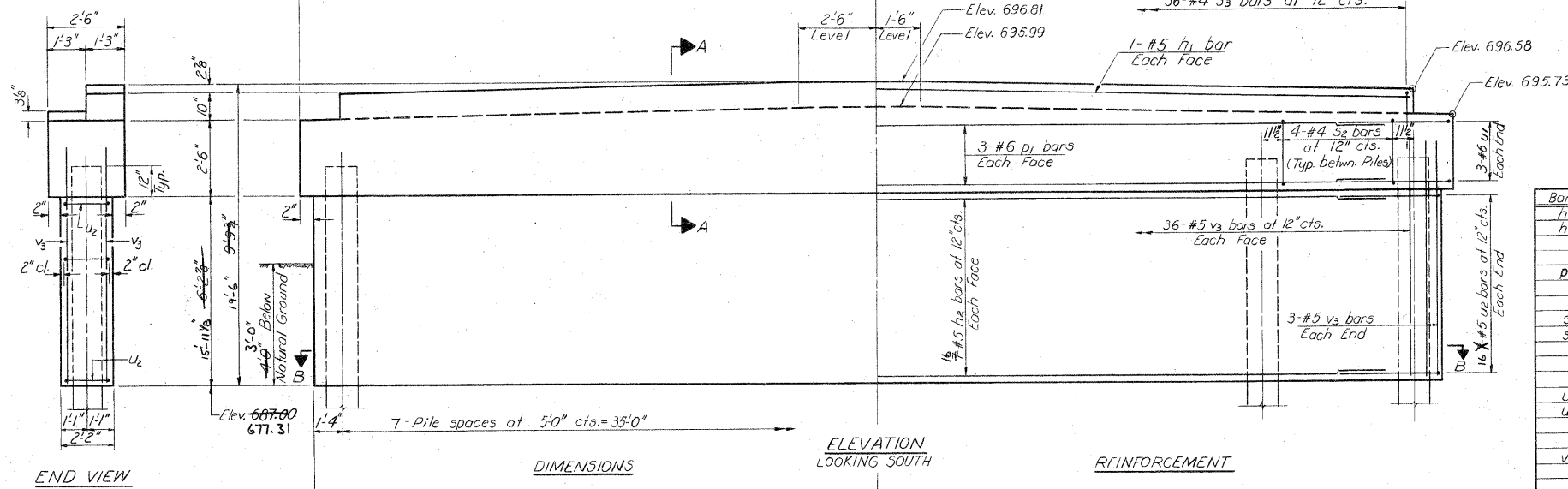
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. //
38	102 BR-1	LEE	61	25	13 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

**PILE DATA**  
 Type: Concrete  
 Capacity: 45 Tons  
 Est. Length: 37'  
 No. Required: 7 plus 1 test pile in a permanent location.



**SECTION A-A**

Note:  
All edges shall have standard 3/8" chamfers.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1	2	#5	35'-3"	—
h2	32	#5	33'-6"	—
p1	6	#6	34'-8"	—
s2	28	#4	9'-5"	□
s3	36	#4	4'-5"	□
u1	6	#6	8'-3"	U
u2	32	#5	7'-11"	U
v3	78	#5	17'-6"	—
Class X Concrete		Cu. Yd.	26.2	51.2
Reinforcement Bars		Pound	1900	3550
Concrete Piles		Lin. Ft.	259	
Test Piles Concrete		Each	1	

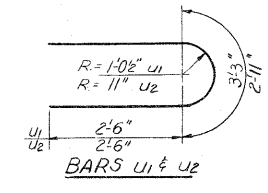
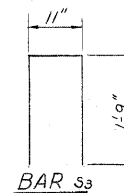
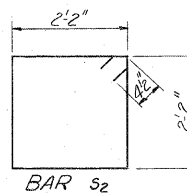
**END VIEW**

**DIMENSIONS**

**ELEVATION LOOKING SOUTH**

**REINFORCEMENT**

**SECTION B-B**

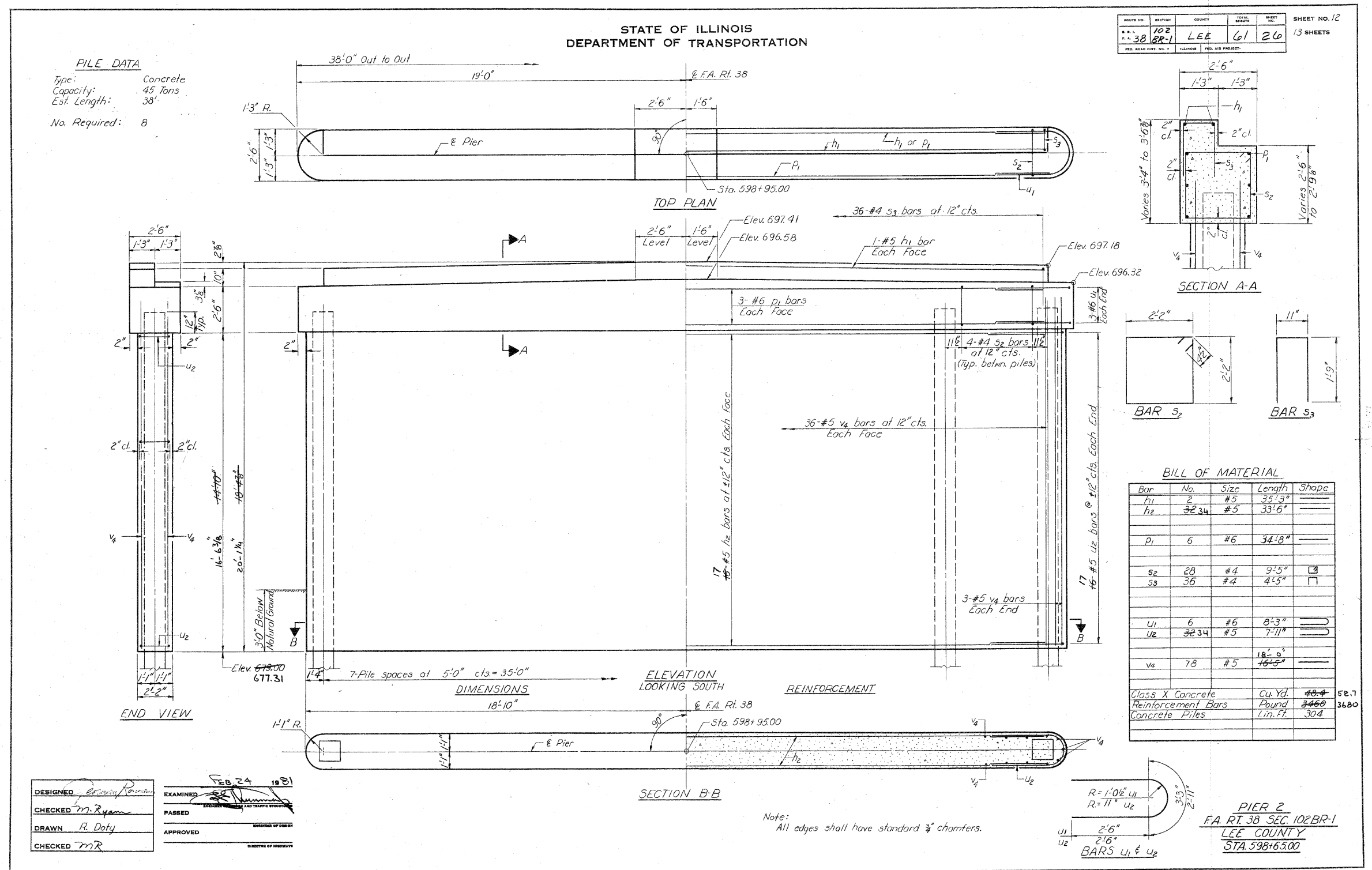


DESIGNED: *[Signature]*  
 CHECKED: *M. Ryan*  
 DRAWN: *R. Doty*  
 CHECKED: *MR*

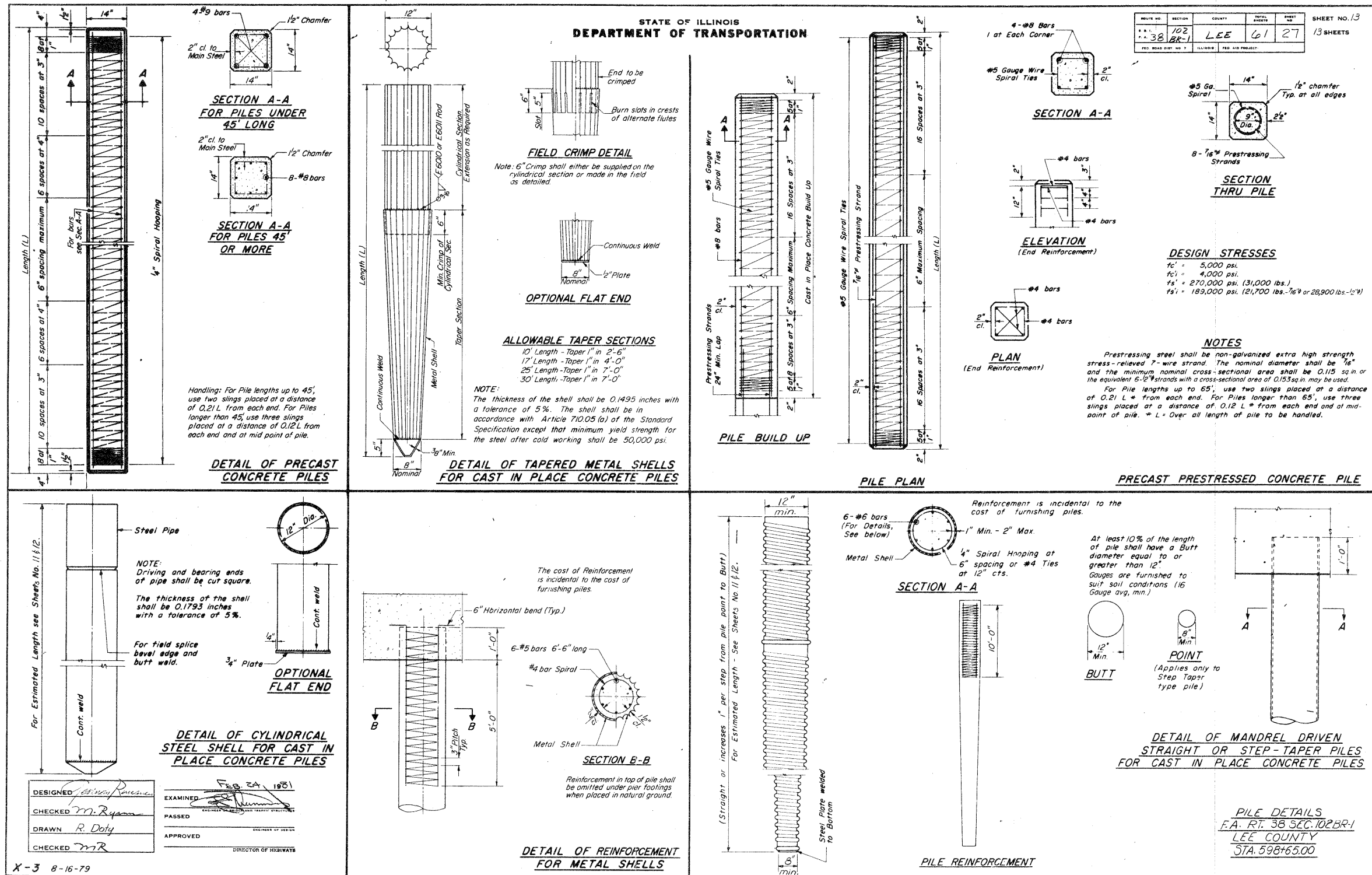
EXAMINED: *[Signature]*  
 PASSED:  
 APPROVED:  
 DIVISION OF BRIDGE

PIER 1  
 F.A. RT. 38 SEC. 102 BR-1  
 LEE COUNTY  
 STA. 598+65.00

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

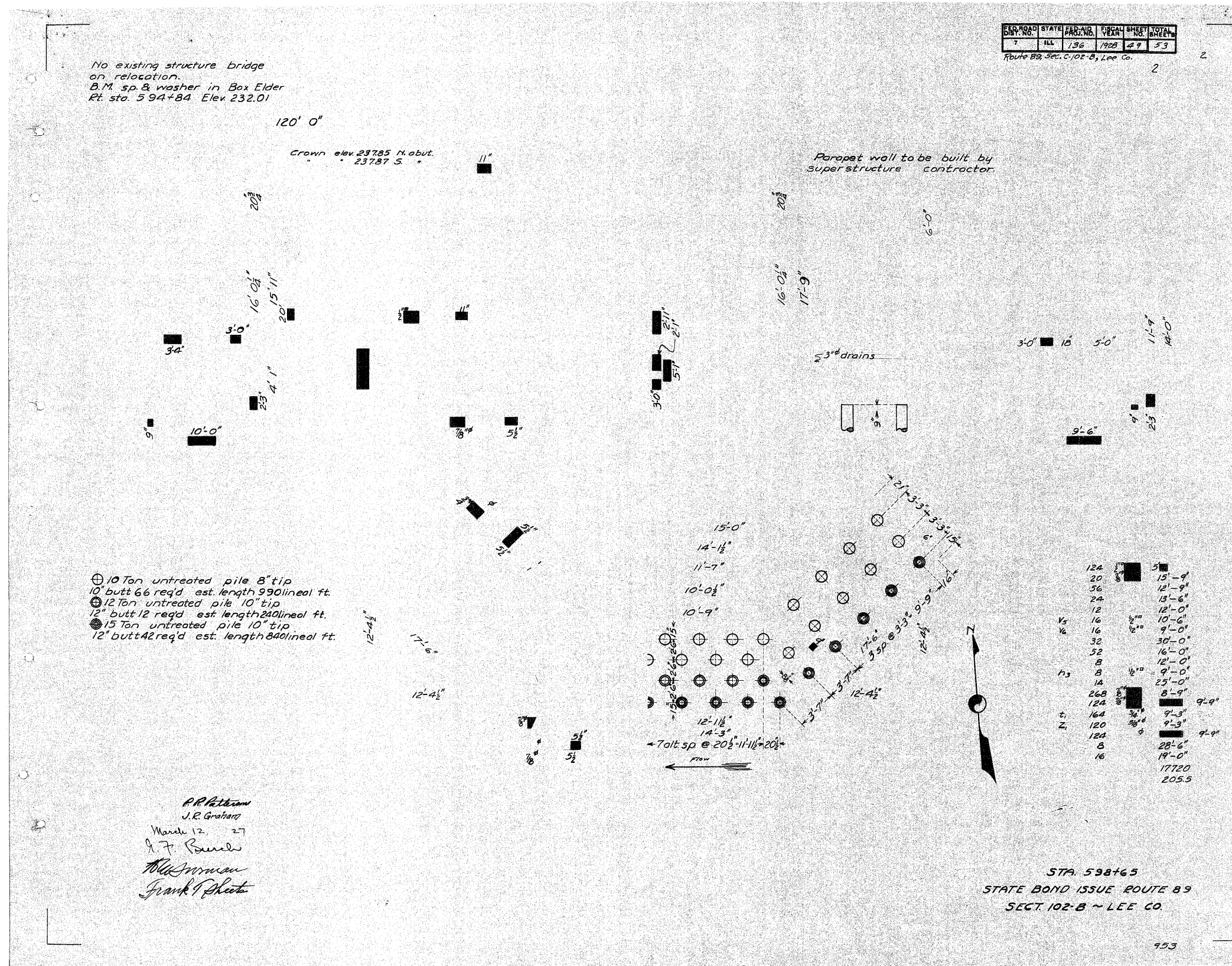


# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



FILE NAME =	USER NAME = grantpm	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				EXISTING STRUCTURE PLANS				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 146	
CONTRACT NO. 64D57																	
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.												
ILLINOIS FED. AID PROJECT																	
* 102BR-5, 102BR-6, & 102BR-7																	

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE PLANS</b>				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 147
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PLOT SCALE = 50.00000' / 1"		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
PLOT DATE = Thu Jul 14 18:19:56 2011		DATE -	REVISED -		• 102BR-5, 102BR-6, & 102BR-7								

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

B-AT

CONTRACT NO. 64B

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	28	1

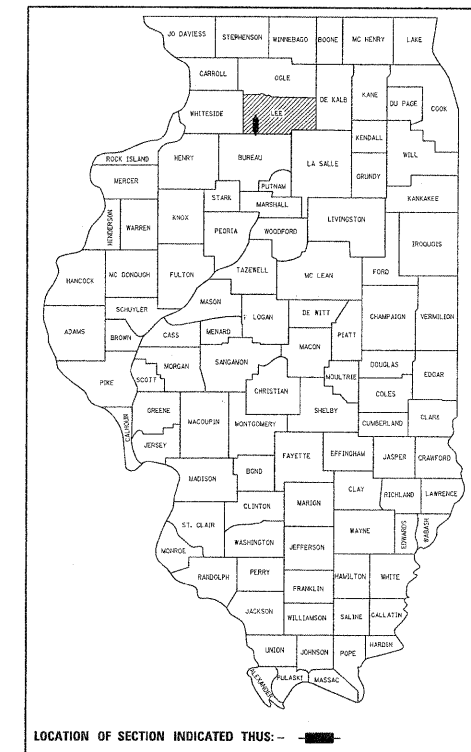
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

## PROPOSED HIGHWAY PLANS

FAP ROUTE 316 (IL26)  
SECTION (102BR)M & (102BR-1)M-1

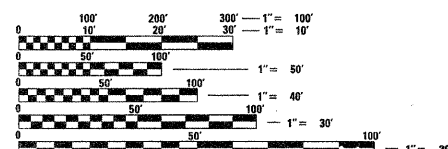
LEE COUNTY  
C-92-015-06

D-92-091-05



FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

MARION TOWNSHIP SECTION - 21 & 22  
EAST GROVE SECTION - 3 & 4



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.

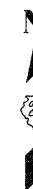
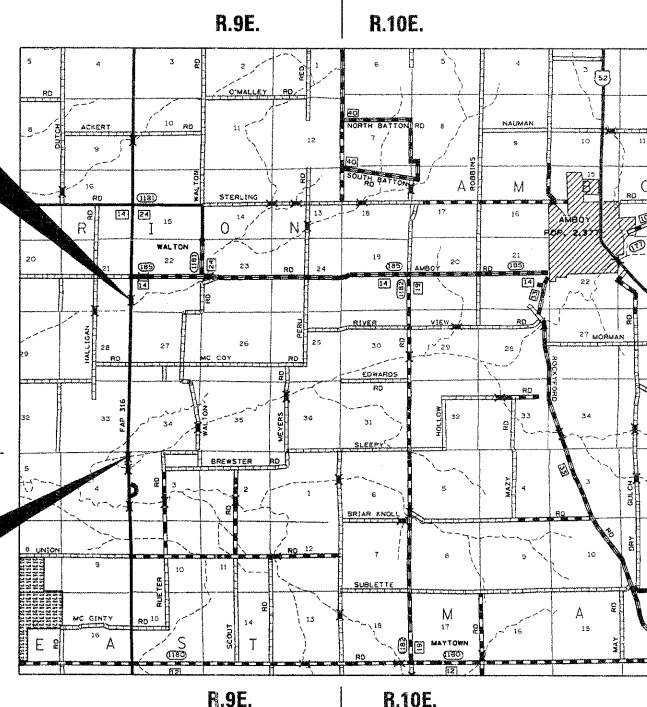
J.J.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 64B28

FAP ROUTE 316 (IL 26) SECTION 102BR-5 LEE COUNTY

PROJECT LOCATION #2  
STR. NO. 052-0025

PROJECT LOCATION #1  
STR. NO. 052-0026



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 6-1 2007

*Greg F. Brown*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29 2007  
*Eric E. Harn*  
ENGINEER OF DESIGN AND ENVIRONMENT

June 29 20 07  
*Nathan R. See*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				EXISTING STRUCTURE PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\dot\grantpm\dms41818\02-11-typoscal.dgn	grantpm	DRAWN -	REVISED -	SCALE:				SHEET NO. OF SHEETS STA. TO STA.				316	*	LEE	216	148
		CHECKED -	REVISED -									CONTRACT NO. 64D57				
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT				



# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

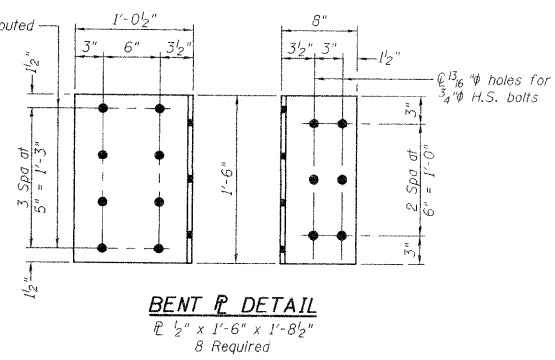
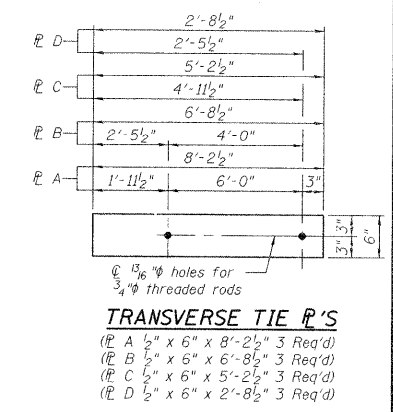
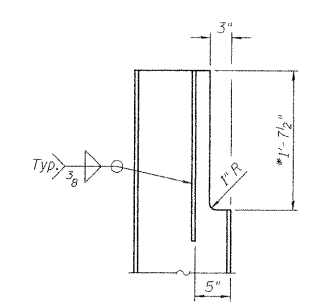
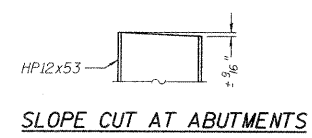
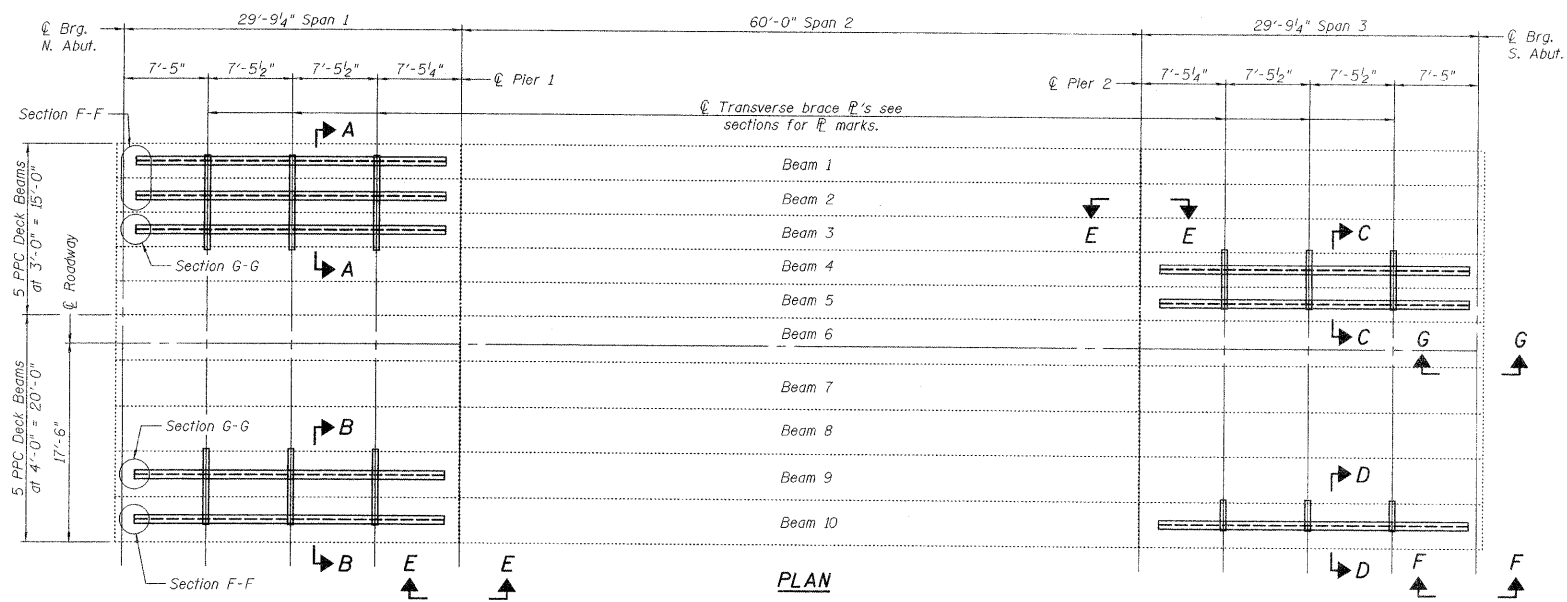
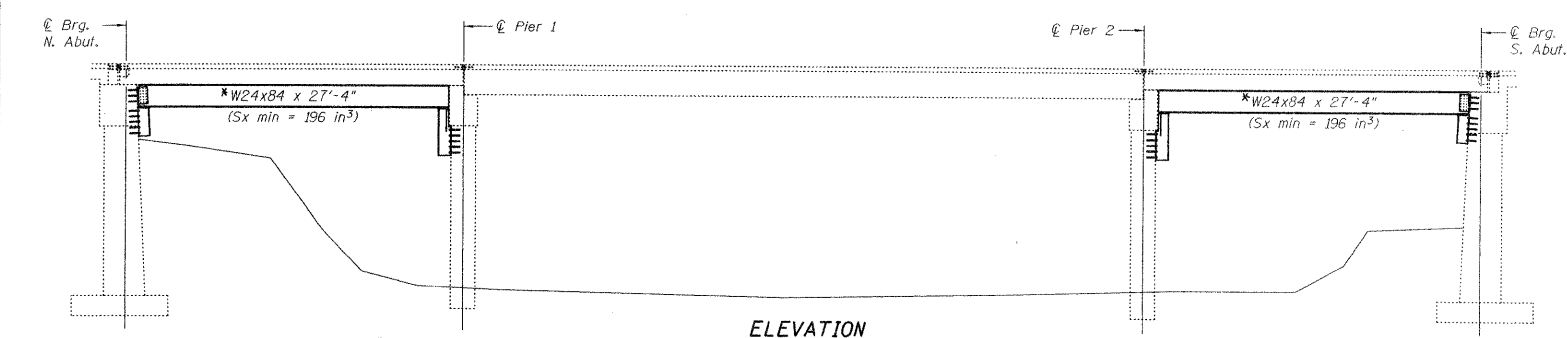
Δ (102BR) & (102BR-UM-1)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
316	Δ	Lee	28	5
SHEET NO. 1				
2 SHEETS				

Contract Number: 64B28

\*Other sections meeting the minimum section modulus shown may be used, subject to approval by the Bureau of Bridges and Structures. The maximum girder depth provided shall be 30'.



\*This dimension can be reduced if existing field conditions allow it.

DESIGNED	Victor H. Volz	DATE	June 21, 2007
CHECKED	[Signature]	EXAMINED	[Signature]
DRAWN	[Signature]	PASSED	[Signature]
CHECKED	VHV AJB		



Expires: November 30, 2008

**TOTAL BILL OF MATERIAL**

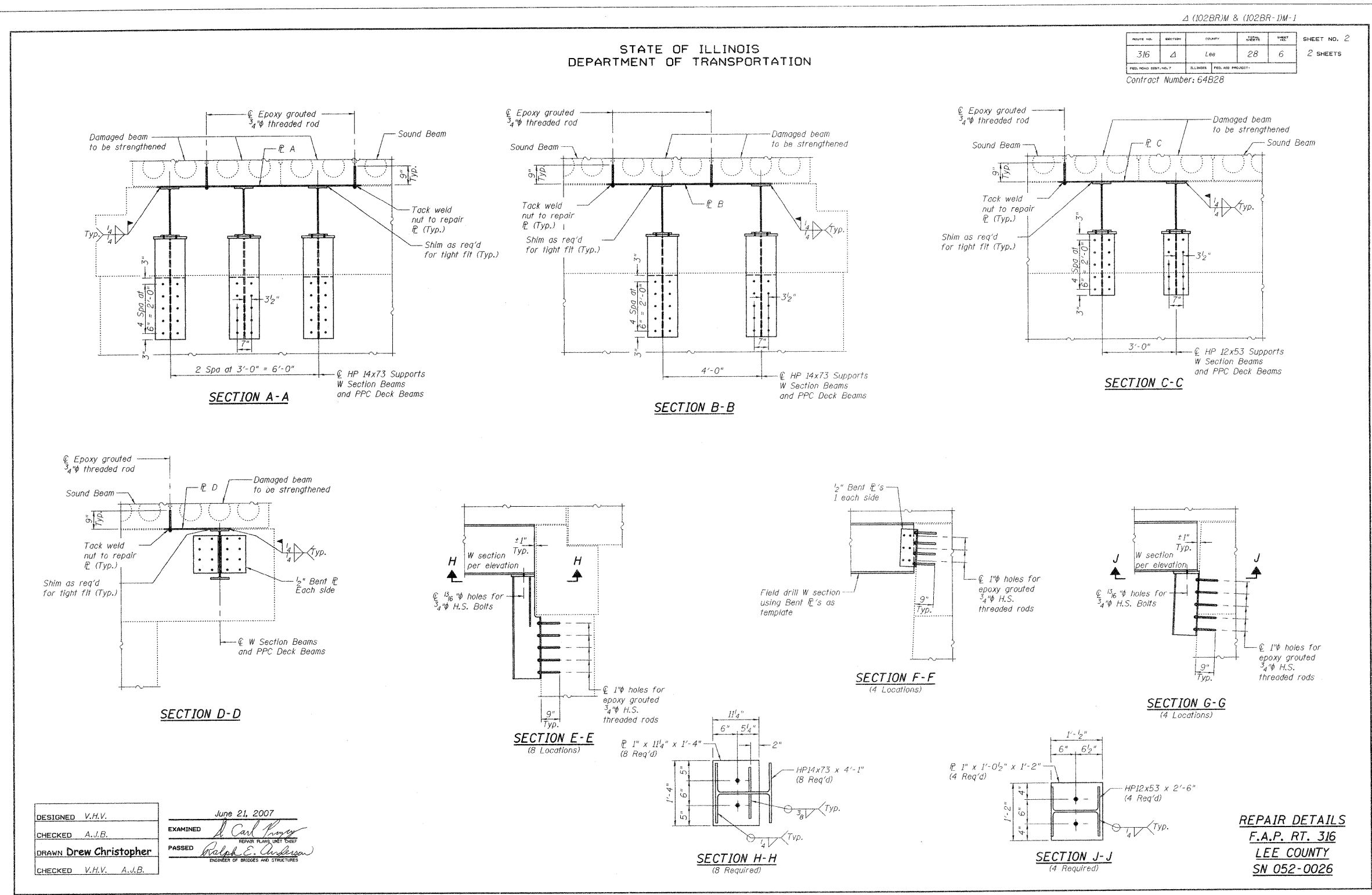
ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	23,360

**PLAN AND ELEVATION**

F.A.P. RT. 316  
LEE COUNTY  
SN 052-0026

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE PLANS</b>				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 149
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PLOT DATE = Thu Jul 14 09:31:47 2011		CHECKED -	REVISED -						ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -						102BR-5, 102BR-6, & 102BR-7				

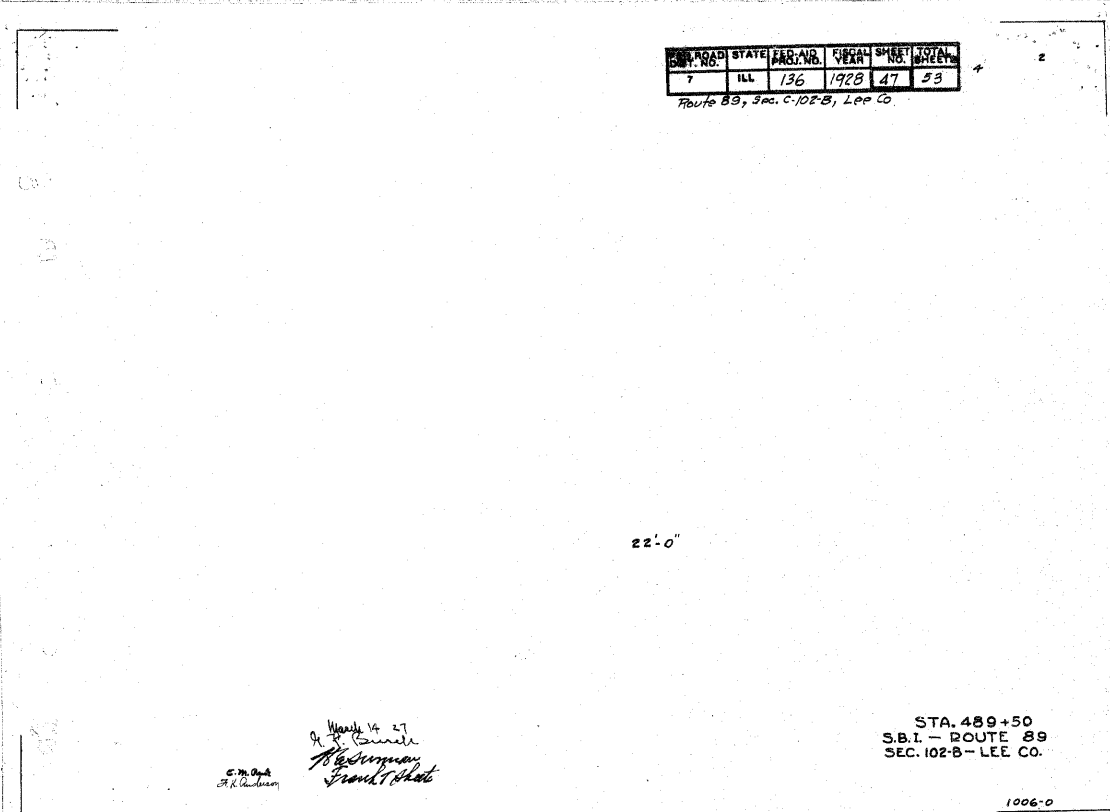
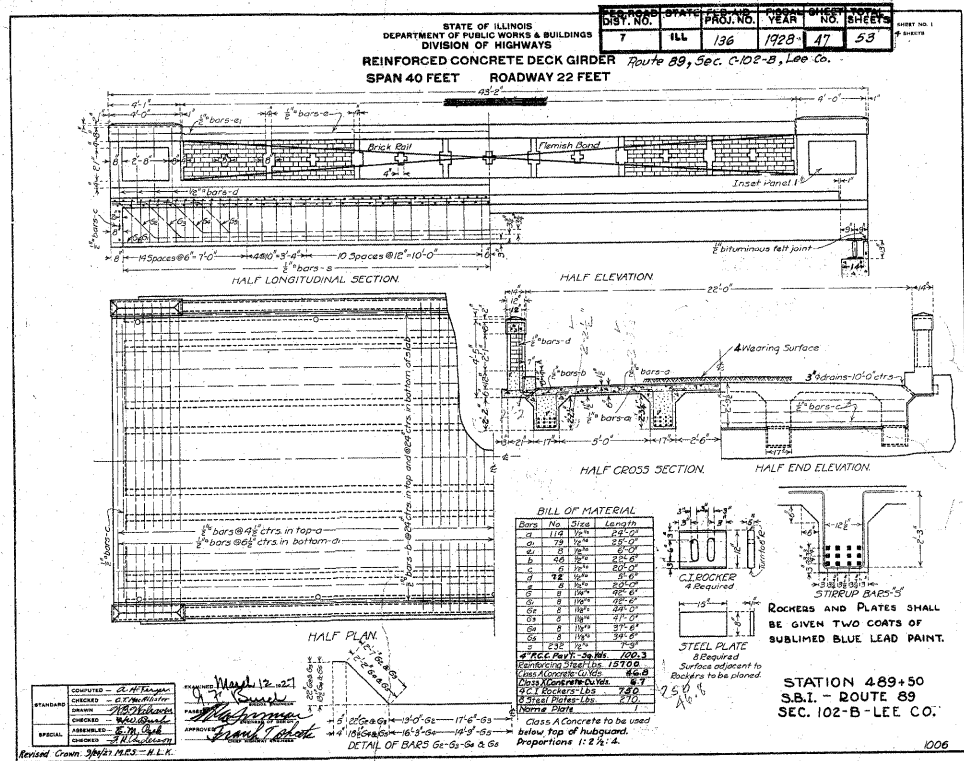
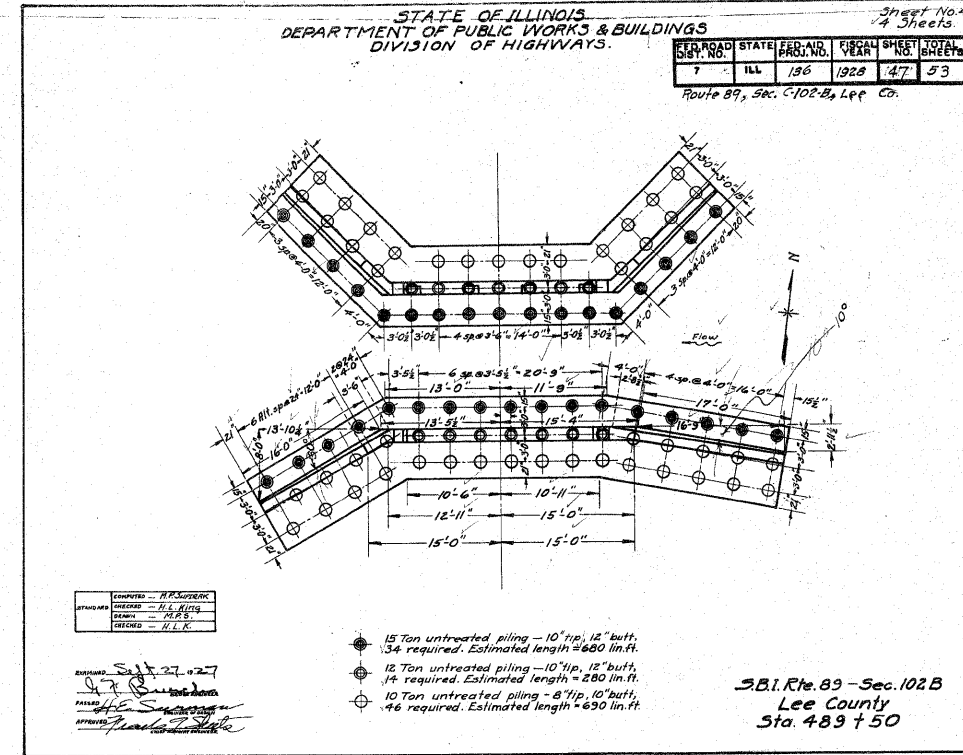
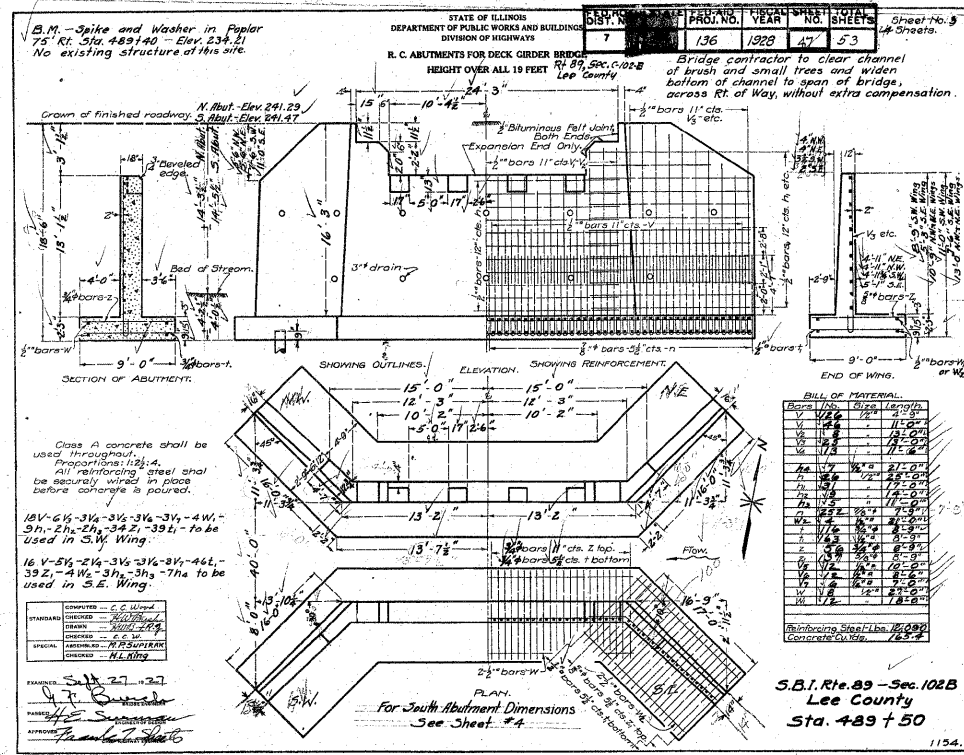
# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



SLT-92-001-07

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE PLANS</b>	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 150
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PLOT DATE = Thu Jul 14 09:31:47 2011				ILLINOIS FED. AID PROJECT		• 102BR-5, 102BR-6, & 102BR-7				

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



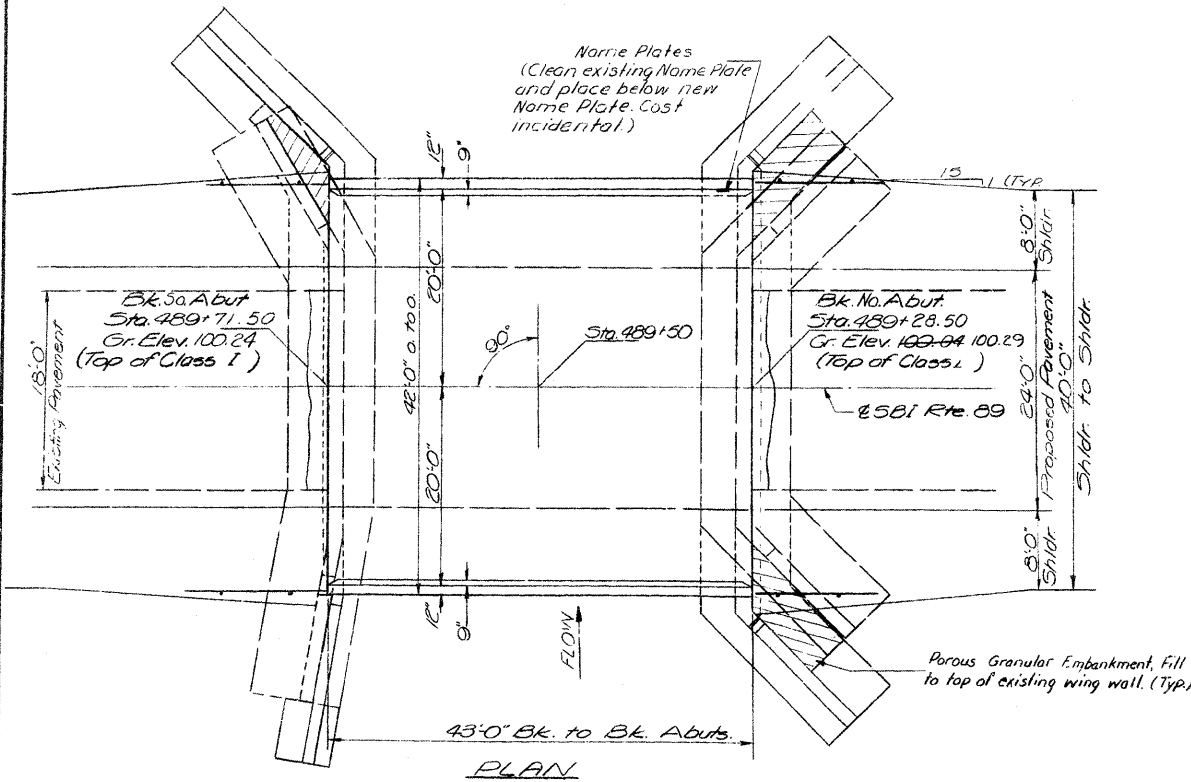
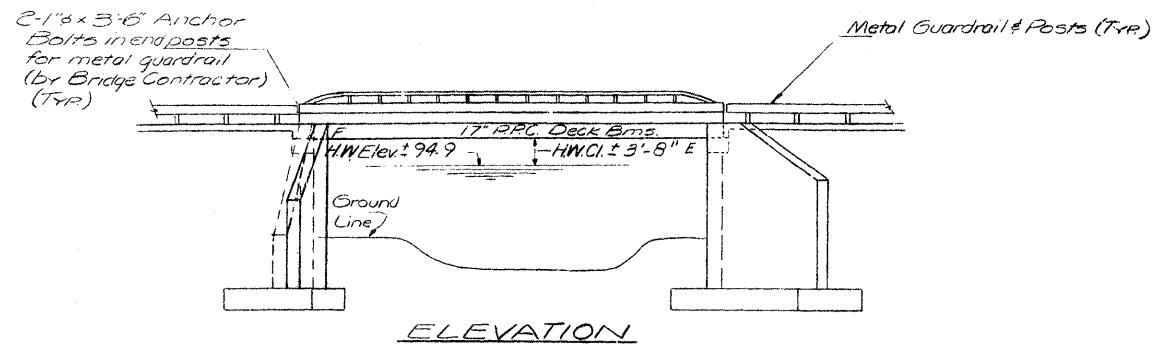
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 151
CONTRACT NO. 64D57										
ILLINOIS FED. AID PROJECT										

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
27	102BR	LEE	10	3	8 SHEETS
FED. ROAD DIST. NO. 1		UNCLAS.	FED. AID PROJECT		

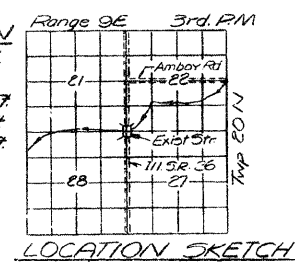
in 1929 Superstr. is RC Deck Girder. Substr. is RC Closed Abut.  
Superstructure to be removed in stages by Bridge Contr. No Salvage.



STATION 489+50  
REBUILT 19 BY  
STATE OF ILLINOIS  
SBI RT. 89 SEC. 102-BR

LOADING H520  
NAME PLATE  
See Std. 2113

**WATERWAY INFORMATION**  
Drainage Area, 174.50 Mi.  
Character, Rolling, sand wooded  
Present Opening 360 Sq. Ft.  
Revd. Opening 360 Sq. Ft.  
Proposed Opening 360 Sq. Ft.  
Q(50) 1221 cfs.



**GENERAL NOTES**

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.  
All structural steel shall be shop painted with 2 coats of basic lead silico chromate paint.  
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.  
For Waterproofing Membrane System, see Special Provisions.  
The concrete rail section above deck beam shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.  
Protective Coag shall not be applied to surfaces to which Waterproofing Membrane System is applied.  
Expansion bolts shall consist of self drilling expansion anchors and 3/4" dia x 9" hooked bolts.  
Back surface of the new abutment and wing walls shall be waterproofed above the top of the footings.  
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(C) of the Standard Specifications and are included in quantity of structural steel.  
The top surfaces of the beams shall be finished in accordance with Art 505.06 of the Standard Specifications except that the surface shall not be roughened by braaming. The finished surface shall be free of depressions or high spots with sharp corners.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Removal of Existing Superstructure	Each	1		1
Concrete Removal	Cu. Yds		5	5
Class X Concrete	Cu. Yds	12.2	113.9	126.8
Aluminum Foiling	Lin. Ft	80		80
Reinforcement Bars	Lbs	1380	11240	12620
Portland Cement Mortar Furring	Lin. Ft	551		551
Waterproofing Memb. Syst.	Sq. Yds	194		194
Preformed Jt. Sealer	Lin. Ft	45		45
Pav't. Removal and RCC Replacement Type I (10")	Sq. Yds	3		3
Precast Prestressed Concrete Deck Beams (17")	Sq. Ft	1773		1773
Protective Coag	Sq. Yds	3E		3E
Expansion Bolts 3/4" dia	Each		155	155
Temporary Guardrail	Lin. Ft	43		43
Structural Steel	Lbs.	2800		2800
Name Plates	Each	1		1
Bituminous Concrete Surface Course Class I	Tons	23		23
Unretreated Piles (up to 30')	Lin. Ft		660	660
Test Pile (Timber)	Each		1	1
Porous Granular Embankment	Cu. Yds		60	60

**GENERAL PLAN & ELEVATION  
SBI RTE. 89 SEC. 102-BR  
LEE COUNTY  
STA. 489+50**

**DESIGNED** J.M. Patel  
**CHECKED** J. Ferrando  
**DRAWN** FERRANDO  
**CHECKED** J. Ferrando

**EXAMINED** November 24 2011  
**PASSED** Richard H. Gatterman  
**APPROVED** Richard H. Gatterman

**FIELD UNITS**  
fc: 1400 psi (Super) (Sub)  
fs: 20000 psi (Reinf.)  
vc: 75 psi (Footng)  
n: 10

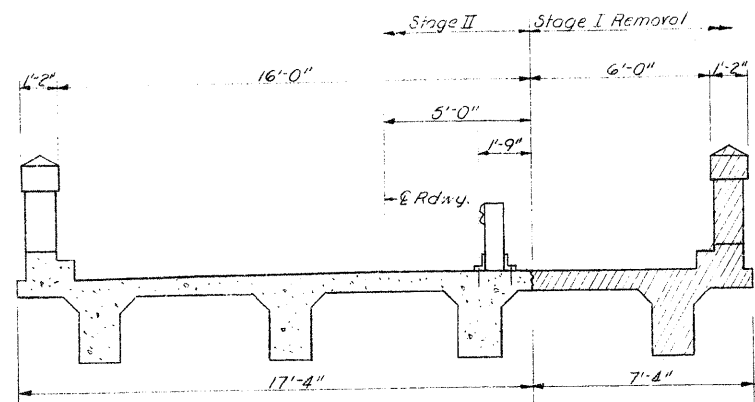
**PRECAST PRESTRESSED UNITS**  
fc: 5000 psi  
fs: 4000 psi  
fs: 270,000 psi  
fs: 189,000 psi

**LOADING H520-44**

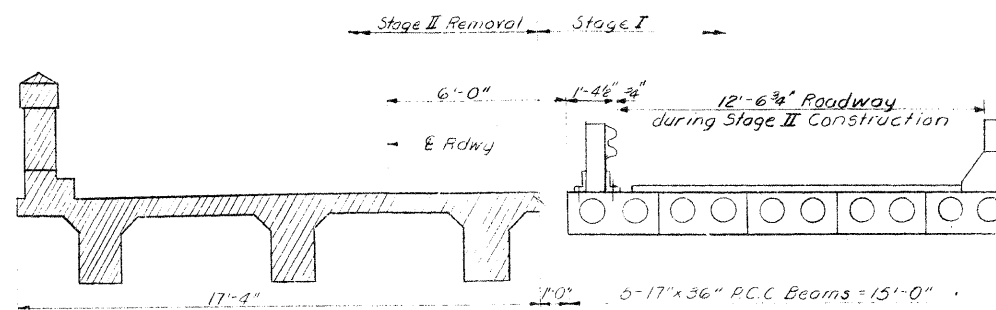
# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

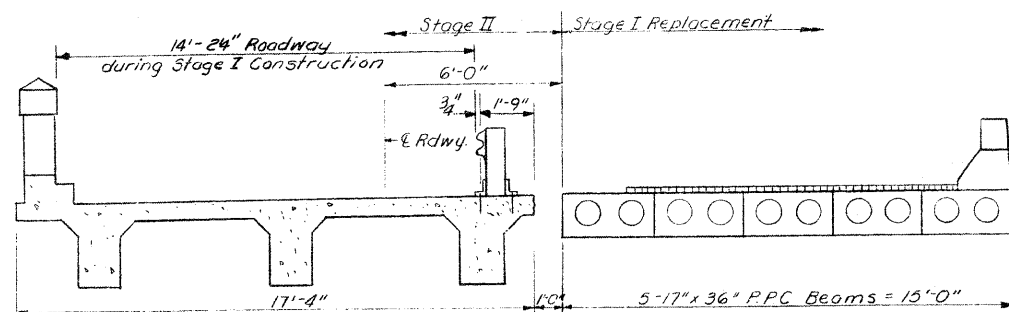
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27	102BR	LEE	10	4	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		



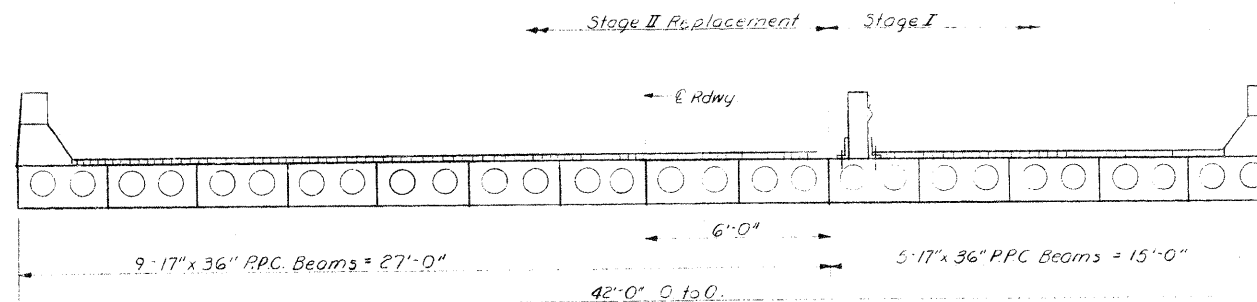
STAGE I DECK REMOVAL



STAGE II DECK REMOVAL

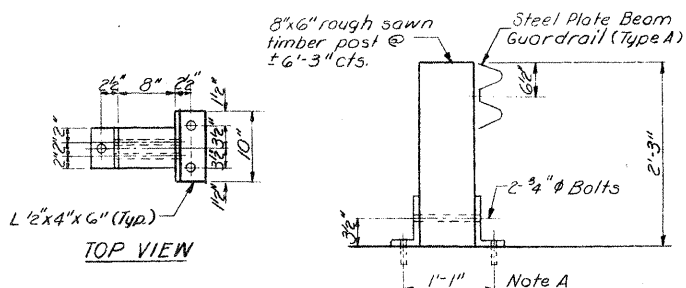


STAGE I DECK REPLACEMENT



STAGE II DECK REPLACEMENT

ALL SUPERSTRUCTURE VIEWS LOOKING NORTH

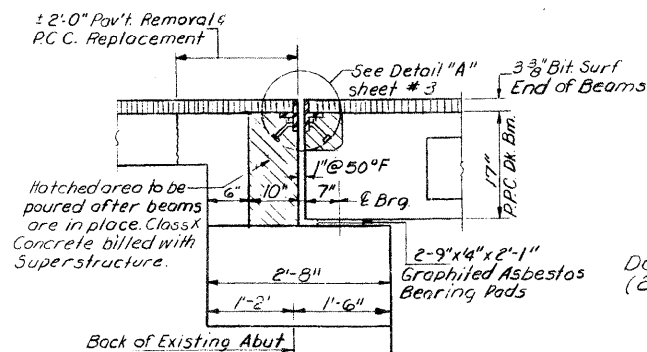


Note A: Temporary Guardrail Anchors  
Stage I: 3-3/4" Self-drilling expansion bolts in existing deck  
Stage II: 3-3/4" bolts cast in deck beam. Burn flush after guardrail removal.

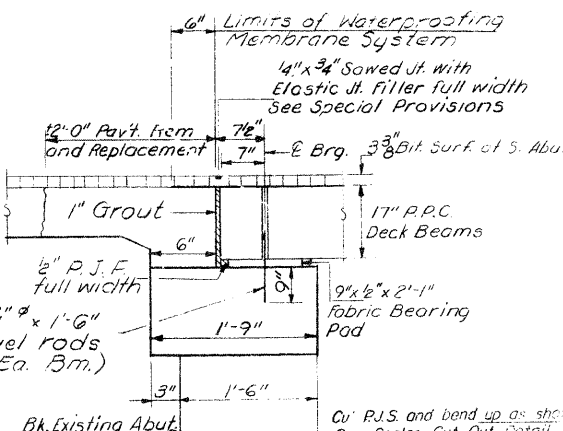
TEMPORARY GUARDRAIL DETAIL  
See Special Provisions

DESIGNED	J. M. Pate
CHECKED	[Signature]
DRAWN	Ben Robinson
CHECKED	[Signature]

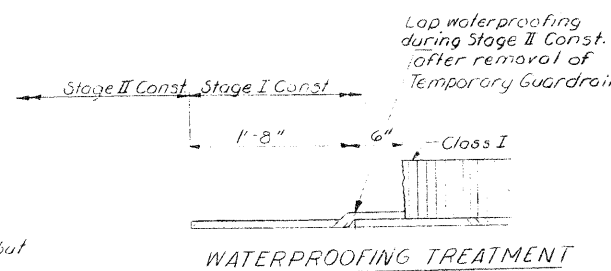
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PASSED	[Signature]	
APPROVED	[Signature]	



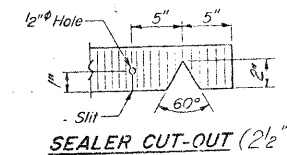
SECTION THRU NORTH ABUT.  
AT C.R.W.Y.



SECTION THRU SOUTH ABUT.  
AT C.R.W.Y.



WATERPROOFING TREATMENT



SEALER CUT-OUT (2 1/2")

STAGE CONSTRUCTION SUPERSTRUCTURE DETAILS  
SBI RT 89 SEC 102 BR  
LEE COUNTY  
STA 489+50

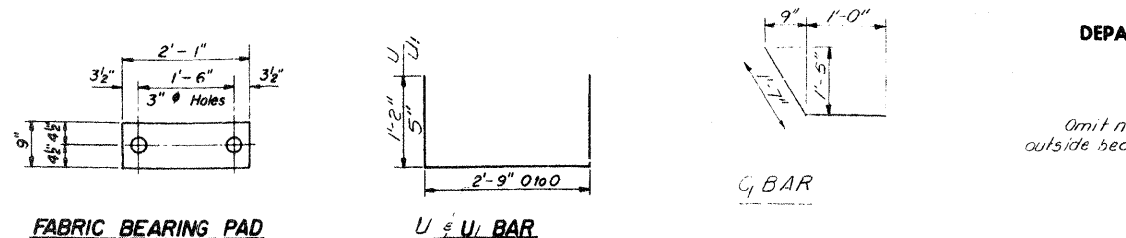
END OF DECK TREATMENT

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Thu Jul 14 10:19:56 2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

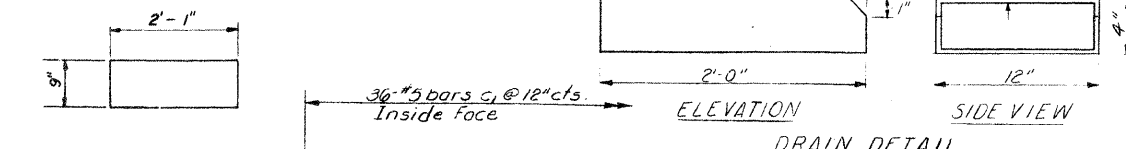
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
27	102BR	LEE	10	5
SHEET NO. 5 OF 10 SHEETS				



FABRIC BEARING PAD

U & U BAR

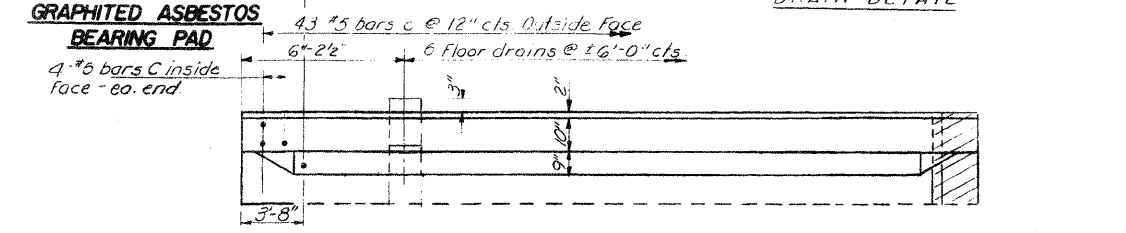


GRAPHITED ASBESTOS BEARING PAD

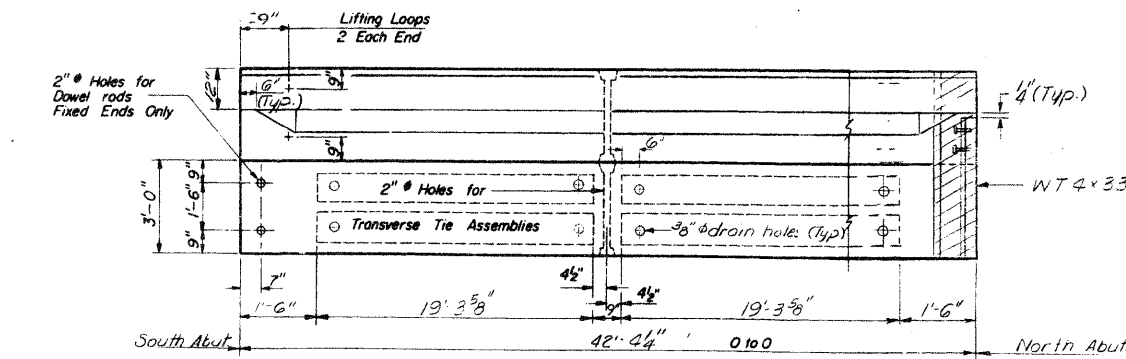
ELEVATION

SIDE VIEW

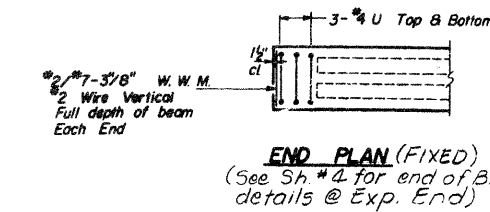
DRAIN DETAIL



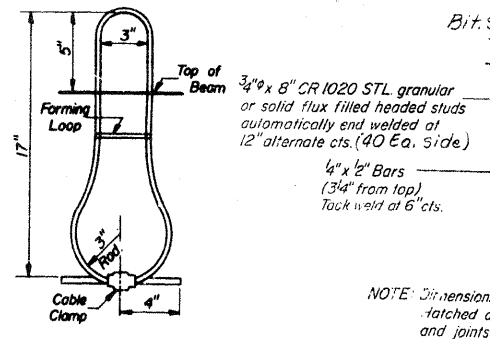
PLAN OF OUTSIDE BEAM



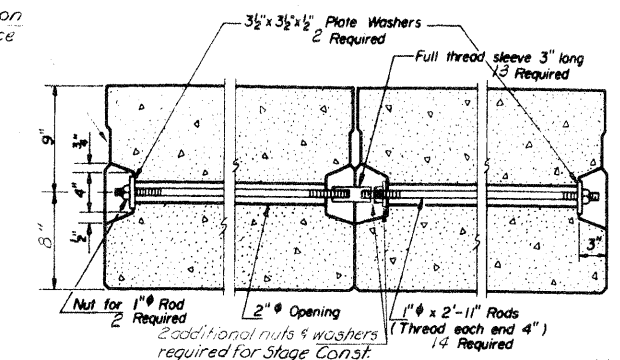
PLAN



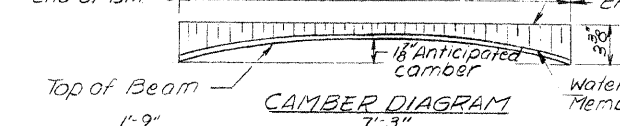
END PLAN (FIXED)  
(See Sh. #4 for end of Bm details @ Exp. End)



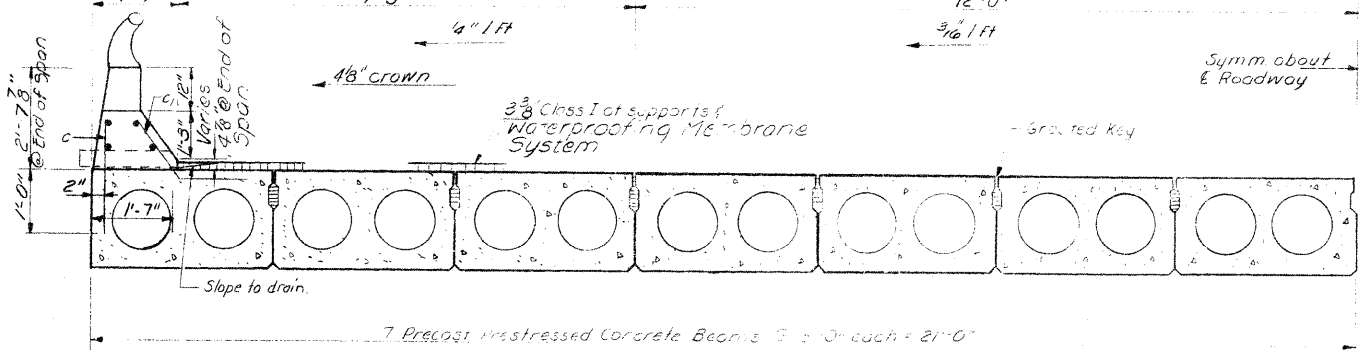
LIFTING LOOP DETAIL



TYPICAL TRANSVERSE TIE ASSEMBLY

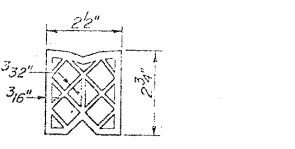


CAMBER DIAGRAM

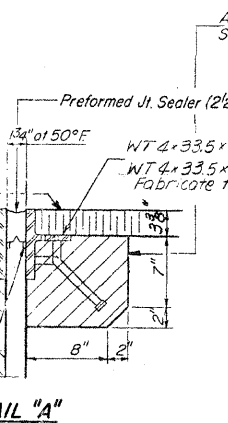


TYPICAL SECTION

HALF CROSS SECTION



DBAR



DETAIL "A"

PREFORMED JOINT SEALER (2'x2')

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.113 sq. in. Lifting loops shall be 1/2" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Dowel rods shall be AASHTO M 227 or AASHTO M 31. Transverse tie rods shall be AASHTO M 227 Grade 70-80. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHTO Designation M 232. Cost of reinforcement and accessories cast into the beam, of bearing pads, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams". Drains shall be of Aluminum sheets welded ASTM: B 209 alloy 6061-T6. Cost of drains shall be incidental to Class X Concrete.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	3	#5	15'-9"	
b1	3	#5	27'-9"	
Precast Prestressed Concrete Deck Beams (17")		Sq. Ft.	1772	
Class X Concrete		Cu. Yds.	3.5	
Reinforcement Bars		Lbs	140	

For Curbs, parapet details and quantities see Sheet #4.

SUPERSTRUCTURE  
SBI RT 89 SEC. 102-BR  
LEE COUNTY  
STA. 489+50

DESIGNED	J. M. Patel
CHECKED	BKR
DRAWN	JAMES R. CARMAN
CHECKED	BKR
EXAMINED	Nov. 24 1971
PASSED	Richard H. Holterman
APPROVED	Richard H. Holterman

PD-1-S 11-19-65 Rev 5-20-68

NOTE: Dimensions are at right angles. Patched areas to be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the expansion joints. Any linear variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement. Sheet #4.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	154
CONTRACT NO. 64D57				

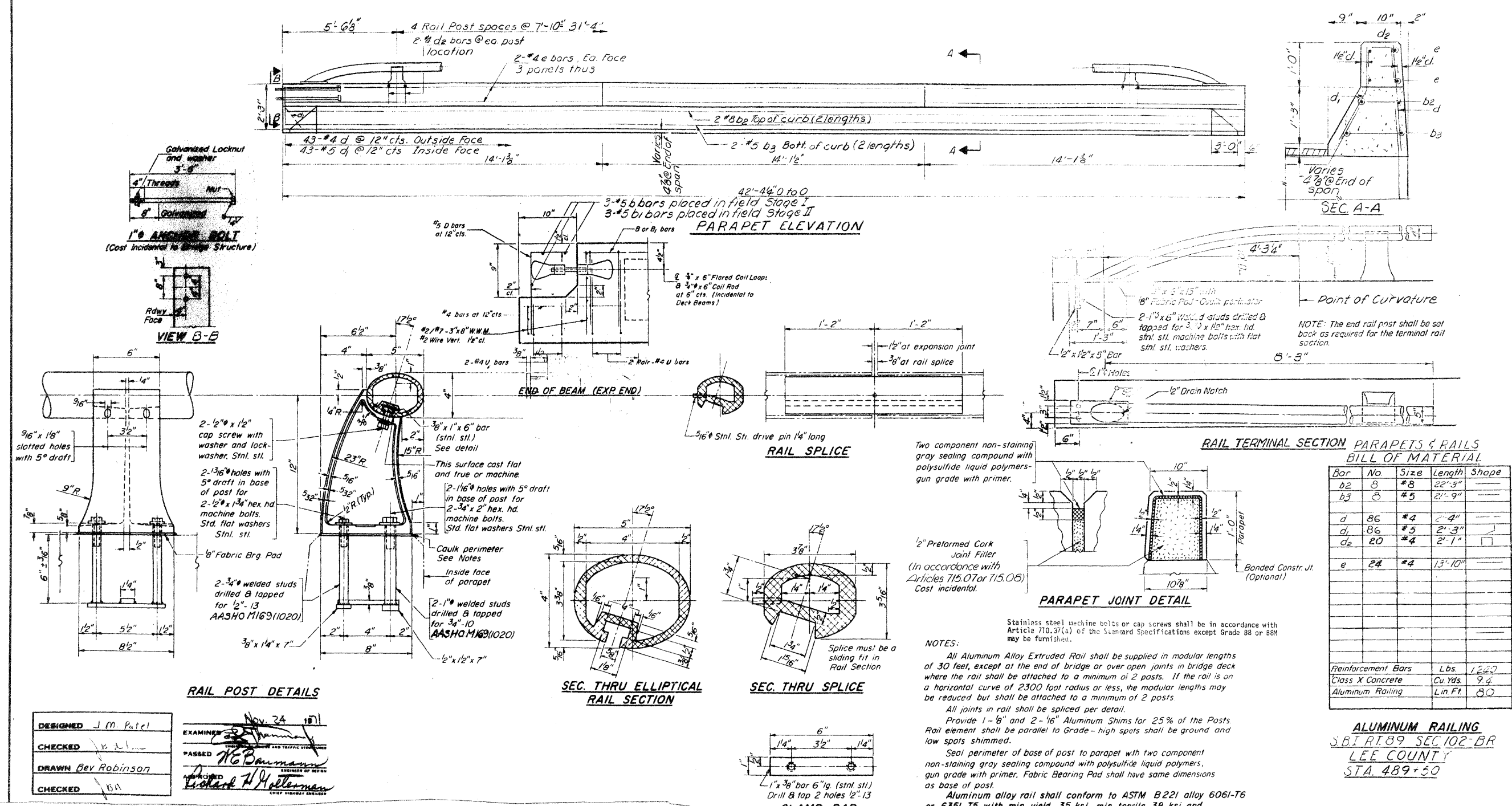
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PLOT DATE = Thu Jul 14 18:19:56 2011		DATE -	REVISED -

SCALE: SHEET NO. OF SHEETS STA. TO STA.

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 8 SHEETS
27	102BR	LEE	10	6	
FED. ROAD DIST. NO. 1 - ILLINOIS FED. AID PROJECT					



Bar	No.	Size	Length	Shape
b2	8	#8	22'-3"	
b3	8	#5	21'-9"	
d	86	#4	2'-4"	
d1	86	#5	2'-3"	
d2	20	#4	2'-1"	
e	24	#4	13'-10"	
Reinforcement Bars	Lbs.	1220		
Class X Concrete	Cu Yds.	9.4		
Aluminum Railing	Lin Ft.	80		

**ALUMINUM RAILING**  
SBI R.T. 89 SEC. 102-BR  
LEE COUNTY  
STA. 489+50

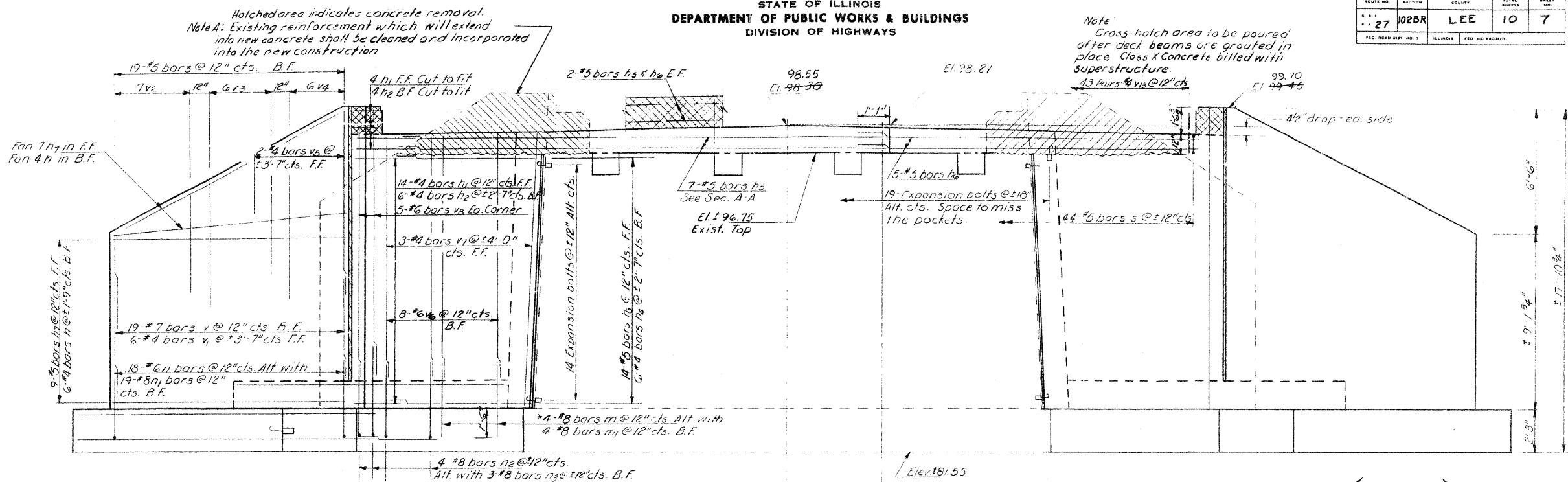
**DESIGNED** J.M. Patel  
**CHECKED** [Signature]  
**DRAWN** Bev Robinson  
**CHECKED** [Signature]

**EXAMINED** [Signature] Nov 24 10/1  
**PASSED** [Signature] H.G. Baumann  
**APPROVED** [Signature] Richard F. Hollerman

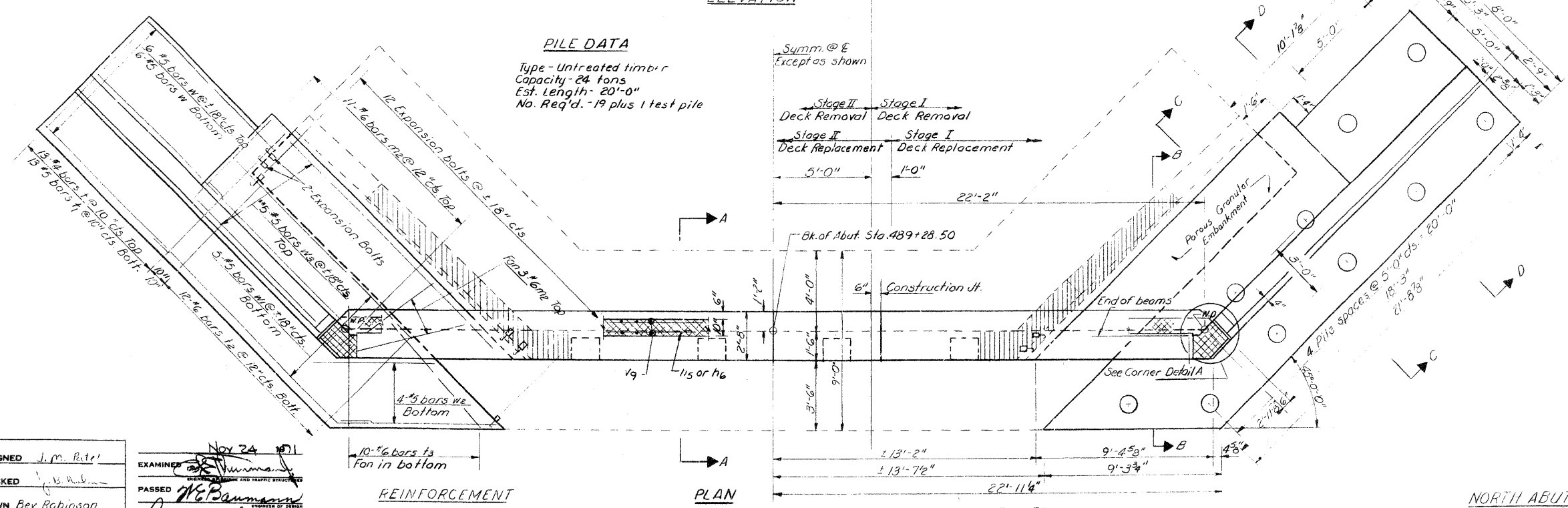
# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

ROUTE NO. 27	SECTION 102BR	COUNTY LEE	TOTAL SHEETS 10	SHEET NO. 7	SHEET NO. 5 8 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

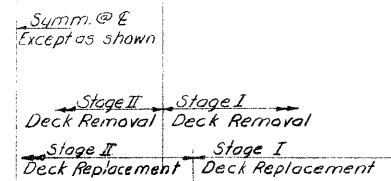


ELEVATION



**PILE DATA**

Type - Untreated timber  
Capacity - 24 tons  
Est. Length - 20'-0"  
No. Req'd. - 19 plus 1 test pile



DESIGNED	J.M. Rute!
CHECKED	[Signature]
DRAWN	Ber Robinson
CHECKED	[Signature]
EXAMINED	[Signature] Nov 24 2011
PASSED	[Signature] 11/6/2011
APPROVED	[Signature] Richard H. Holtzman

REINFORCEMENT

PLAN

OUTLINES

\* m & n bars drilled & grouted into existing footing. See sheet #6 for Bar Details, Sections, & Bill of Material.  
\*\* Order w/s bars full length, cut to fit & use balance of bars in opposite end.

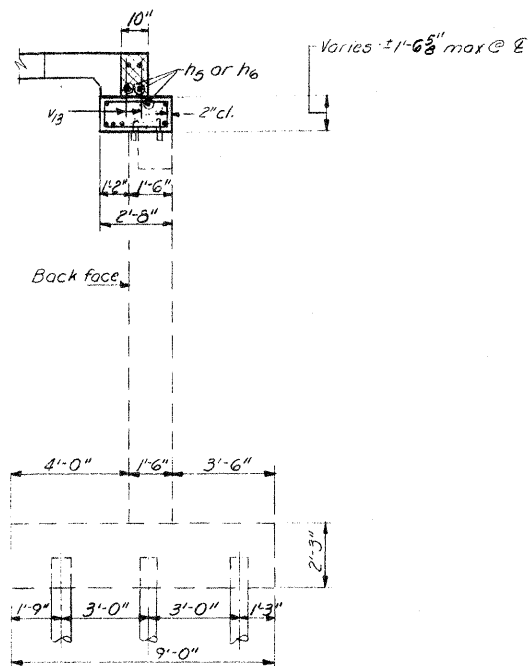
NORTH ABUTMENT  
S.B.T. RT 89 SEC 102-BF  
LEE COUNTY  
STA. 489+50



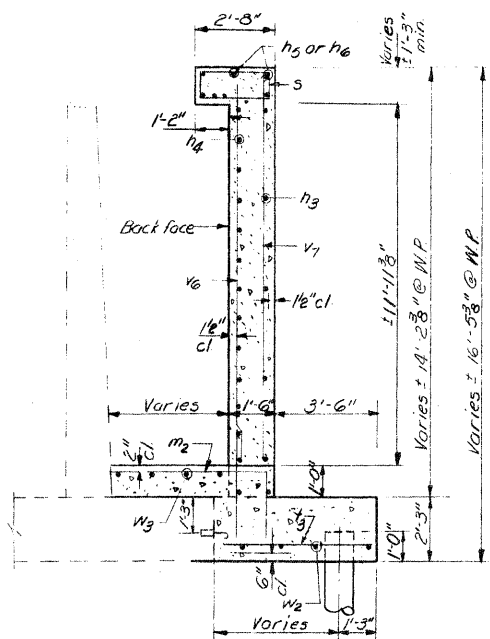
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DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

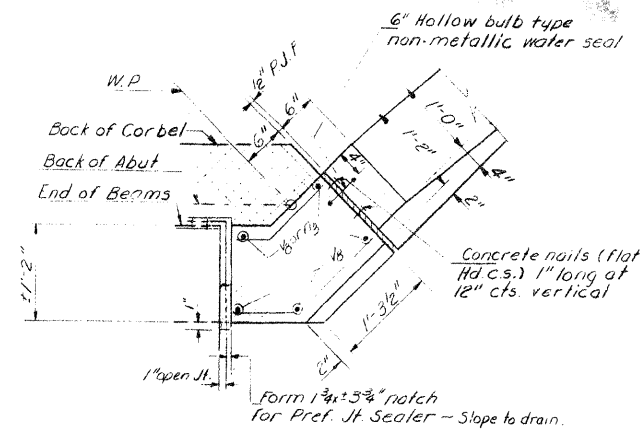
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27	102BR	LEE	10	8	
<small>FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT</small>					



SECTION A-A

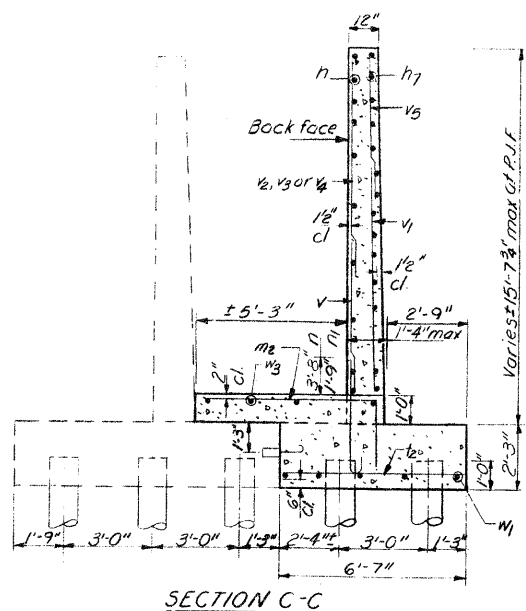


SECTION B-B

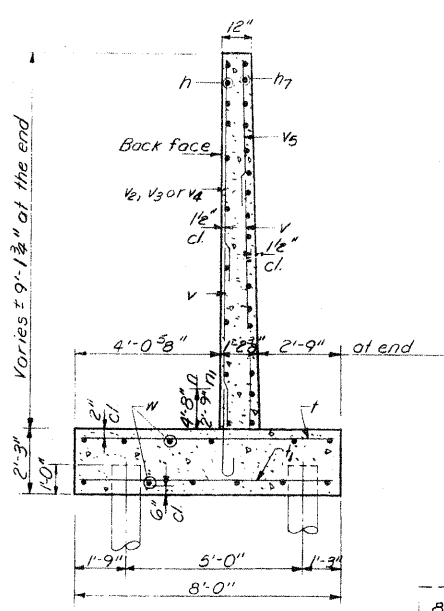


CORNER DETAIL A

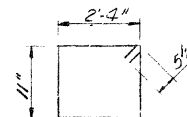
*Note:* Cross-hatched portion to be poured after beams are in place. Quantity billed with superstructure.



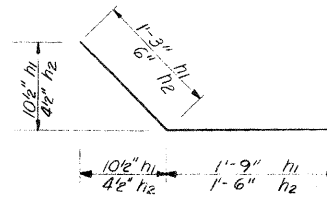
SECTION C-C



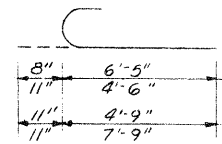
SECTION D-D



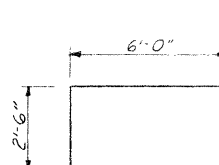
BARS



BARS h<sub>1</sub> & h<sub>2</sub>



BARS n, n<sub>1</sub>, n<sub>2</sub> & n<sub>3</sub>



BAR m<sub>2</sub>

### NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
n	20	#4	18'-0"	□	t3	20	#6	7'-0"	□
n1	36	#4	3'-0"	□	v1	38	#7	6'-3"	□
n2	20	#4	2'-0"	□	v2	12	#2	12'-0"	□
n3	28	#5	9'-0"	□	v3	12	#5	7'-3"	□
h1	12	#4	7'-3"	□	v4	12	#5	9'-6"	□
h2	11	#5	28'-0"	□	v5	4	#4	5'-0"	□
h3	11	#5	17'-0"	□	v6	16	#6	13'-1"	□
h4	32	#5	18'-0"	□	v7	6	#2	15'-1"	□
m	8	#8	4'-6"	□	v8	10	#6	14'-6"	□
m1	8	#8	7'-6"	□	v13	86	#4	2'-2"	□
m2	28	#6	8'-6"	□	w	24	#5	9'-9"	□
n	36	#6	7'-1"	□	w1	10	#5	14'-6"	□
n1	38	#8	5'-5"	□	w2	8	#5	8'-9"	□
n2	8	#8	5'-8"	□	w3	5	#5	24'-6"	□
n3	6	#8	8'-8"	□	s	44	#5	7'-5"	□
t	26	#4	7'-9"	□	Reinforcement Bars Lbs 6910				
t1	25	#5	7'-9"	□	Class 1 Concrete Cu Yds 67.6				
t2	24	#6	6'-3"	□	Concrete Removal Cu Yds 2				
					Exp Bolts 3/4" Ea 56				
					Untreated Piles Lin. Ft 380				
					Test Pile Timber Ea 1				

NORTH ABUTMENT DETAILS  
SBI RT 89 SEC 102-BR  
LEE COUNTY  
STA 489+50

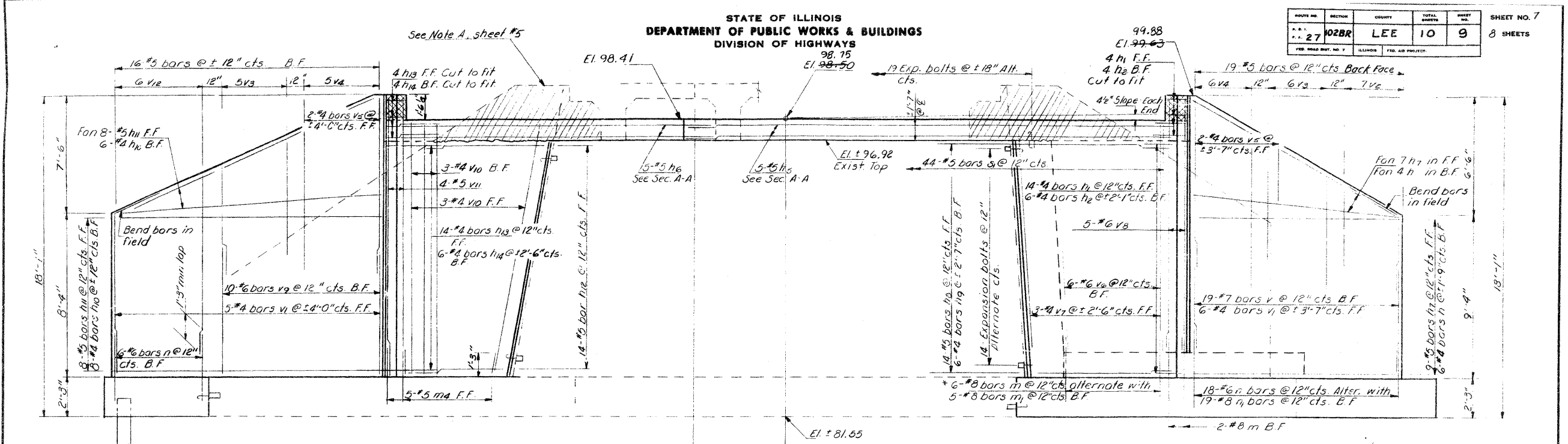
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CHECKED [Signature]  
DRAWN Bev Robinson  
CHECKED [Signature]

Nov. 24 1971  
EXAMINED [Signature]  
PASSED [Signature]  
APPROVED [Signature]

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

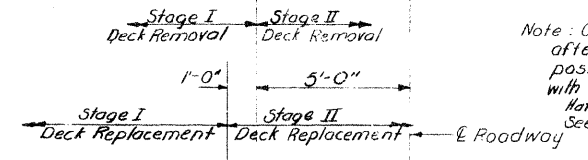
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27	102BR	LEE	10	9	8 SHEETS
ILLINOIS FED. AID PROJECT					



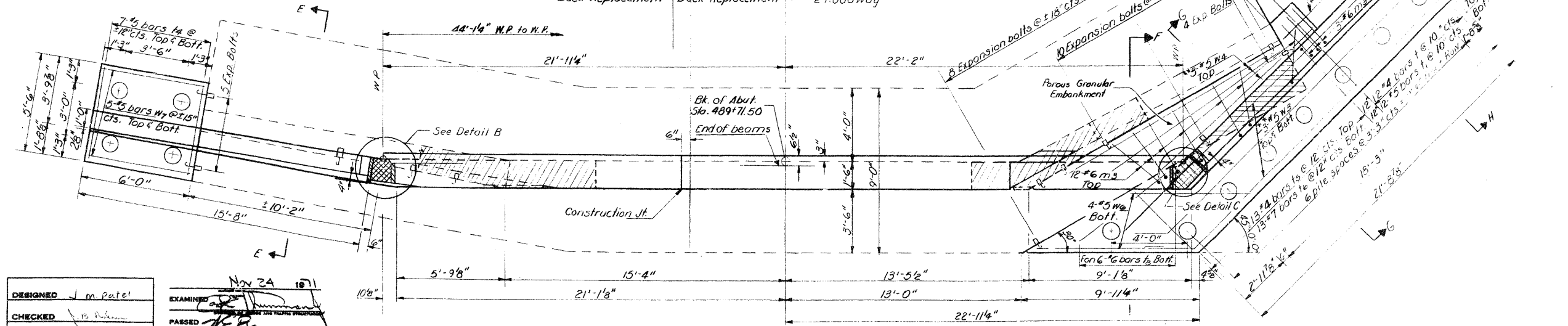
ELEVATION

**PILE DATA**  
Type - Untreated Timber  
Capacity - 24 tons  
Est Length - 20'-0"  
No. Required - 14

for detail of Expansion Bolt placement see Sh. #3.



Note: Cross-hatched areas to be poured after deck beams have been fixed in position. Quantity of Class X Concrete billed with superstructure. Hatched area to be removed. See Note A, sheet 5.



PLAN

for Bars h1, h2, n and m1, see Sh. #6.  
for Sections E-E, F-F, G-G, H-H, Details B, C & Bill of Material see Sh. #3  
\* Bars m1, m2, m3 drilled & grouted into existing footing  
\* Bend in field.

SOUTH ABUTMENT  
S.B.I. RT 89 SEC 102-P  
LEE COUNTY  
STA 489+50

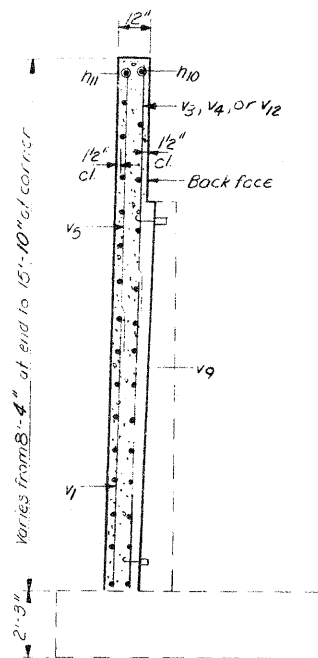
DESIGNED	J. M. Patel	EXAMINED	Nov 24 2011
CHECKED	J. B. Robinson	PASSED	H. G. Bannister
DRAWN	Bev Robinson	APPROVED	Richard J. Hottelmann
CHECKED	J. B. R.		

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			EXISTING STRUCTURE PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\grantpm\dms4181\02-11-typical.dgn		DRAWN -	REVISED -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.			316	*	LEE	216	158
PLOT SCALE = 50.0000 1/16"		CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT			CONTRACT NO. 64D57			CONTRACT NO. 64D57				
PLOT DATE = Thu Jul 14 10:19:56 2011		DATE -	REVISED -	102BR-5, 102BR-6, & 102BR-7										

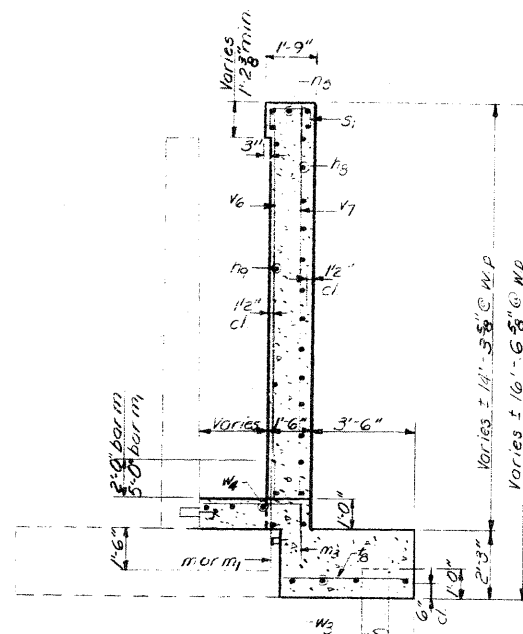
# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

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

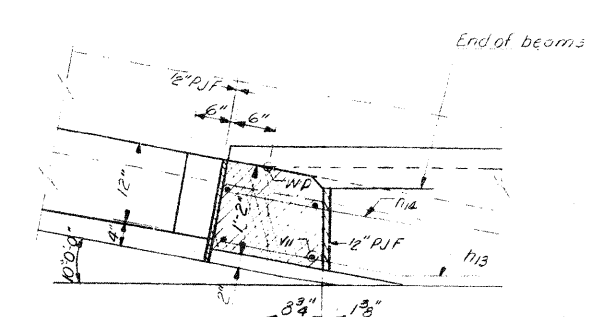
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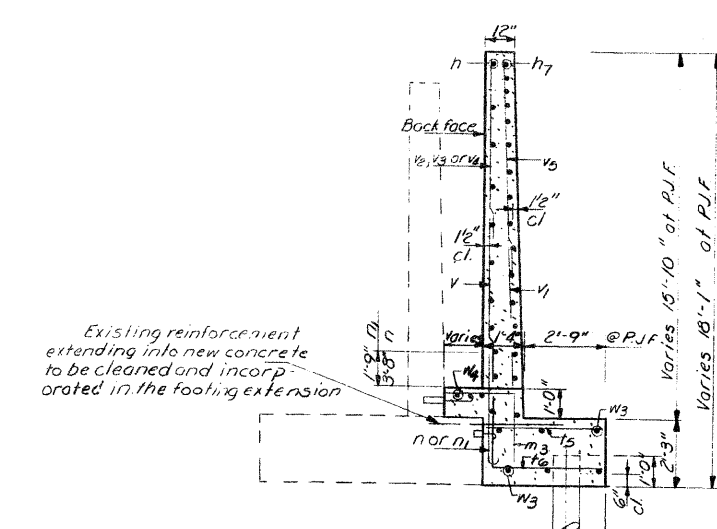
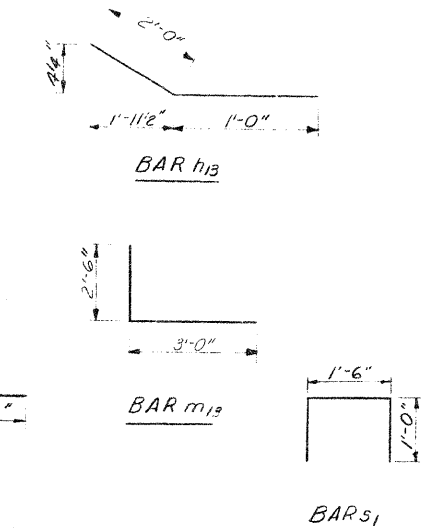
SECTION E-E



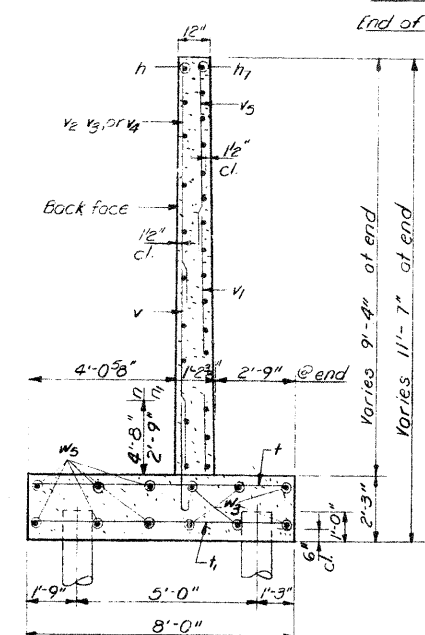
SECTION F-F



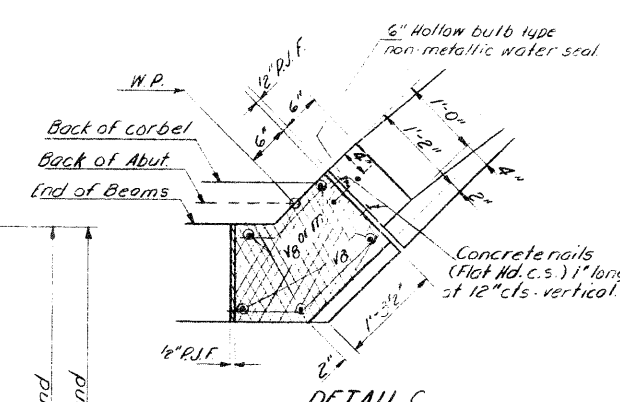
DETAIL B



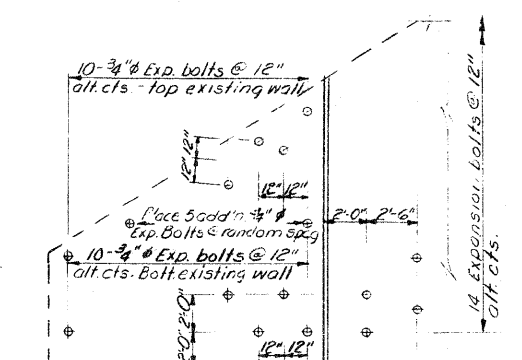
SECTION G-G



SECTION H-H



DETAIL C



EXPANSION BOLT PLACEMENT - S.W. CORNER

### SOUTH ABUTMENT BILL OF MATERIAL

Bar No	Size	Length	Shape	Bar No	Size	Length	Shape
h	#4	18'-0"		h	#4	7'-9"	
h1	#4	3'-0"		h1	#4	5'-3"	
h2	#4	2'-0"		h2	#4	3'-9"	
h3	#5	28'-0"		h3	#7	5'-0"	
h4	#5	17'-0"		h4	#6	5'-0"	
h5	#5	18'-0"		v	#7	6'-3"	
h6	#5	8'-3"		v1	#2	12'-0"	
h7	#4	6'-9"		v2	#5	6'-3"	
h8	#4	15'-5"		v3	#5	7'-3"	
h9	#5	15'-5"		v4	#5	9'-6"	
h10	#5	5'-6"		v5	#4	5'-0"	
h11	#4	3'-0"		v6	#6	13'-1"	
h12	#4	2'-9"		v7	#4	13'-1"	
m	#8	4'-6"		v8	#6	14'-6"	
m1	#8	7'-6"		v9	#6	7'-3"	
m2	#5	2'-6"		v10	#4	14'-0"	
m3	#6	5'-6"		v11	#5	15'-6"	
n	#6	7'-1"		v12	#5	8'-0"	
n1	#8	5'-5"		w3	#5	24'-6"	
s1	#5	3'-6"		w4	#5	10'-0"	
t	#4	7'-9"		w5	#5	10'-9"	
				w6	#5	9'-3"	
				w7	#5	5'-9"	
Concrete Removal		Cu Yds	3	Class X Concrete		Cu Yds	46.3
Untreated Piles		Lin Ft	280	Expansion Bolts		#	99
Reinforcement Bars		Lbs	4330				

SOUTH ABUTMENT DETAILS  
S.B.I. RT. 89 SEC. 102-BR  
LEE COUNTY  
STA. 489+50

DESIGNED	J.M. Patel
CHECKED	J.A. Nelson
DRAWN	Ben Robinson
CHECKED	J.B.N.

Nov 24 19  
EXAMINED  
PASSED  
APPROVED

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

## PROPOSED HIGHWAY PLANS

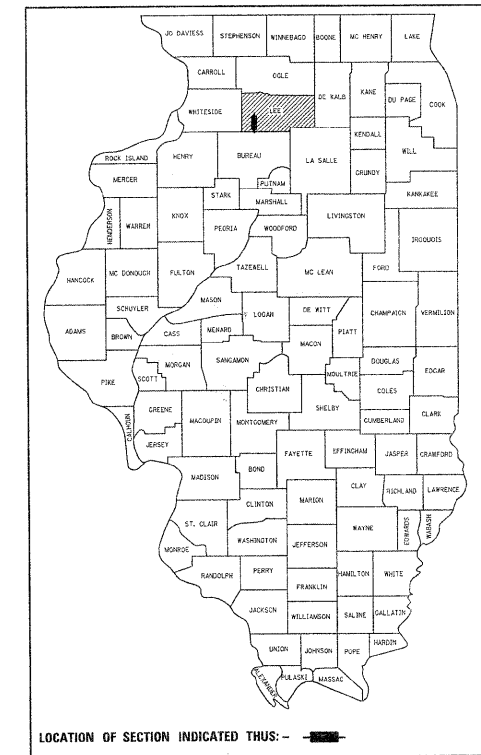
FAP ROUTE 316 (IL26)  
SECTION (102BR)M & (102BR-1)M-1

LEE COUNTY  
C-92-015-06

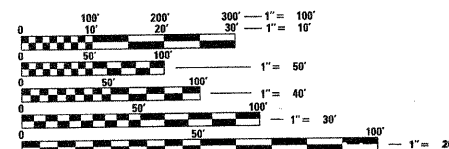
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR STATE STANDARDS, SEE SHEET NO. 2

316 \* LEE 28

D-92-091-05



MARION TOWNSHIP SECTION - 21 & 22  
EAST GROVE SECTION - 3 & 4



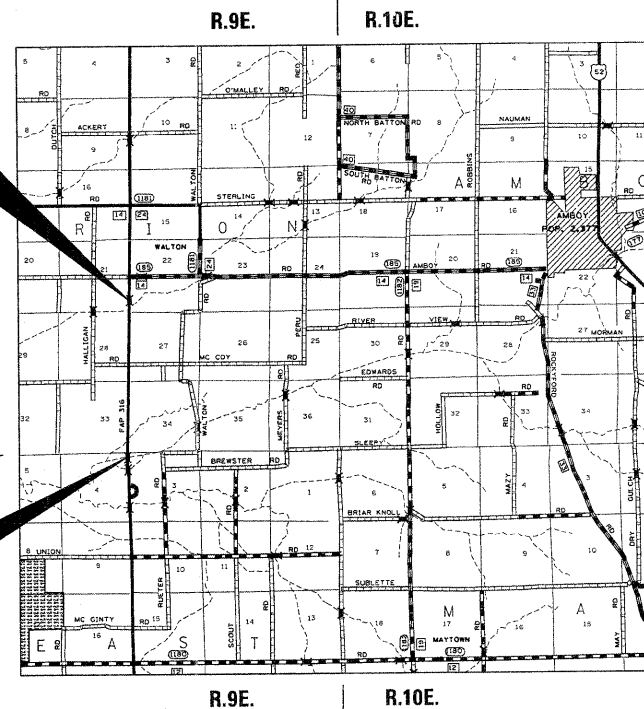
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 64B28

PROJECT LOCATION #2  
STR. NO. 052-0025

PROJECT LOCATION #1  
STR. NO. 052-0026



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 6-1-2007  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29, 2007  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2007  
*[Signature]*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

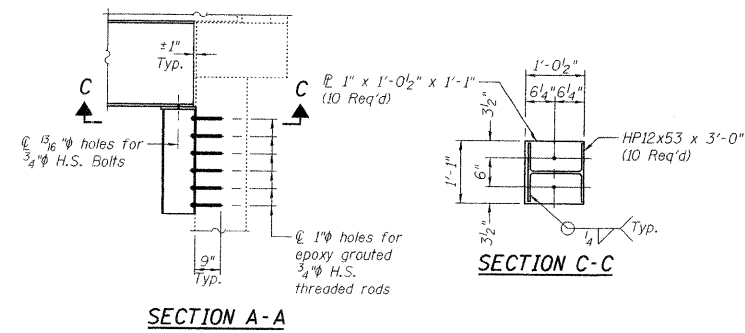
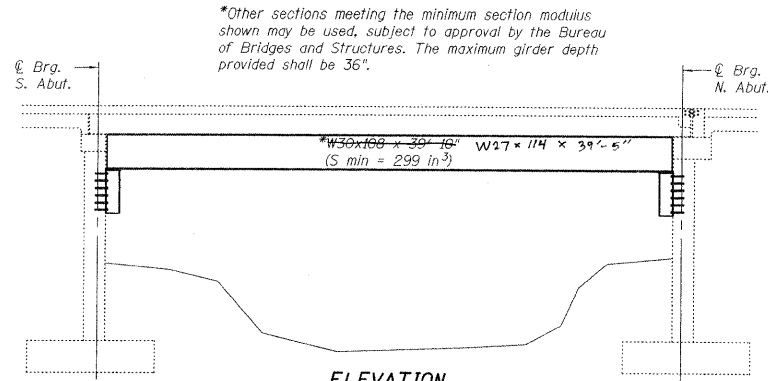
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c:\pwork\pwork\grantpm\dms41818\02-21-07\typical.dgn	PLOT SCALE = 50.00000 / in.	DRAWN -	REVISED -						316	*	LEE	216	160
	PLOT DATE = Thu Jul 14 10:19:56 2011	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 64D57				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT				* 102BR-5, 102BR-6, & 102BR-7				

# EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

Δ (102BR)M & (102BR)-IM-1

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
316	Δ	LEE	28	7
SHEET NO. 1 1 SHEETS				
Contract Number: 64B28				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

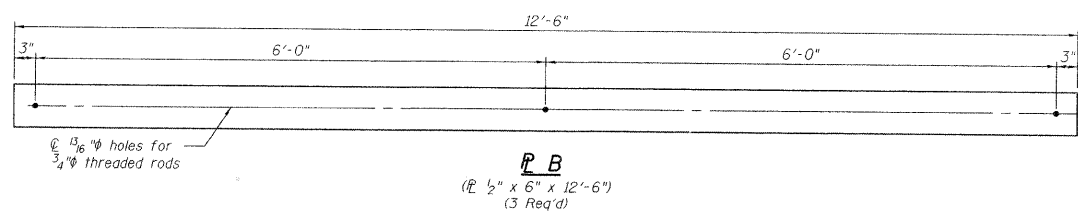
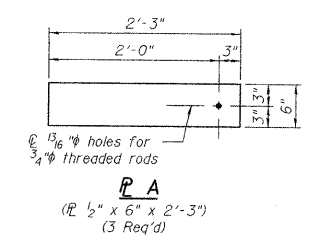
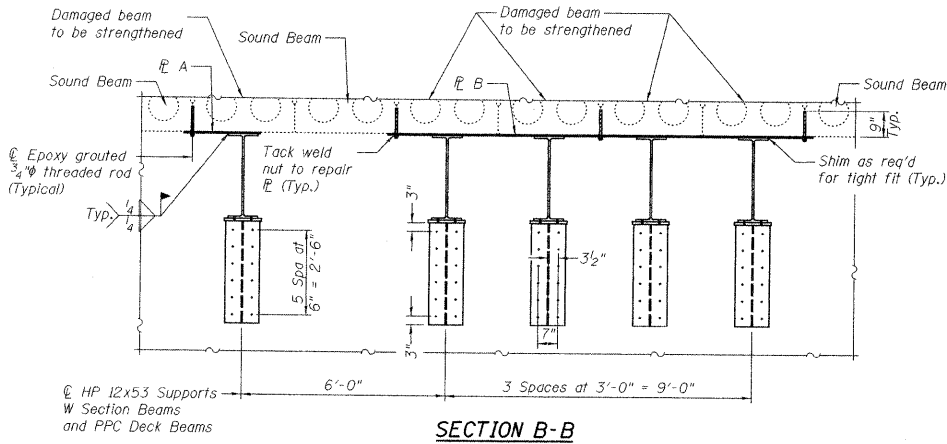
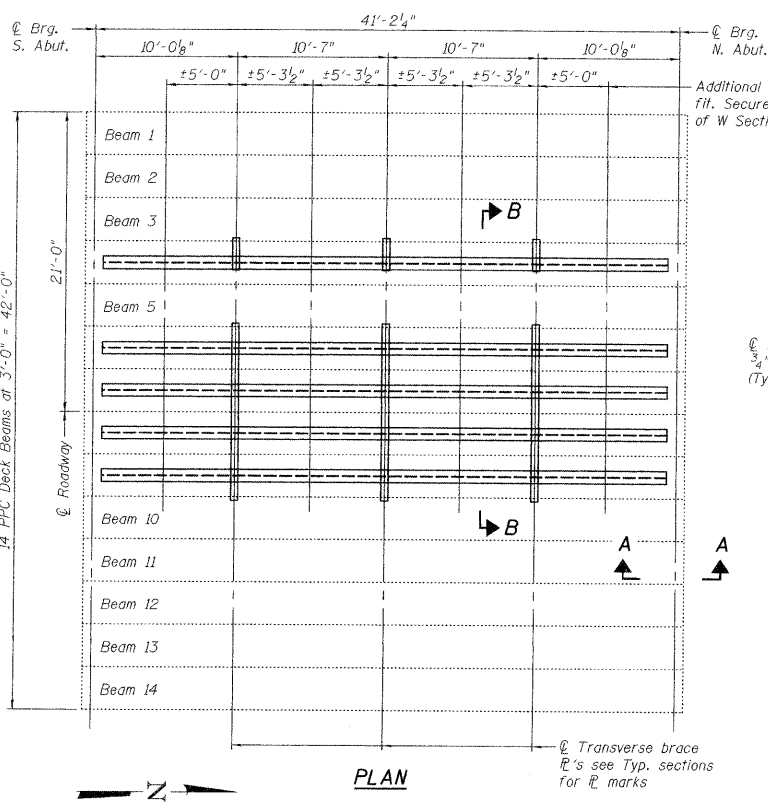
See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods.

The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

The Contractor has the option of using used steel. See special provisions.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.

If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	24,230

25,300

**PLAN AND ELEVATION**  
**F.A. RT. 38**  
**LEE COUNTY**  
**SN 052-0025**

DESIGNED: *Victor H. Veliz*  
 CHECKED: *[Signature]*  
 DRAWN: *[Signature]*  
 CHECKED: *VHV* *BJB*

June 21, 2007

EXAMINED: *[Signature]*  
 PASSED: *[Signature]*

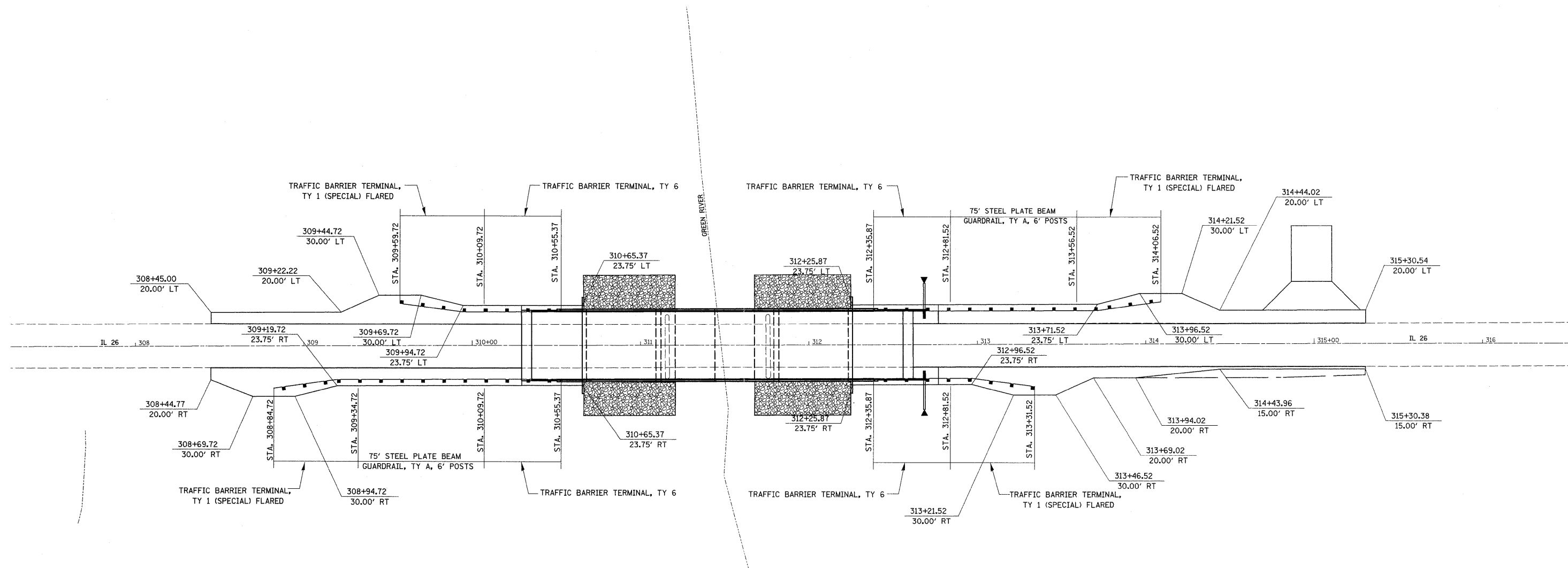


SLT-92-001-07

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE PLANS</b>	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 161
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PLOT DATE = Thu Jul 14 10:19:56 2011		DATE -	REVISED -							
						SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 64D57 ILLINOIS FED. AID PROJECT • 102BR-5, 102BR-6, & 102BR-7		

# GUARDRAIL DETAIL

STA. 311 + 45.62  
SN 052-0081

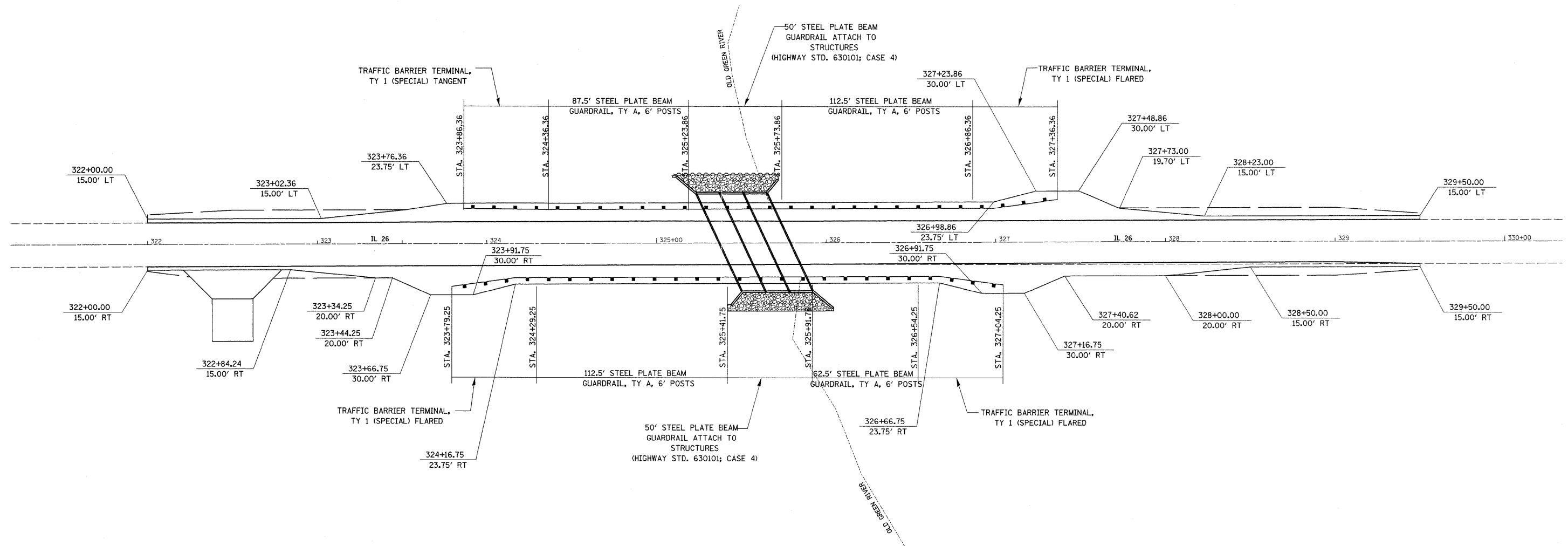


• 102BR-5, 102BR-6 & 102BR-7

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GUARDRAIL DETAIL SN 052-0081</b>			F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 162
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PLOT SCALE = 30,0000' / in.		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
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# GUARDRAIL DETAIL

STA. 325 + 58.00  
SN 052-2031

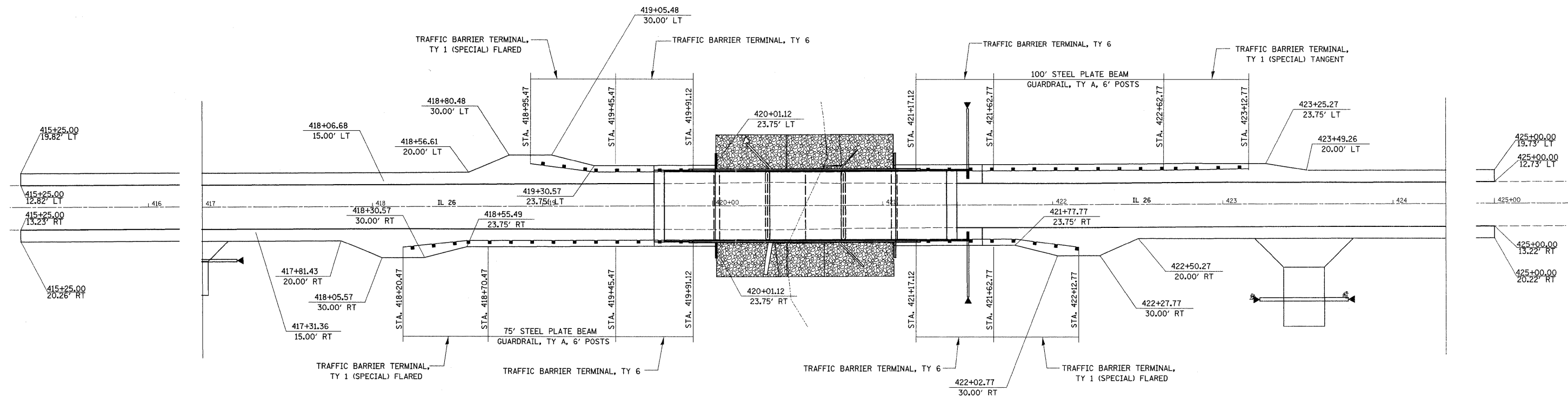


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																CONTRACT NO. 64D57					

• 102BR-5, 102BR-6 & 102BR-7

# GUARDRAIL DETAIL

STA. 420 + 54.63  
SN 052-0080



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GUARDRAIL DETAIL SN 052-0080</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

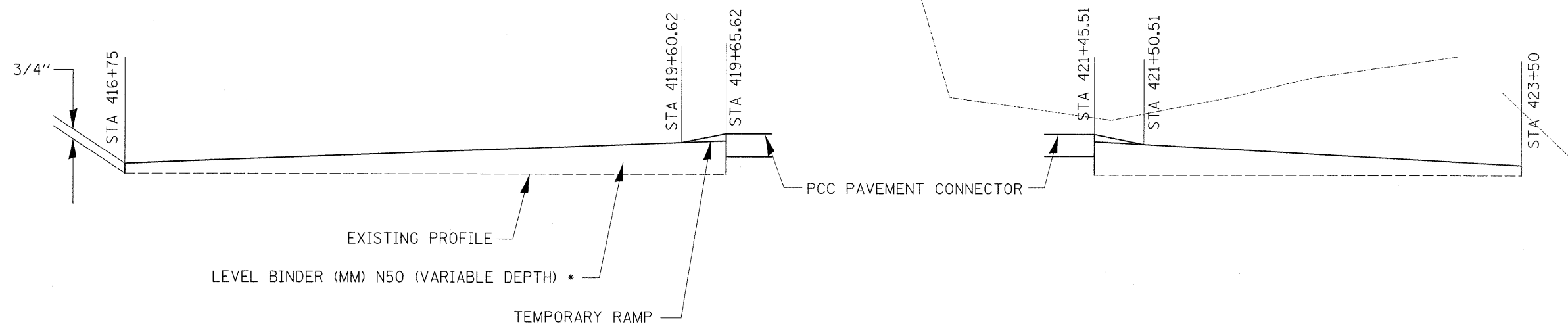
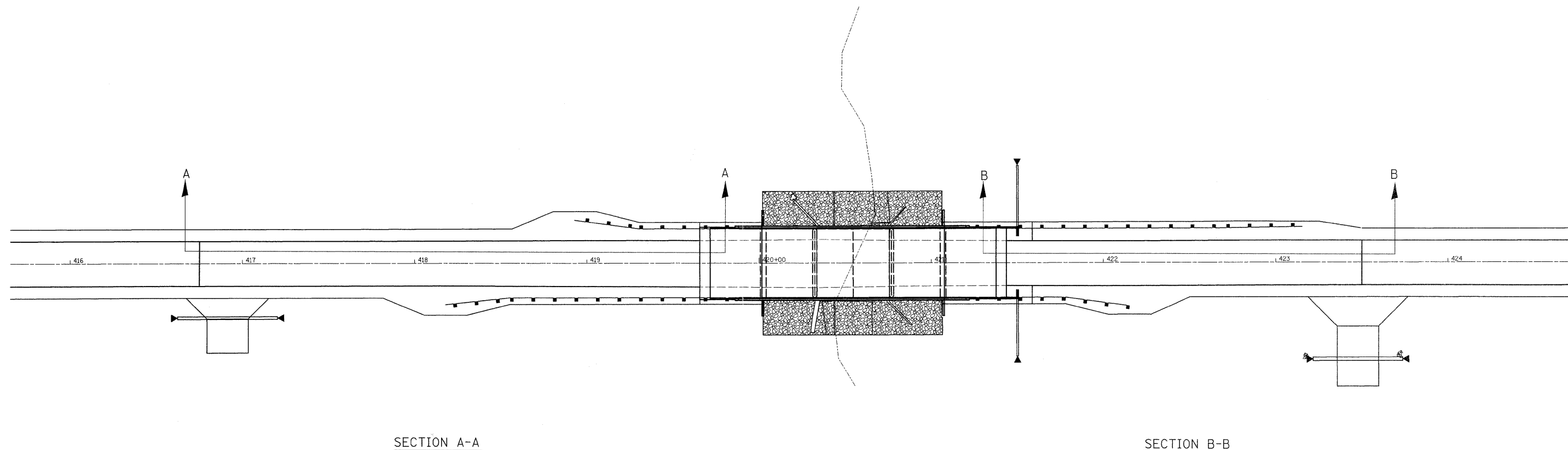
• 102BR-5, 102BR-6 & 102BR-7



# LEVEL BINDER (MM) N50 DETAIL

STA. 420 + 54.63

SN 052-0080



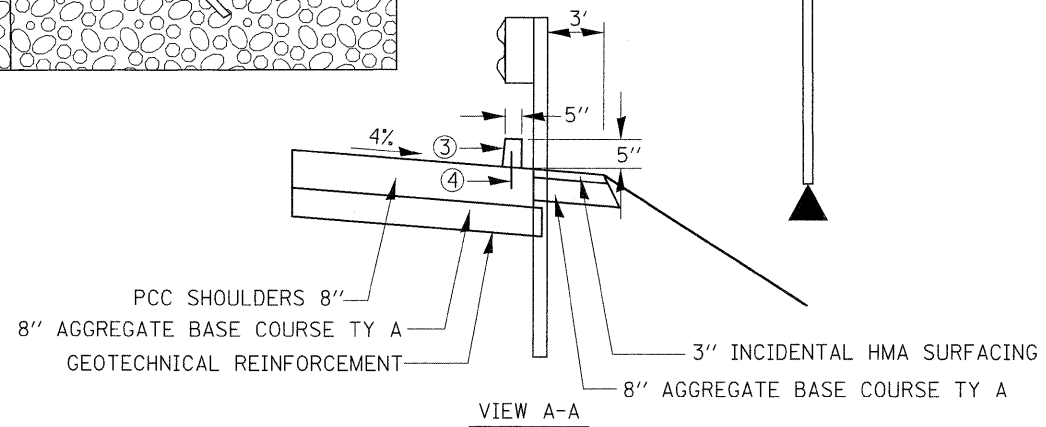
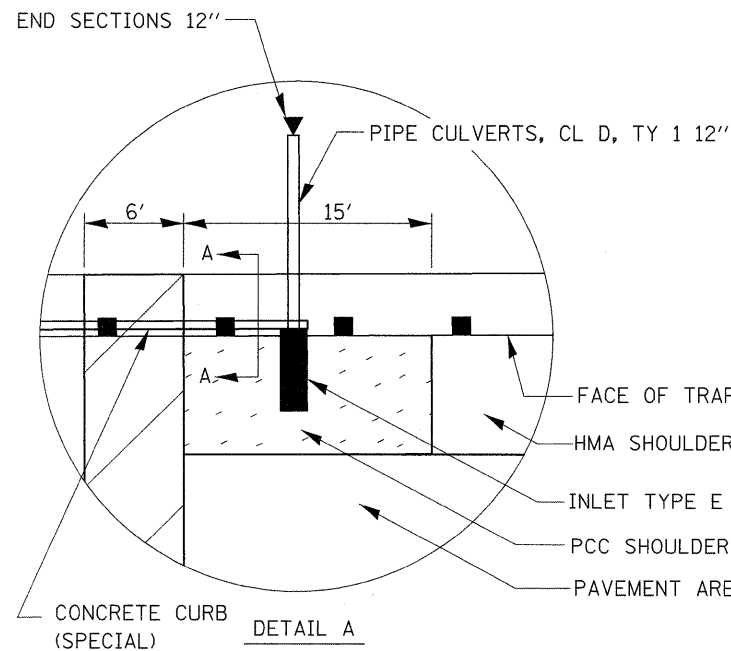
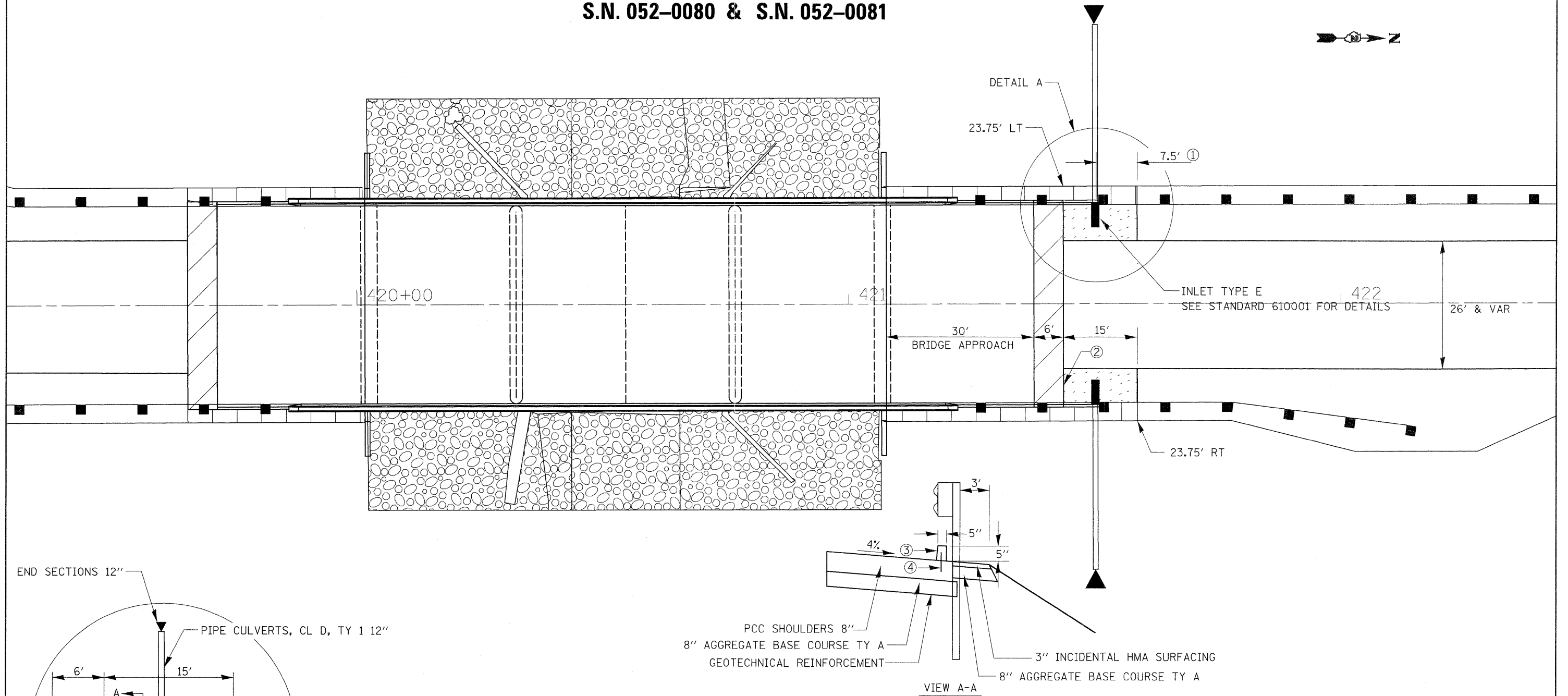
\* LEVEL BINDER TO BE 1 1/2" LOWER THAN TOP OF PCC CONNECTOR TO ACCOMMODATE FOR FINAL SURFACE.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LEVEL BINDER (MM) N50 DETAIL SN 052-0080</b>			F.A.P. RTE. 316	SECTION •	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 165
ct:\pwork\pwork\grantpm\dms41810\0210807-sht-details.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 64D57	
PLOT SCALE = 38.8888' / 1in.		CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT	
PLOT DATE = Tue Aug 23 06:20:35 2011		DATE -	REVISED -									

• 102BR-5, 102BR-6 & 102BR-7

# SHOULDER INLET TYPE E WITH CURB DETAIL

S.N. 052-0080 & S.N. 052-0081



CONCRETE CURB

**NOTES:**

- ① INCREASE OR DECREASE THIS DIMENSION AS NEEDED TO POSITION THE INLET BOX AND PIPE DRAIN BETWEEN THE PROPOSED APPROACH GUARDRAIL POSTS
- ② SEE STANDARD 420001 FOR JOINT DETAILS
- ③ CONCRETE CURB (SPECIAL). SEE DISTRICT STANDARD 11.4 FOR DETAILS
- ④ THE VERTICAL NO. 4 BARS MAY BE PLACED AND TIED SECURELY BETWEEN THE CONCRETE CURB (SPECIAL) AND THE PCC SHOULDERS 8" IN LIEU OF DRILLING AND GROUTING THEM AS DISTRICT STANDARD 11.4 SHOWS AS LONG AS BOTH THE CURB AND SHOULDER ARE POURED AT THE SAME TIME

**LEGEND**

	3" INCIDENTAL HMA SURFACING
	8" AGGREGATE BASE COURSE TY B
	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
	PORTLAND CEMENT CONCRETE SHOULDERS 8"

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -
et:\pw_work\pwidot\grantpm\dms41810\0210807-sht-details.dgn		DRAWN -	REVISED -
PLOT SCALE = 28.0000' / 1in.		CHECKED -	REVISED -
PLOT DATE = Tue Aug 23 06:20:36 2011		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

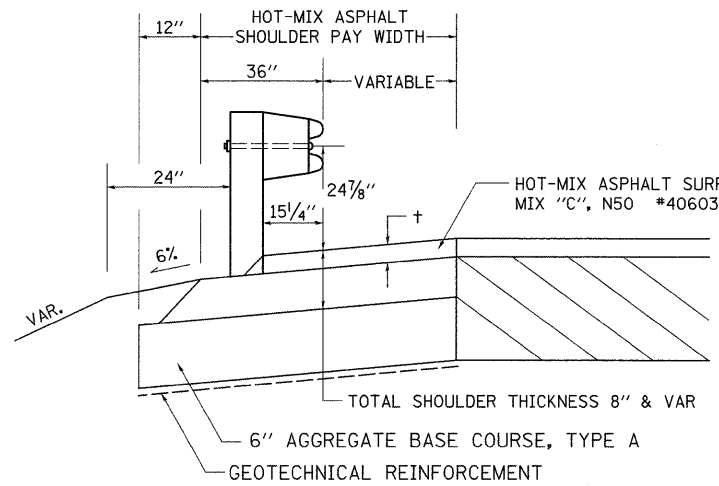
**SHOULDER INLET TYPE E WITH CURB  
S.N. 052-0080 & S.N. 052-0081**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 166
				CONTRACT NO. 64D57
ILLINOIS FED. AID PROJECT				

• 102BR-5, 102BR-6 & 102BR-7

# DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

### GENERAL NOTES

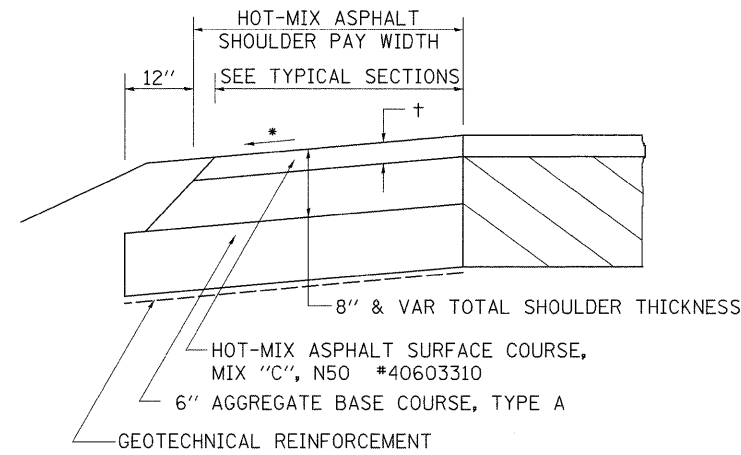
THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 24 7/8" FROM THE FINISHED SURFACE.

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL

# HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

### GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

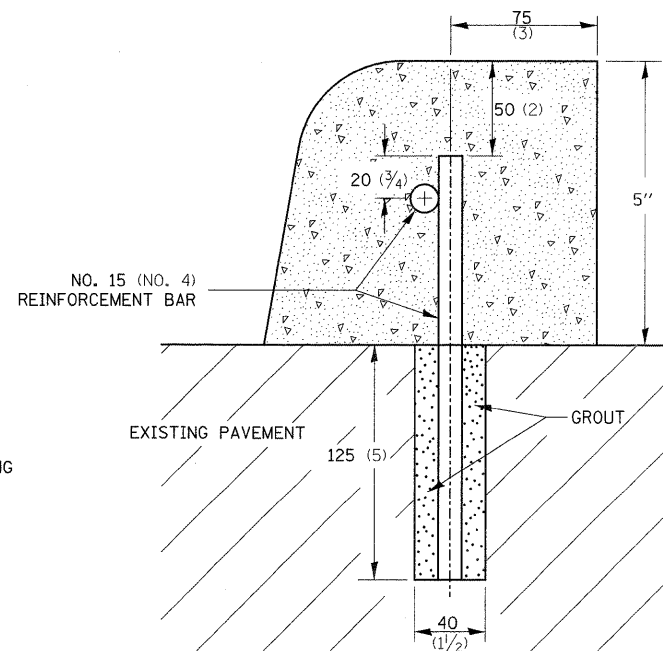
USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

\*4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

HOT-MIX ASPHALT SHOULDER

# CONCRETE CURB SPECIAL



CONCRETE CURB SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

HOLES 40 (1 1/2) Ø AND 125 (5) DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE PAVEMENT AT 1.5M (5'-0") CENTERS. NO. 15 (NO. 4) REINFORCEMENT BARS 8" LONG SHALL BE GROUTED IN THE HOLES AND A NO. 15 (NO. 4) REINFORCEMENT BAR SHALL BE INSTALLED LONGITUDINALLY IN THE CURB.

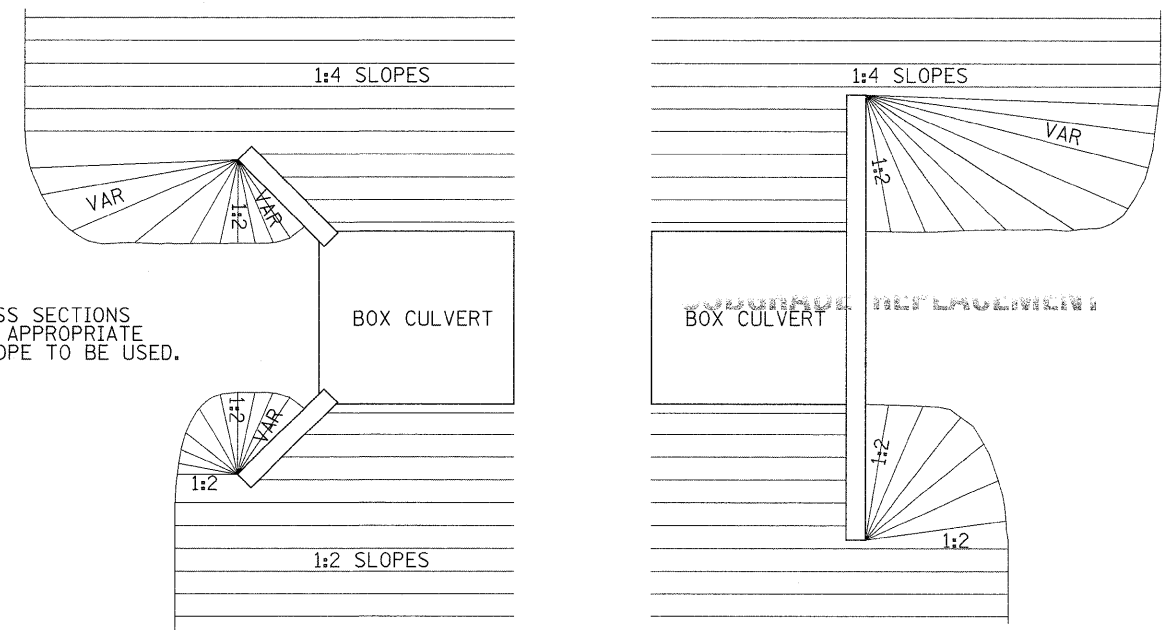
JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND REINFORCEMENT BARS IN THE CURB SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER METER (FOOT) FOR CONCRETE CURB SPECIAL.

REVISED - 5-04-94

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

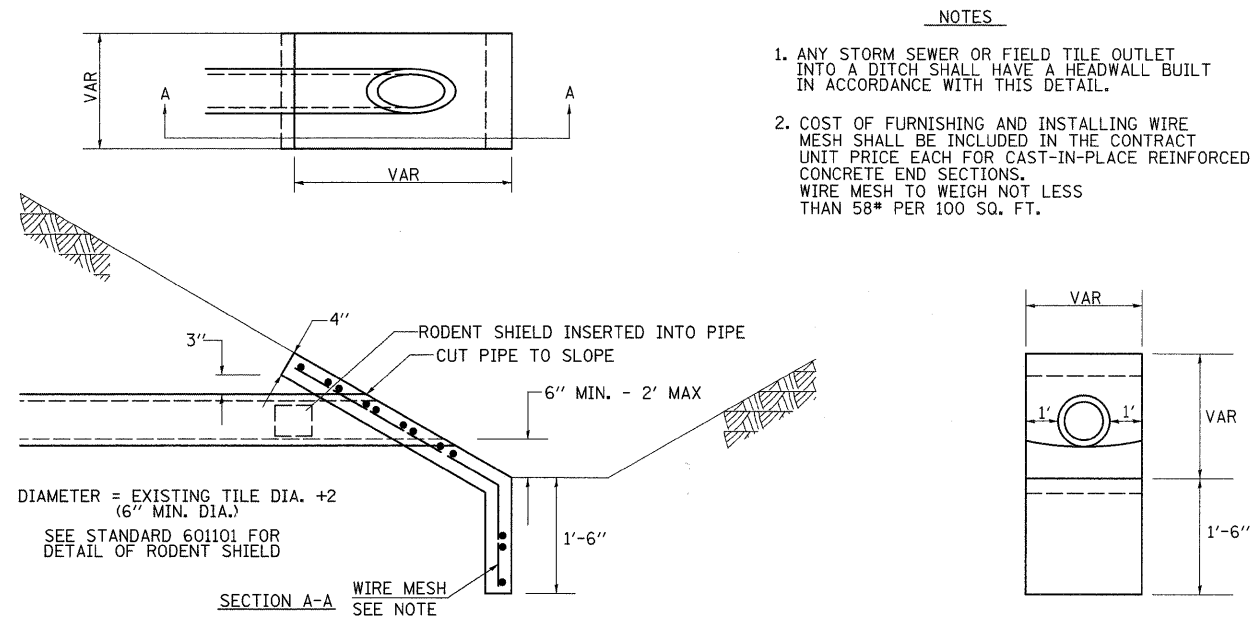
# GRADING AROUND WINGWALLS



NOTES  
SEE CROSS SECTIONS FOR THE APPROPRIATE FRONTSLOPE TO BE USED.

REVISED - 5-27-09	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 167
REVISED -	SCALE: 50.0000' / 1"	SHEET NO.	OF SHEETS	STA.	TO STA.		CONTRACT NO. 64D57		
REVISED -	PLOT DATE = Tue Aug 23 06:28:37 2011				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		* 102BR-5, 102BR-6, & 102BR-7		

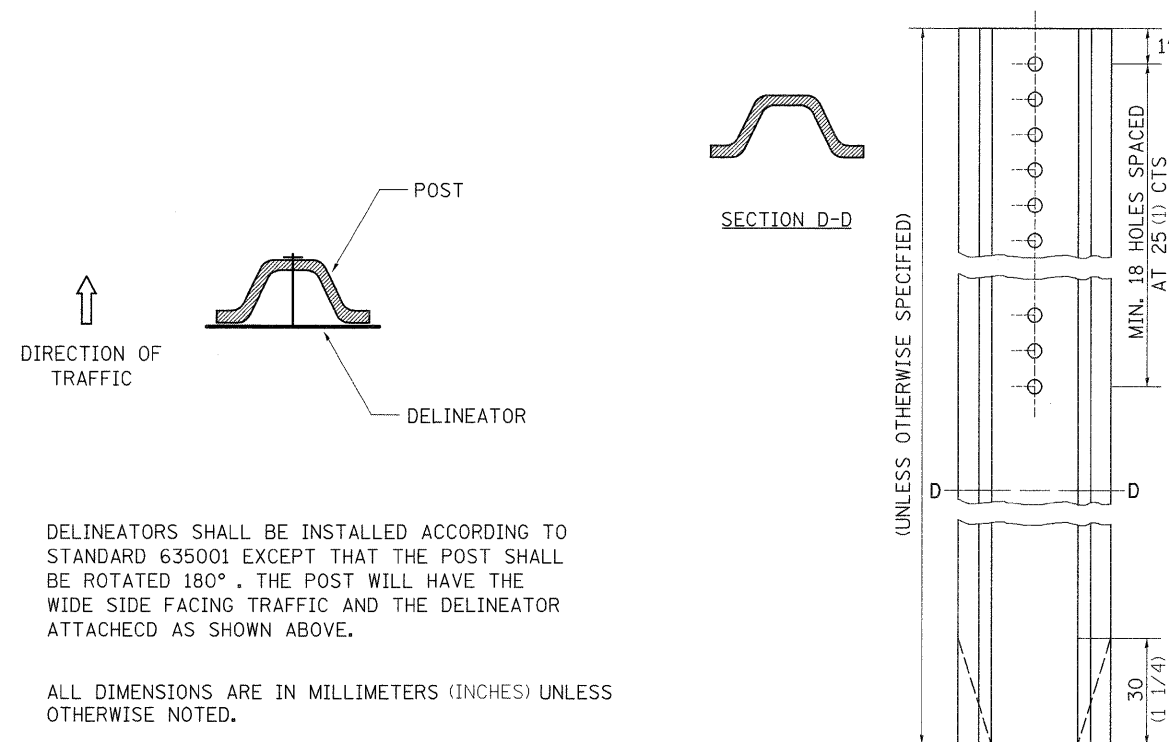
# CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS



REVISED - 9-07-10

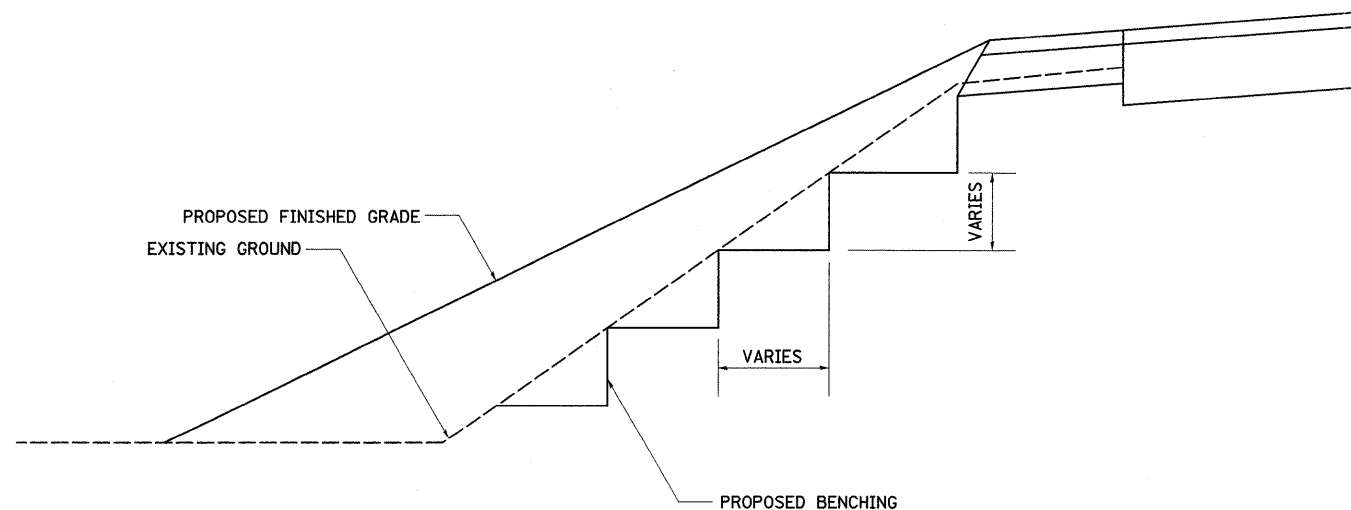
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 28.4

# DELINEATOR AND POST ORIENTATION



DELINEATOR AND POST ORIENTATION 37.4

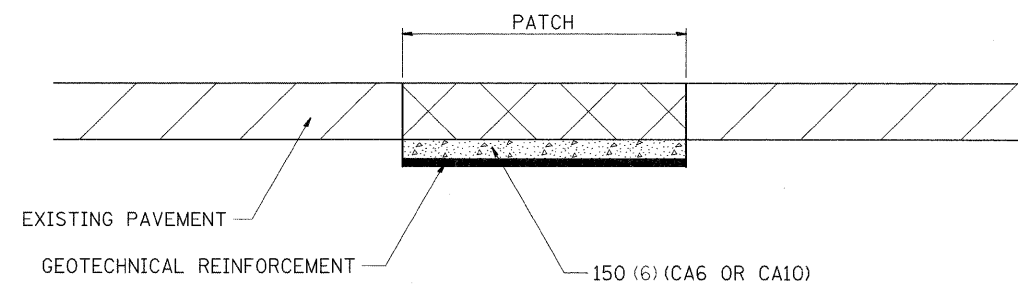
# TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

# SUBGRADE REPLACEMENT



**NOTES:**

THE CA 6 OR CA 10 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 6 OR CA 10 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR GRANULAR SUBGRADE REPLACEMENT

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT

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

REVISED - 1-09-08	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 168
REVISED -		CONTRACT NO. 64D57		• 102BR-5, 102BR-6, & 102BR-7		
REVISED -		SCALE: 50.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
REVISED -						

PLOT DATE = Tue Aug 23 06:28:36 2011

# STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)  
 100(4) CAPITAL LETTERS - BLACK  
 13 (1/2) BORDER - BLACK  
 WHITE REFLECTIVE - TYPE AP  
 HIGH INTENSITY PRISMATIC SHEETING

### GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

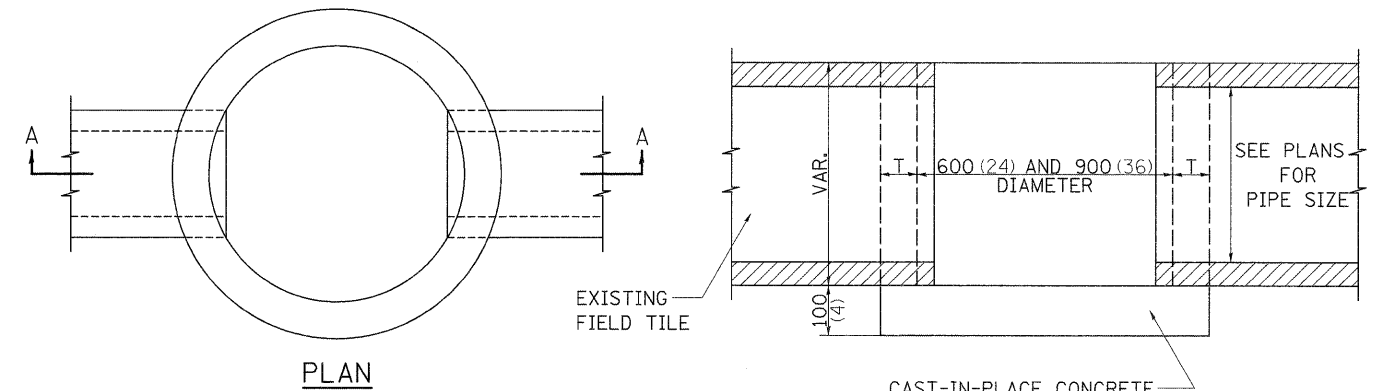
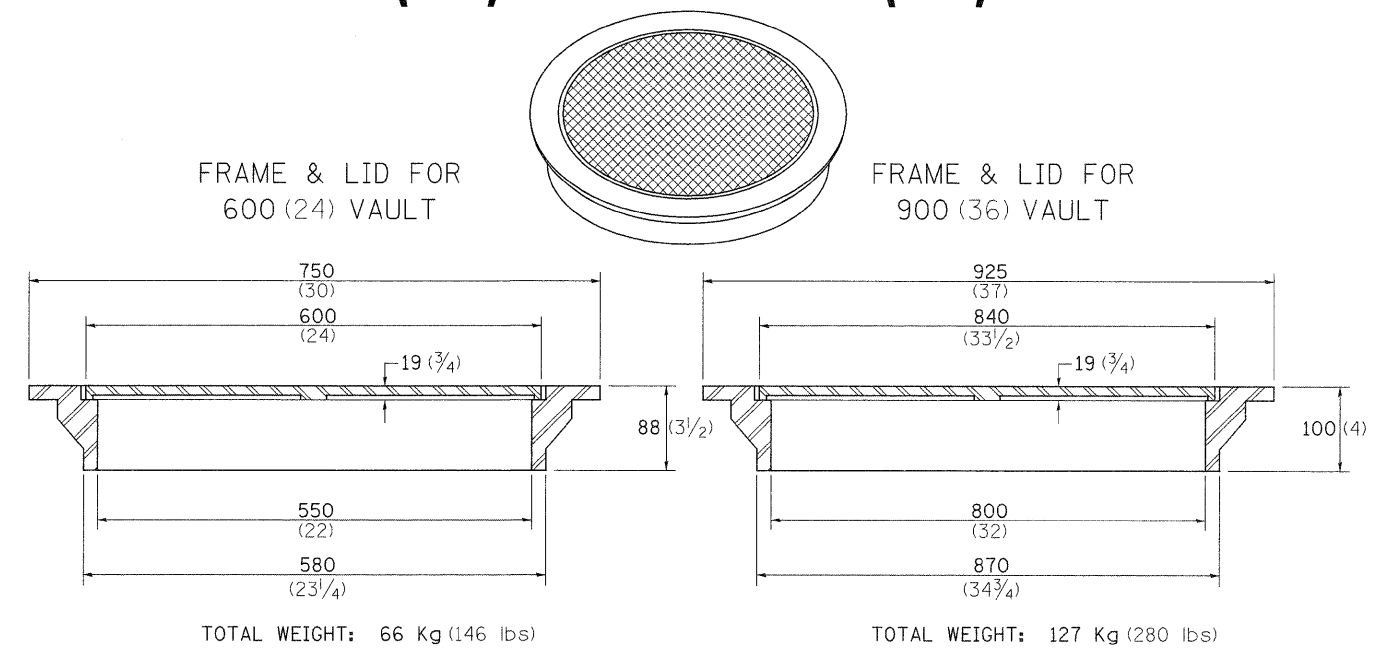
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-22-07

## STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

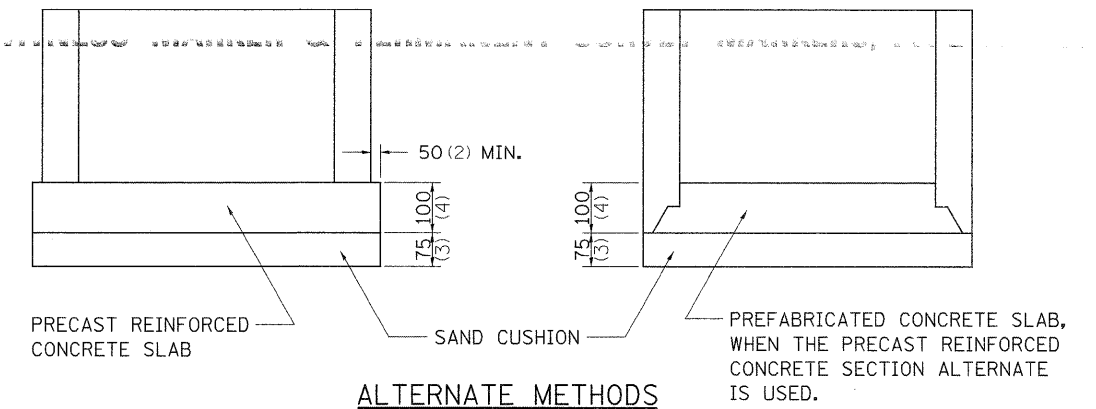
# FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

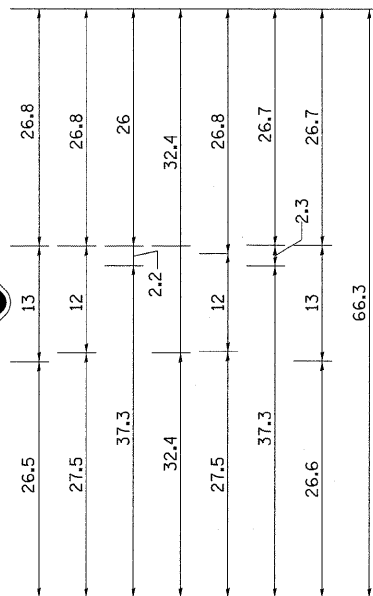
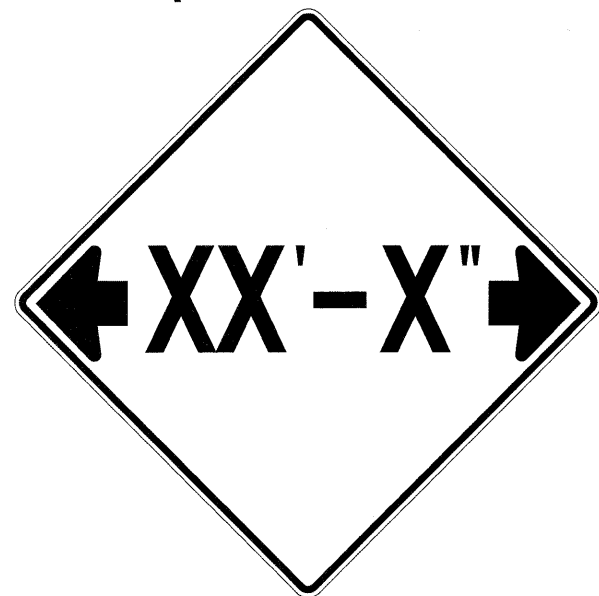
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



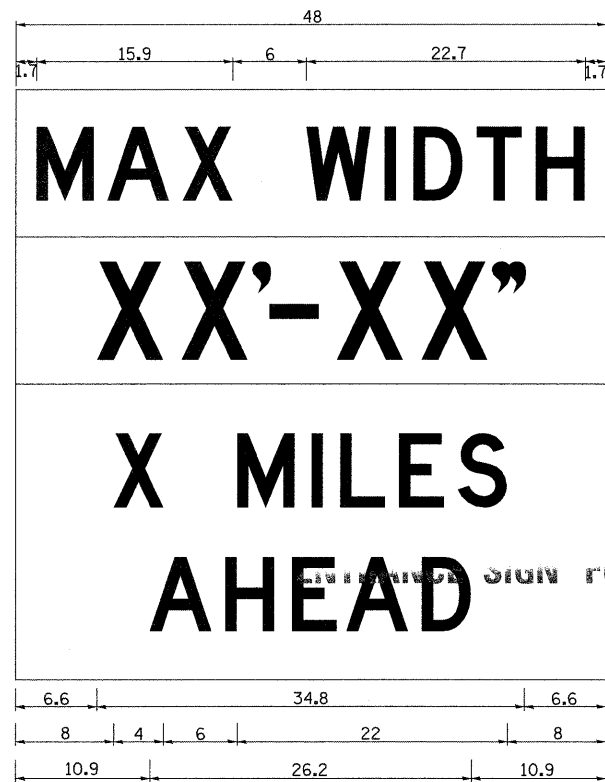
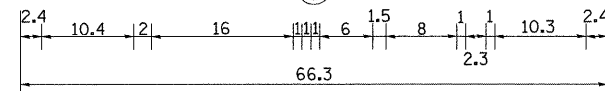
REVISED 5-03-94	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 169
REVISED -		CONTRACT NO. 64D57			* 102BR-5, 102BR-6, & 102BR-7	
REVISED -		SCALE: 50:0000 1/4" = 1'			ILLINOIS FED. AID PROJECT	
REVISED -		SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO.	

PLOT DATE = Tue Aug 23 06:28:38 2011

# INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



**NOTES**  
 W12-2 - Horizontal Clearance Sign  
 48.0" across sides, 1.9" Radius,  
 0.8" Border, 0.5" Indent, Black on  
 Orange; Standard Arrow Custom  
 10.4" X 8.1" 180° Black 11 Inch  
 D Series Lettering; Standard Arrow  
 Custom 10.4" X 8.1" 0°



W12-1103 (Width Is 8D);  
 No border, Black on White;  
 [MAX WIDTH] D;

No border, Black on Orange;  
 [XX'-XX'] D;

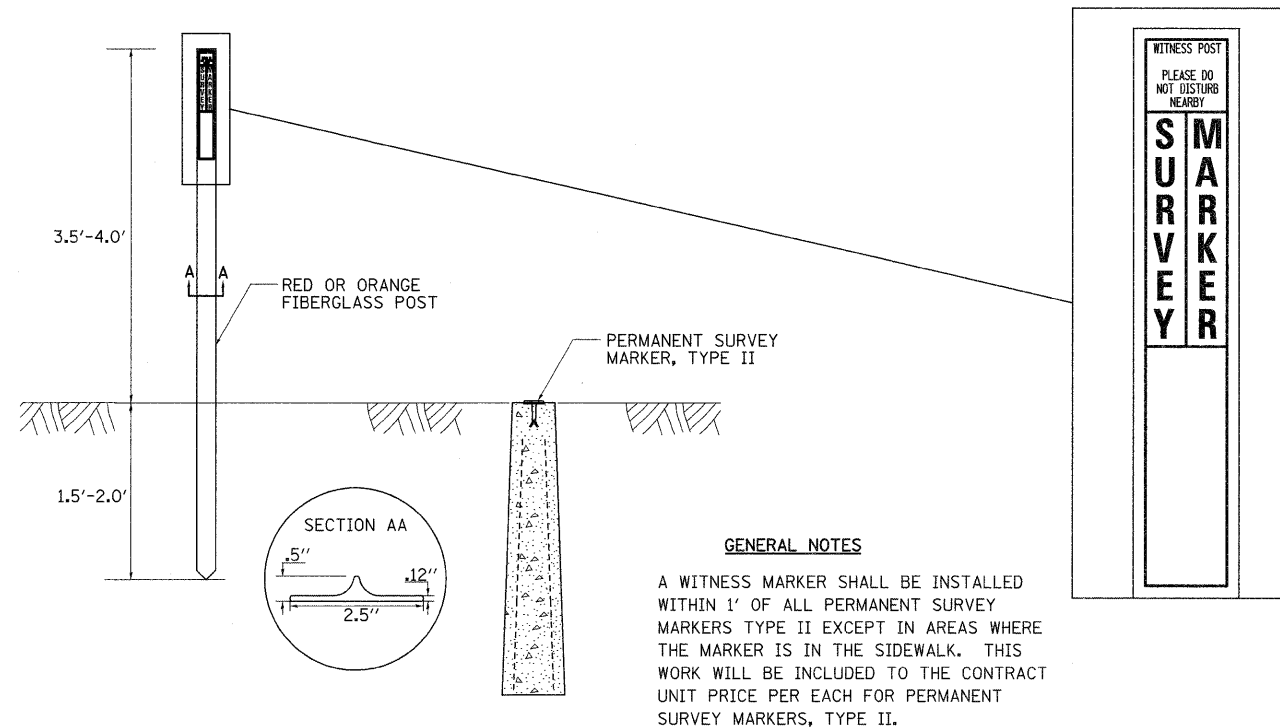
No border, Black on White;  
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

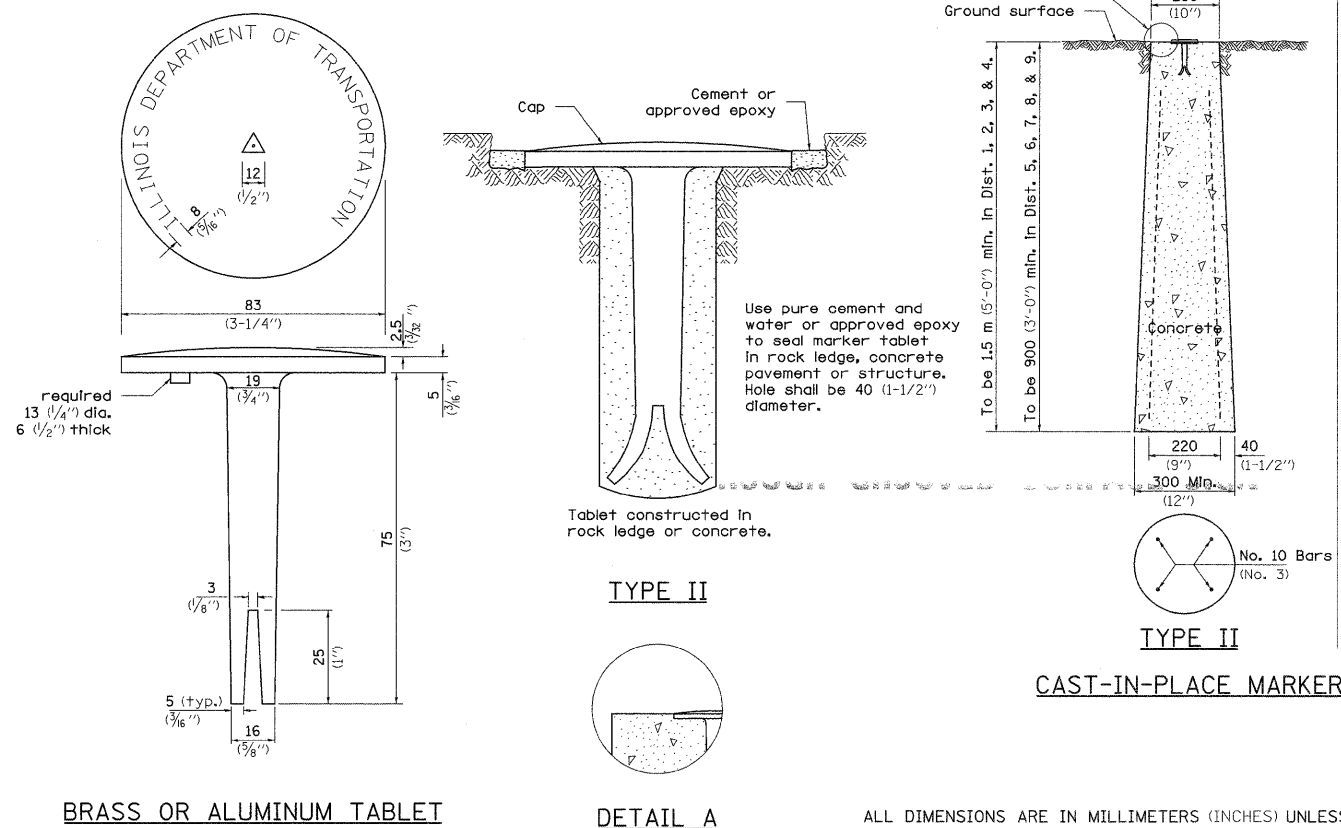
# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



**GENERAL NOTES**

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

# PERMANENT SURVEY MARKERS, TYPE II



Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 40 (1-1/2") diameter.

TYPE II

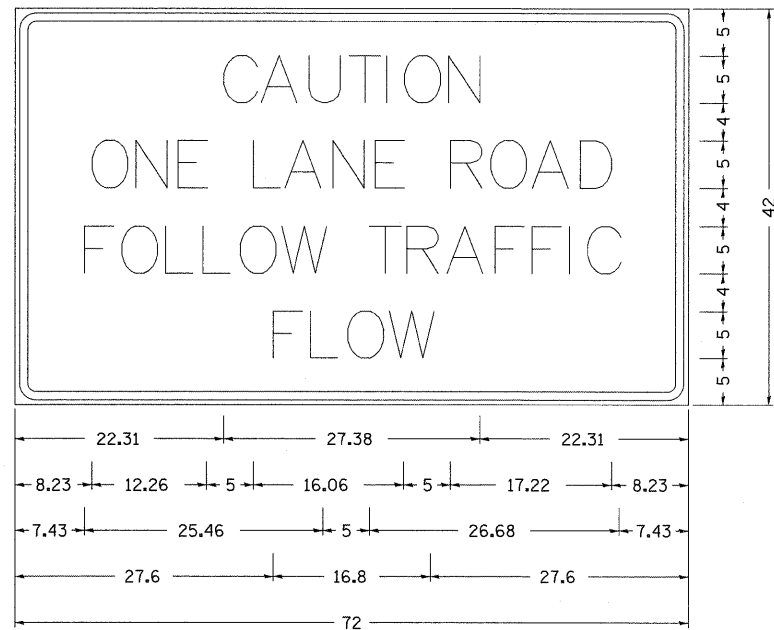
TYPE II

CAST-IN-PLACE MARKER

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

REVISED - REVISED -	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 170
REVISED -	SCALE: 50.0000' / 1"	SHEET NO.	OF SHEETS	STA.	TO STA.		CONTRACT NO. 64D57		
REVISED -	PLOT DATE = Tue Aug 23 06:26:39 2011				FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

# ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheetting ;  
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;  
 [CAUTION] D; [ONE LANE ROAD] D;  
 [FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C	3.36	A	0.62	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	N	1.17	3.36	1.18	E	3.04													
5.00	L	3.05	A	0.31	4.18	0.94	N	3.36	1.17	E	3.05										
5.00	R	3.36	O	0.93	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	O	0.94	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
5.00	T	3.05	R	0.94	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	L	0.94	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

### GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

REVISED - 10-28-05

# ROUGH GROOVED SURFACE SIGN

ILLINOIS STANDARD W8-I107  
 SIGN PANEL TYPE 1



COLOR: LEGEND AND BORDER - BLACK NON-REFLECTIVE  
 BACKGROUND - ORANGE REFLECTORIZED

### GENERAL NOTES

SIGN PANELS AND FACE MATERIALS SHALL BE ACCORDING TO SECTION 720 OF THE STANDARD SPECIFICATIONS  
 METAL POSTS SHALL BE IN ACCORDANCE WITH STD. 720011.

ALL MOUNTING HARDWARE SHALL BE ALUMINUM, STAINLESS STEEL, ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSTALLATION.

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

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
1200x1200 (48x48)	1200 (48.0)	600 (24.1)	75 (3.0)	850 (34.0)	825 (33.0)	150 (6.0)	325 (13.0)	88 (3.5)

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
1200x1200 (48x48)	7C	7C	7C	20 (0.8)	30 (1.2)	B4-48D

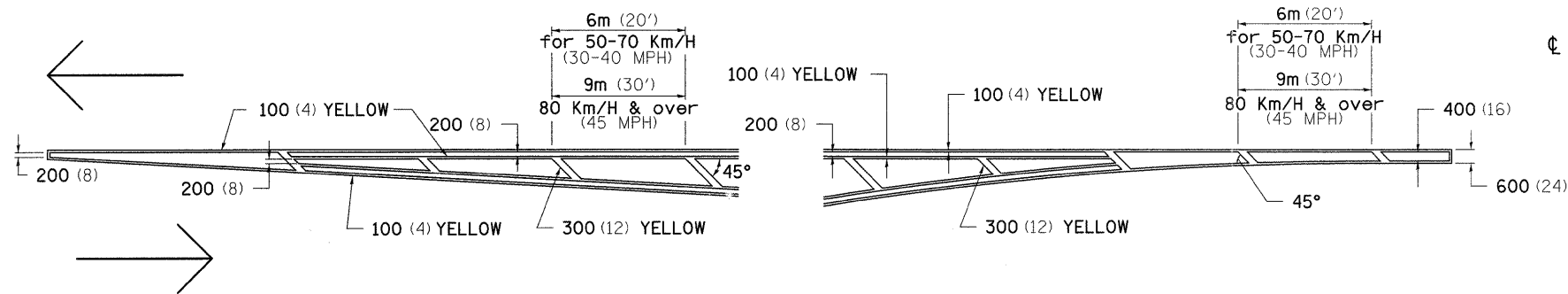
ALL DIMENSIONS IN INCHES.

• 102BR-5, 102BR-6, & 102BR-7

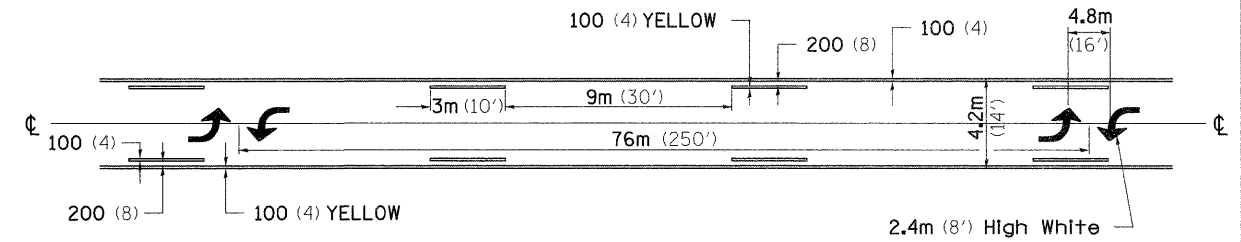
REVISED - 1-09-08	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 171
REVISED -	SCALE: 50.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 64D57		

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

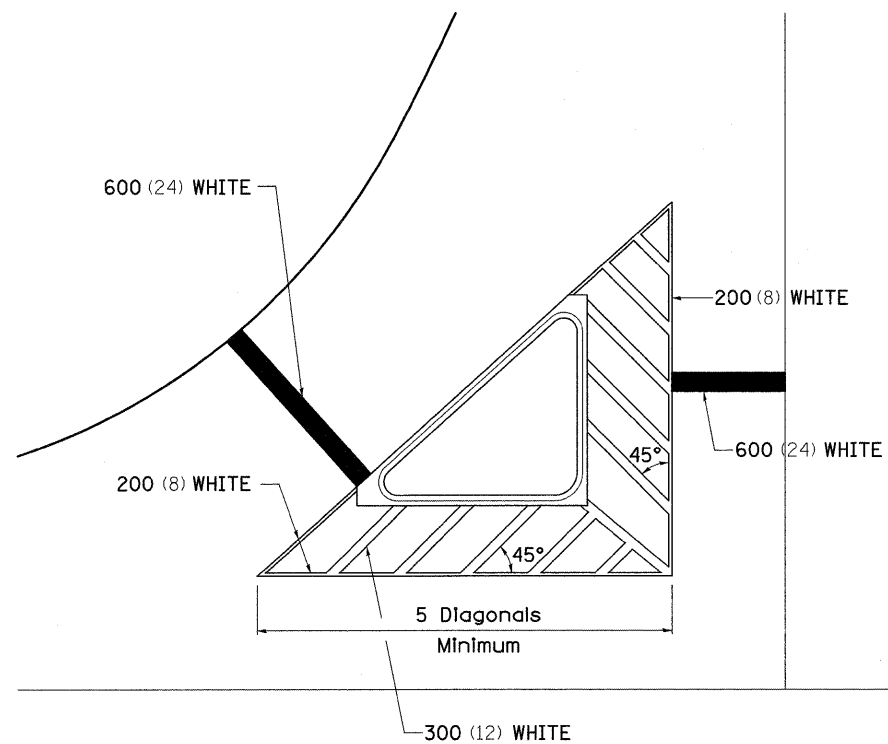


## MEDIAN PAVEMENT MARKING

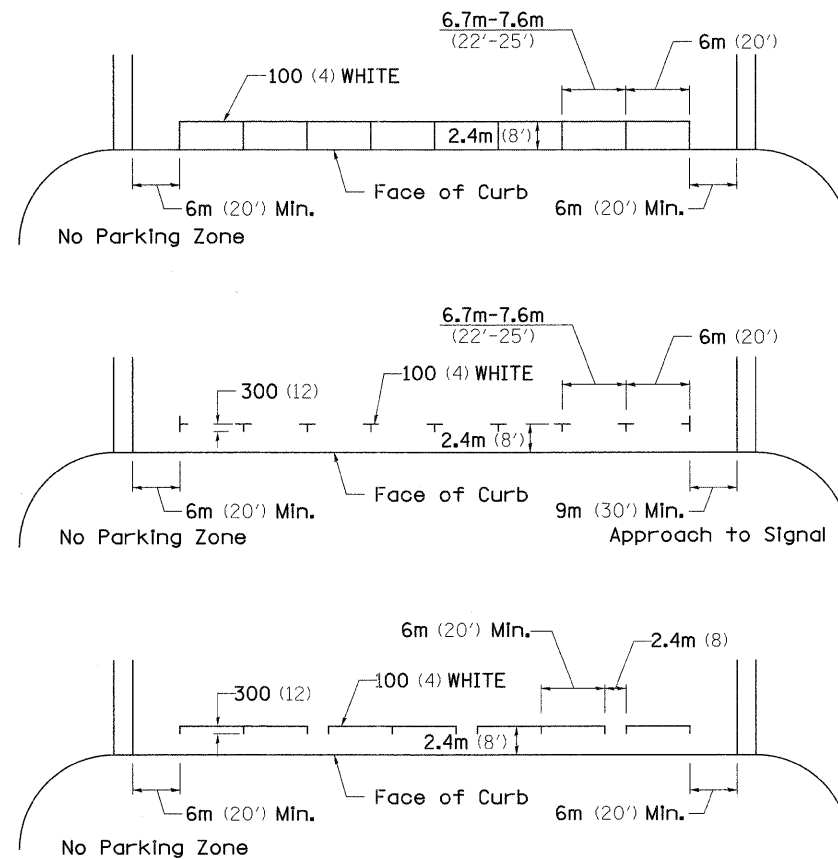


\*\* ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

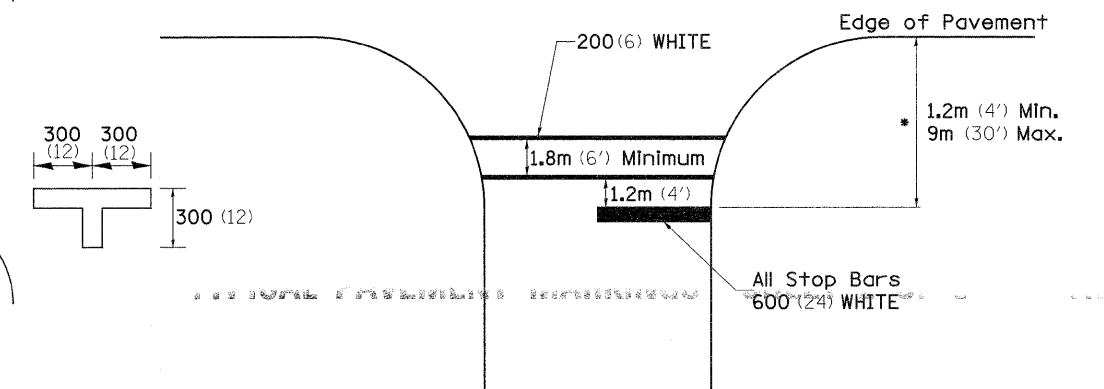


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations



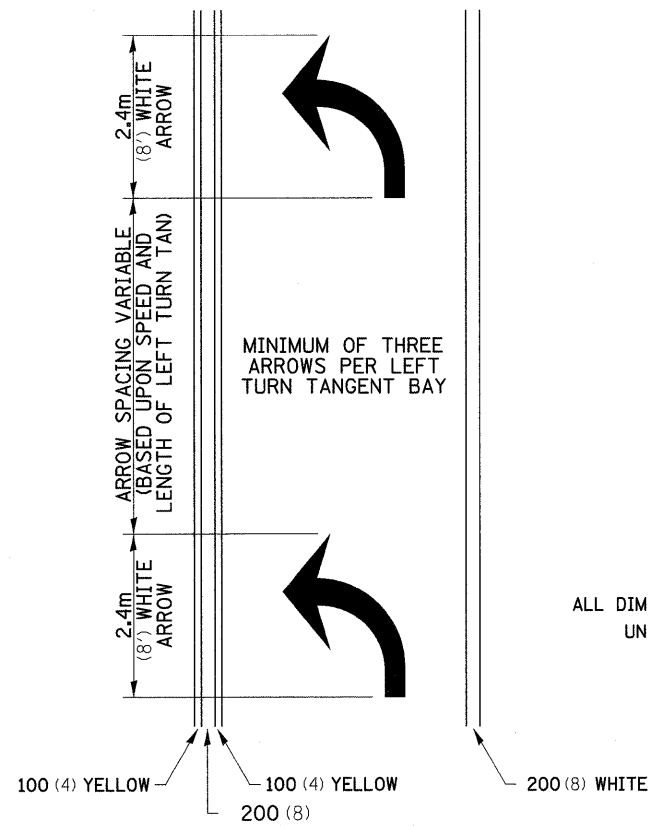
\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED - 4-4-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pav_work\pav\dot\grantpm\dms41810\210807-sht-details.dgn		DRAWN -	REVISED -					316	*	LEE	216	172
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -					CONTRACT NO. 64D57				
PLOT DATE = Tue Aug 23 06:20:41 2011		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
								SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



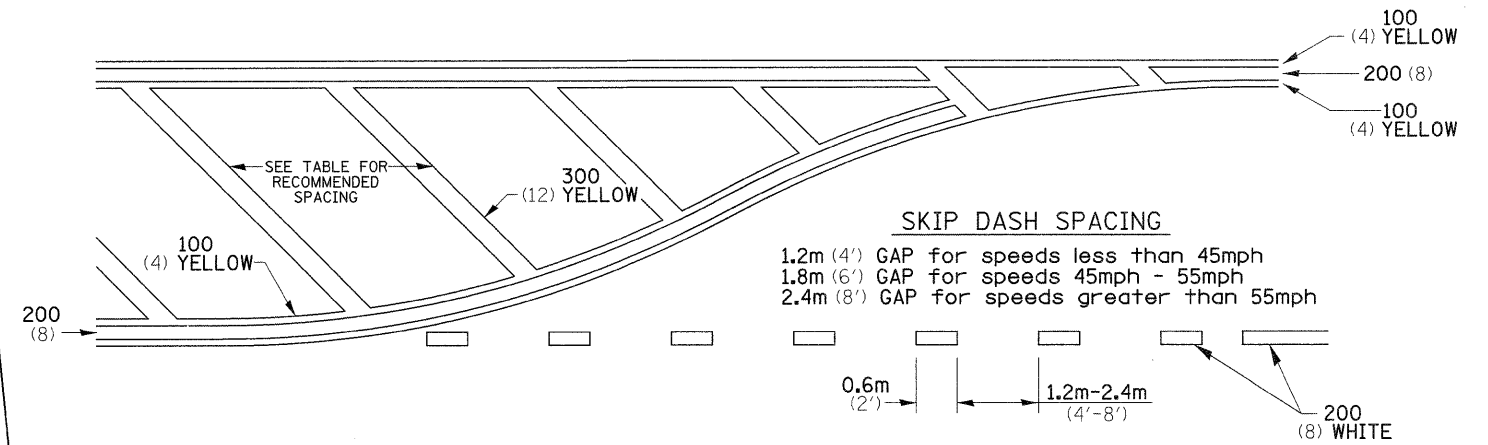
# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT



12.2m  
6 at (40') O.C.  
APPROACH SIDE ONLY

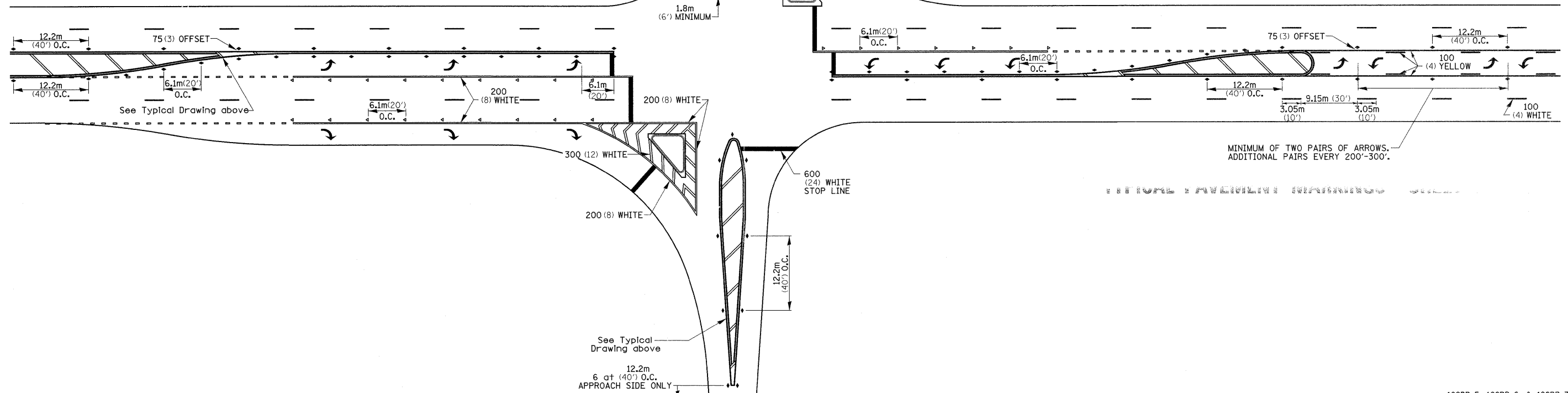
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

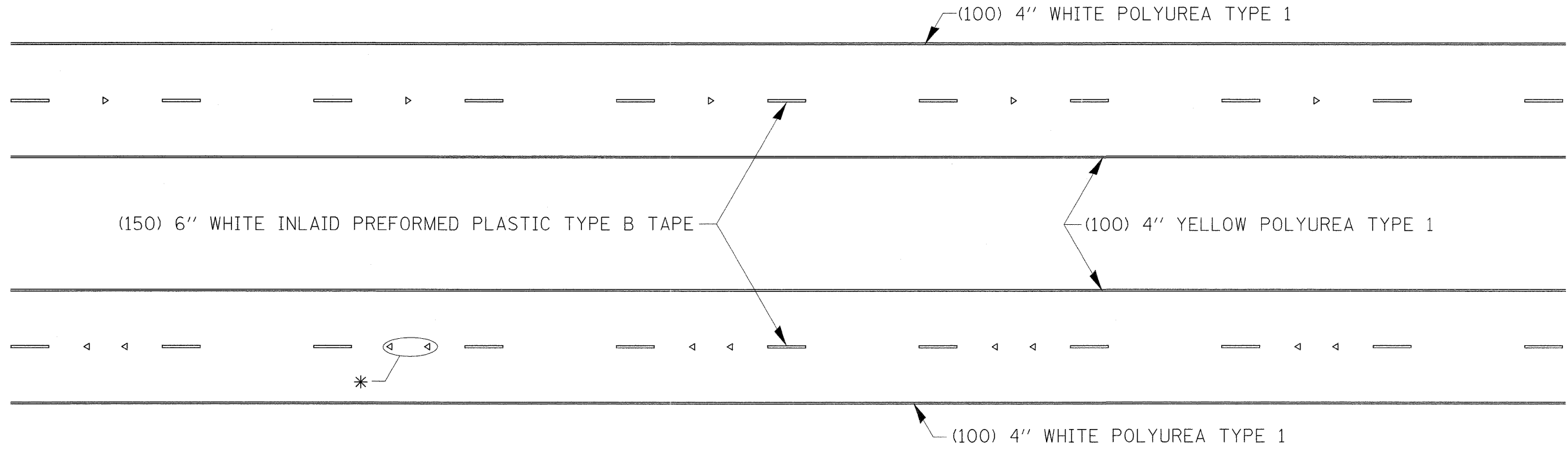
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



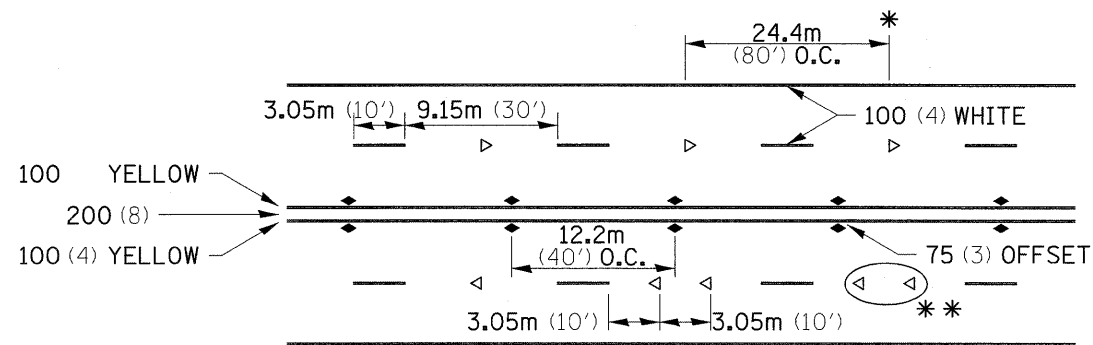
FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED - 4-4-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 173
CONTRACT NO. 64D57	PLOT SCALE = 50,000 / in	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000.

## MULTI-LANE / DIVIDED

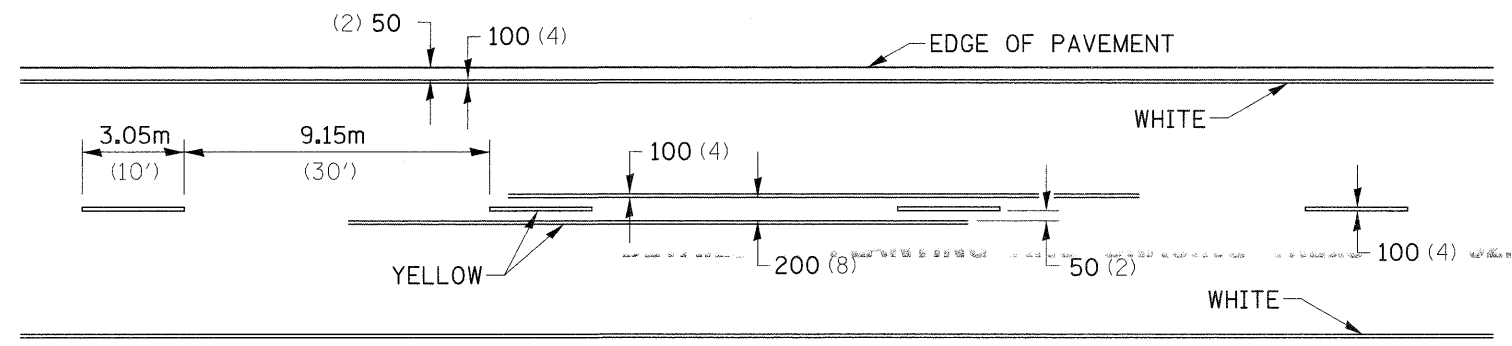


\* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15km/H (10MPH) LOWER THAN POSTED SPEEDS.  
\*\* USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000

## MULTI-LANE / UNDIVIDED

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



### SYMBOLS

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED - 4-4-11
ct\pw_work\pwidot\grantpm\dms41810\0210807-sht-details.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / 1" =		CHECKED -	REVISED -
PLOT DATE = Tue Aug 23 06:20:43 2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

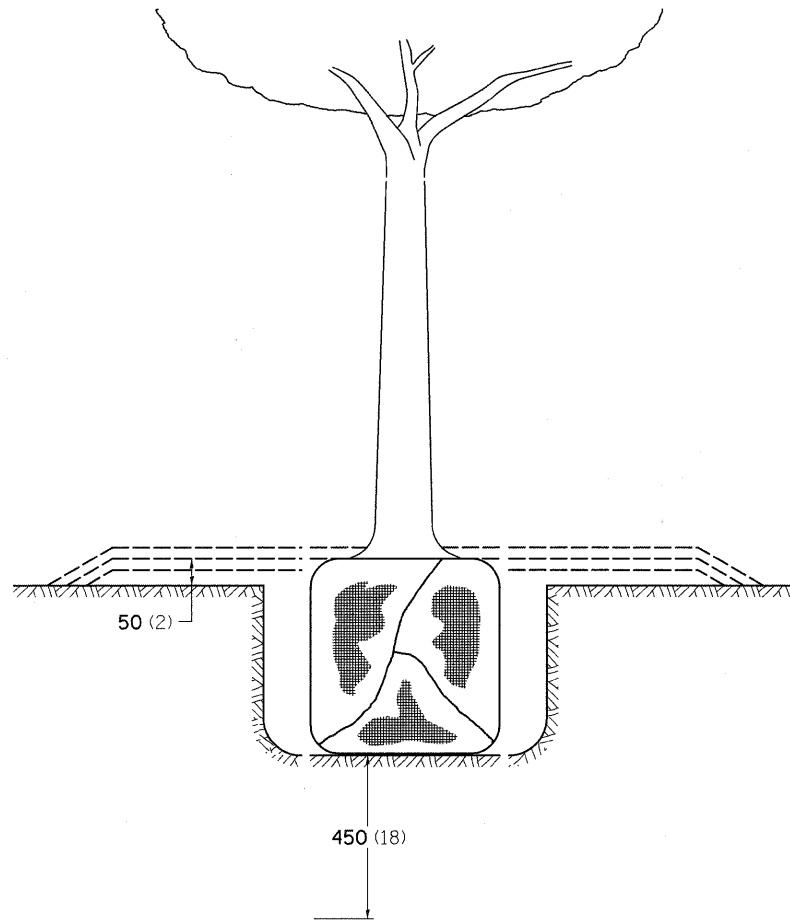
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

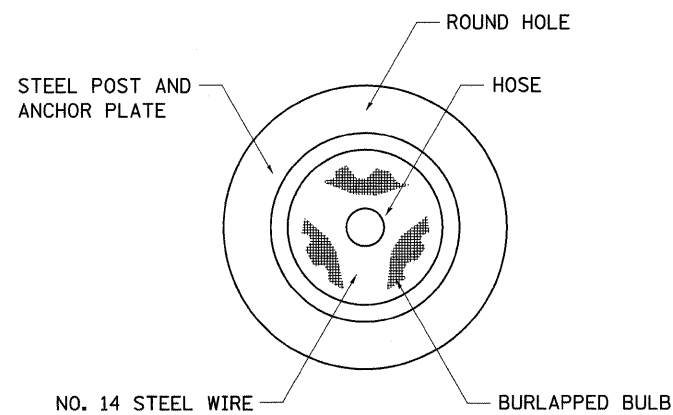
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	174
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64D57	

\* 102BR-5, 102BR-6, & 102BR-7

# DETAILS OF PLANTING AND BRACING TREES

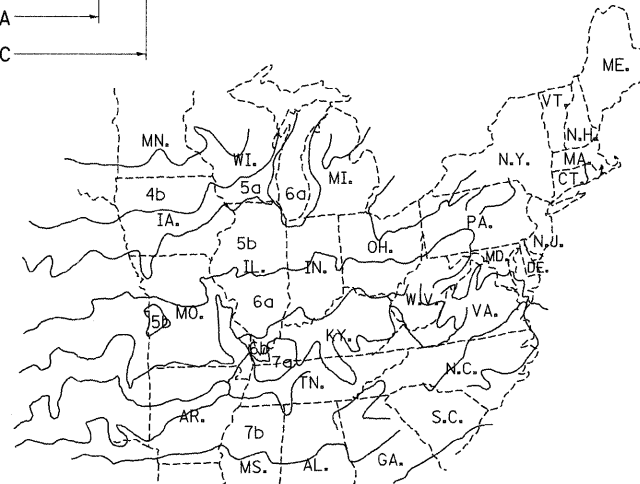
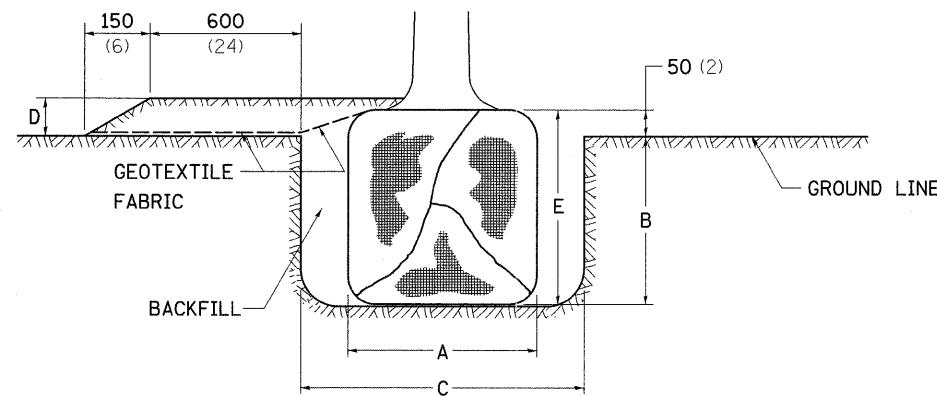


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



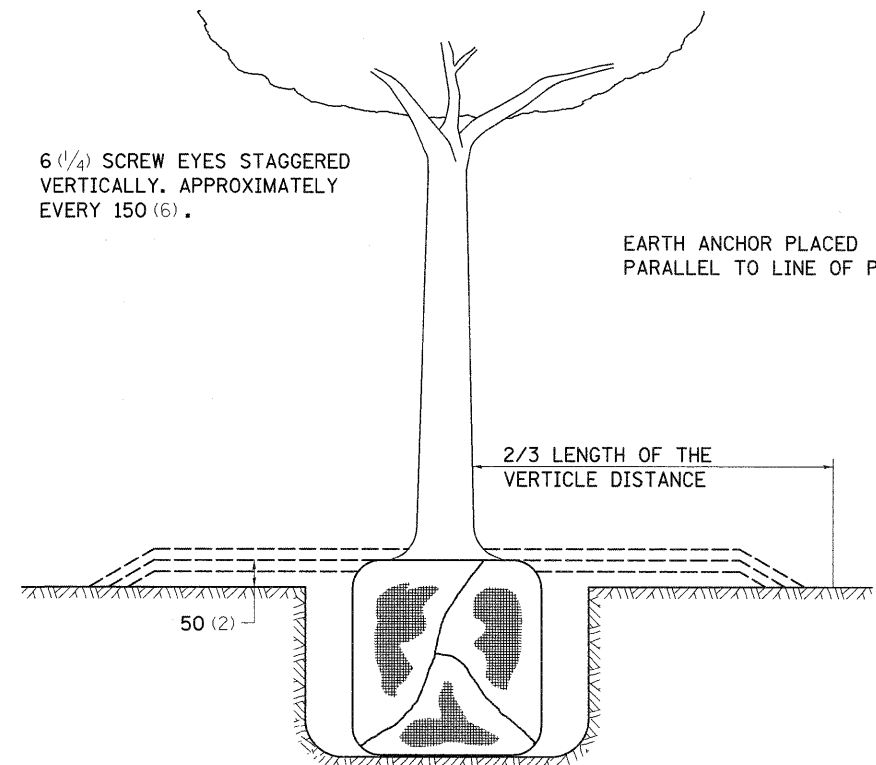
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)

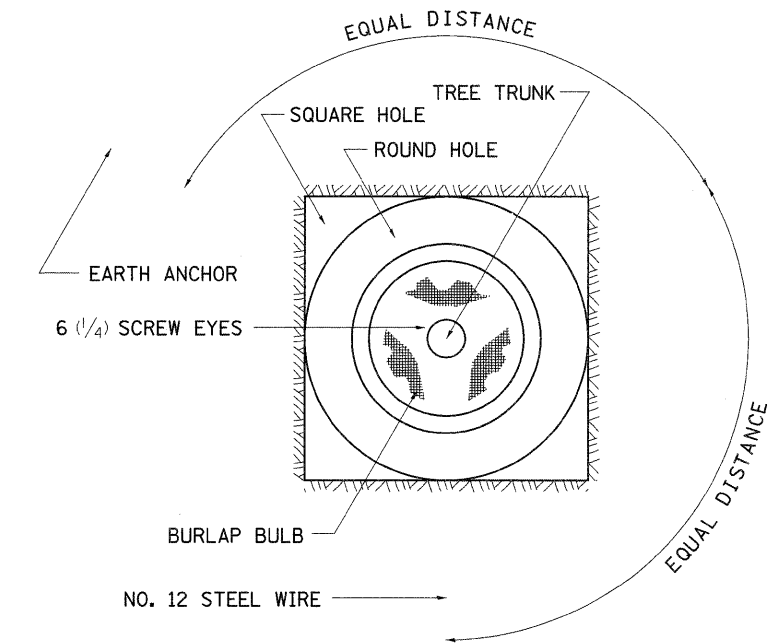


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



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

• 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

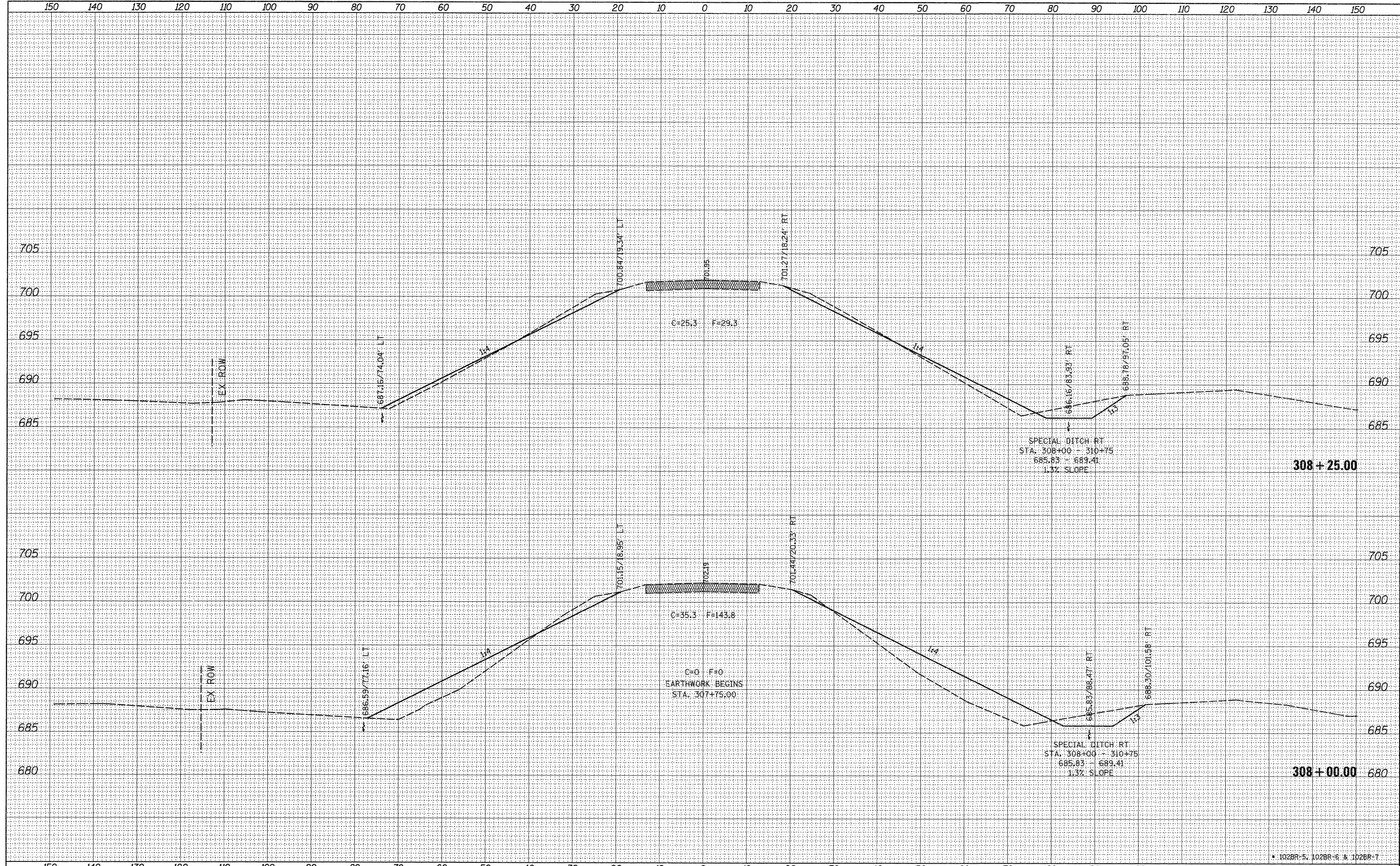
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	175
CONTRACT NO. 64D57				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



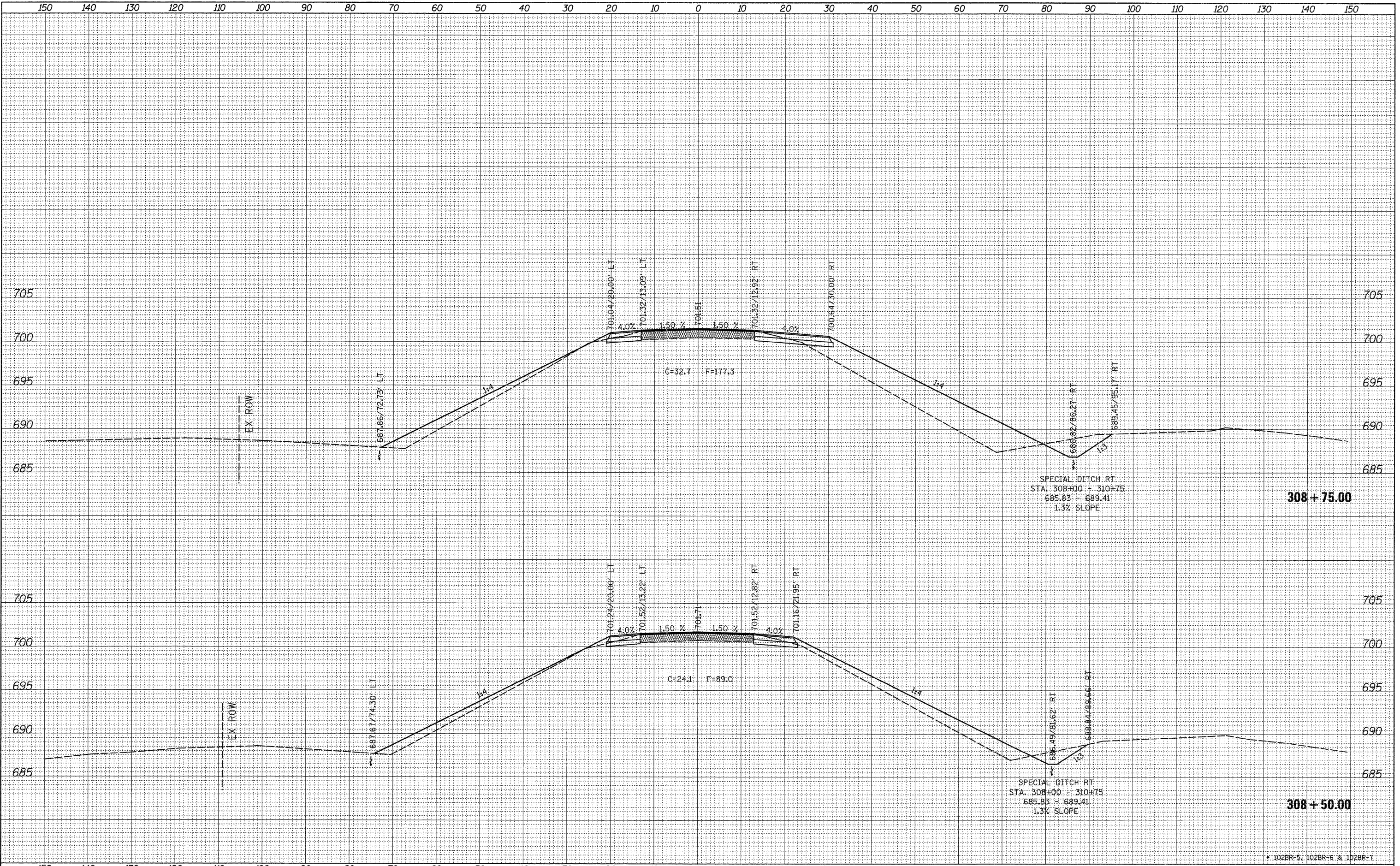
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ct:\pw_work\pwsdot\grantpm\dms41812\0210887-xso.mxd		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	316	*	LEE	216	176
		CHECKED -	REVISED -		STA. 308+00.00 TO STA. 308+25.00								
		DATE -	REVISED -										

\* 102BR-5, 102BR-6 & 102BR-7

ILLINOIS FED. AID PROJECT

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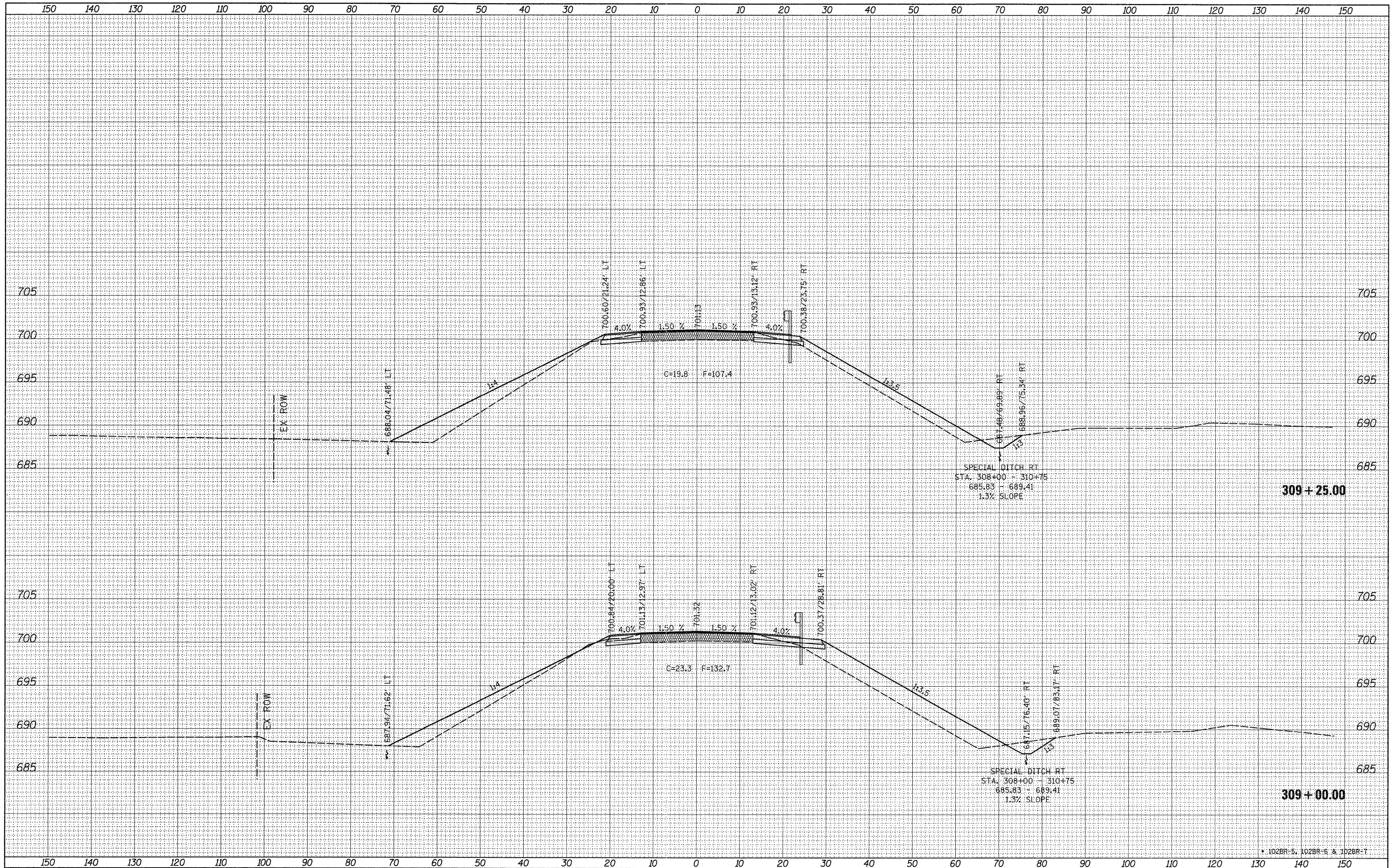
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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os\p\work\p\dot\grantpm\dms41812\0218887-xsc.mxd		DRAWN -	REVISED -				316	*	LEE	216	177
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PLOT DATE = Tue Aug 23 06:52:28 2011		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:				SHEET NO. OF SHEETS		STA. 308+50.00 TO STA. 308+75.00					

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USER NAME = grantpm  
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 PLOT DATE = Tue Aug 23 06:52:29 2011

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

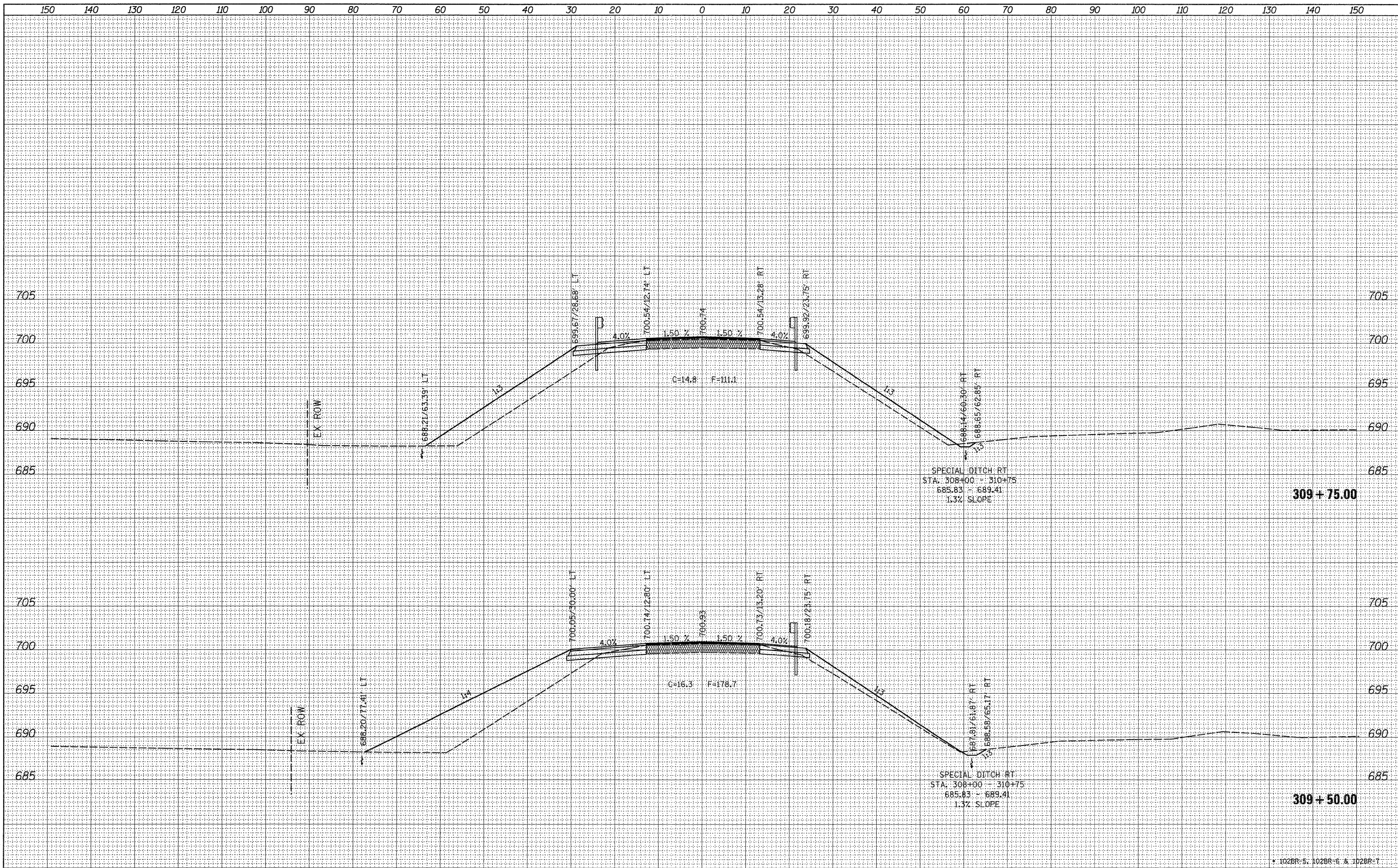
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 309+00.00 TO STA. 309+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 178
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

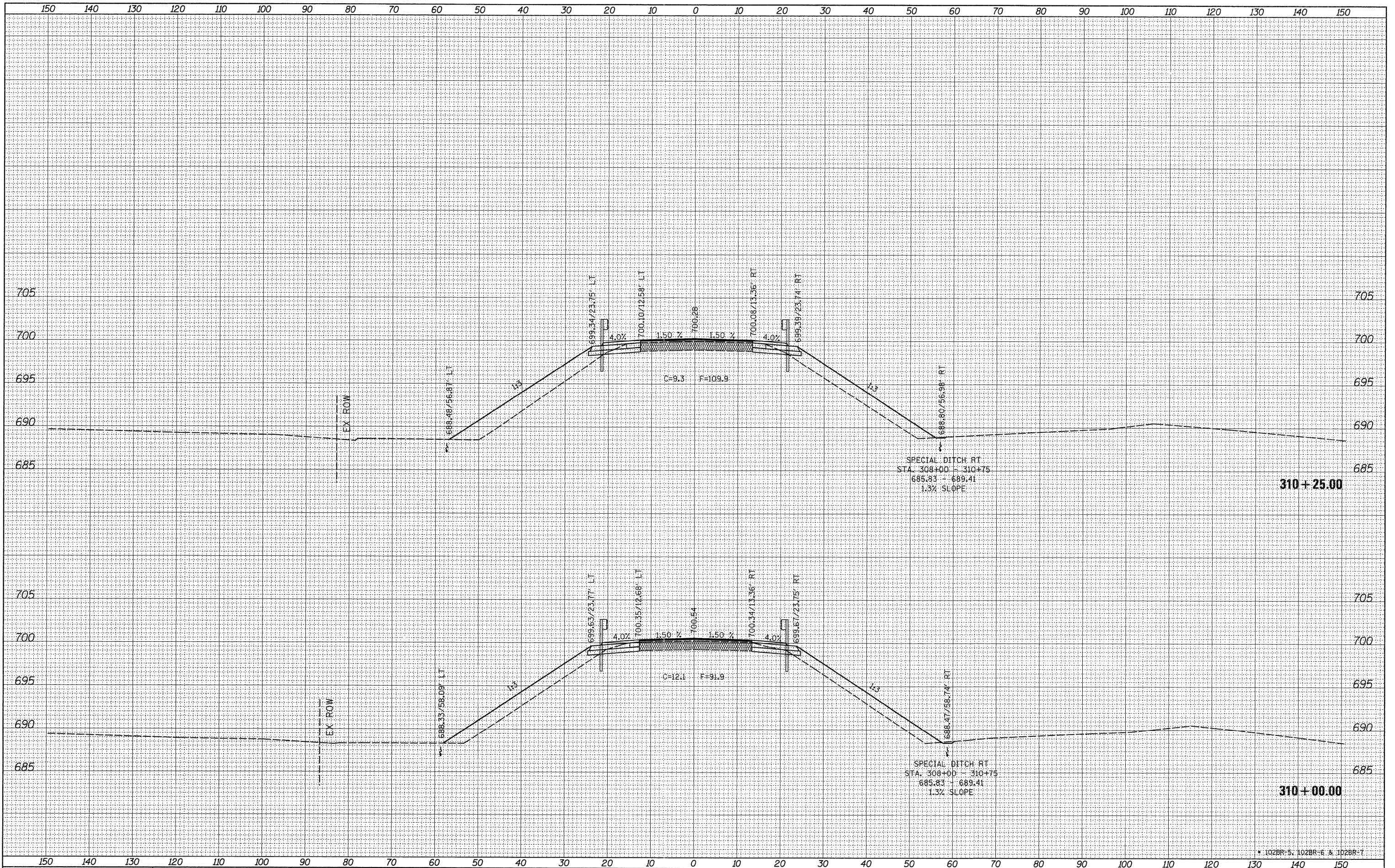
**IL ROUTE 26  
 CROSS-SECTIONS**  
 SCALE: SHEET NO. OF SHEETS STA. 309+50.00 TO STA. 309+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 179
CONTRACT NO. 64D57				
ILLINOIS FED. AID PROJECT				

\* 102BR-5, 102BR-6 & 102BR-7

DATE	
BY	
SURVEYED	
NOTE BOOK	
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TEMPLATES	
AREAS CHECKED	

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

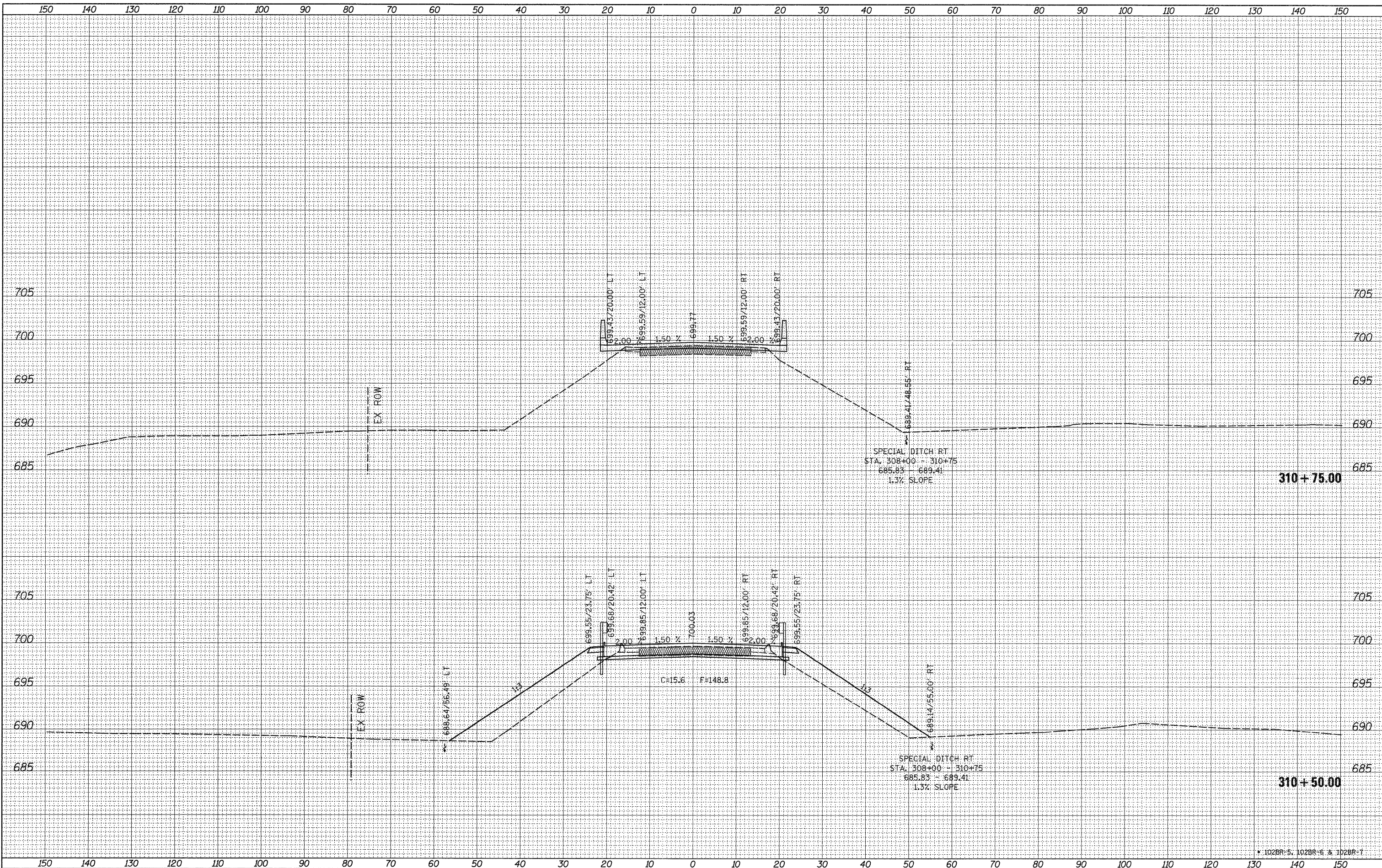
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 310+00.00 TO STA. 310+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 180
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

\* 102BR-5, 102BR-6 & 102BR-7





DATE	BY	REVISIONS	NO.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

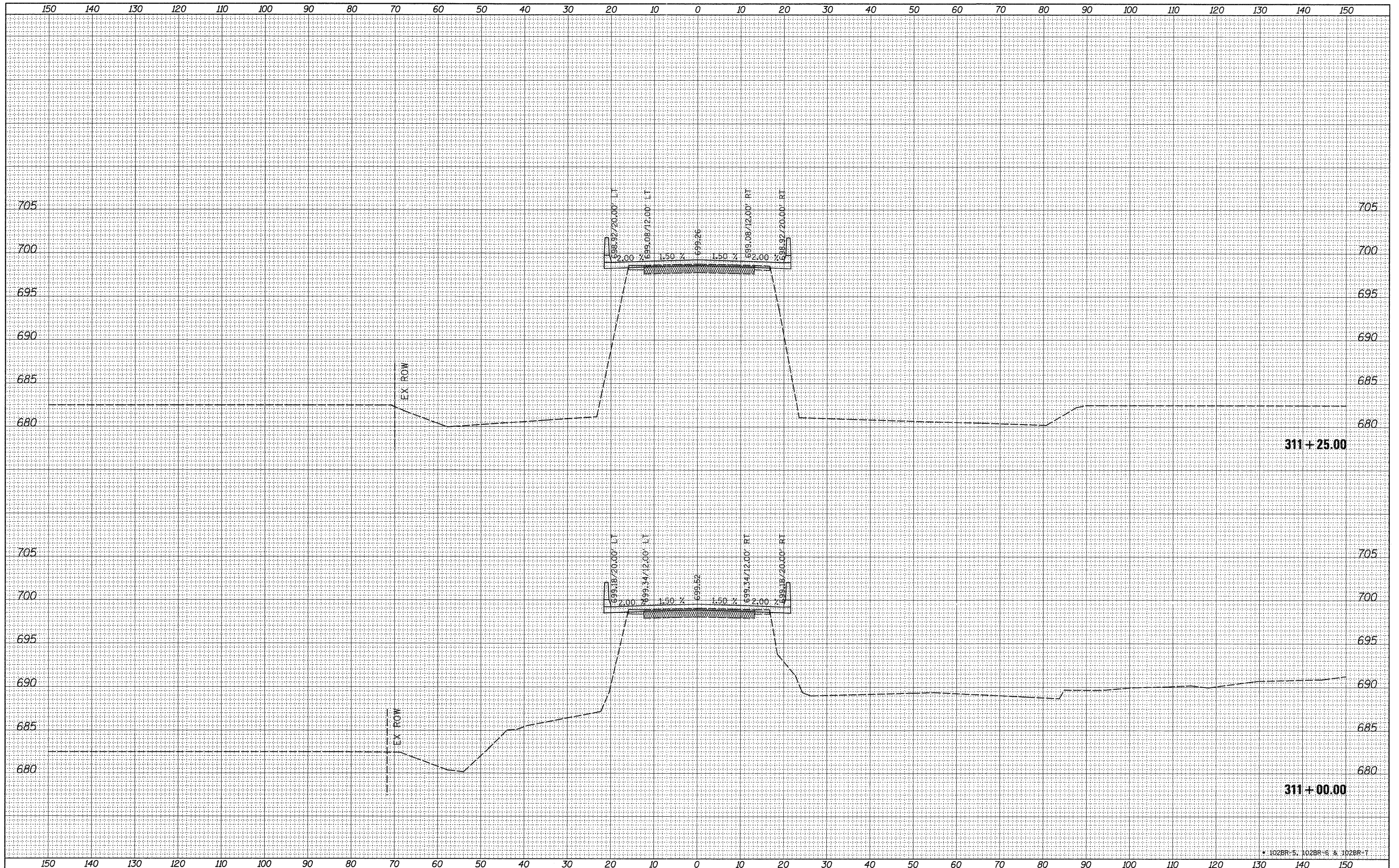
**IL ROUTE 26  
 CROSS-SECTIONS**  
 SCALE: SHEET NO. OF SHEETS STA. 310+50.00 TO STA. 310+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	181
CONTRACT NO. 64D57				

102BR-5, 102BR-6 & 102BR-7

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

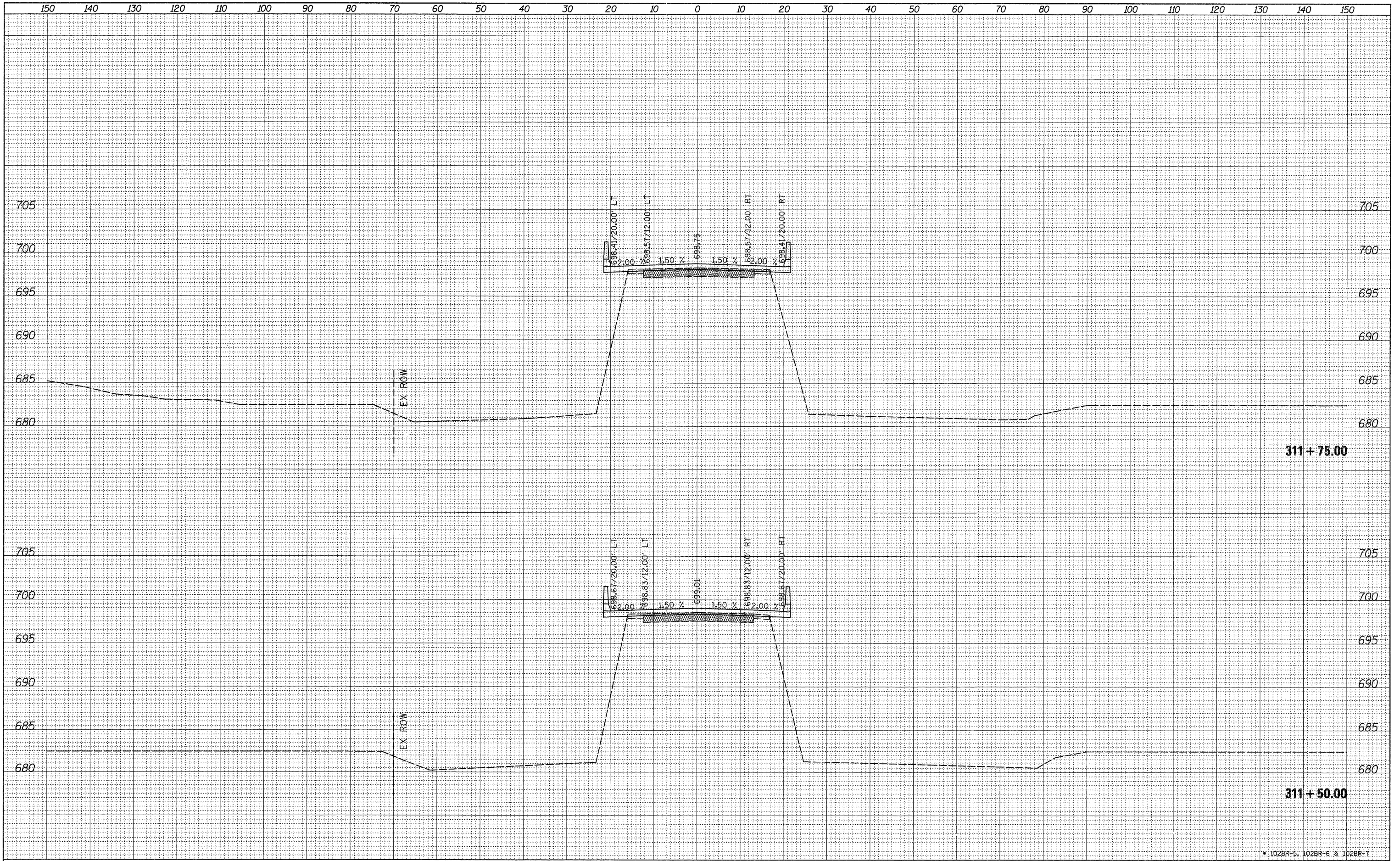
SCALE: SHEET NO. OF SHEETS STA. 311+00.00 TO STA. 311+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 182
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

\* 102BR-5, 102BR-6 & 102BR-7

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FINAL SURVEY	
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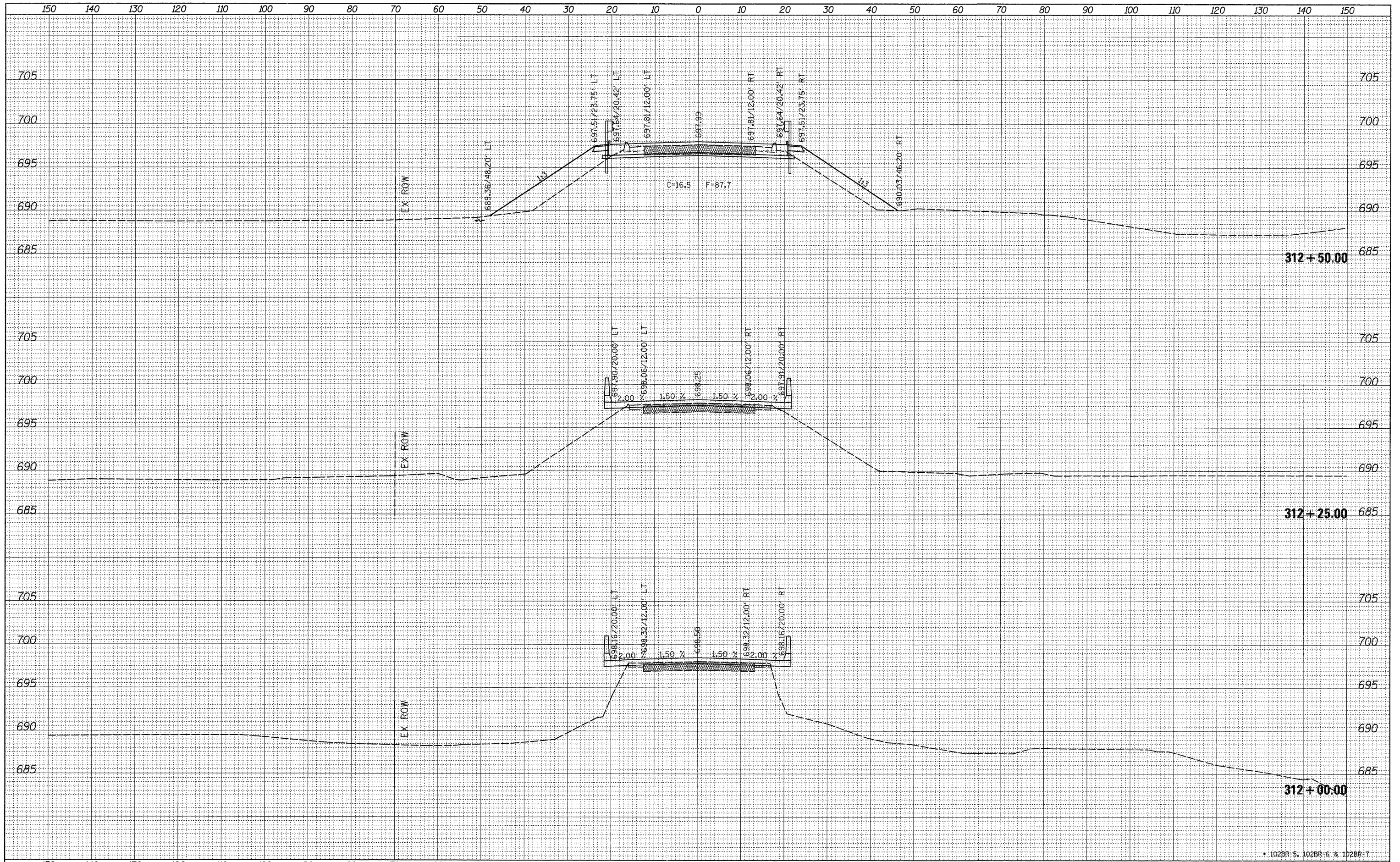
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PLOT DATE = Tue Aug 23 06:15:35 2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	SURVEY
NOTE BOOK NO.	NO.
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ORIGINAL SURVEY	SURVEY
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AREAS CHECKED	AREAS CHECKED



\* 102BR-5, 102BR-6 & 102BR-7

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

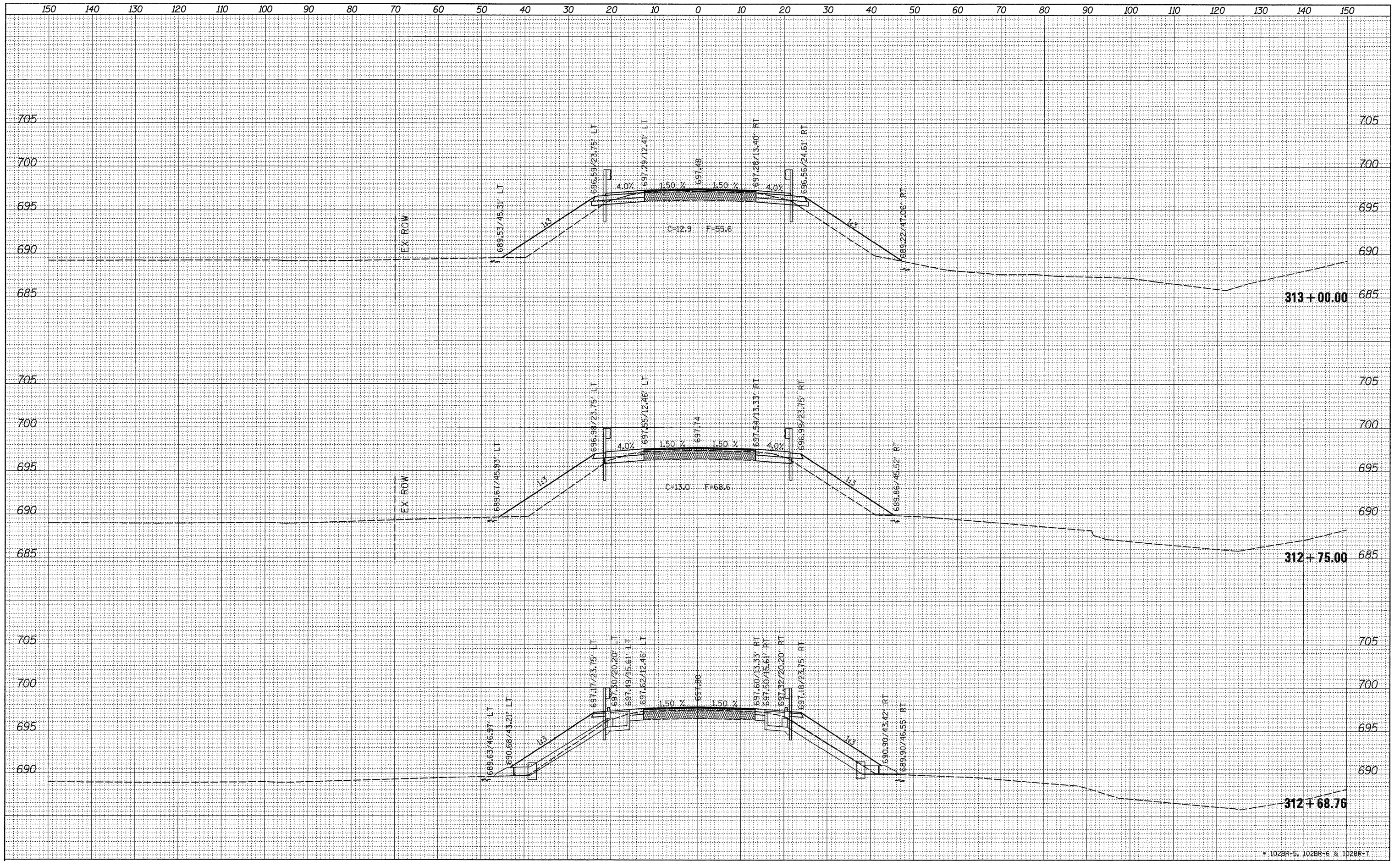
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 312+00.00 TO STA. 312+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	184
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

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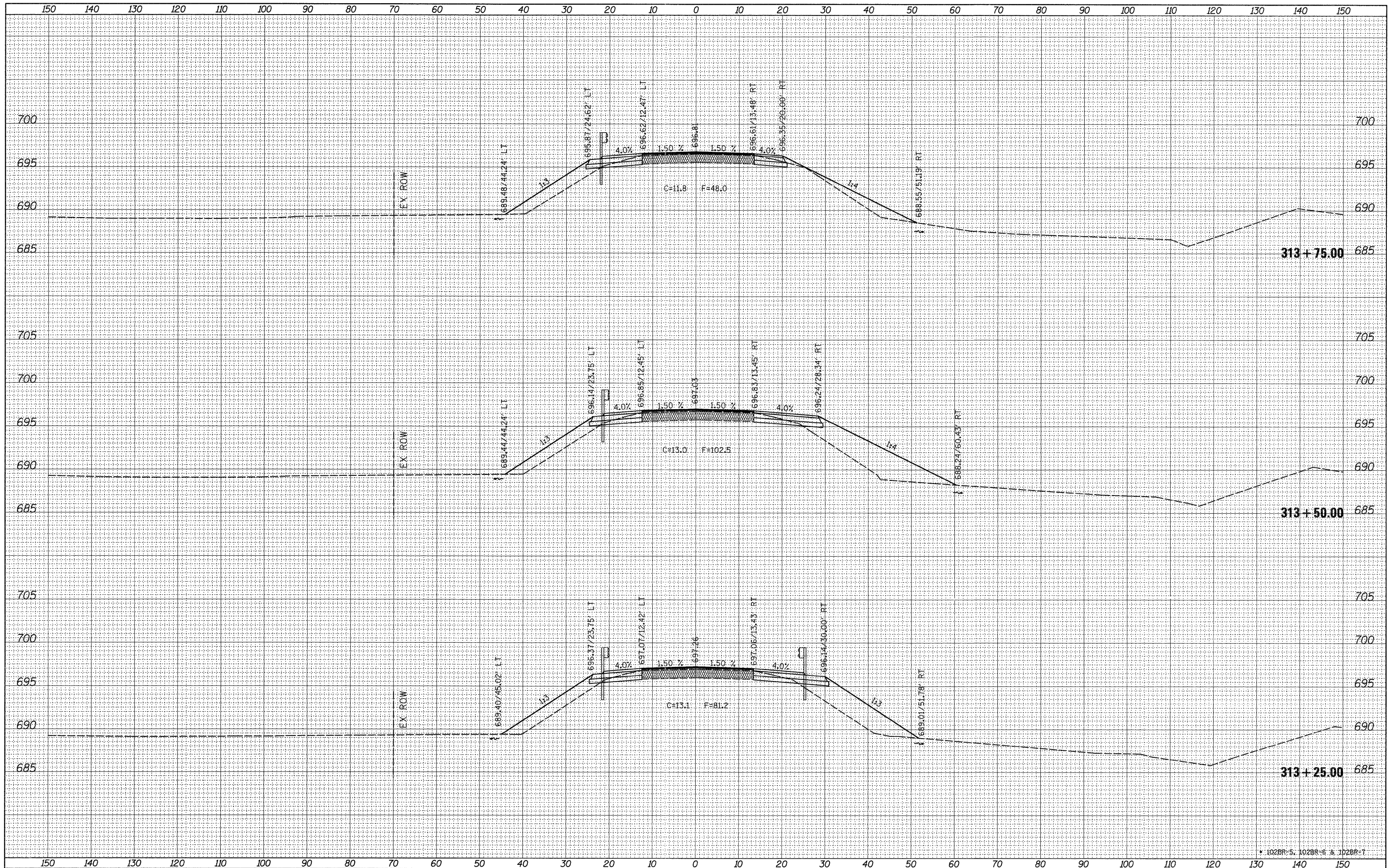
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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>				<b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\grantpm\dms41812\0218807-xsc	ml.dgn	DRAWN -	REVISED -							316	*	LEE	216	185
PLOT SCALE = 10.0000' / 1in.	CHECKED -	REVISED -	REVISED -							CONTRACT NO. 64D57				
PLOT DATE = Tue Aug 23 06:15:37 2011	DATE -	REVISED -	REVISED -							ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO.	OF SHEETS	STA. 312+68.76	TO STA. 313+00.00						

DATE	
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 PLOT DATE = Tue Aug 23 06:15:39 2011

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

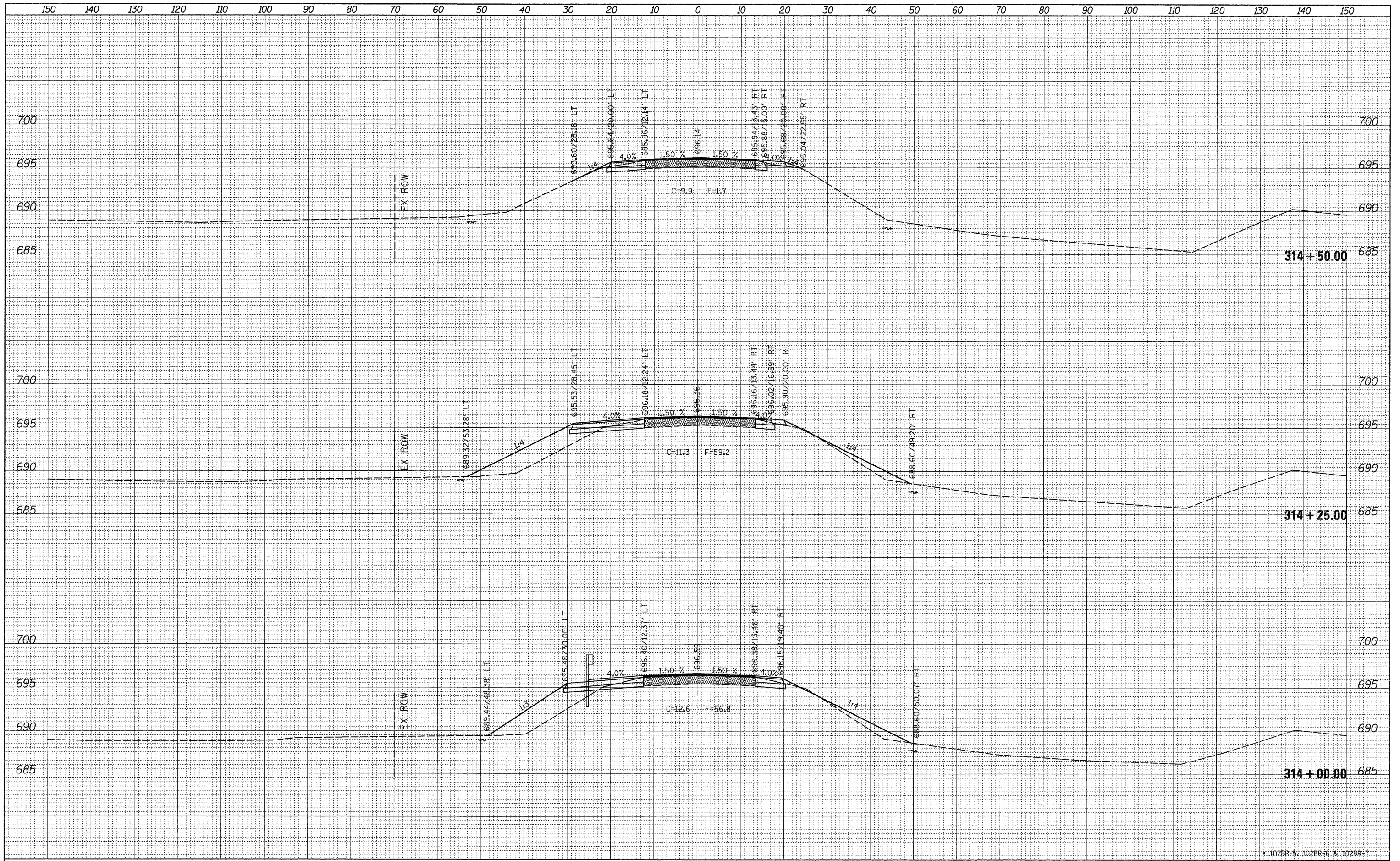
**IL ROUTE 26  
CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 313+25.00 TO STA. 313+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 186
CONTRACT NO. 64D57				
ILLINOIS FED. AID PROJECT				

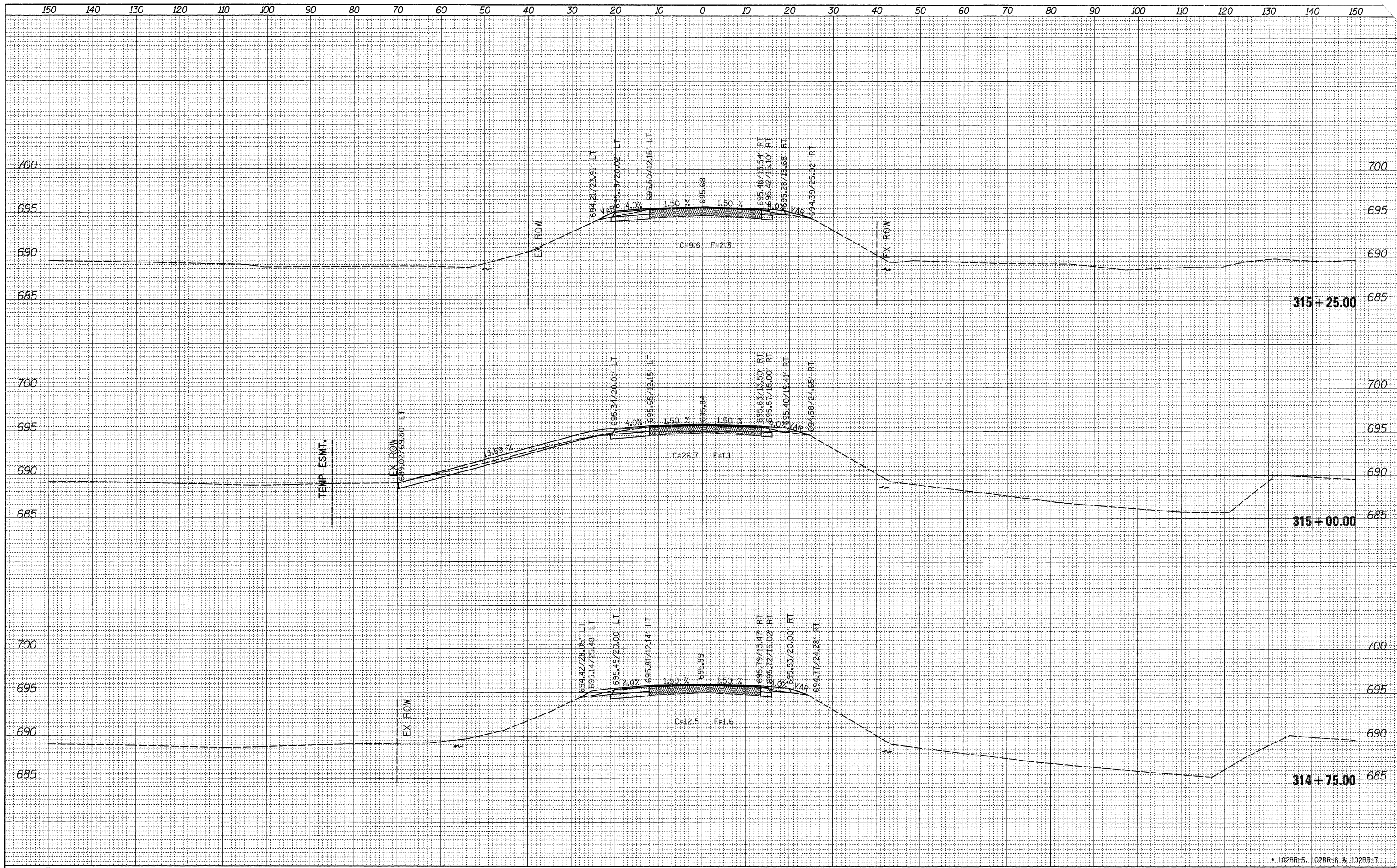
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 314+75.00 TO STA. 315+25.00

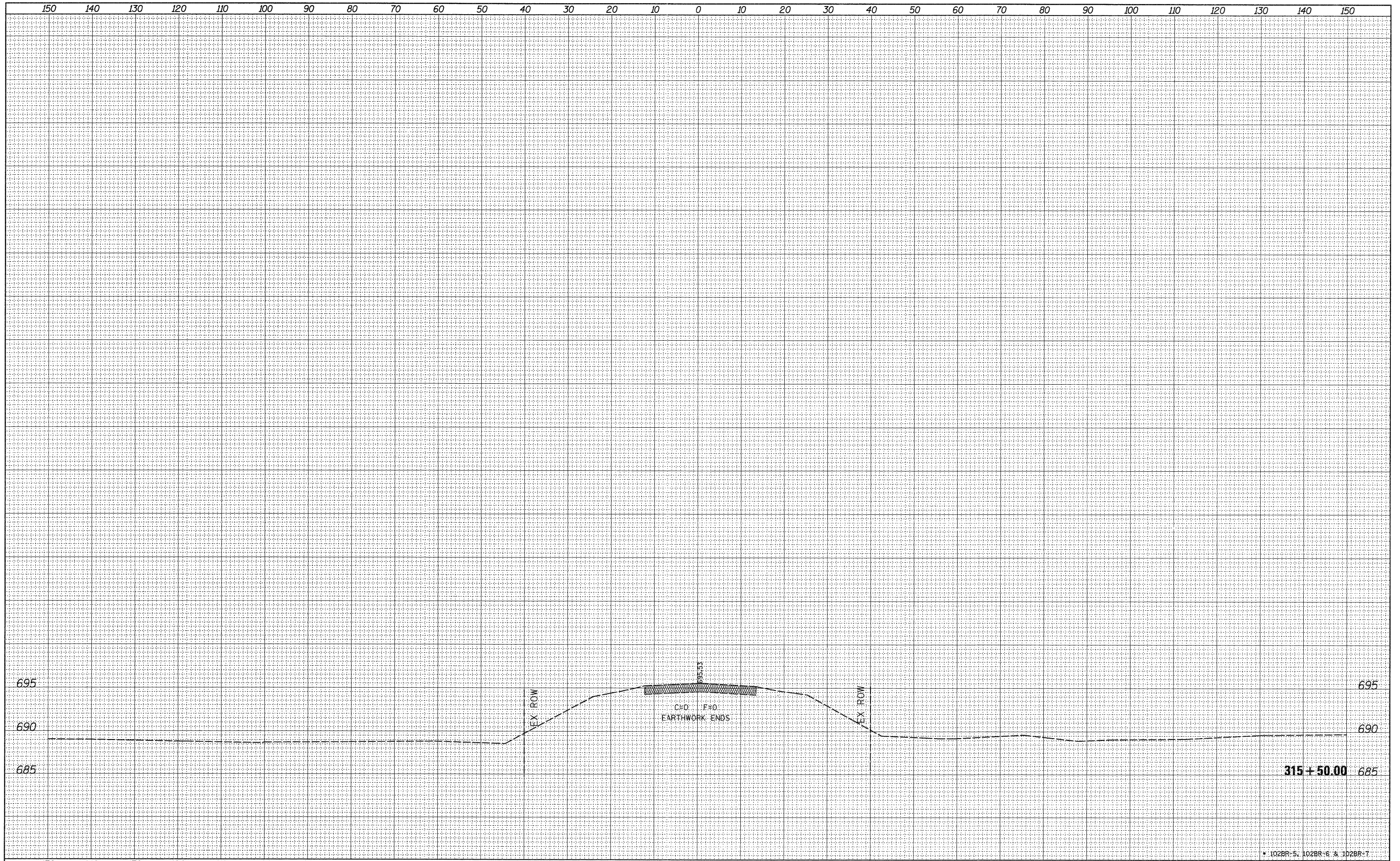
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	188
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

\* 102BR-5, 102BR-6 & 102BR-7



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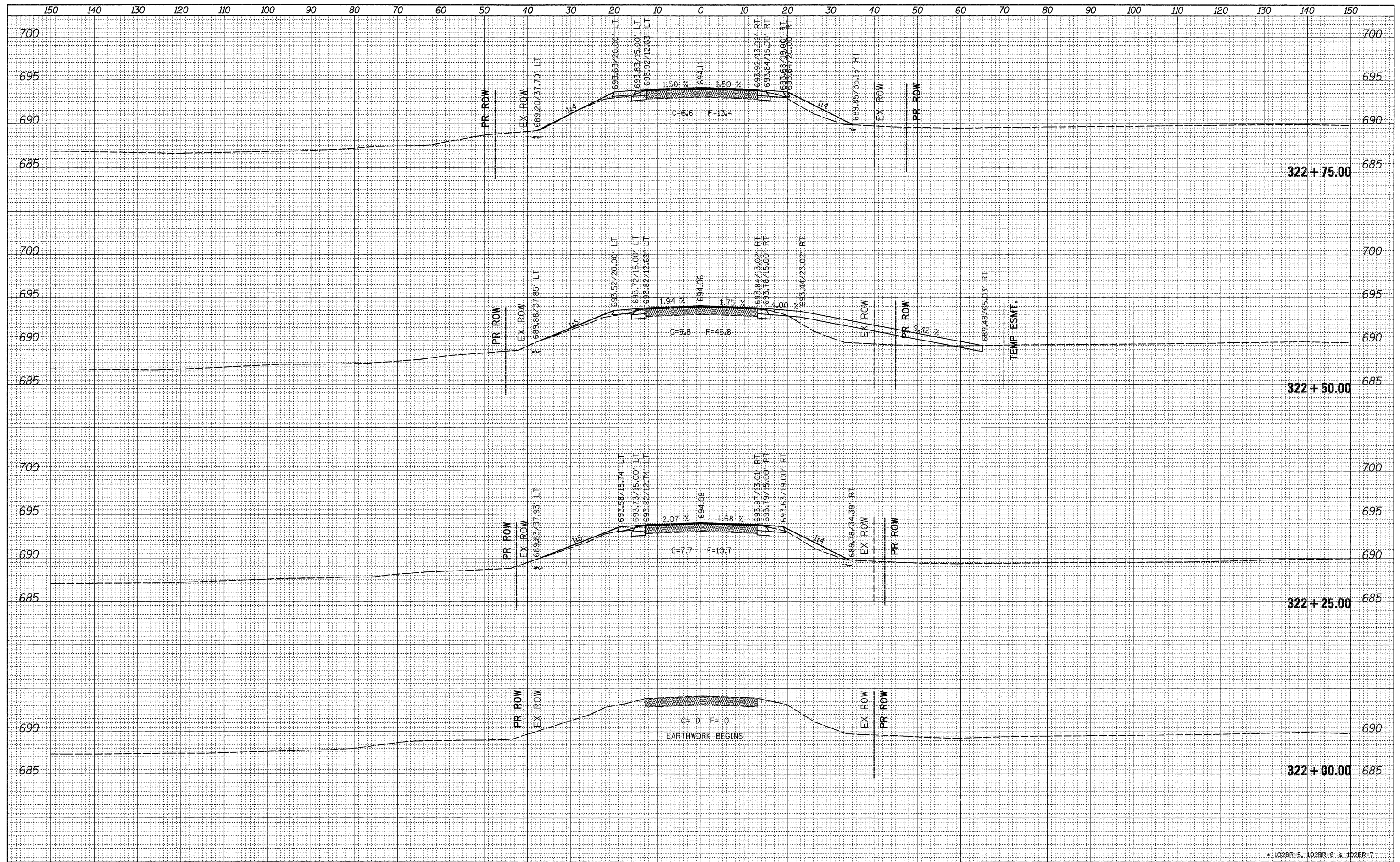
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at:\pw_work\pwwdot\grantpm\dms41812\0218807-xsc.mldgn		DRAWN -	REVISED -		316	*	LEE	216	189			
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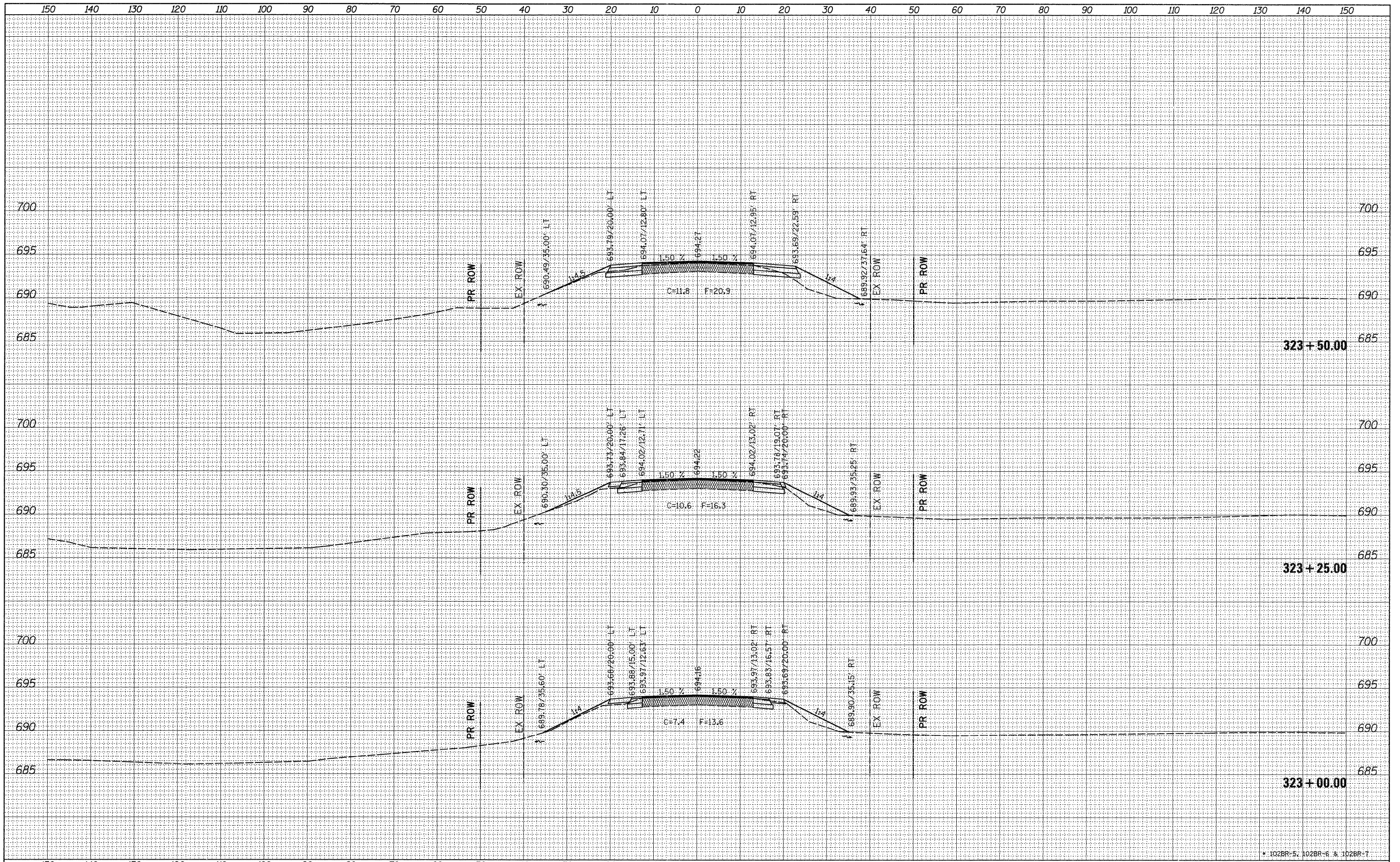
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FINAL SURVEY NO.	CURVED SURVEY	DATE
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	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	CURVED SURVEY	DATE
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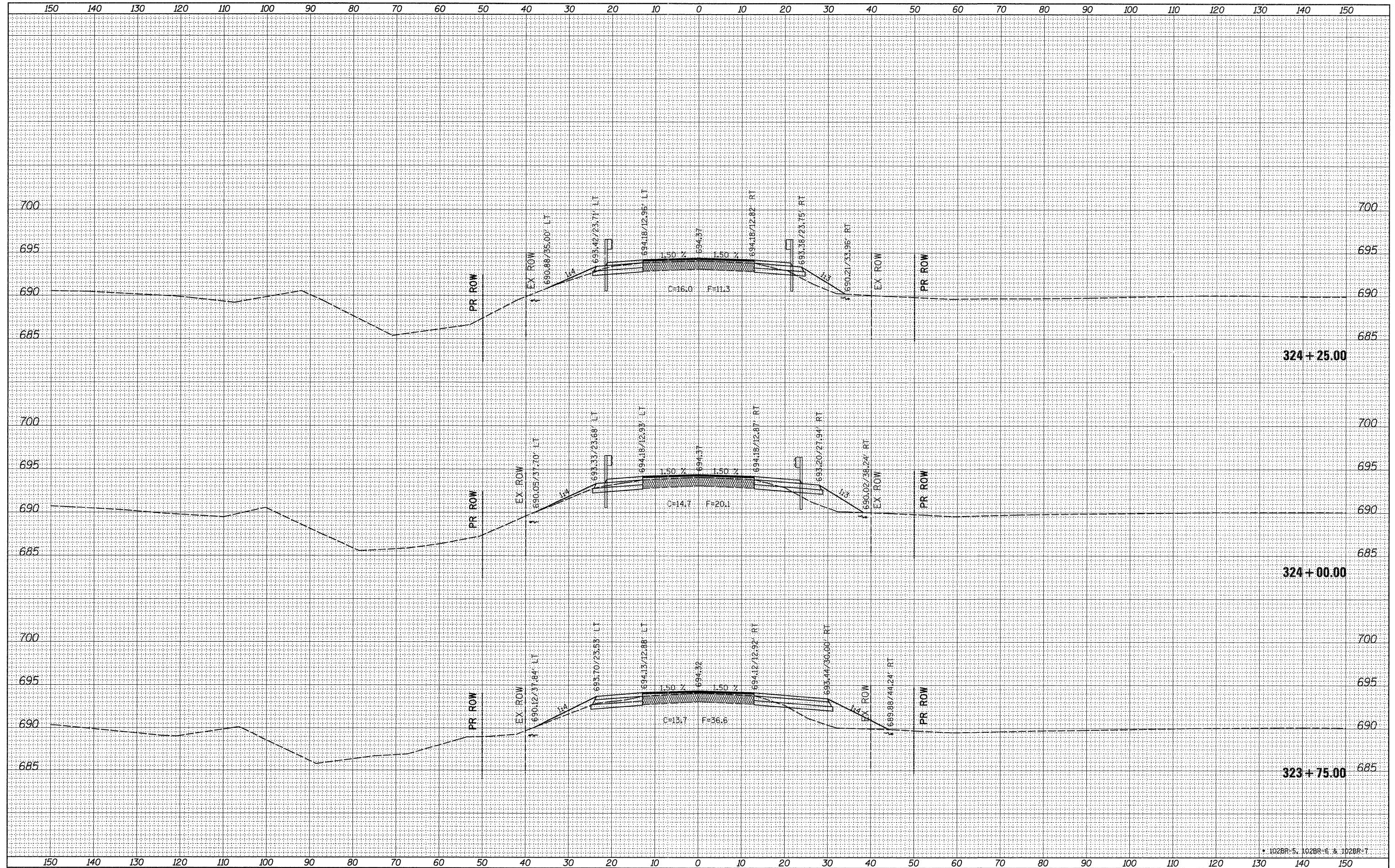


\* 102BR-5, 102BR-6 & 102BR-7

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS-SECTIONS</b>			F.A.P. RTE. = 316	SECTION = *	COUNTY = LEE	TOTAL SHEETS = 216	SHEET NO. = 191
CONTRACT NO. = 64D57	CONTRACT NO. = 64D57	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 323+00.00 TO STA. 323+50.00	ILLINOIS FED. AID PROJECT				
		CHECKED -	REVISED -									
		DATE = Tue Aug 23 06:15:43 2011	REVISED -									

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\* 102BR-5, 102BR-6 & 102BR-7

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

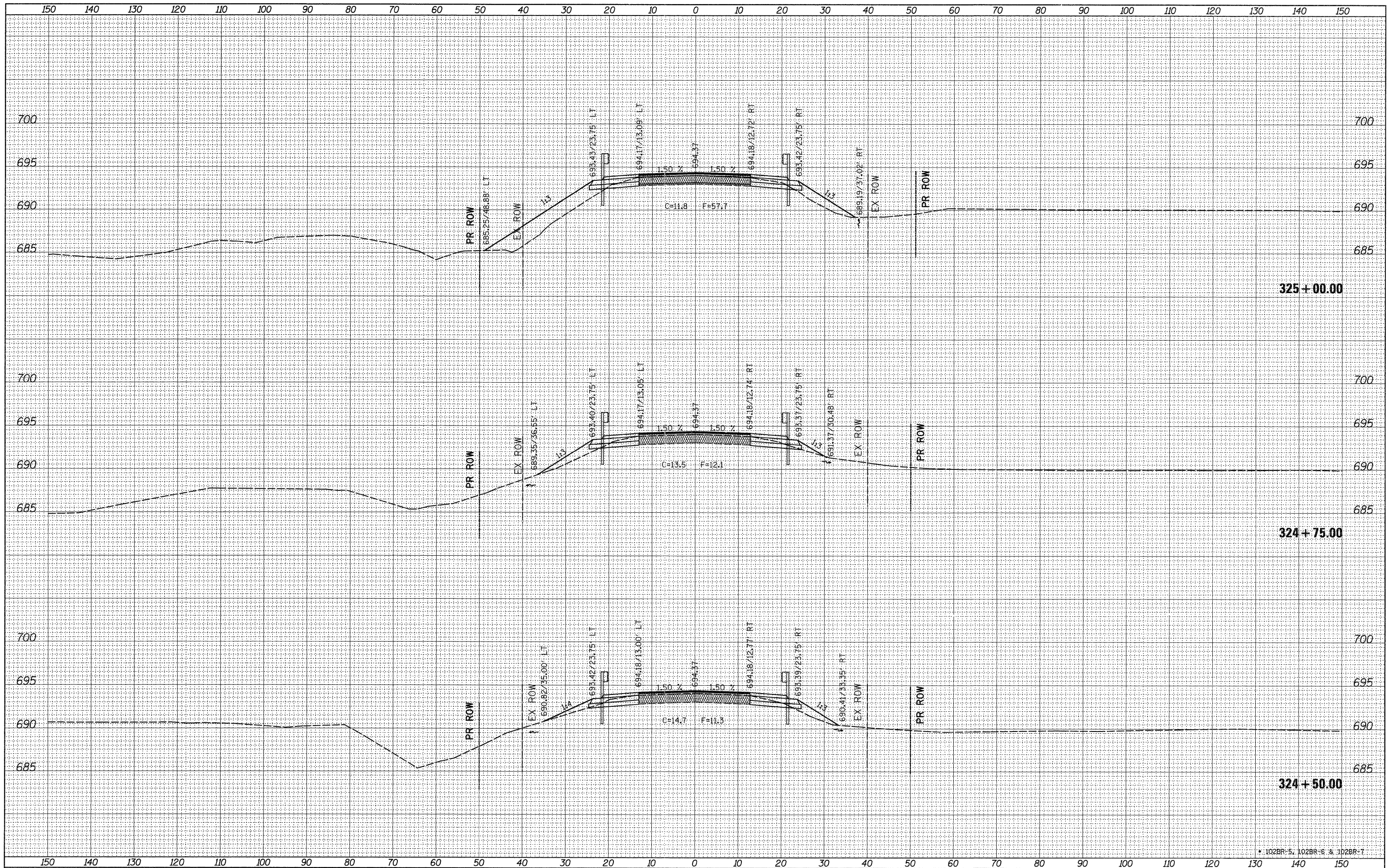
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 323+75.00 TO STA. 324+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 192
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

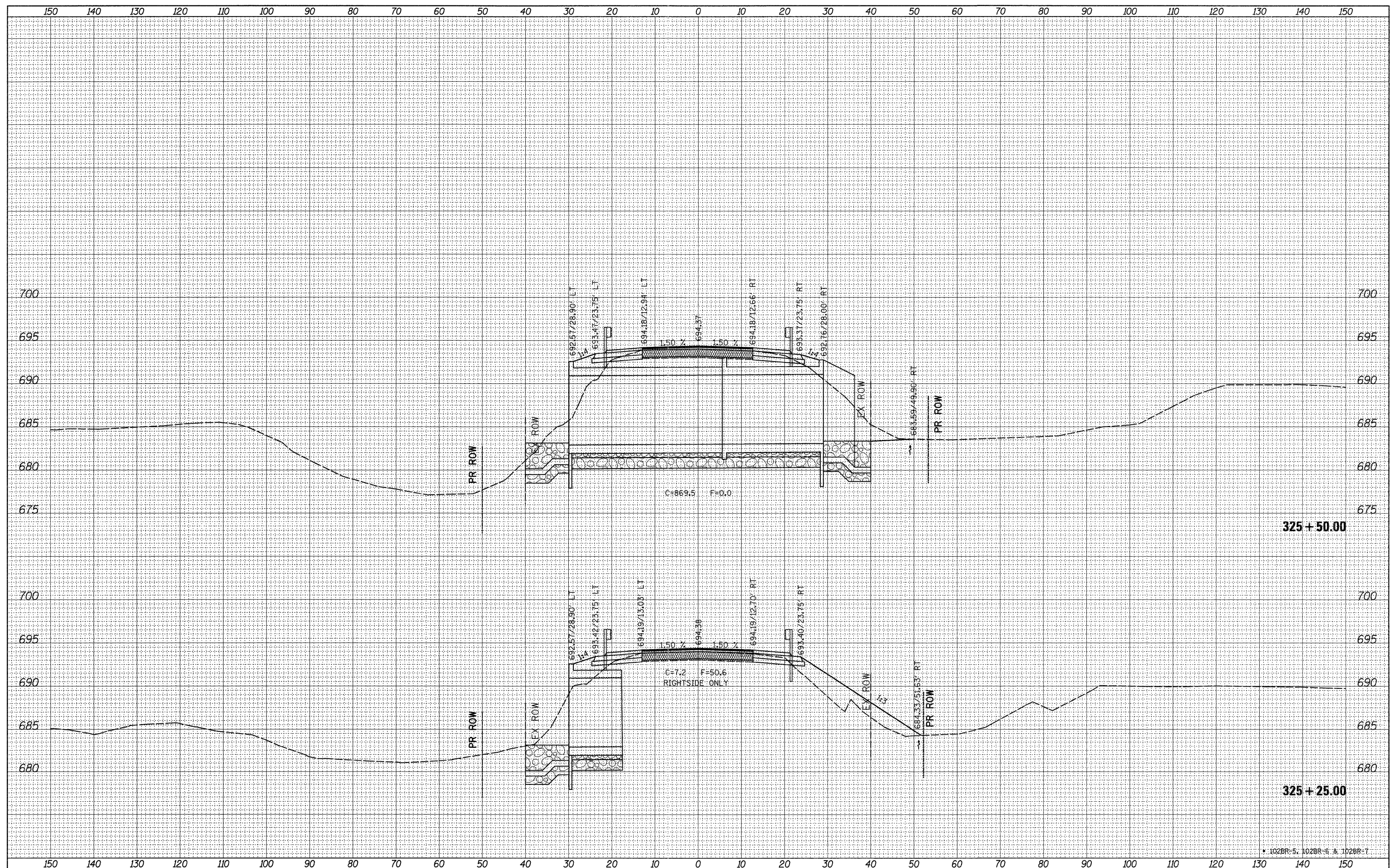
SCALE: SHEET NO. OF SHEETS STA. 324+50.00 TO STA. 325+00.00

F.A.P. R.T.E. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 193
				CONTRACT NO. 64D57
ILLINOIS FED. AID PROJECT				

\* 102BR-5, 102BR-6 & 102BR-7

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PLOT DATE = Tue Aug 23 06:15:47 2011	DATE -

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

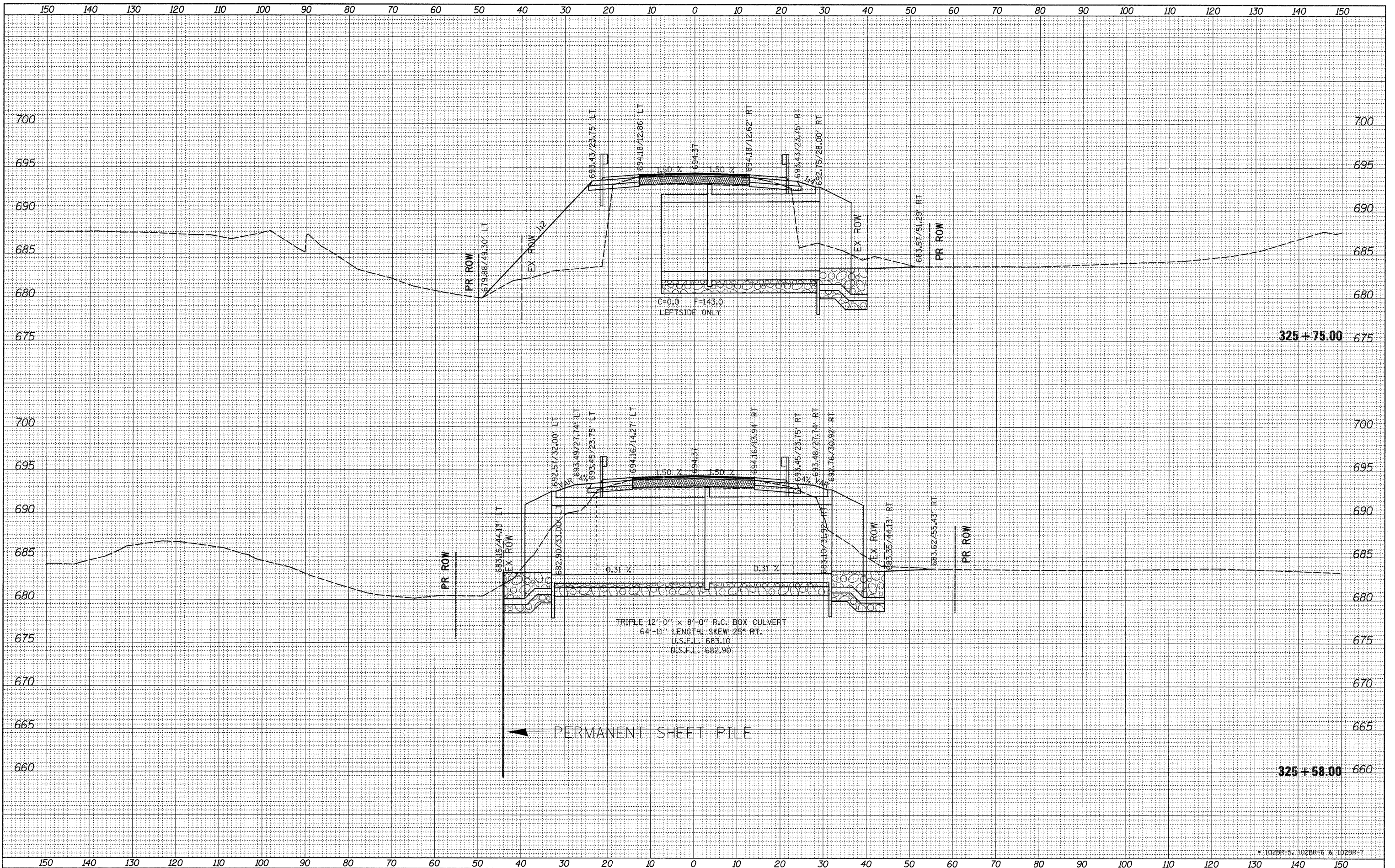
**IL ROUTE 26  
CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 325+25.00 TO STA. 325+50.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 194
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

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

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



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 CHECKED -  
 DATE - Tue Aug 23 06:15:48 2011

REVISIONS:  
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 REVISION -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

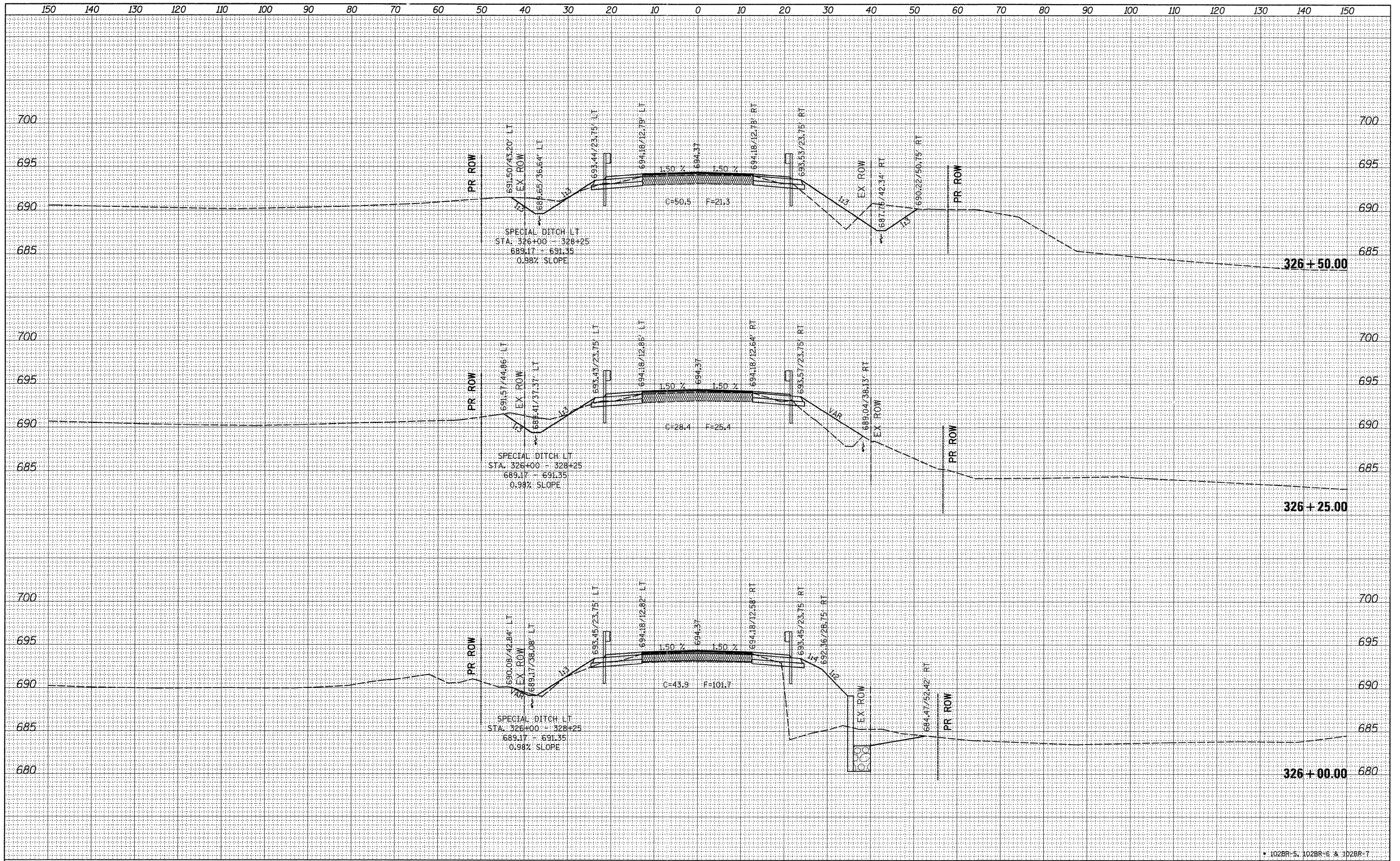
**IL ROUTE 26  
 CROSS-SECTIONS**  
 SCALE: SHEET NO. OF SHEETS STA. 325+58.00 TO STA. 325+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 195
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

\* 102BR-5, 102BR-6 & 102BR-7

DATE	
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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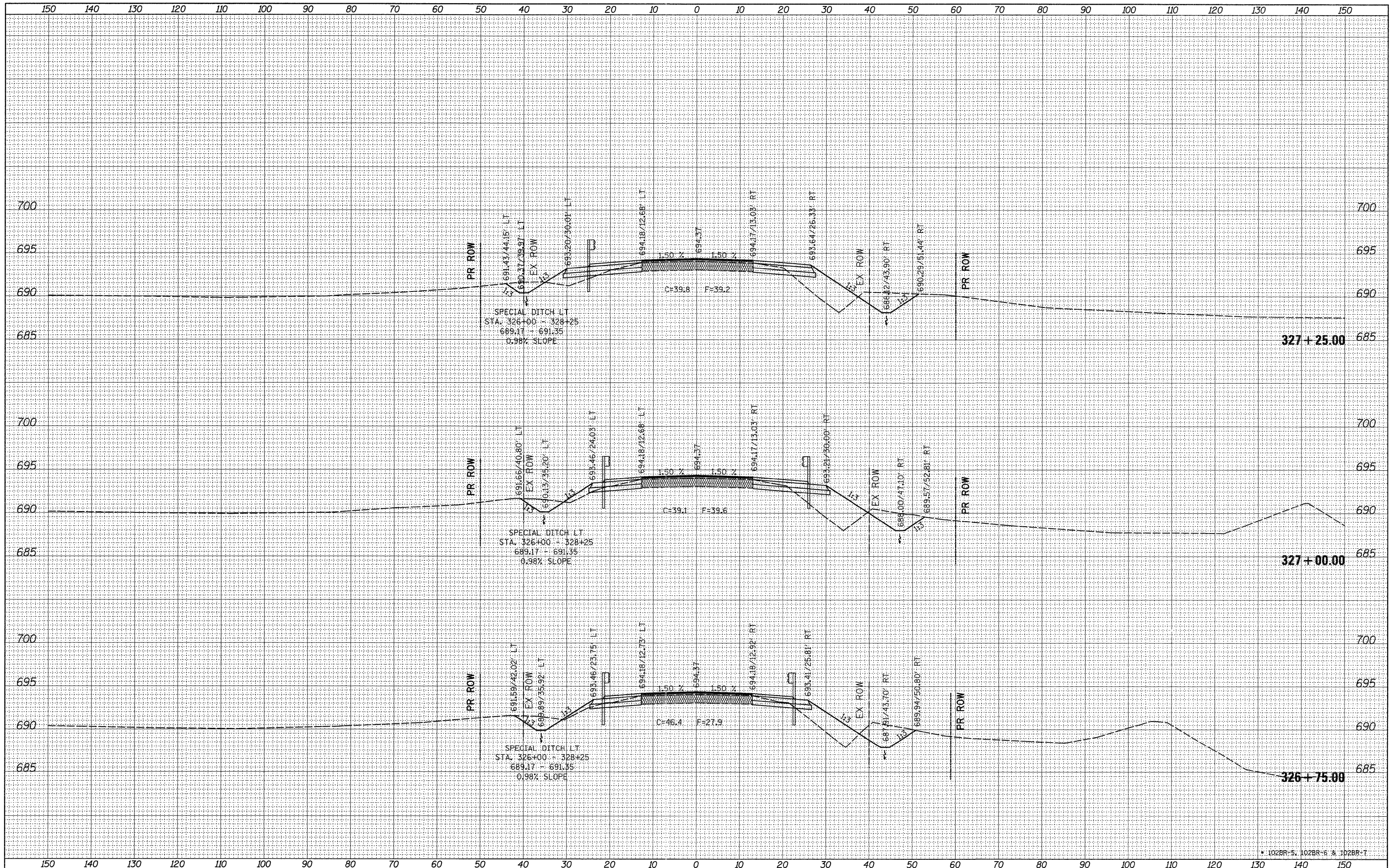
DATE	
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
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NO.	





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

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



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DESIGNED -  
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 CHECKED -  
 DATE -

REVISED -  
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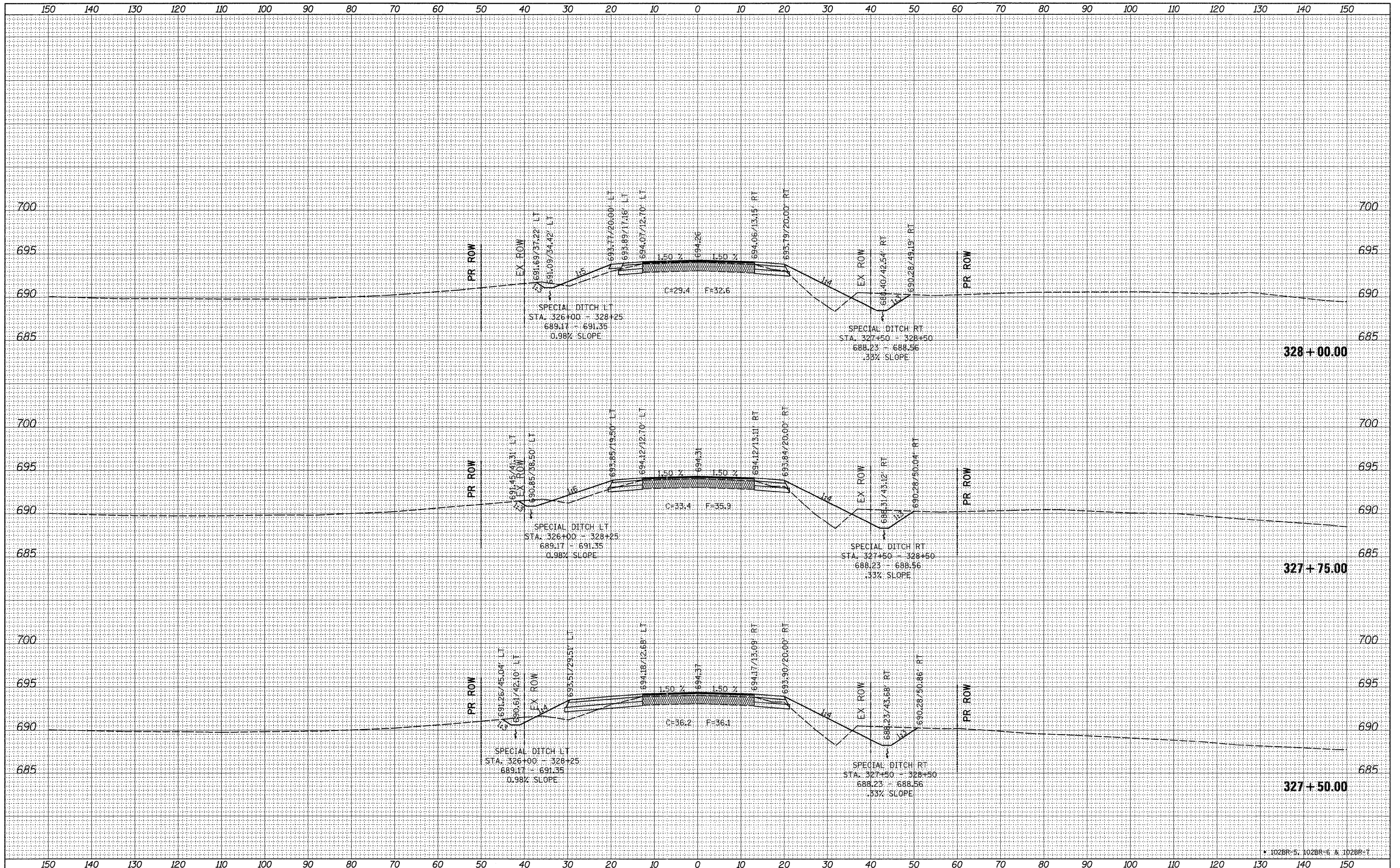
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**  
 SCALE: SHEET NO. OF SHEETS STA. 326+75.00 TO STA. 327+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 197
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = grantpm
ct:\pw_work\pudot\grantpm\dms41812\0210887-xsc.mxd	
PLOT SCALE = 10,0000' / 1"	CHECKED -
PLOT DATE = Tue Aug 23 06:15:51 2011	DATE -

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

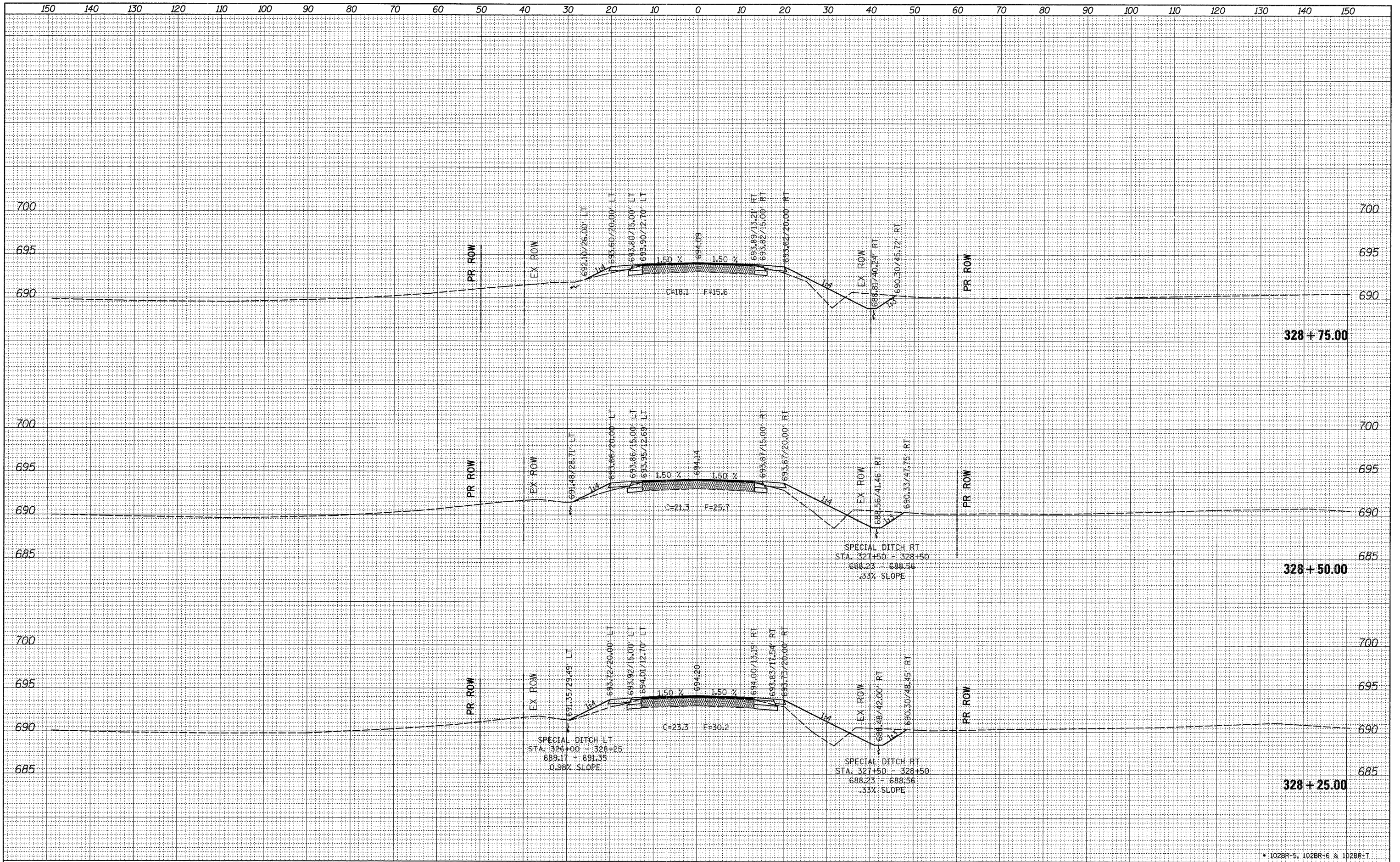
SCALE:	SHEET NO.	OF	SHEETS	STA. 327+50.00	TO	STA. 328+00.00

<b>IL ROUTE 26 CROSS-SECTIONS</b>	
F.A.P. RTE. 316	SECTION *
COUNTY LEE	TOTAL SHEETS 216
CONTRACT NO. 64D57	SHEET NO. 198

ILLINOIS FED. AID PROJECT	
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DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

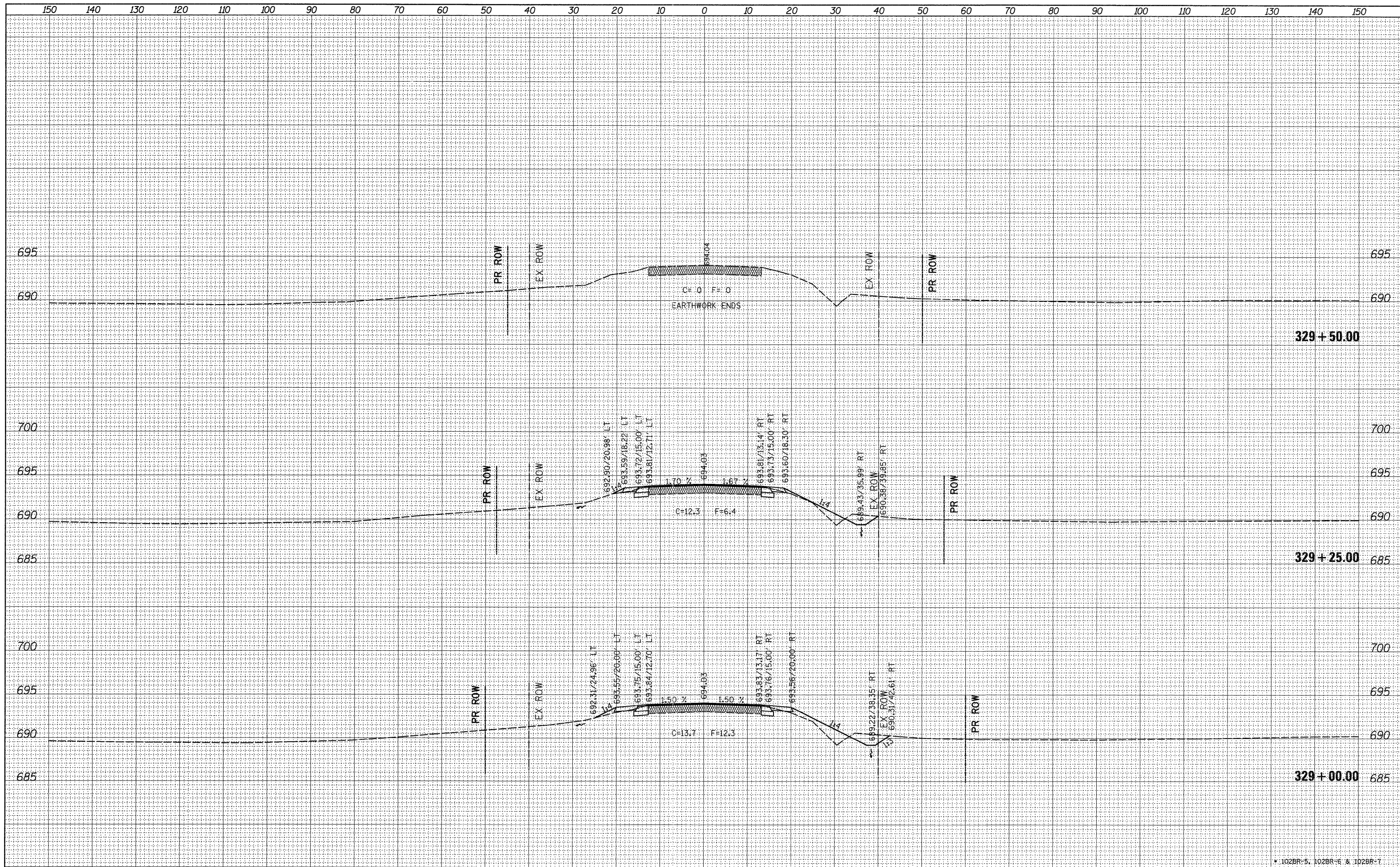
DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>				F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 199			
CONTRACT NO. 64057	PLLOT SCALE = 10.0000' / 1in.	DRAWN -	REVISED -					SCALE:	SHEET NO. OF SHEETS	STA. 328+25.00 TO STA. 328+75.00	ILLINOIS FED. AID PROJECT				
	PLLOT DATE = Tue Aug 23 06:15:52 2011	CHECKED -	REVISED -												
		DATE -	REVISED -												

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

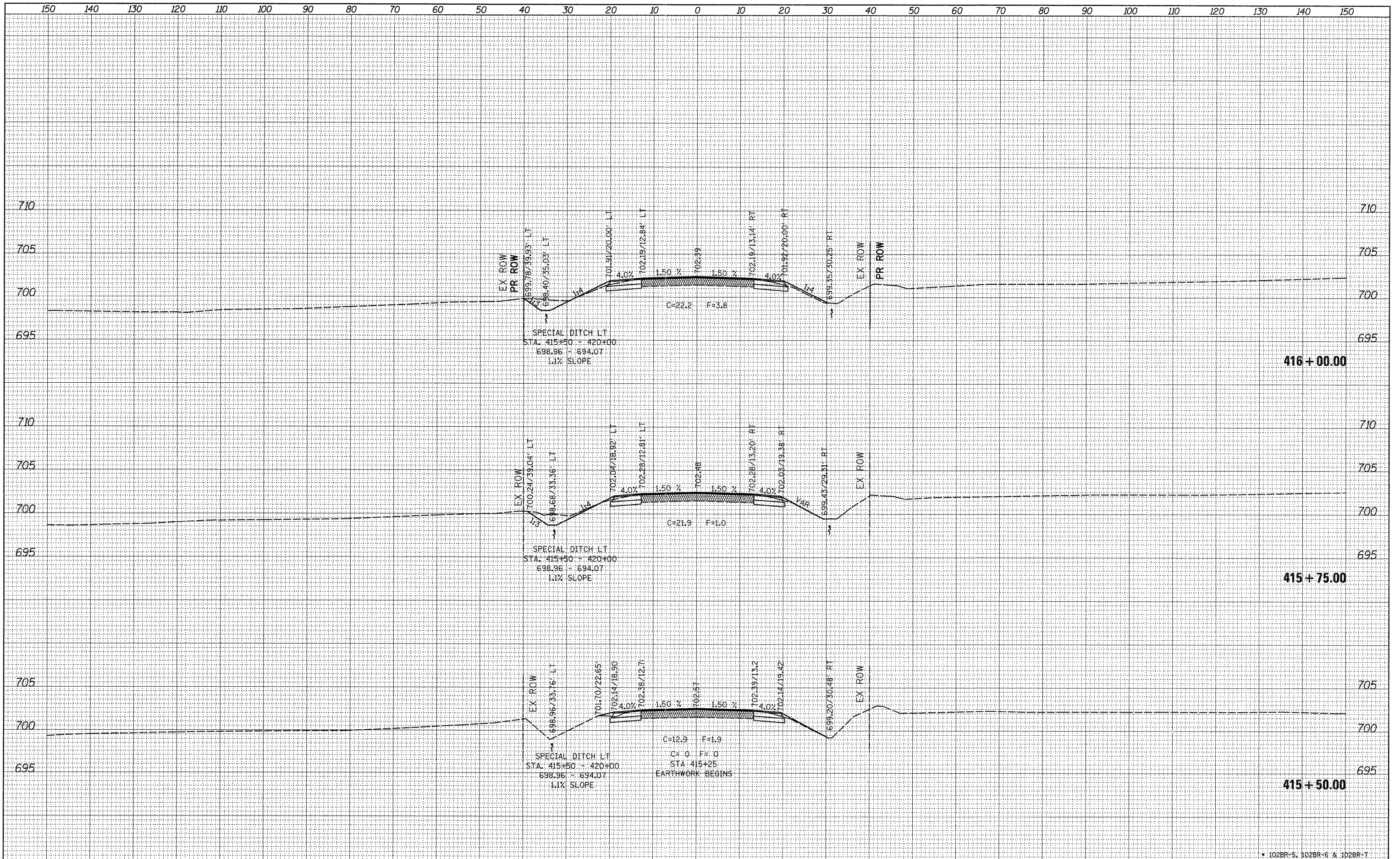
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TEMPLATED	BY
AREAS CHECKED	AREAS	
NO.		



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
as:\pw_work\pwidot\grantpm\dms41812\0218807-rsc	mldgn	DRAWN -	REVISED -					316	*	LEE	216	200
PLOT SCALE = 10.0000' / 1in.	CHECKED -	REVISED -						CONTRACT NO. 64D57				
PLOT DATE = Tue Aug 23 06:15:53 2011	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA. 329+00.00 TO STA. 329+50.00				

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

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

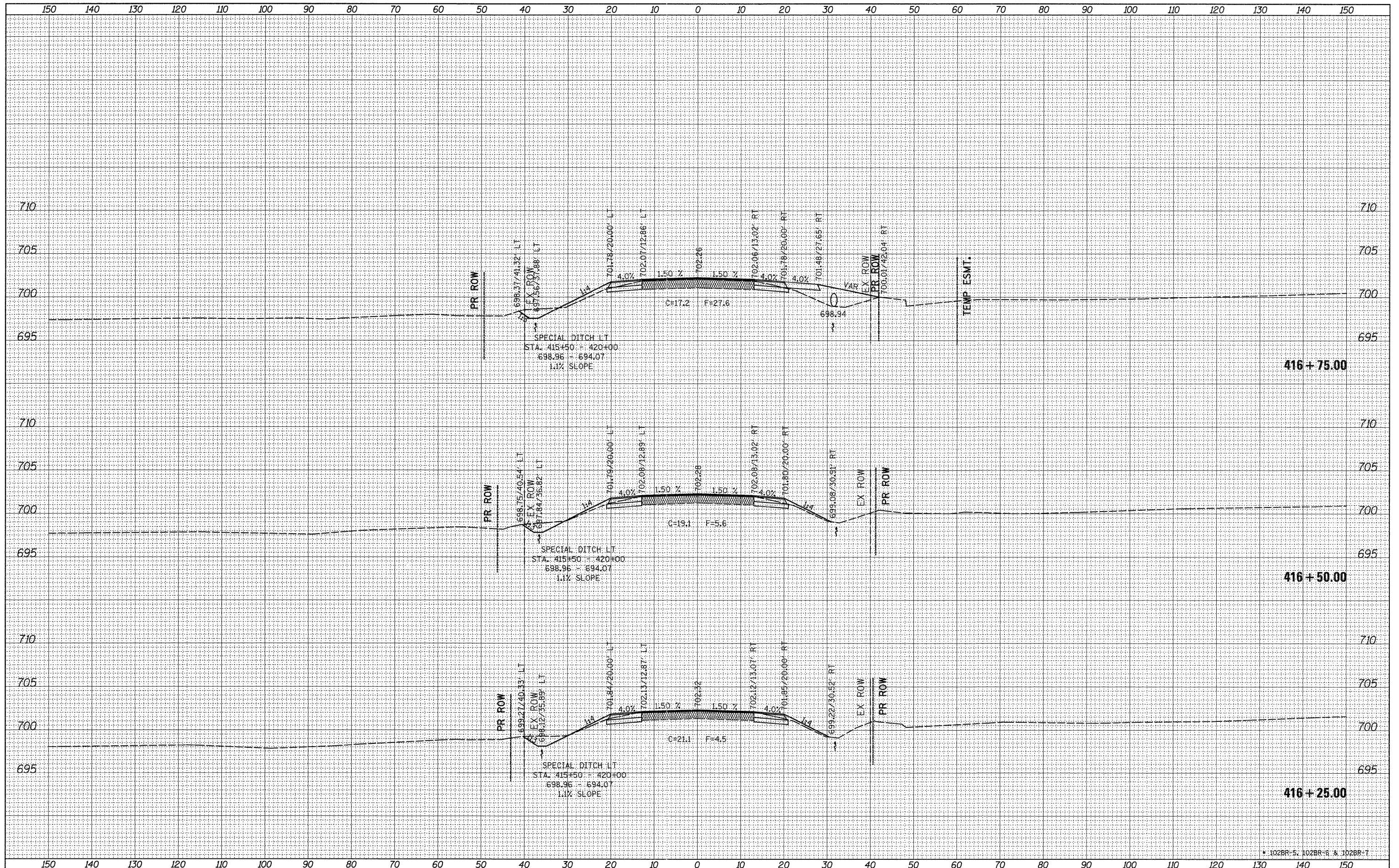


\* 102BR-5, 102BR-6 & 102BR-7

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS-SECTIONS</b>			F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 201
CONTRACT NO. 64D57	PLLOT SCALE = 10.0000' / 1in.	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 415+50.00 TO STA. 416+00.00	ILLINOIS FED. AID PROJECT				
	PLLOT DATE = Tue Aug 23 06:15:54 2011	CHECKED -	REVISED -									
		DATE -	REVISED -									

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

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



FILE NAME = c:\pwork\psdot\grantpm\dms41812\0218807-xsc.mxdgn

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 PLOT DATE = Tue Aug 23 06:15:56 2011

DESIGNED -  
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 DATE -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

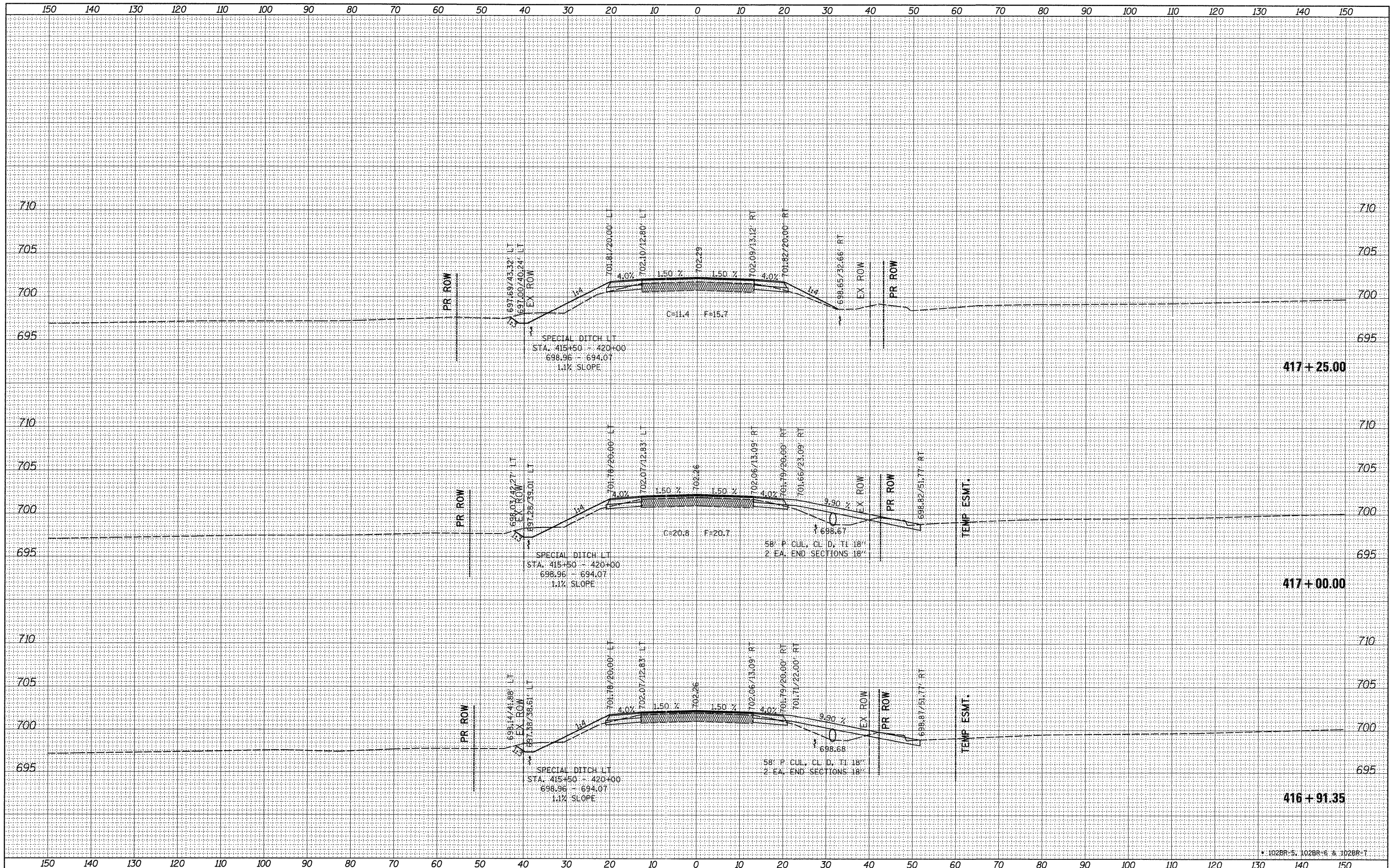
SCALE: SHEET NO. OF SHEETS STA. 416+25.00 TO STA. 416+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 202
				CONTRACT NO. 64D57
ILLINOIS FED. AID PROJECT				

\* 102BR-5, 102BR-6 & 102BR-7

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
PLotted		
TEMPERATURE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
PLotted		
TEMPERATURE		
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NO.		



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 PLOT DATE = Tue Aug 23 06:15:57 2011

DESIGNED -  
 DRAWN -  
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 DATE -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

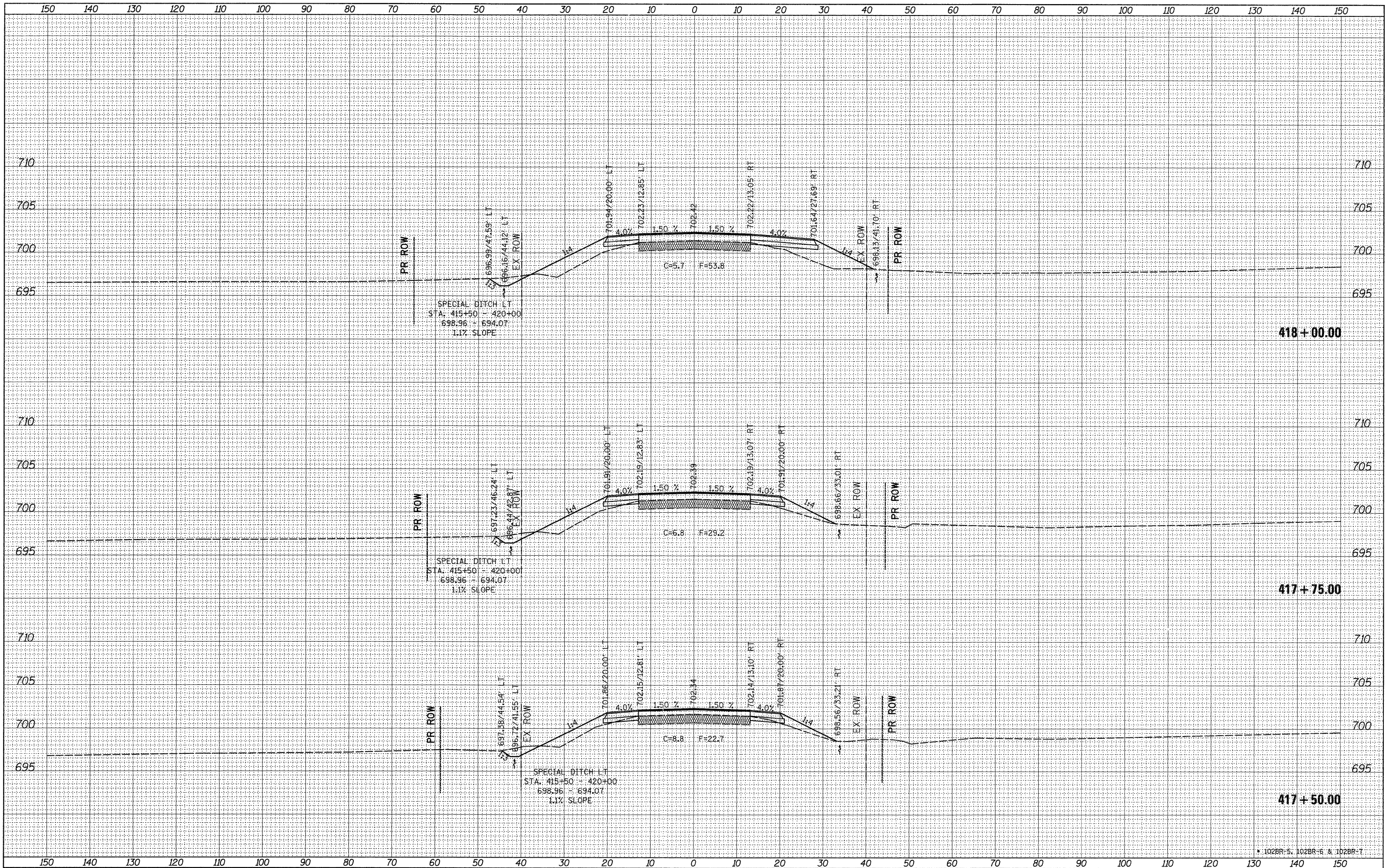
SCALE: SHEET NO. OF SHEETS STA. 416+91.35 TO STA. 417+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 203
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

\* 102BR-5, 102BR-6 & 102BR-7

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

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



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 DESIGNED -  
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REVISIED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 26  
 CROSS-SECTIONS

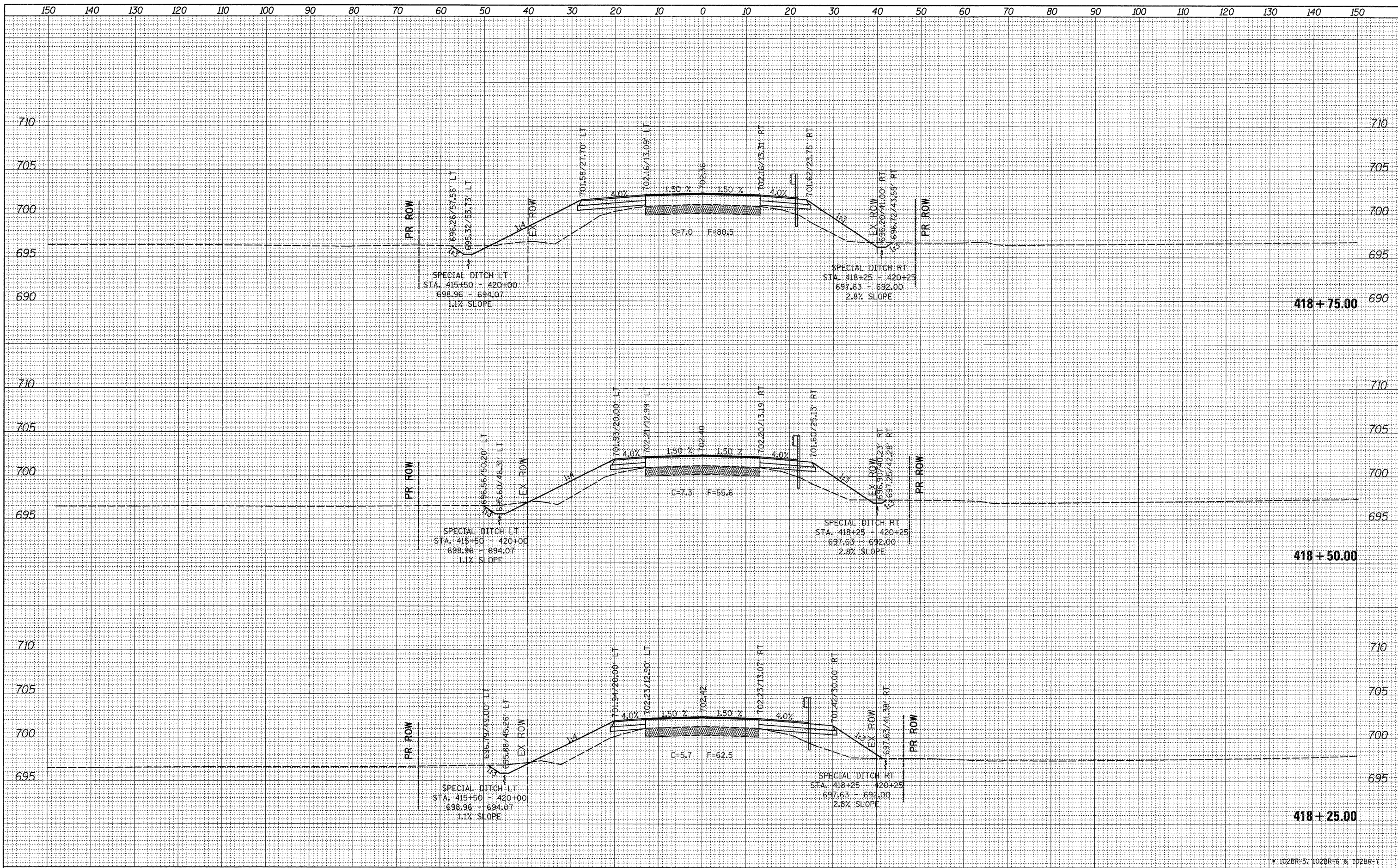
SCALE: SHEET NO. OF SHEETS STA. 417+50.00 TO STA. 418+00.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 204
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				



DATE	
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FINAL SURVEY	
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NOTE BOOK	
TEMPLATE	
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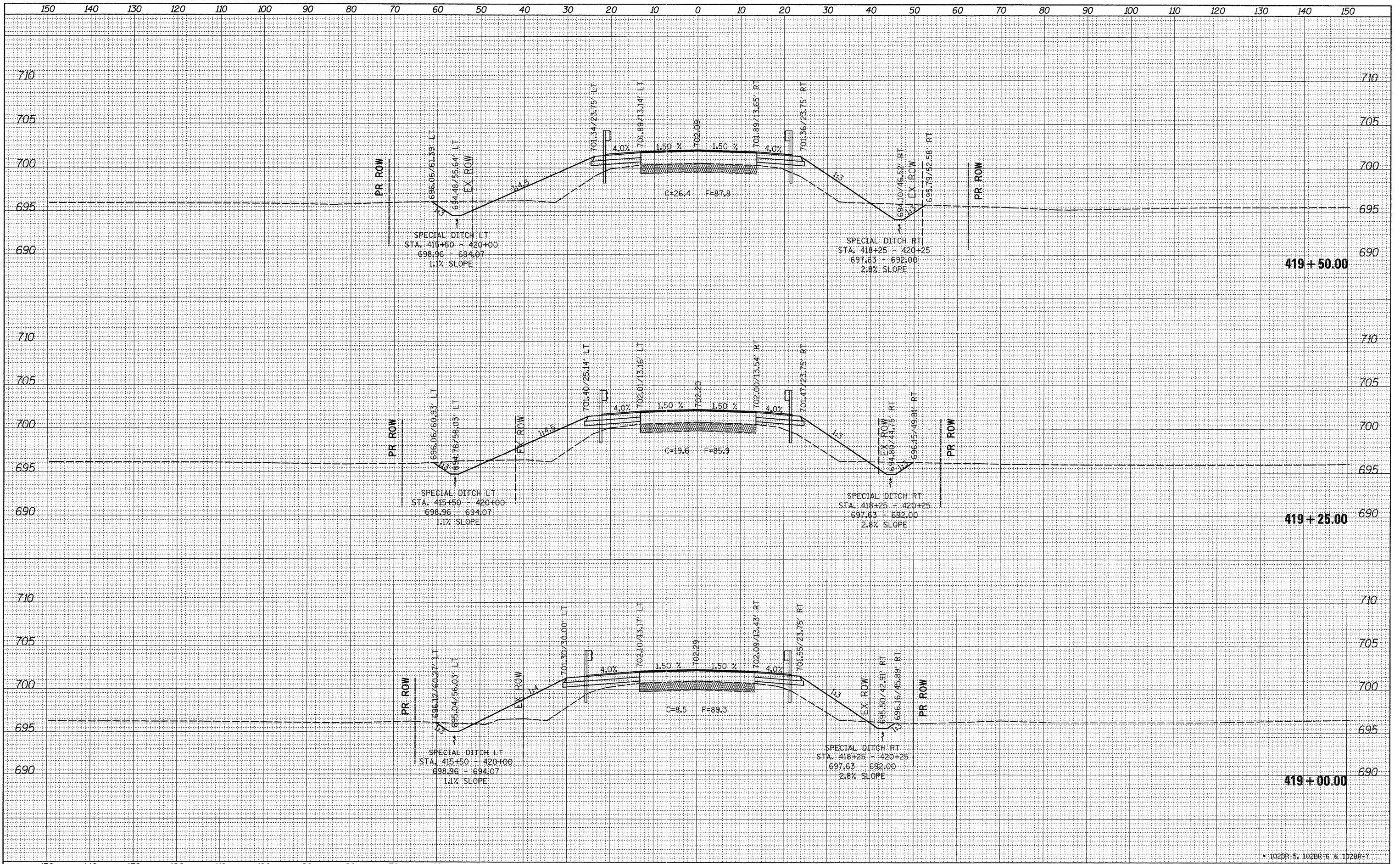
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>IL ROUTE 26 CROSS-SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
as:\pwork\pwork\grantpm\dms41812\0210007-vsc	ml.dgn	DRAWN -	REVISED -									316	*	LEE	216	205	
PLOT SCALE = 10.0000' / 1"	CHECKED -	REVISED -	SCALE:									SHEET NO.	OF SHEETS	STA. 418+25.00 TO STA. 418+75.00	CONTRACT NO. 64D57		
PLOT DATE = Tue Aug 23 06:15:59 2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT														

DATE	
BY	
FINAL SURVEY	SURVEY
NOTE BOOK NO.	NO.
PLATE	PLATE
AREAS CHECKED	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEY
NOTE BOOK NO.	NO.
PLATE	PLATE
AREAS CHECKED	AREAS CHECKED



\* 102BR-5, 102BR-6 & 102BR-7

FILE NAME =  
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USER NAME = grantpm  
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 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = Tue Aug 23 06:16:00 2011

DESIGNED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

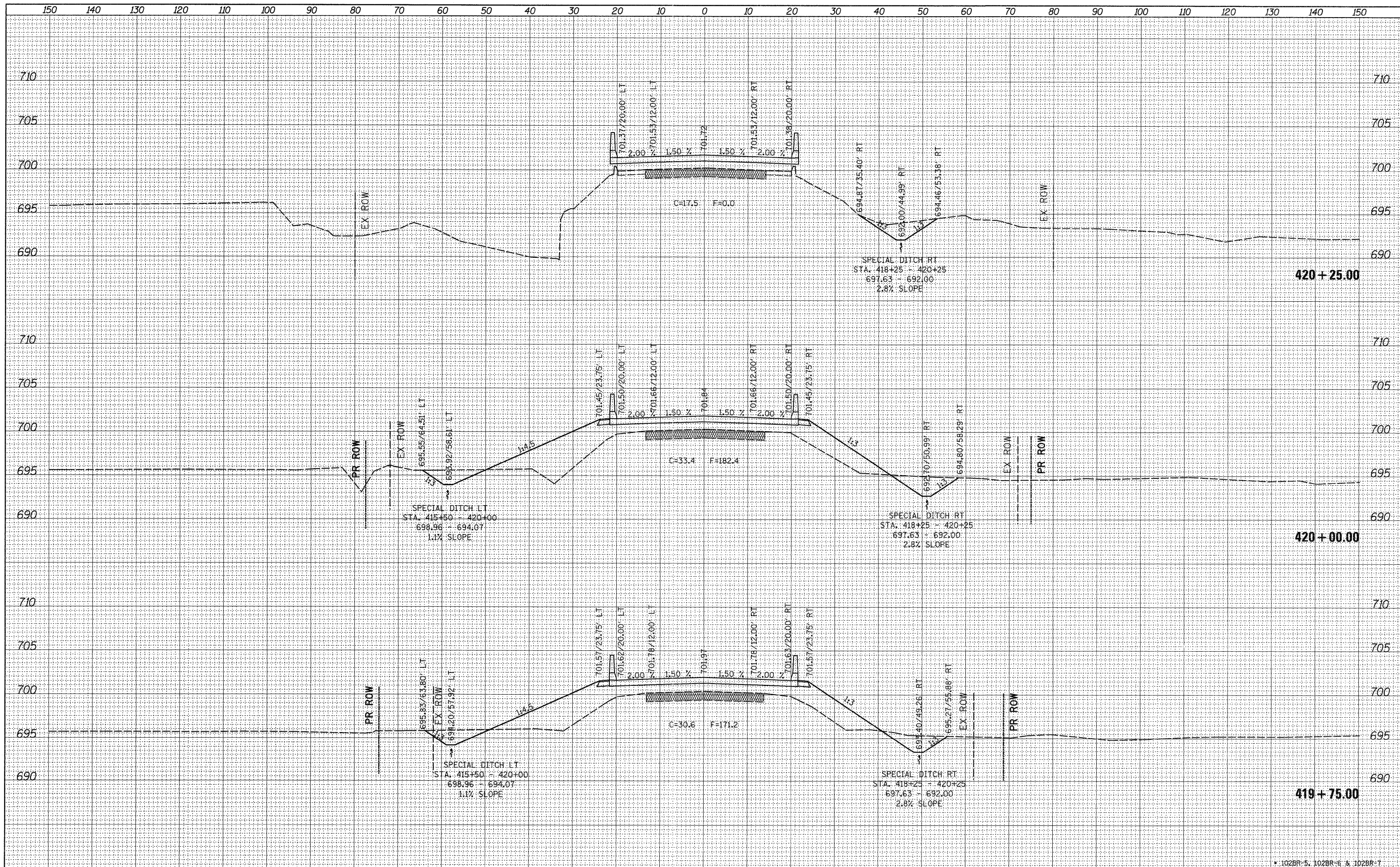
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 419+00.00 TO STA. 419+50.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 206
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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\* 102BR-5, 102BR-6 & 102BR-7

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USER NAME = grantpm  
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 DRAWN -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

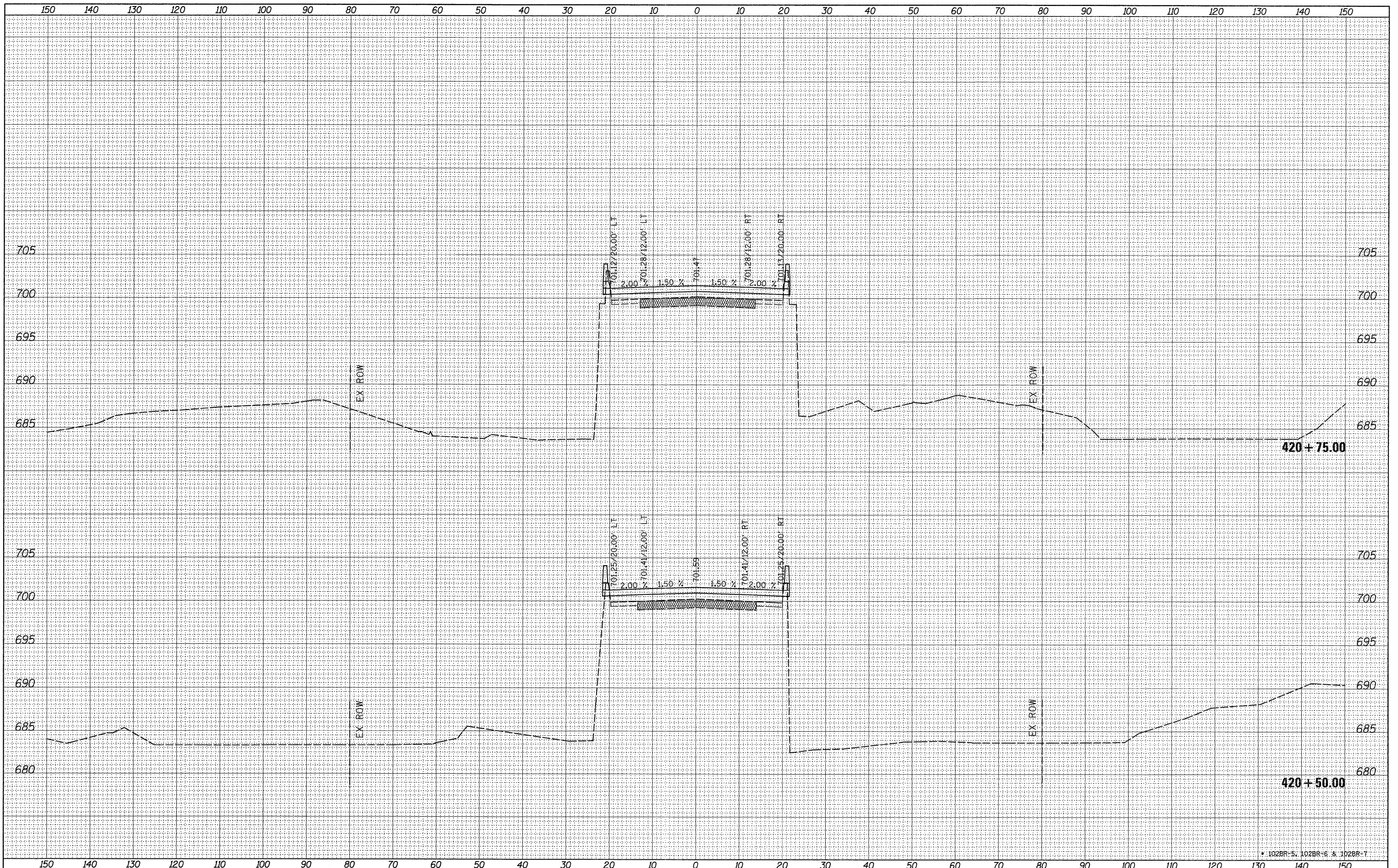
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 419+75.00 TO STA. 420+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 207
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
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 PLOT DATE = Tue Aug 23 06:16:02 2011

DESIGNED -  
 DRAWN -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

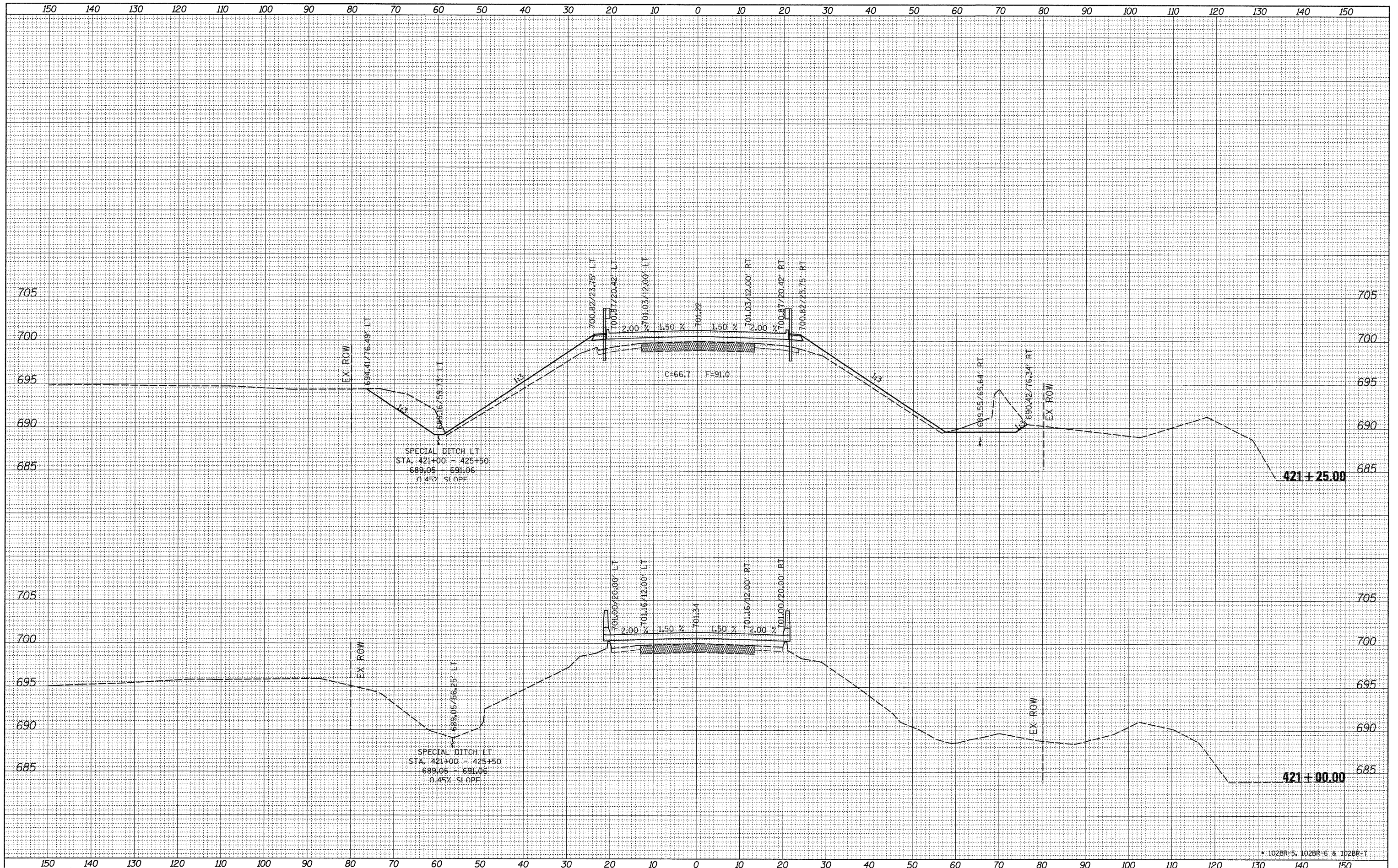
SCALE: SHEET NO. OF SHEETS STA. 420+50.00 TO STA. 420+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 208
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

\* 102BR-5, 102BR-6 & 102BR-7

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
AREAS CHECKED			
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 PLOT DATE = Tue Aug 23 06:16:03 2011

DESIGNED -  
 DRAWN -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

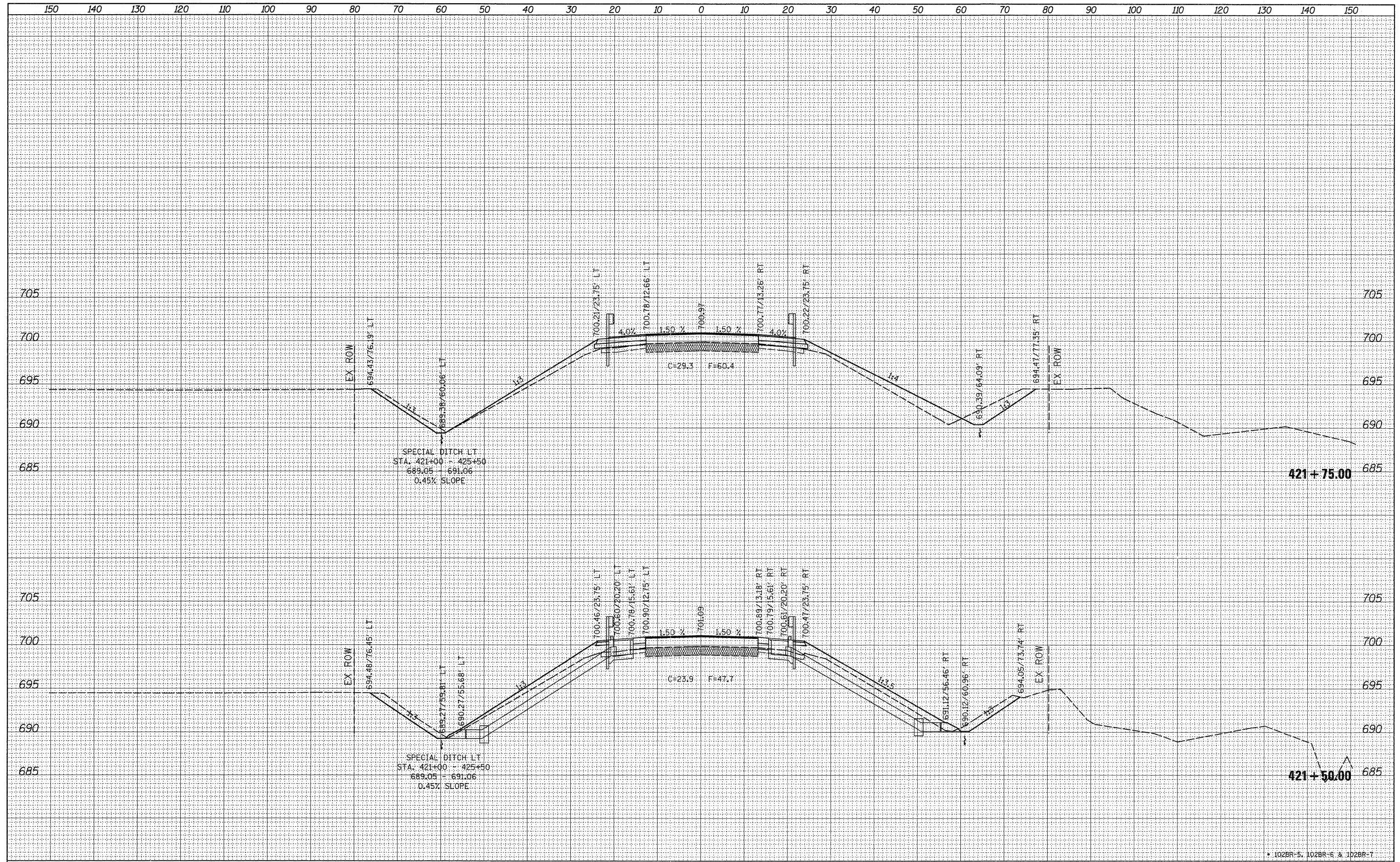
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 421+00.00 TO STA. 421+25.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 209
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	

DATE	
BY	
CHECKED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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DATE	
BY	
CHECKED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
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USER NAME = grantpm  
 DESIGNED -  
 DRAWN -  
 CHECKED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

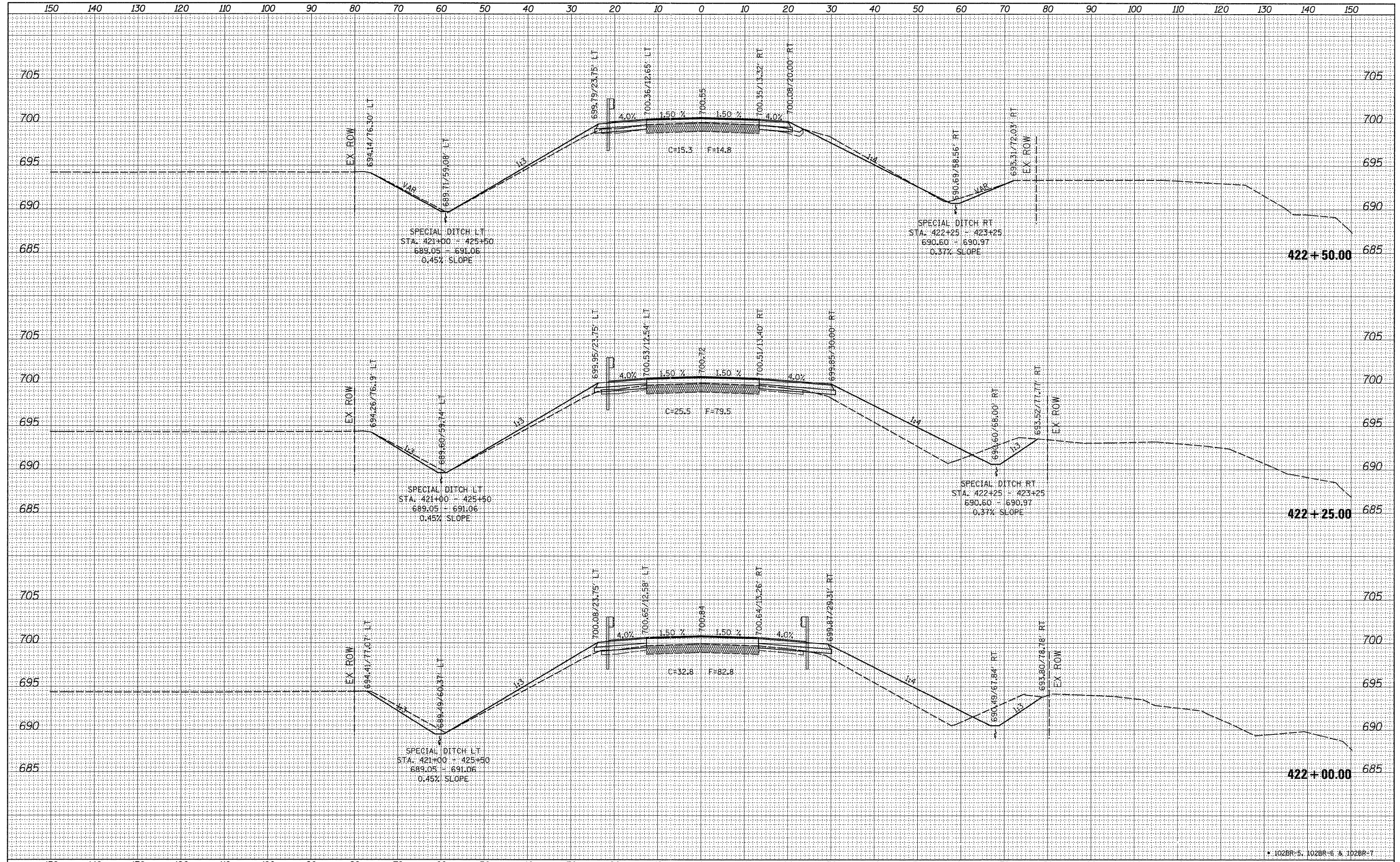
**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 421+50.00 TO STA. 421+75.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 210
CONTRACT NO. 64D57				
ILLINOIS FED. AID PROJECT				

DATE	
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DATE	
FILE NAME	
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DRAWN	
CHECKED	
DATE	

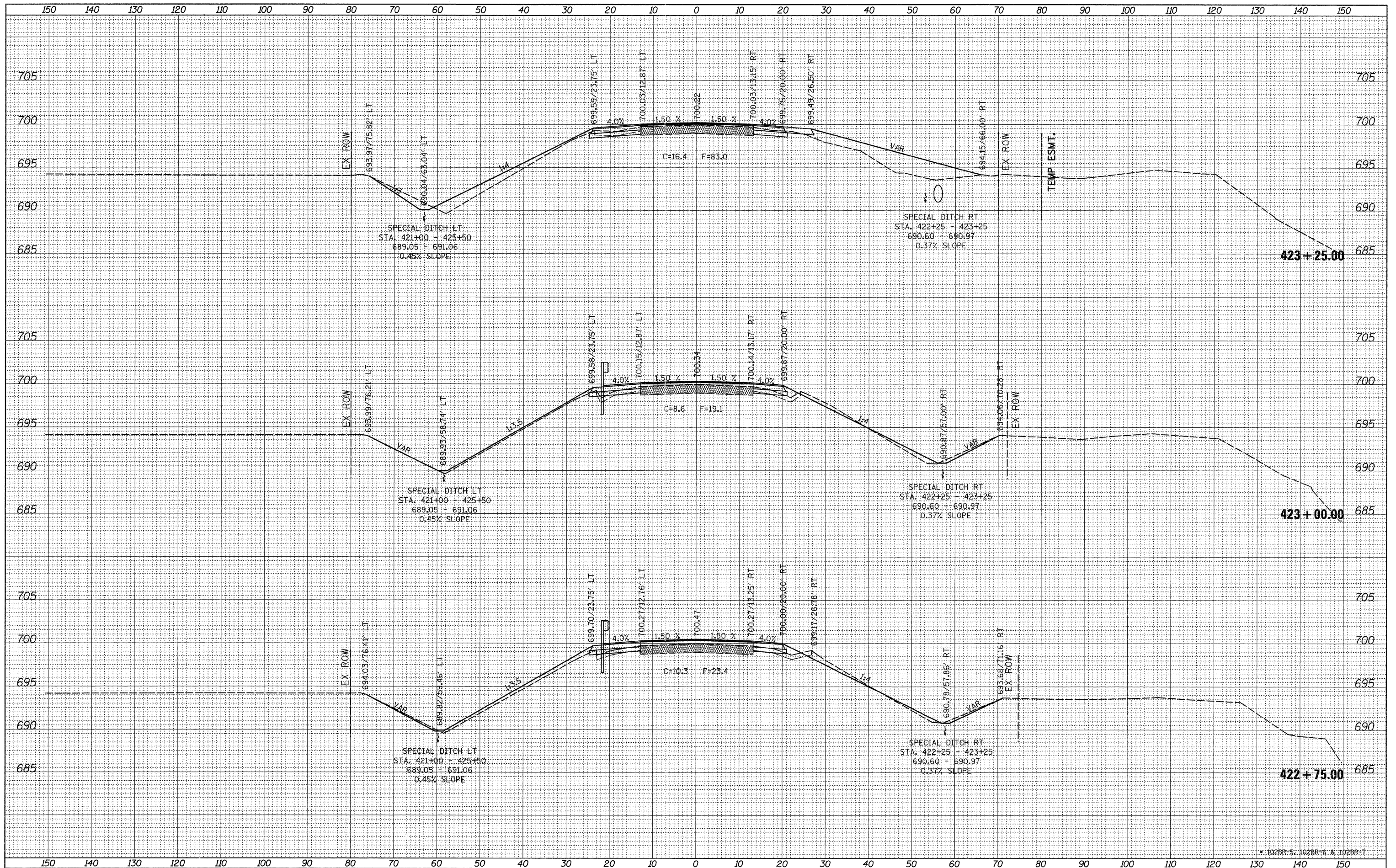
DATE	
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USER NAME	
DESIGNED	
DRAWN	
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DATE	



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26</b> <b>CROSS-SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwsdot\grantpm\dms41812\0218887-xsc.mxd		DRAWN -	REVISED -					316	*	LEE	216	211
PLOT SCALE = 1/8" = 1'		CHECKED -	REVISED -					CONTRACT NO. 64D57				
PLOT DATE = Tue Aug 23 06:16:05 2011		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
SCALE:				SHEET NO. OF SHEETS			STA. 422+00.00 TO STA. 422+50.00					

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



FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>IL ROUTE 26 CROSS-SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\grantpm\dms41812\0218807-xsc.mxd		DRAWN -	REVISED -					316	*	LEE	216	212
PLOT SCALE = 1/8" = 100'		CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 422+75.00 TO STA. 423+25.00				CONTRACT NO. 64D57				
PLOT DATE = Tue Aug 23 06:16:06 2011		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

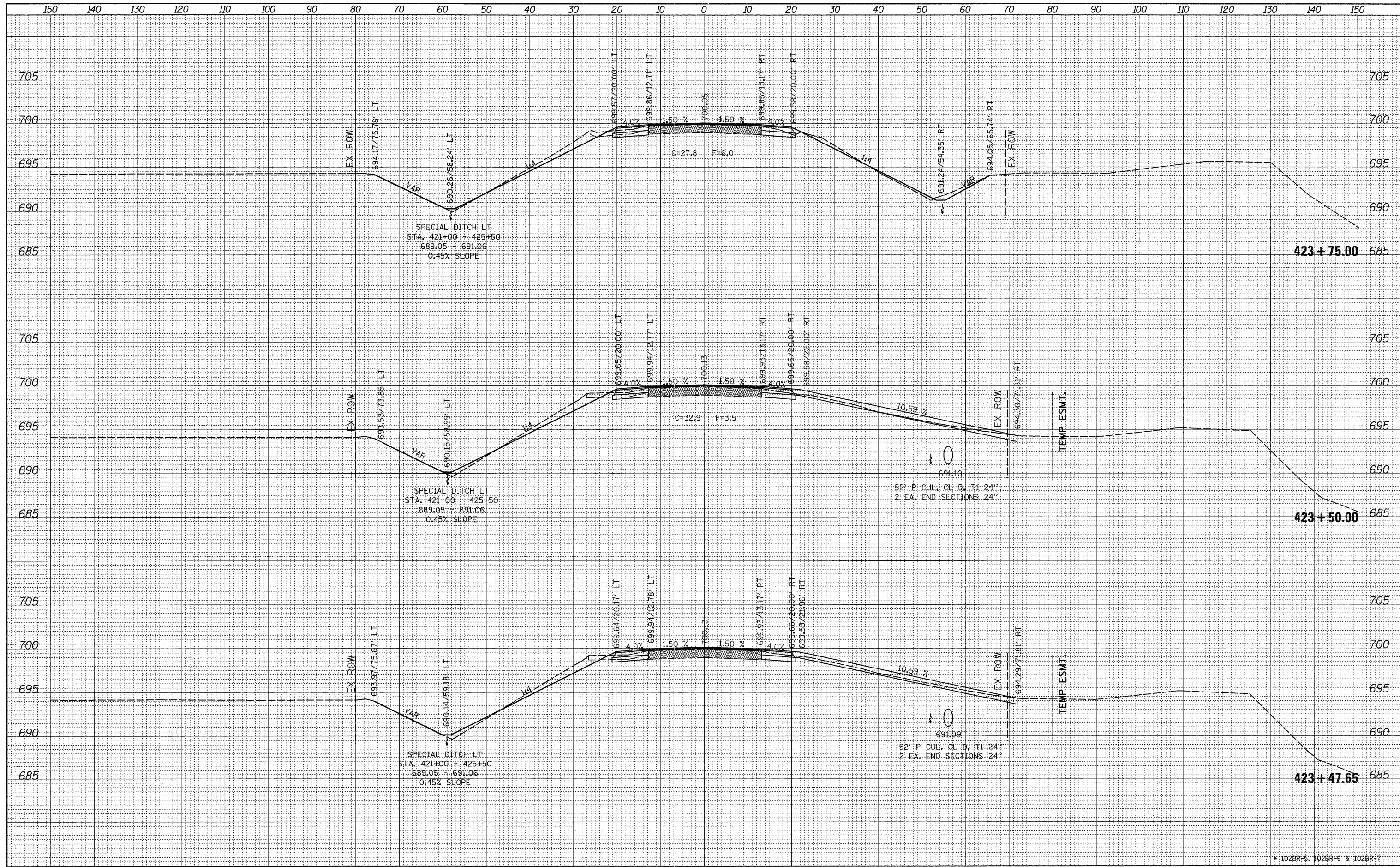
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

\* 102BR-5, 102BR-6 & 102BR-7



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

DATE	
BY	
ORIGINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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NO.	

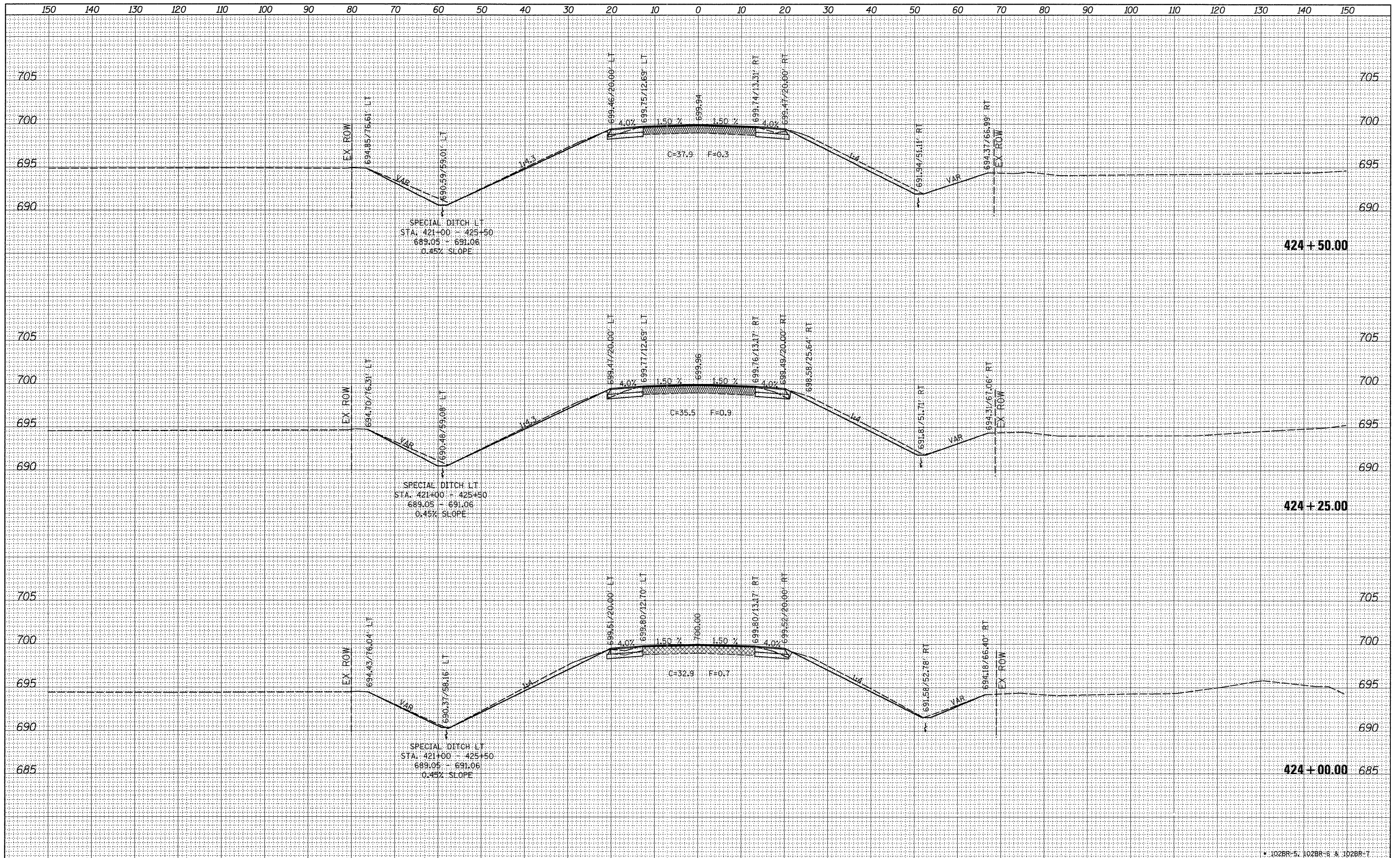


\* 102BR-5, 102BR-6 & 102BR-7

FILE NAME =	USER NAME = grantpm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>IL ROUTE 26 CROSS-SECTIONS</b>				F.A.P. RATE =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwork\pwork\grantpm\dms41812\021007-xsc	ml.dgn	DRAWN -	REVISED -									316	*	LEE	216	213	
		CHECKED -	REVISED -									SCALE: SHEET NO. OF SHEETS STA. 423+47.65 TO STA. 423+75.00				CONTRACT NO. 64D57	
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT					

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



\* 102BR-5, 102BR-6 & 102BR-7

FILE NAME =  
 c:\pwork\pwork\grantpm\dms41812\0210807-xac

USER NAME = grantpm  
 DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE - Tue Aug 23 06:16:08 2011

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

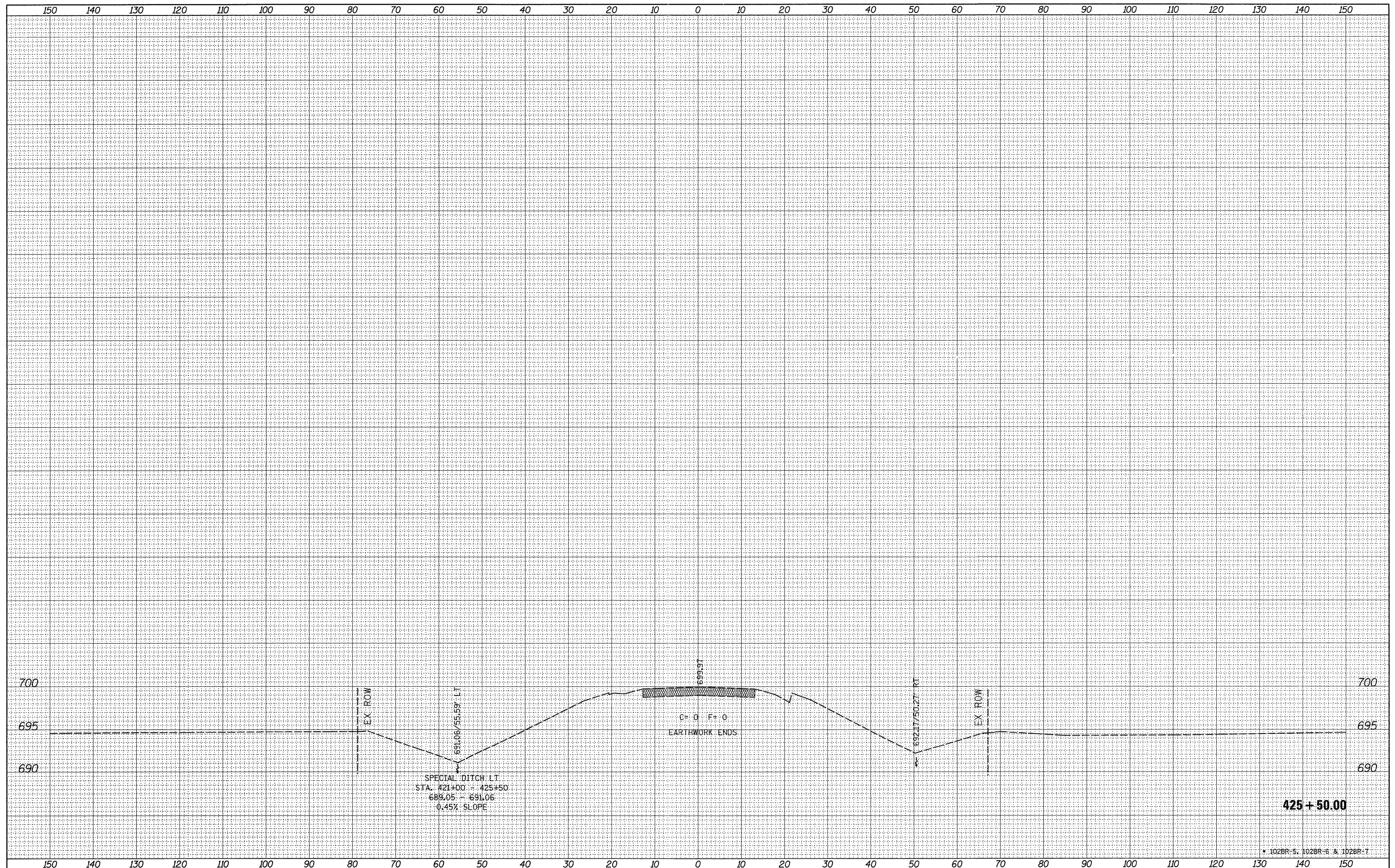
SCALE: SHEET NO. OF SHEETS STA. 424+00.00 TO STA. 424+50.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 214
CONTRACT NO. 64D57			ILLINOIS FED. AID PROJECT	



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

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



FILE NAME =  
 c:\pwwork\pwwork\grantpm\dms41812\0210007-xsec.mxd

USER NAME = grantpm  
 PLOT SCALE = 10.0000' / 1" =  
 PLOT DATE = Tue Aug 23 06:16:12 2011

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26  
 CROSS-SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 425+50.00 TO STA. 425+50.00

F.A.P. RTE. 316	SECTION *	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 216
			CONTRACT NO. 64D57	
ILLINOIS FED. AID PROJECT				