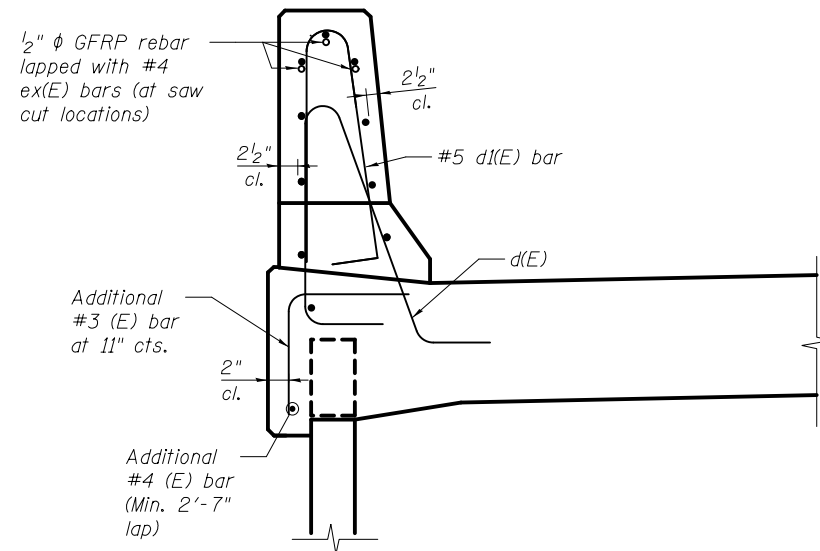


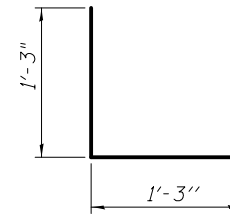
SECTION THRU PARAPET AND ANCHORAGE SLAB



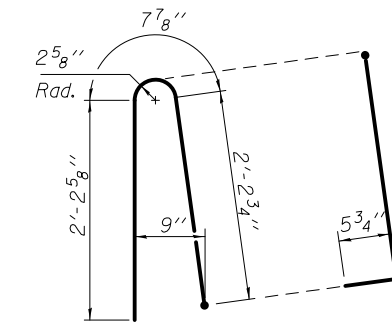
SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement)

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A equals 0.016 cu. yds./ft. Full thickness saw cut at all joint locations in lieu of cork joint filler.

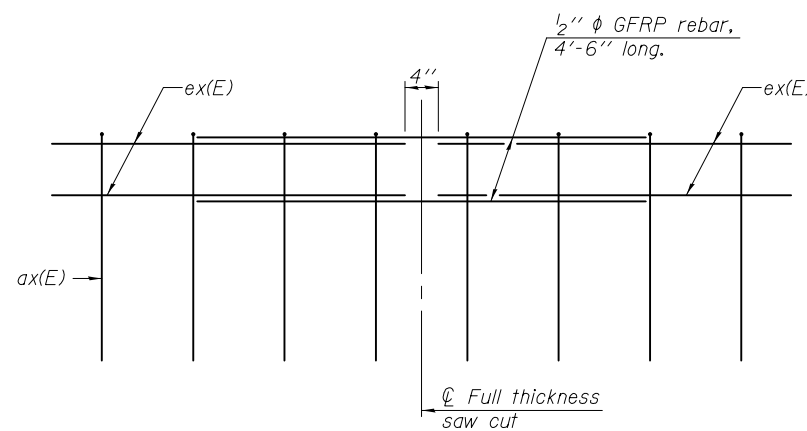


#3 (E) BAR



ALTERNATE BAR #5-d1(E)

(When conduit is present)



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

USER NAME =	DESIGNED - KMP	REVISED
	CHECKED - SLD	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE = 03/23/2017	CHECKED - SLD	REVISED

F.A.I. RTE. = 74	SECTION = (81-1)R-1	COUNTY = ROCK ISLAND	TOTAL SHEETS = 2042	SHEET NO. = 1401
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 2 of 2

Date 10/3/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY KB
SECTION I-74 Bridge over Mississippi River LOCATION (N=560989.55, E=2459888.561), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion (ft)	After (Hrs.)
		5				Clay With Trace Of Gravel (CL) gray, moist, very stiff, fine to medium grained, moderate plasticity, gravel size < 1" (continued)					
		7	3.5								
		9	P								
		-45									
		5				No gravel; trace of coarse sand					
		8	3.0								
		10	P								
	609.15	-50				End of Boring					
		-55									
		-60									

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
CH2M HILL

SOIL BORING LOG

Page 1 of 2

Date 10/2/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY KB
SECTION I-74 Bridge over Mississippi River LOCATION (N=560893.607, E=2459916.795), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion (ft)	After (Hrs.)
		2				Silt With Trace Of Sand (ML) yellowish brown, slightly moist, firm, fine to medium grained, low plasticity					
		3									
		3				stiff					
		2									
		3	2.1	15.0		firm RIMAC: Pu = 35lbs (shear)					
		-5									
		5				stiff					
		1									
		3	2.0								
		6	P								
		3				firm					
		3	2.0								
		3	2.0			stiff, low plasticity RIMAC: Pu = 80lbs (shear)					
		5	P								
		-10				firm					
		2									
		3	2.0	13.0							
		5	P								
		1				firm					
		3	2.0								
		5	P			stiff, no sand observed					
	644.82	3									
		4	4.2	12.0		Clay (CL) dark gray, moist, stiff, moderate plasticity, trace of coarse sand RIMAC: Pu = 70lbs (shear)					
		-15									
		6	S								
		3				stiff					
		5	2.0								
		9	P			very stiff, trace coarse sand					
		-20									

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
CH2M HILL

SOIL BORING LOG

Page 2 of 2

Date 10/2/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY KB
SECTION I-74 Bridge over Mississippi River LOCATION (N=560893.607, E=2459916.795), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion (ft)	After (Hrs.)
		5				Clay (CL) dark gray, moist, stiff, moderate plasticity, trace of coarse sand RIMAC: Pu = 70lbs (shear) (continued)					
		8	3.0			very stiff					
		10	P								
		-45									
		5				very stiff					
		7	3.0								
		10	P								
	608.82	-50				End of Boring					
		-55									
		-60									

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)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - MLA	REVISED
PLOT DATE = 03/23/2017	CHECKED - YSS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
I-74 (EB)/(WB) & RAMP 7TH-A RETAINING WALL 11
STRUCTURE NO. 081-6017

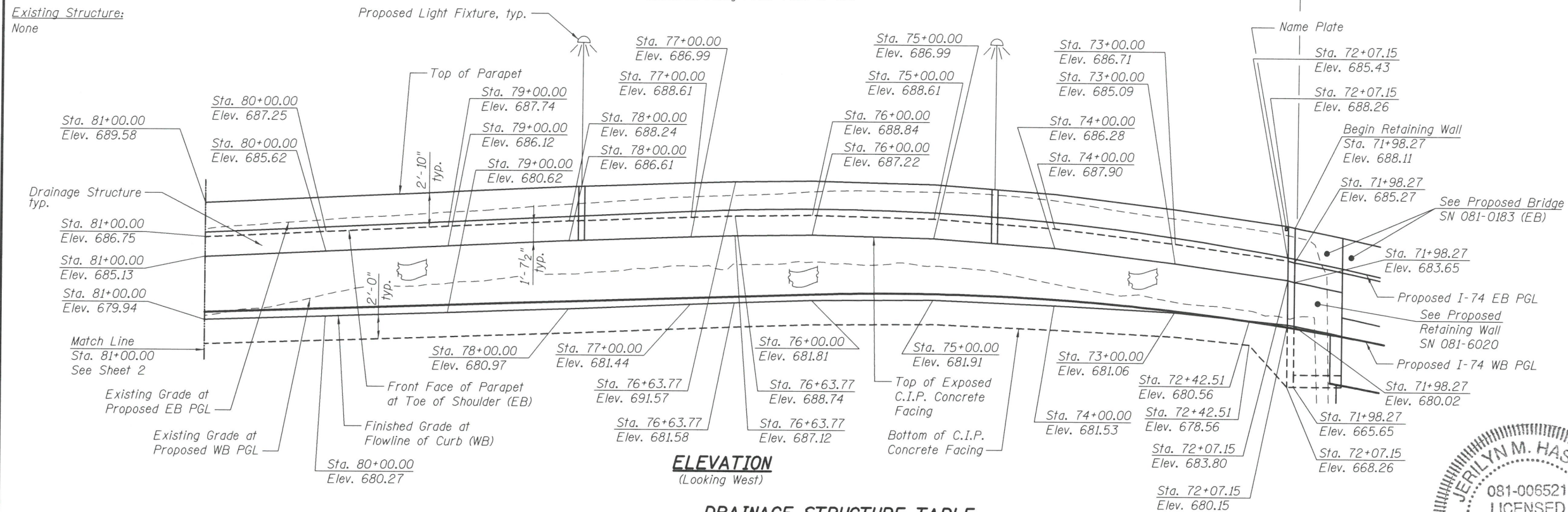
SHEET NO. 15 OF 18 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1403
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

Benchmark No. 587:
Chiseled "X" on West side of traffic signal
foundation in concrete island, I-74 Sta. 72+53.26.
Elevation NAVD 88 = 627.220

Existing Structure:
None

±1951'-3 1/2" (Stage 2 Construction)
Measured Along Front Face of Wall



ELEVATION
(Looking West)

DRAINAGE STRUCTURE TABLE

STRUCTURE	STATION	SIZE AND TYPE	INVERT
STR F12	72+57.61	4' MH, Type A	Inv. E. Elev. 675.00 Inv. W. Elev. 675.00
STR F12a	72+57.61	3' Inlet Type B	Inv. E. Elev. 675.10
STR G1	78+50.00	3' Inlet Type B	Inv. E. Elev. 675.88 Inv. W. Elev. 675.78
STR G1a	78+50.00	4' MH, Type A	Inv. E. Elev. 675.78 Inv. W. Elev. 675.78
STR G2	80+50.00	3' Inlet Type B	Inv. E. Elev. 675.17
STR G2a	80+50.00	4' MH, Type A	Inv. E. Elev. 675.07 Inv. W. Elev. 675.07

* See Parapet and Anchorage Slab sheets for portion of Anchorage Slab constructed during Stage 3.

Note:
French drain outlets connect to the 6" pipe underdrain in front of the wall at the above drainage structures. See Drainage and Utilities Plans for details and payment of 6" pipe underdrain.



JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006521
EXPIRES 11/30/2018

DESIGN SPECIFICATIONS

2012 AASHTO LRFD
Bridge Design Specifications,
6th Edition

DESIGN STRESSES

FIELD UNITS

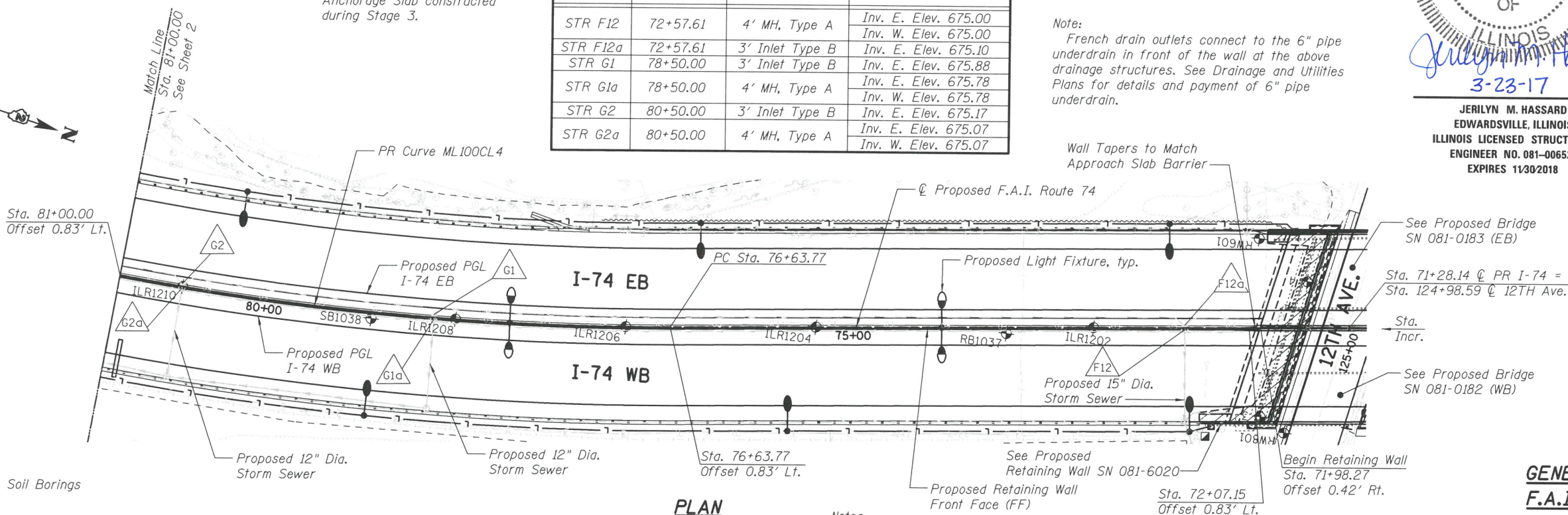
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel)

INDEX OF SHEETS

- 1 General Plan & Elevation - 1
- 2 General Plan & Elevation - 2
- 3 General Notes
- 4-5 Wall Sections and Details 1-2
- 6-7 Wall Elevation 1-2
- 8-26 Soldier Pile Wall Layout Plan 1-19
- 27-48 Parapet and Anchorage Slab 1-22
- 49 Miscellaneous Details
- 50-58 Boring Logs 1-9

CURVE DATA

PR Curve ML100CL4
PI STA = 79+46.18
 $\Delta = 14^\circ 00' 00''$ (RT)
 $D = 2^\circ 29' 28''$
 $R = 2,300.00'$
 $T = 282.40'$
 $L = 562.00'$
 $E = 17.27'$
 $e = 5.1\%$
 $T.R. = N/A$
 $S.E. RUN = 427.25'(I), 358.78'(O)$
 $PC STA = 76+63.77$
 $PT STA = 82+25.77$

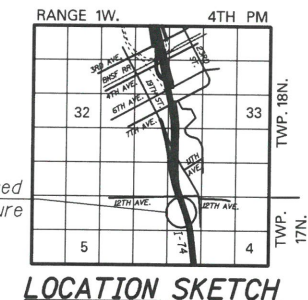


PLAN

LEGEND

- Soil Borings
- Drainage Structure
- C.I.P. Concrete Facing

Notes:
Existing utilities shown will be relocated to avoid any conflicts during construction (see Utility Plans).
See Drainage and Utilities Plans for inlet details and french drain outlet.
See Electrical Plans for lighting and conduit details.



LOCATION SKETCH

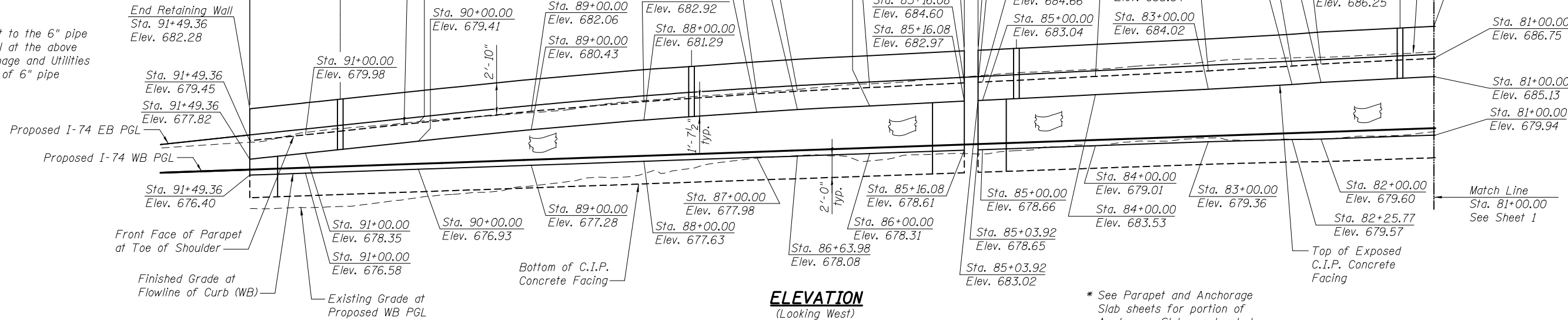
GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 74 SEC. (81-1)R-1
ROCK ISLAND COUNTY
I-74 Sta. 71+98.27 to Sta. 91+49.36
RETAINING WALL 12

	USER NAME =	DESIGNED - ZJB	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION I-74 (EB)/(WB) RETAINING WALL 12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - TER	REVISED			74	(81-1)R-1	ROCK ISLAND	2042	1407
	PLOT DATE = 03/23/2017	DRAWN - CMM	REVISED			CONTRACT NO. 64E26		ILLINOIS FED. AID PROJECT		
		CHECKED - JMH	REVISED			SHEET NO. 1 OF 58 SHEETS				

DRAINAGE STRUCTURE TABLE

STRUCTURE	STATION	SIZE AND TYPE	INVERT
STR G3A	82+85.00	4' MH, Type A	Inv. E. Elev. 674.11 Inv. W. Elev. 674.11
STR G3	82+85.00	4' MH, Type A	Inv. E. Elev. 674.01 Inv. W. Elev. 674.01
STR I1WB	85+25.00	4' MH, Type A	Inv. E. Elev. 672.00 Inv. W. Elev. 672.00
STR I1EB	85+25.00	Inlet Type B	Inv. E. Elev. 672.10
STR I2WB	87+75.00	4' MH, Type A	Inv. E. Elev. 672.20 Inv. W. Elev. 672.20
STR I2EB	87+75.00	Inlet Type B	Inv. E. Elev. 672.30
STR I3WB	90+25.00	4' MH, Type A	Inv. E. Elev. 671.30 Inv. W. Elev. 671.30
STR I3EB	90+25.00	Inlet Type B	Inv. E. Elev. 671.40

Note:
French drain outlets connect to the 6" pipe underdrain in front of the wall at the above drainage structures. See Drainage and Utilities Plans for details and payment of 6" pipe underdrain.



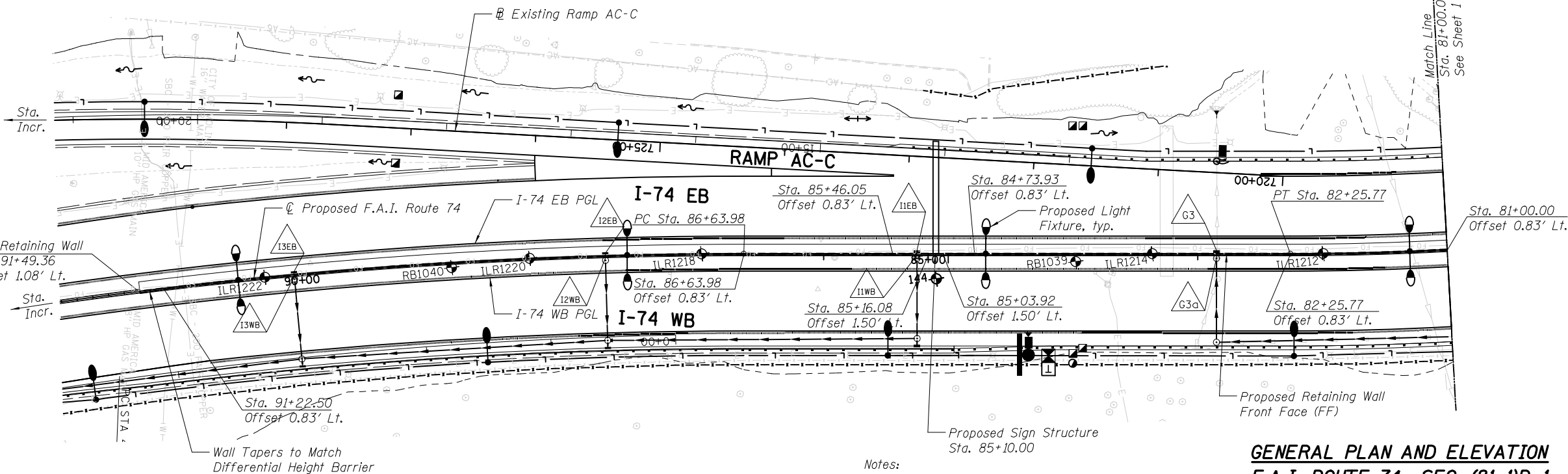
* See Parapet and Anchorage Slab sheets for portion of Anchorage Slab constructed during Stage 3.

CURVE DATA

PR Curve ML100CL5
PI STA = 94+70.39
Δ = 23° 17' 39" (LT)
D = 1° 27' 52"
R = 3,912.17'
T = 806.40'
L = 1,590.53'
E = 82.25'
e = 4.1%
T.R. = 76.42'
S.E. RUN = 229.27'
PC STA = 86+63.98
PCC STA = 102+54.51

LEGEND

- Soil Borings
- Drainage Structure
- C.I.P. Concrete Facing



PLAN

Notes:
Existing utilities shown will be relocated to avoid any conflicts during construction (see Utility Plans).
See Drainage and Utilities Plans for inlet details and french drain outlet.
See Electrical Plans for lighting and conduit details.
See Sign Structure Plans for Sign Structure details.

GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 74 SEC. (81-1R-1
ROCK ISLAND COUNTY
I-74 Sta. 71+98.27 to Sta. 91+49.36
RETAINING WALL 12



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - 2
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 2 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1408
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Wall stations and offsets are given to the front face (FF) of the wall and are measured from the proposed centerline of F.A.I. Route 74 except as noted.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
4. Fill placed within 5 feet of the back of the facing shall be granular material. Cost included with Drilling and Setting Soldier Piles (In Soil).
5. Special attention shall be paid to the subsurface and surface drainage conditions during Stage 2 and Stage 3 Construction. Water should be diverted away from areas where it may surcharge the wall drainage system.
6. Drainage structures shall be installed prior to retaining wall construction. The retaining wall is not designed or configured to support the drainage installation loading.
7. Slipforming of the parapet is not allowed.

TOTAL BILL OF MATERIAL

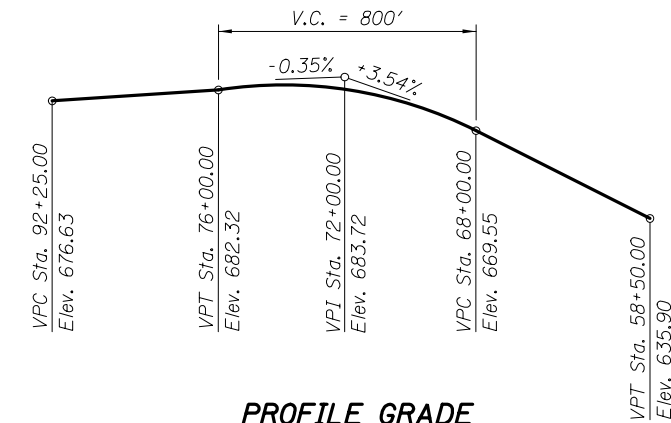
ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1,268
Concrete Structures	Cu. Yd.	501.5
Concrete Superstructure	Cu. Yd.	1031.7
Protective Coat	Sq. Yd.	2,116
Stud Shear Connectors	Each	3,028
Reinforcement Bars, Epoxy Coated	Pound	242,510
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	879
Furnishing Soldier Piles (HP Section)	Ft.	5,492
Furnishing Soldier Piles (W Section)	Ft.	248
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	18,471
Untreated Timber Lagging	Sq. Ft.	9,129
Pipe Underdrains for Structures 4"	Ft.	1,960

STATION 71+98.27
 BUILT 201_ BY
 STATE OF ILLINOIS
 F.A.I. RT. 74 SEC. (81-1)R-1
 LOADING HL-93

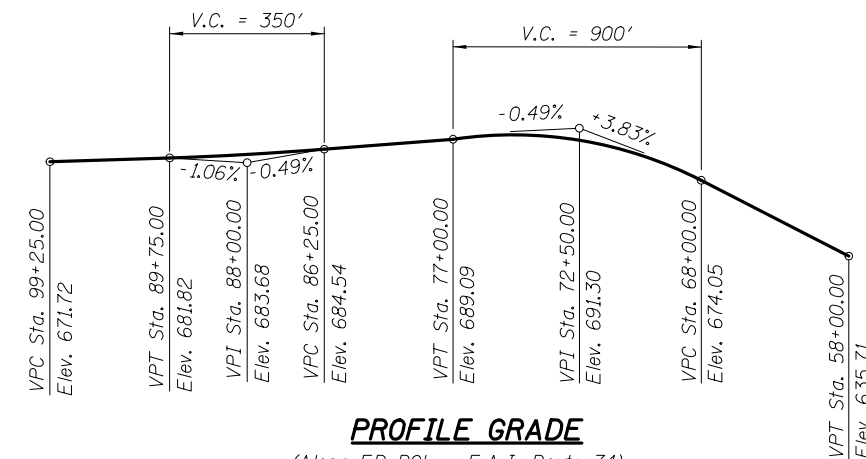
NAME PLATE
 See Std. 515001

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Install drainage structures prior to retaining wall construction. (See Drainage and Utilities Plans.)
2. Complete Structure Excavation to the top of Soldier Piles.
3. Drill shaft excavations for Soldier Piles to specified bottom elevations maintaining required tolerances and hole stability.
4. Remove loose material and excess water from excavated shafts. Place Soldier Piles in holes and properly locate and brace.
5. Place Class DS Concrete in the holes to the level of the base of the proposed Concrete Facing, then place Controlled Low Strength Material (C.L.S.M.) to the existing ground surface.
6. After all concrete has attained the required design strength, excavate the soil in front of the wall to proposed grade with simultaneous removal of C.L.S.M. at the face of the Soldier Piles and place lagging as specified.
7. Place and compact any required fill behind the wall. Hand operated equipment such as a jumping jack or plate compactor shall be used to compact the fill within 5 feet of the back of the wall.
8. Construct wall drainage features at the base of the wall.
9. Place shear studs on Soldier Piles and construct Concrete Facing.
10. Complete final grading and pavement at the base and top of the wall.



PROFILE GRADE
 (Along WB PGL - F.A.I. Route 74)



PROFILE GRADE
 (Along EB PGL - F.A.I. Route 74)



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

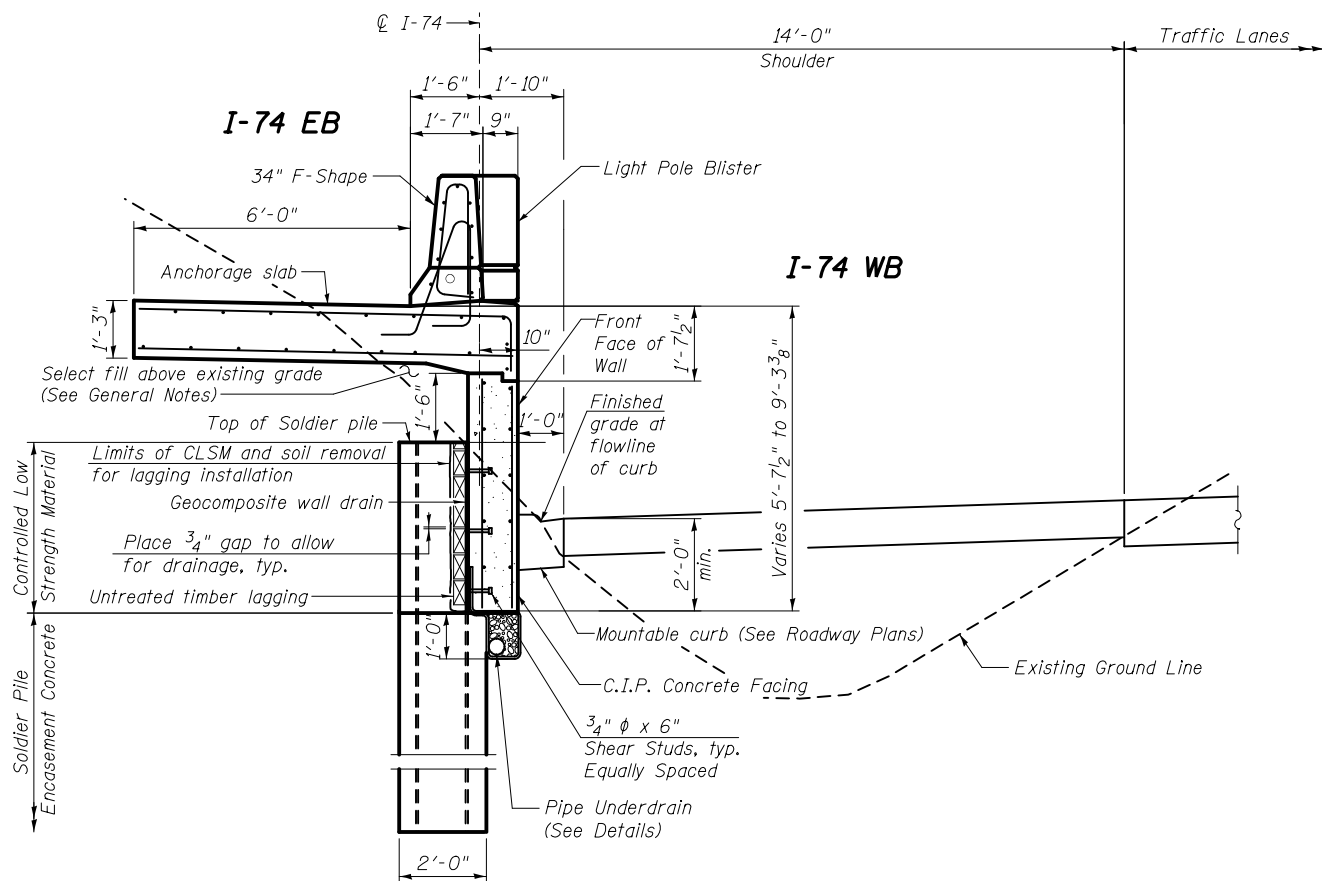
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
I-74 (EB)/(WB) RETAINING WALL 12

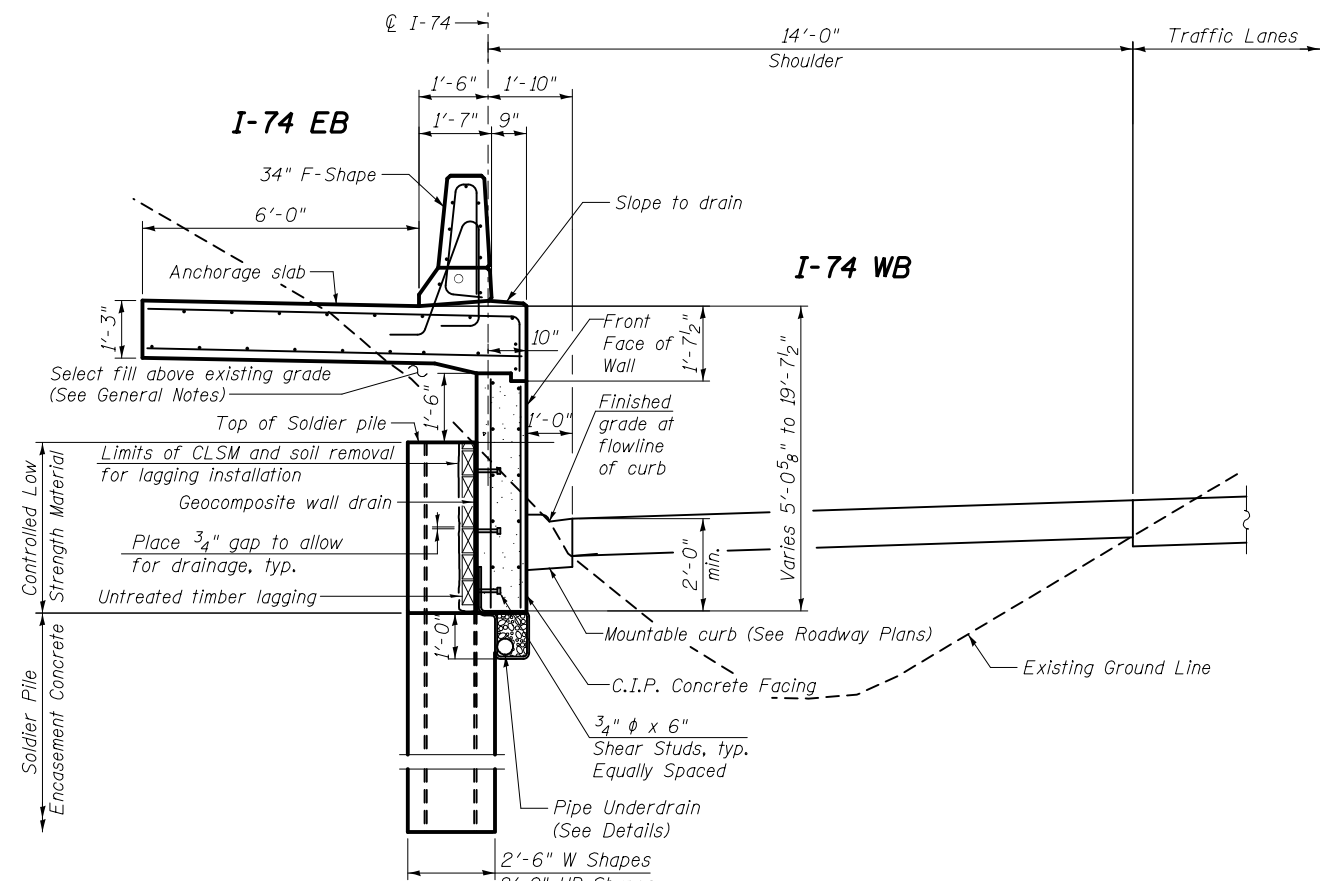
SHEET NO. 3 OF 58 SHEETS

F.A.I. RTE. = 74	SECTION = (81-1)R-1	COUNTY = ROCK ISLAND	TOTAL SHEETS = 2042	SHEET NO. = 1409
			CONTRACT NO. 64E26	

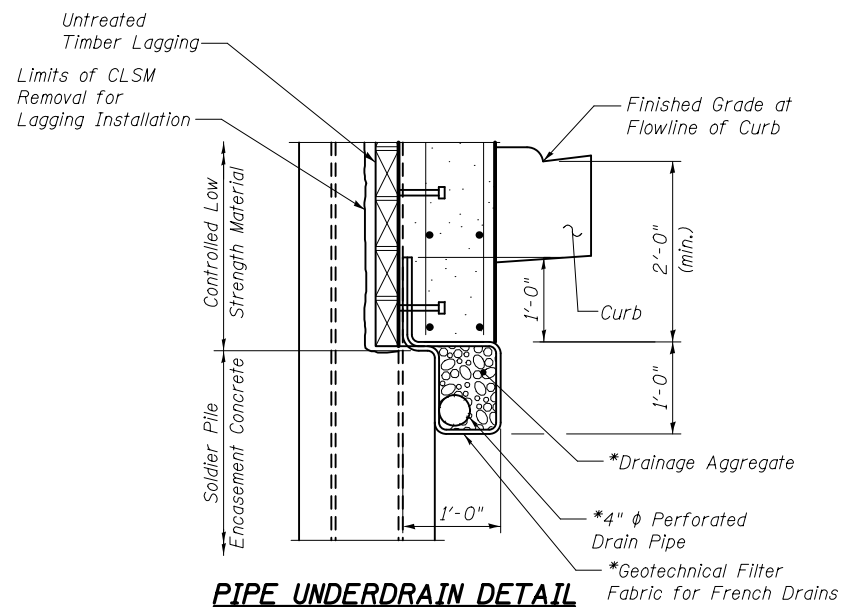
ILLINOIS FED. AID PROJECT



TYPICAL WALL SECTION AT LIGHT POLE
(Looking North)
(Barrier tapered for light pole blister.)

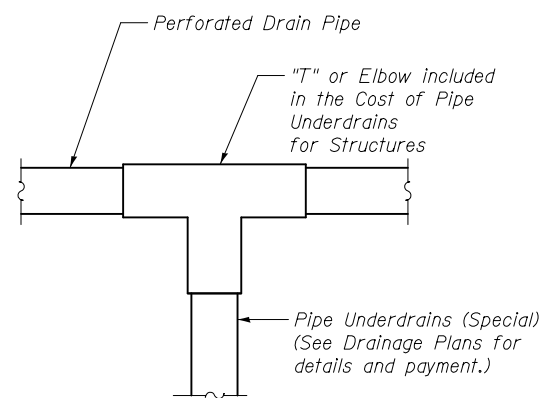


TYPICAL WALL SECTION
(Looking North)



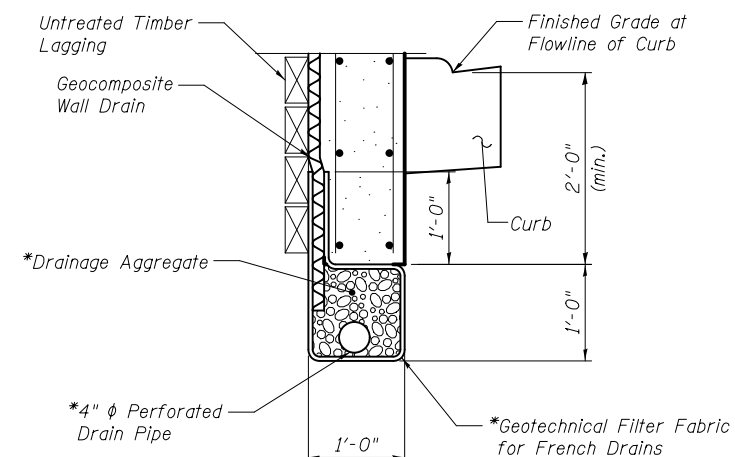
PIPE UNDERDRAIN DETAIL AT SOLDIER PILES

*Included in the cost of Pipe Underdrains for Structures



FRENCH DRAIN OUTLET

(See Sheets 1 and 2 for locations.)



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

*Included in the cost of Pipe Underdrains for Structures

Note:
Cost of Controlled Low Strength Material included in Drilling and Setting Soldier Piles (In Soil).



USER NAME =	DESIGNED - ZJB	REVISED
PLOT SCALE =	CHECKED - TER	REVISED
PLOT DATE = 03/23/2017	DRAWN - CMM	REVISED
	CHECKED - JMH	REVISED

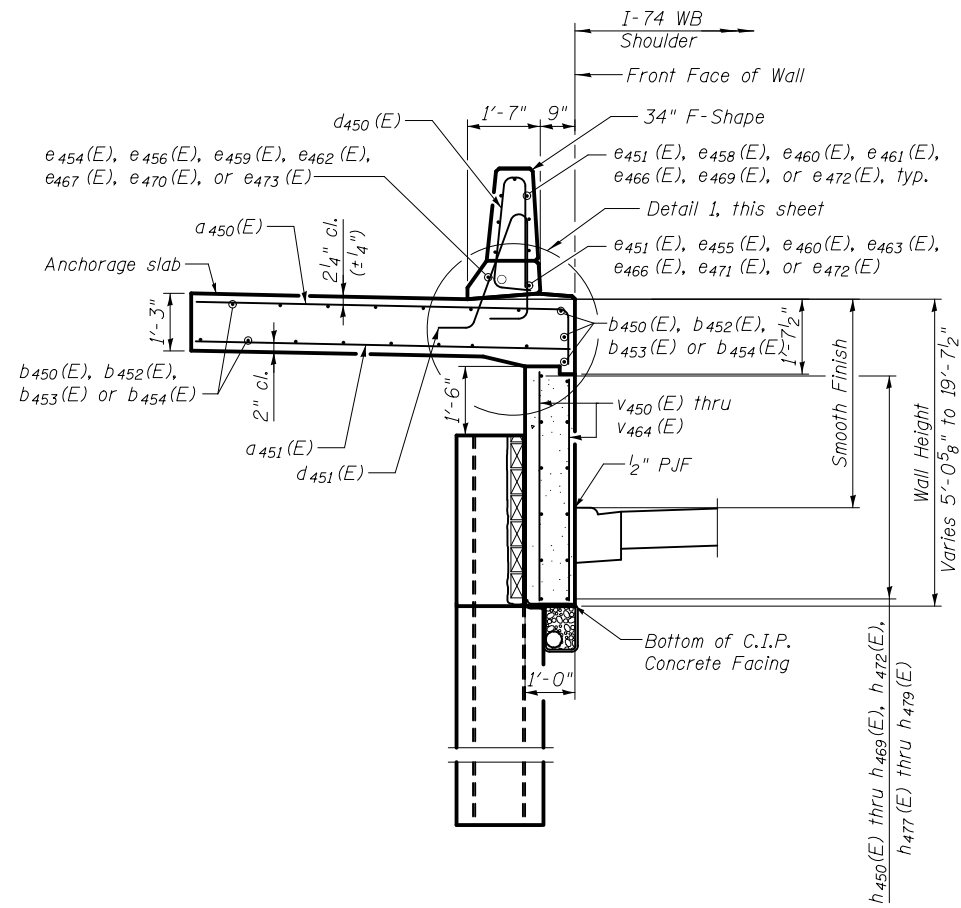
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS - 1
I-74 (EB)/(WB) RETAINING WALL 12

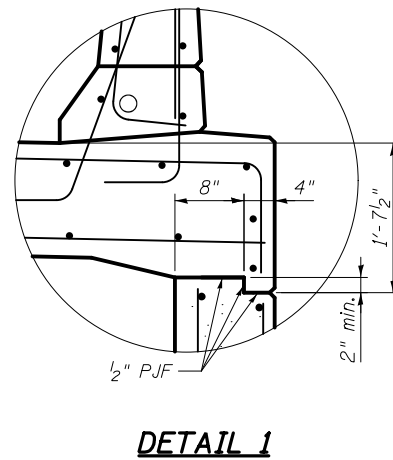
SHEET NO. 4 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1410
CONTRACT NO. 64E26				

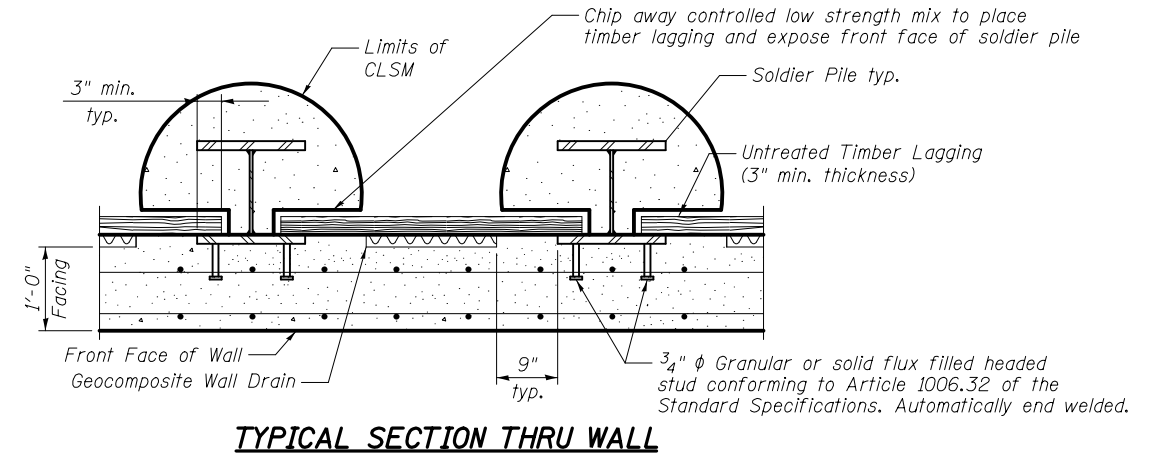
ILLINOIS FED. AID PROJECT



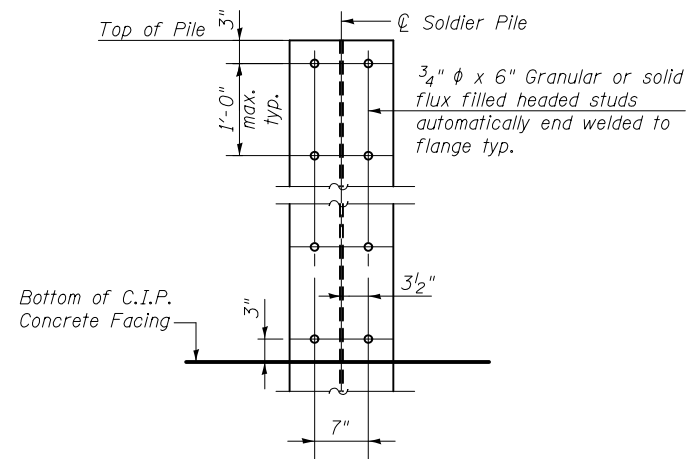
SECTION THRU PARAPET, ANCHORAGE SLAB AND CONCRETE FACING



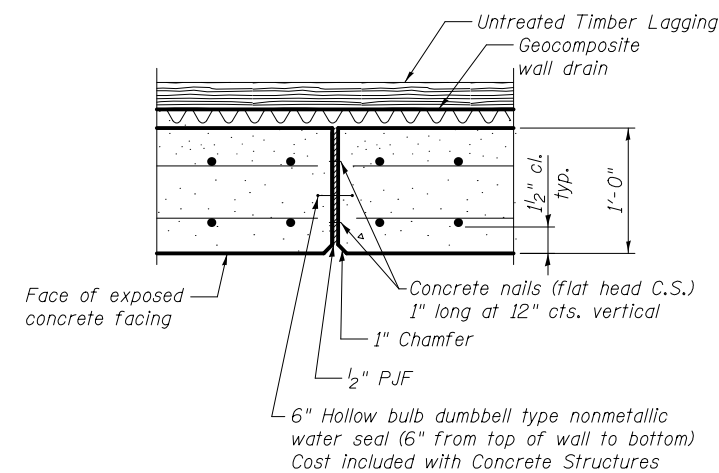
DETAIL 1



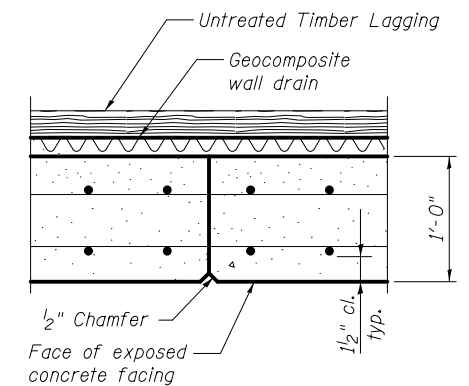
TYPICAL SECTION THRU WALL



SHEAR STUD CONNECTORS LAYOUT



EXPANSION JOINT



CONSTRUCTION JOINT

Note:
Cost of Controlled Low Strength Material included in Drilling and Setting Soldier Piles (In Soil).



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

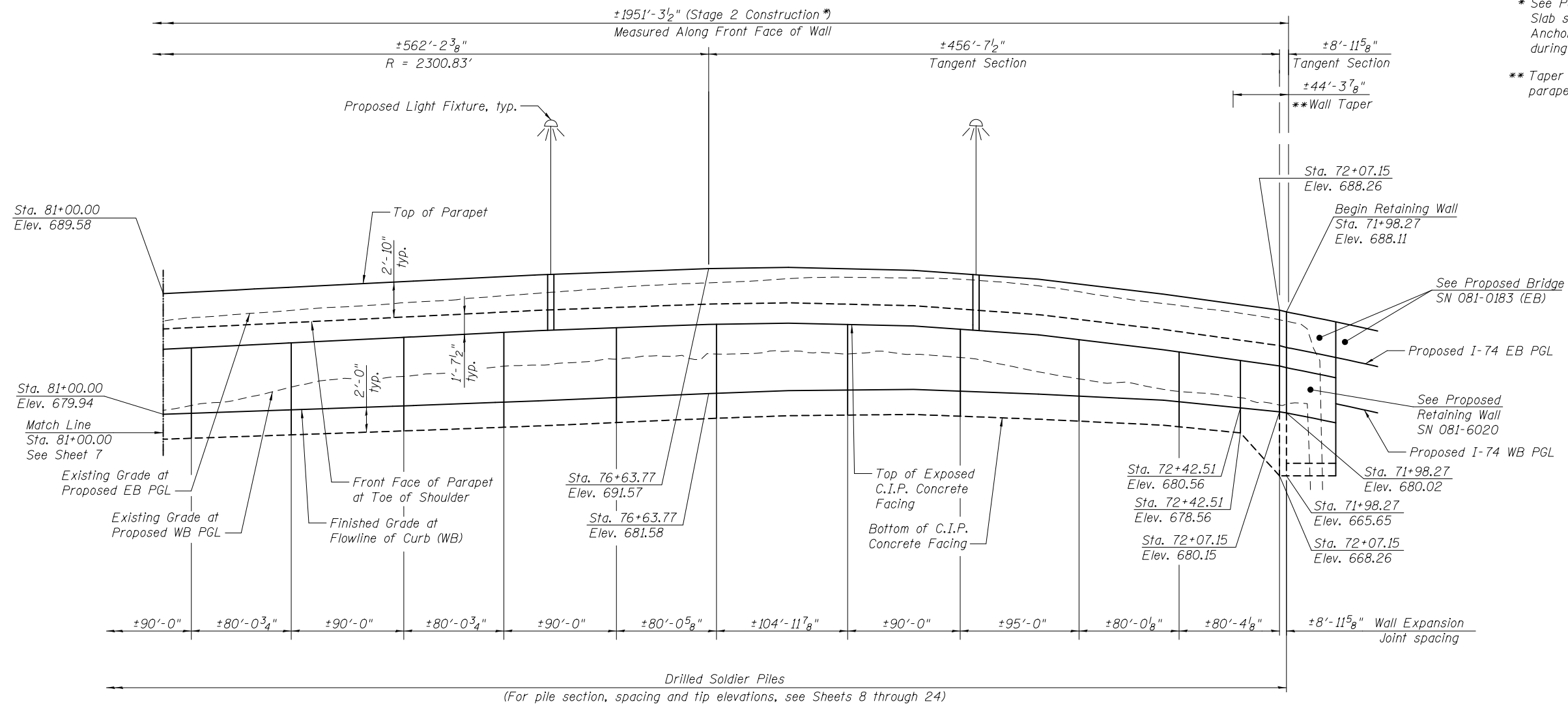
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS - 2
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 5 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1411
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



* See Parapet and Anchorage Slab sheets for portion of Anchorage Slab constructed during Stage 3.
 ** Taper retaining wall to match parapet along I-74 WB

ELEVATION

Soldier pile retaining wall expansion joint spacing shown. Parapet joint spacing not shown for clarity.

Notes:
 See Drainage and Utilities Plans for inlet details.
 See Electrical Plans for lighting and conduit details.
 For wall construction joint spacing, see Sheets 8-24.



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALL ELEVATION - 1
 I-74 (EB)/(WB) RETAINING WALL 12

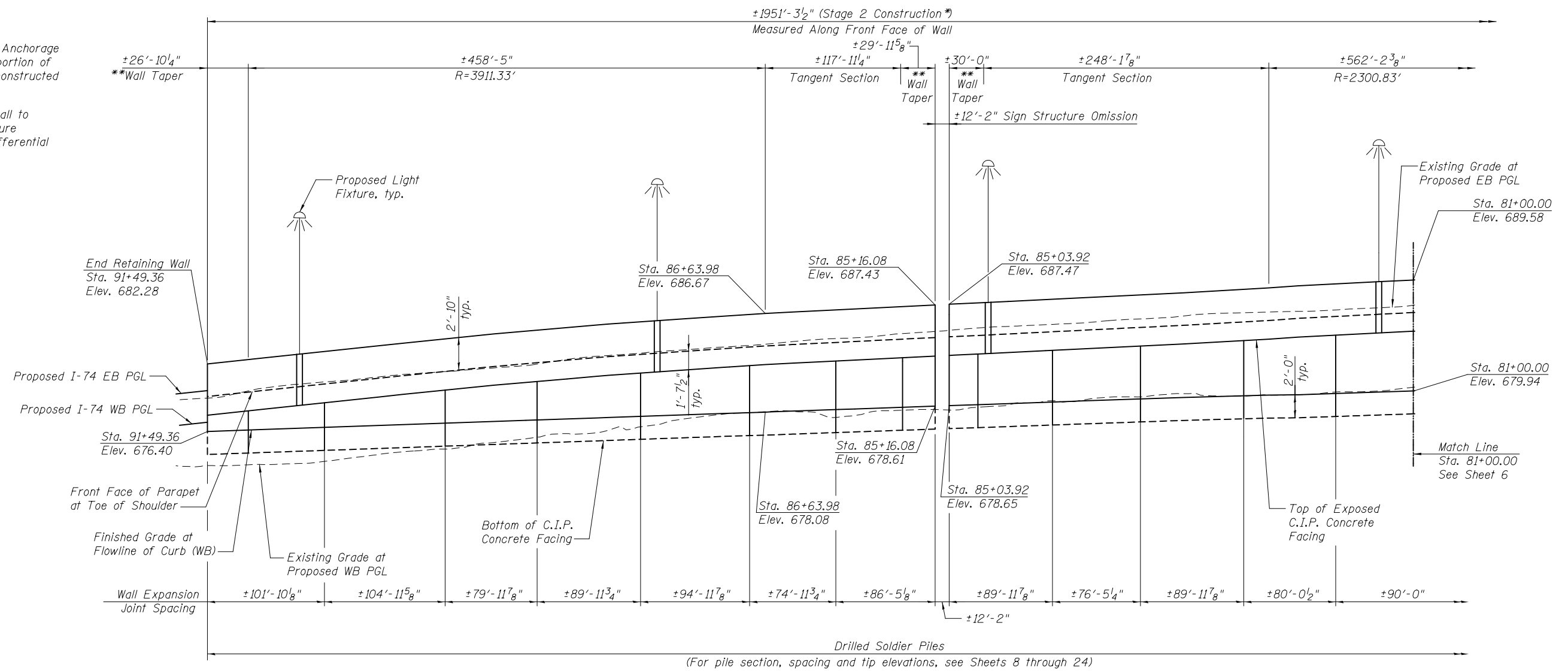
SHEET NO. 6 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1412
CONTRACT NO. 64E26				

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* See Parapet and Anchorage Slab sheets for portion of Anchorage Slab constructed during Stage 3.

** Taper retaining wall to match sign structure foundation and differential height barrier



ELEVATION

Soldier pile retaining wall expansion joint spacing shown. Parapet joint spacing not shown for clarity.

Notes:
 See Drainage and Utilities Plans for inlet details.
 See Electrical Plans for lighting and conduit details.
 See Sign Structure Plans for sign structure details.
 For wall construction joint spacing, see Sheets 8-24.



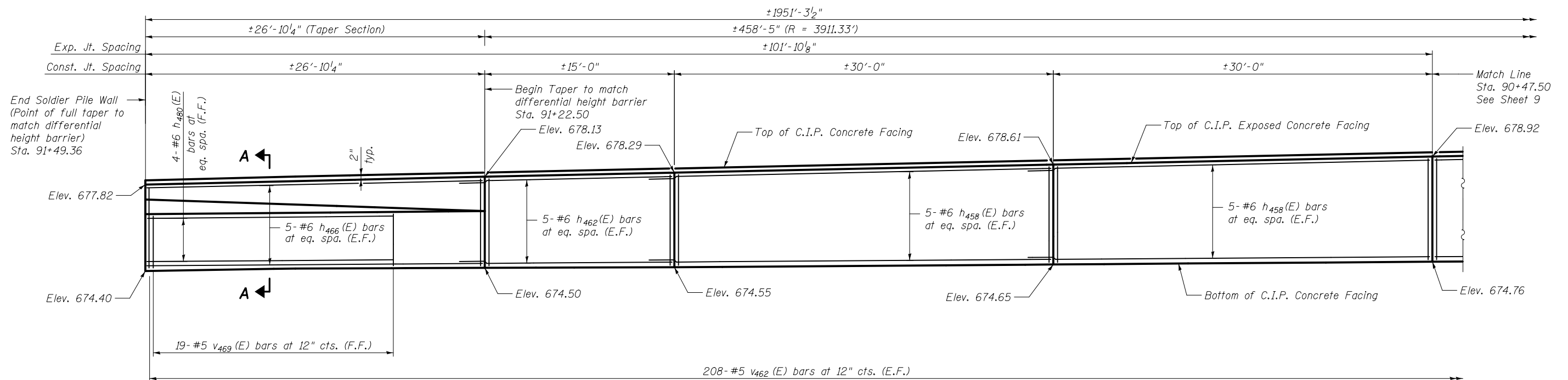
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	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

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WALL ELEVATION - 2
 I-74 (EB)/(WB) RETAINING WALL 12

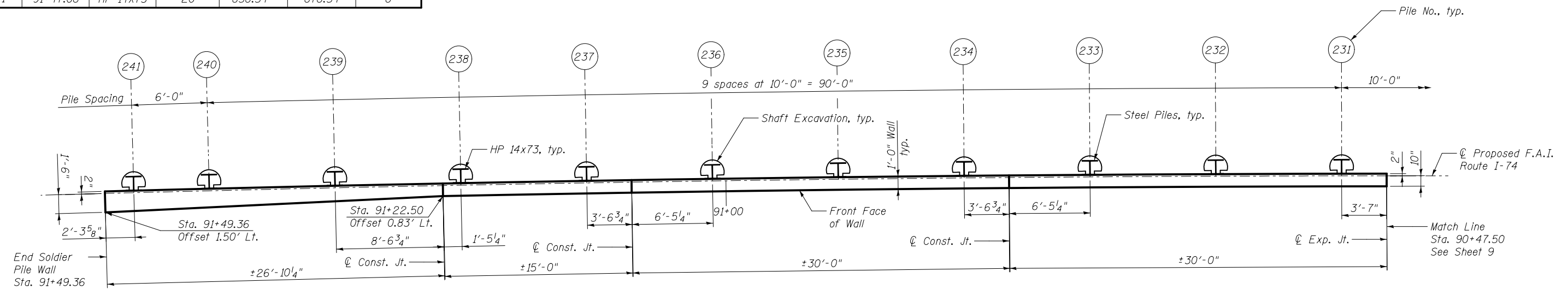
SHEET NO. 7 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1413
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
231	90+51.07	HP 14X73	20	657.55	677.55	8
232	90+61.07	HP 14X73	20	657.45	677.45	8
233	90+71.07	HP 14X73	20	657.34	677.34	8
234	90+81.07	HP 14X73	20	657.23	677.23	8
235	90+91.07	HP 14X73	20	657.13	677.13	8
236	91+01.06	HP 14X73	20	657.02	677.02	6
237	91+11.06	HP 14X73	20	656.92	676.92	6
238	91+21.06	HP 14X73	20	656.81	676.81	6
239	91+31.06	HP 14X73	20	656.70	676.70	6
240	91+41.06	HP 14X73	20	656.60	676.60	6
241	91+47.06	HP 14X73	20	656.54	676.54	6



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 For Section A-A, see Sheet 25.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



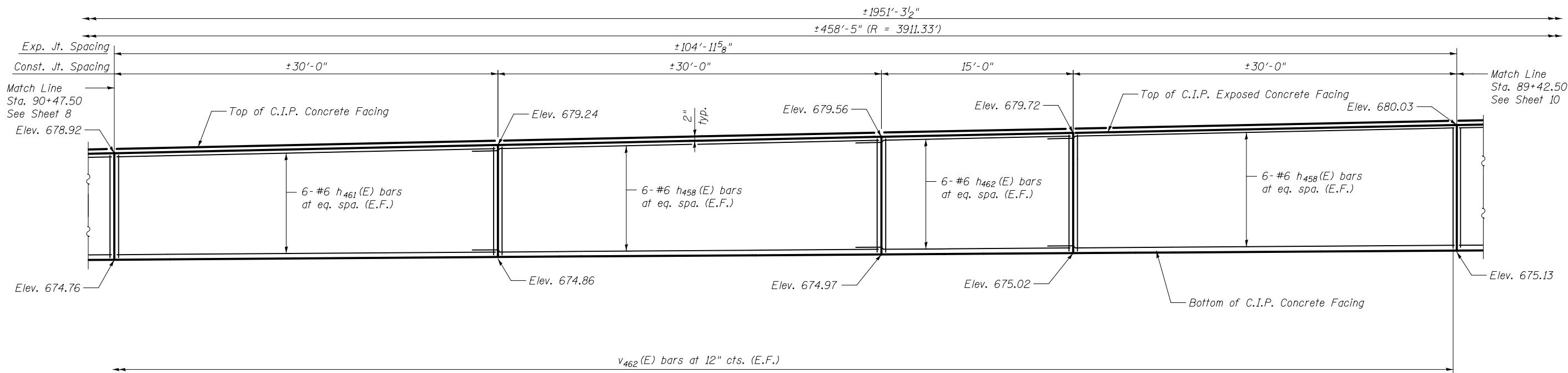
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SOLDIER PILE WALL LAYOUT PLAN 1
 I-74 (EB)/(WB) RETAINING WALL 12

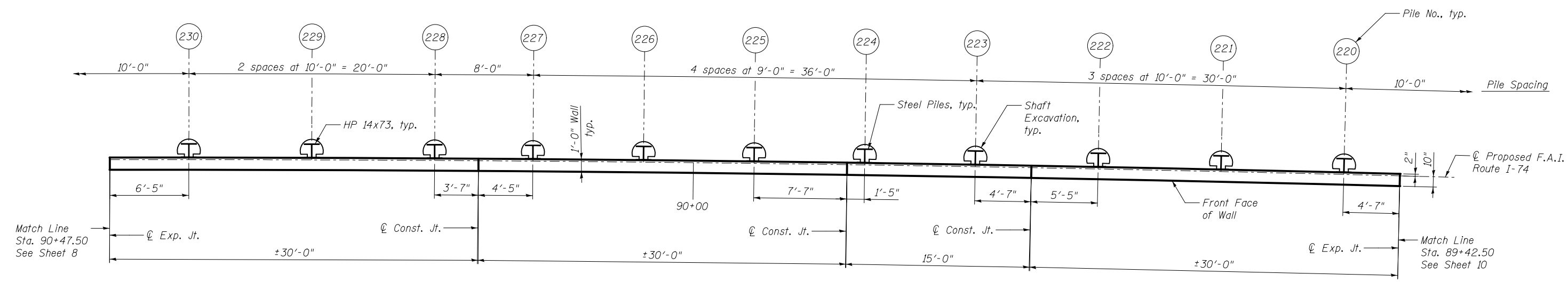
SHEET NO. 8 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1414
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
220	89+47.07	HP 14x73	21	657.65	678.65	10
221	89+57.07	HP 14x73	21	657.54	678.54	8
222	89+67.07	HP 14x73	21	657.44	678.44	8
223	89+77.07	HP 14x73	21	657.34	678.34	8
224	89+86.07	HP 14x73	21	657.24	678.24	8
225	89+95.07	HP 14x73	21	657.15	678.15	8
226	90+04.07	HP 14x73	21	657.05	678.05	8
227	90+13.07	HP 14x73	21	656.96	677.96	8
228	90+21.07	HP 14x73	21	656.87	677.87	8
229	90+31.07	HP 14x73	20	657.76	677.76	8
230	90+41.07	HP 14x73	20	657.66	677.66	8



PARTIAL PLAN - SOLDIER PILE WALL

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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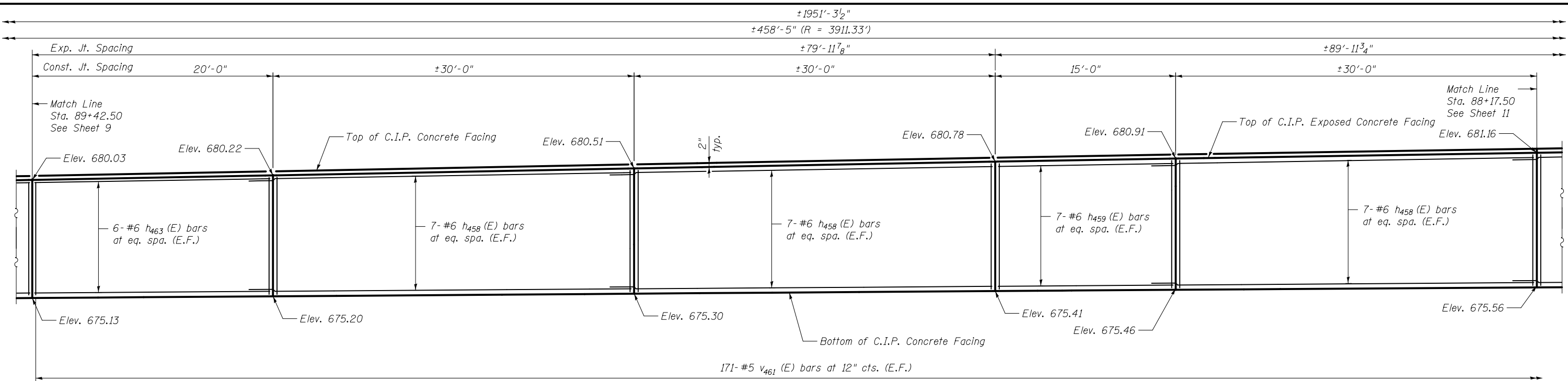
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SOLDIER PILE WALL LAYOUT PLAN 2
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 9 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1415
CONTRACT NO. 64E26				

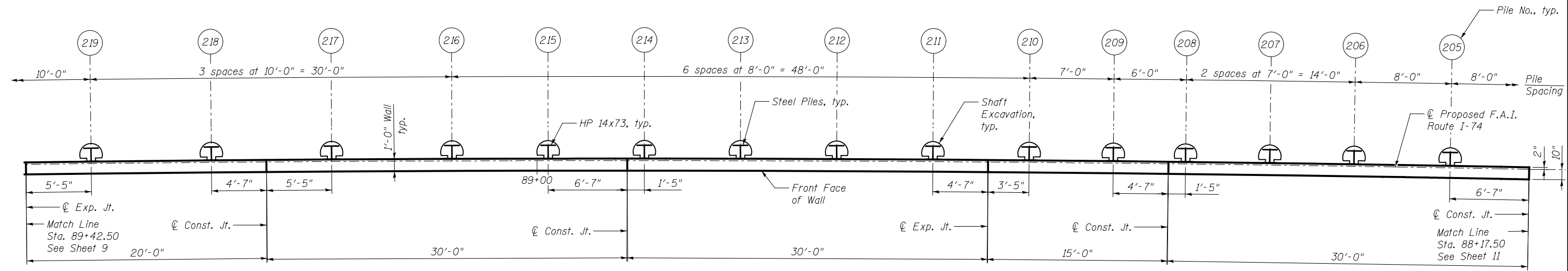
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PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
210	88+59.08	HP 14x73	22	657.48	679.48	10
211	88+67.07	HP 14x73	22	657.41	679.41	10
212	88+75.07	HP 14x73	21	658.33	679.33	10
213	88+83.07	HP 14x73	21	658.26	679.26	10
214	88+91.07	HP 14x73	21	658.19	679.19	10
215	88+99.07	HP 14x73	21	658.11	679.11	10
216	89+07.07	HP 14x73	21	658.04	679.04	10
217	89+17.07	HP 14x73	21	657.94	678.94	10
218	89+27.07	HP 14x73	21	657.85	678.85	10
219	89+37.07	HP 14x73	21	657.75	678.75	10

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
205	88+24.08	HP 14x73	22	657.77	679.77	10
206	88+32.08	HP 14x73	22	657.71	679.71	10
207	88+39.08	HP 14x73	22	657.65	679.65	10
208	88+46.08	HP 14x73	22	657.59	679.59	10
209	88+52.08	HP 14x73	22	657.54	679.54	10



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from ϕ Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along back face of the wall.



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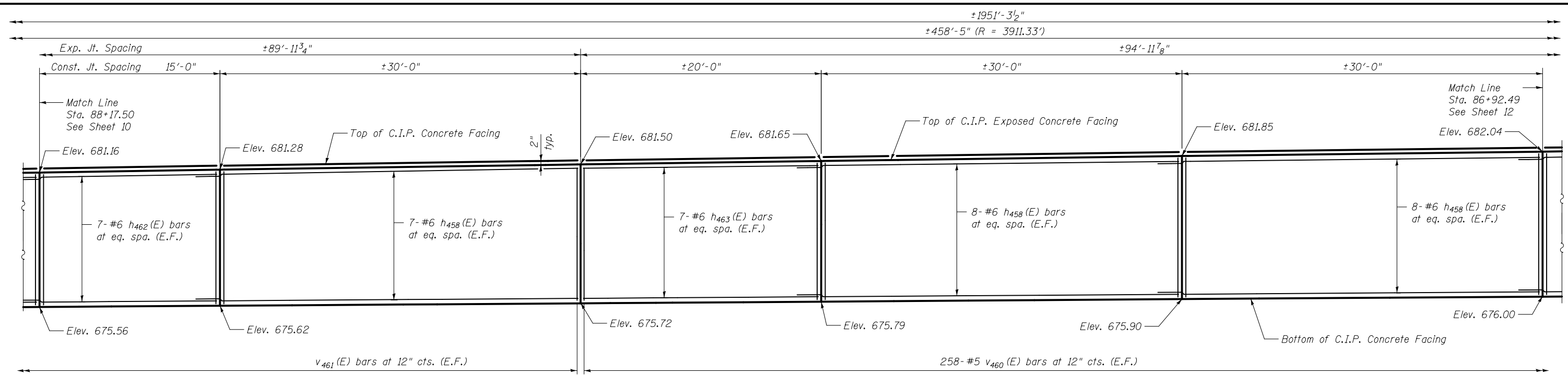
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SOLDIER PILE WALL LAYOUT PLAN 3
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 10 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1416
CONTRACT NO. 64E26				

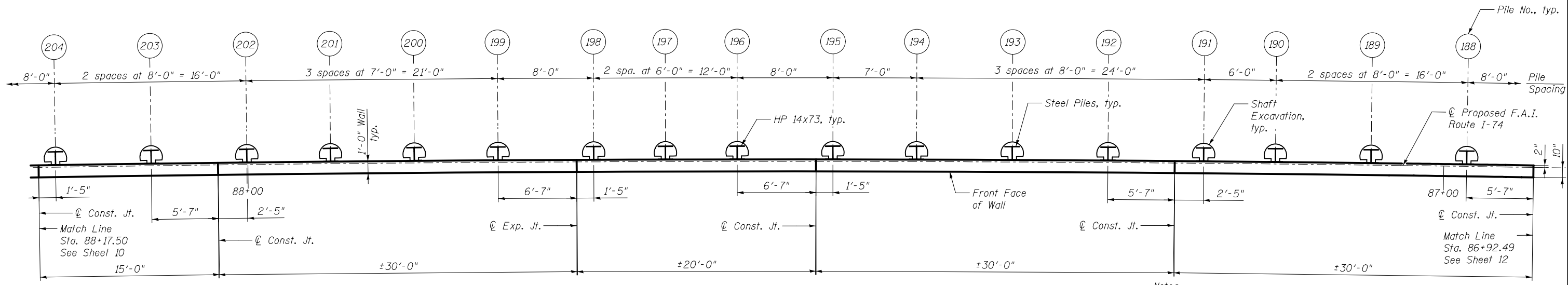
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PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
194	87+44.08	HP 14x73	22	658.37	680.37	12
195	87+51.08	HP 14x73	22	658.32	680.32	12
196	87+59.08	HP 14x73	22	658.27	680.27	10
197	87+65.08	HP 14x73	22	658.22	680.22	10
198	87+71.08	HP 14x73	22	658.18	680.18	10
199	87+79.08	HP 14x73	22	658.12	680.12	10
200	87+86.08	HP 14x73	22	658.07	680.07	10
201	87+93.08	HP 14x73	22	658.02	680.02	10
202	88+00.08	HP 14x73	22	657.96	679.96	10
203	88+08.08	HP 14x73	22	657.90	679.90	10
204	88+16.08	HP 14x73	22	657.84	679.84	10

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
188	86+98.08	HP 14x73	22	658.66	680.66	12
189	87+06.08	HP 14x73	22	658.62	680.62	12
190	87+14.08	HP 14x73	22	658.57	680.57	12
191	87+20.08	HP 14x73	22	658.53	680.53	12
192	87+28.08	HP 14x73	22	658.48	680.48	12
193	87+36.08	HP 14x73	22	658.42	680.42	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from ϕ Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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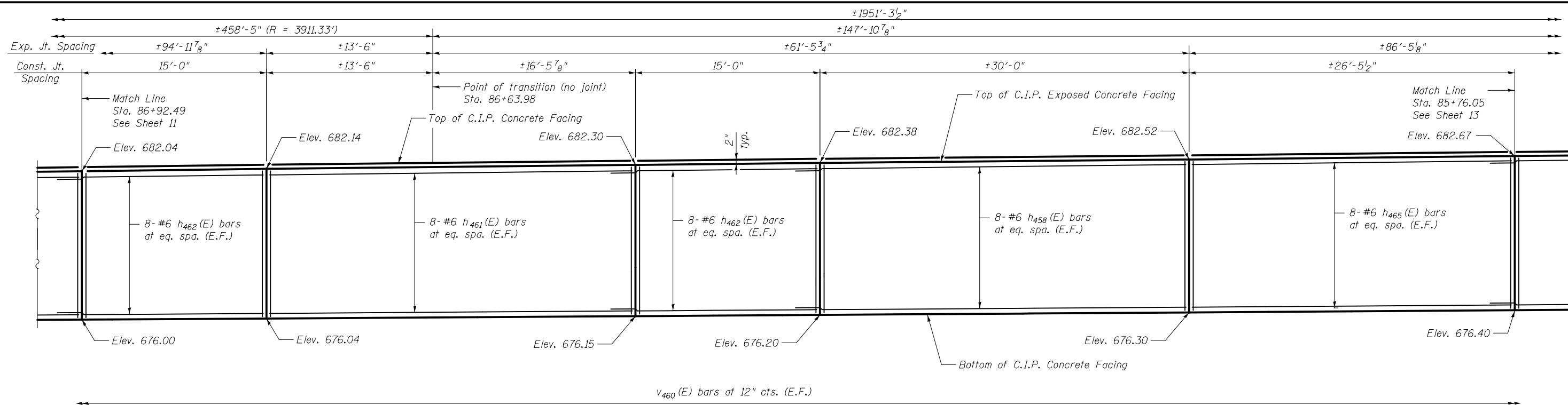
STATE OF ILLINOIS
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SOLDIER PILE WALL LAYOUT PLAN 4
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 11 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1417
CONTRACT NO. 64E26				

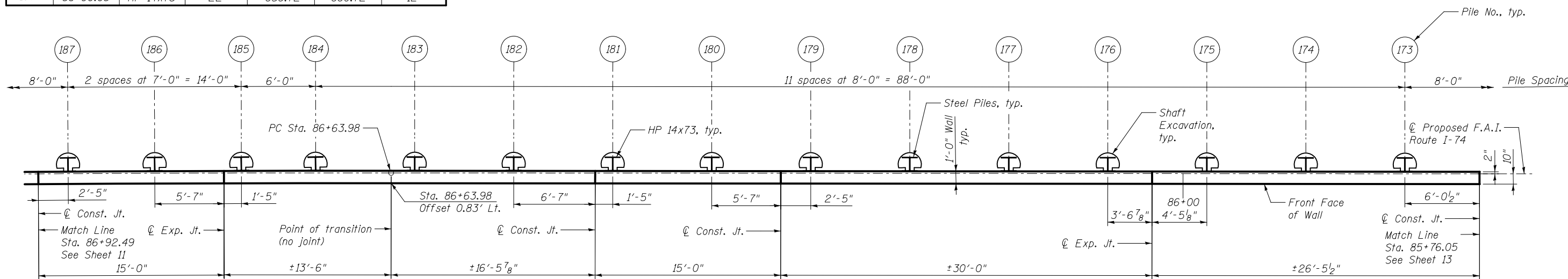
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Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
177	86+14.08	HP 14x73	22	659.15	681.15	12
178	86+22.08	HP 14x73	22	659.11	681.11	12
179	86+30.08	HP 14x73	22	659.06	681.06	12
180	86+38.08	HP 14x73	22	659.02	681.02	12
181	86+46.08	HP 14x73	22	658.97	680.97	12
182	86+54.08	HP 14x73	22	658.93	680.93	12
183	86+62.08	HP 14x73	22	658.89	680.89	12
184	86+70.08	HP 14x73	22	658.84	680.84	12
185	86+76.08	HP 14x73	22	658.81	680.81	12
186	86+83.08	HP 14x73	22	658.76	680.76	12
187	86+90.08	HP 14x73	22	658.72	680.72	12

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
173	85+82.08	HP 14x73	22	659.31	681.31	12
174	85+90.08	HP 14x73	22	659.27	681.27	12
175	85+98.08	HP 14x73	22	659.23	681.23	12
176	86+06.08	HP 14x73	22	659.19	681.19	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:

For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \O Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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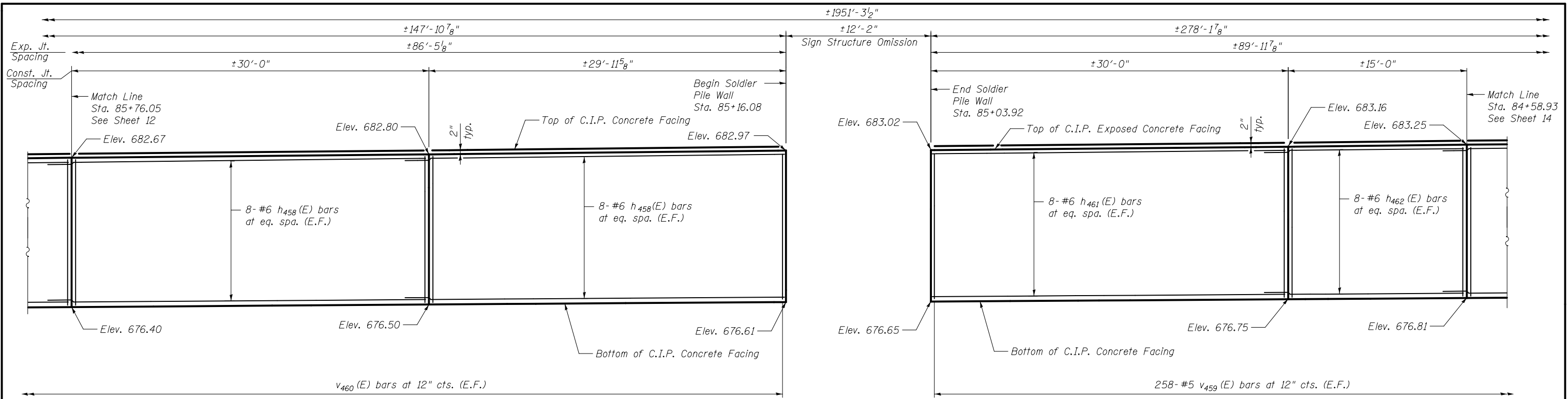
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 5
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 12 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1418
CONTRACT NO. 64E26				

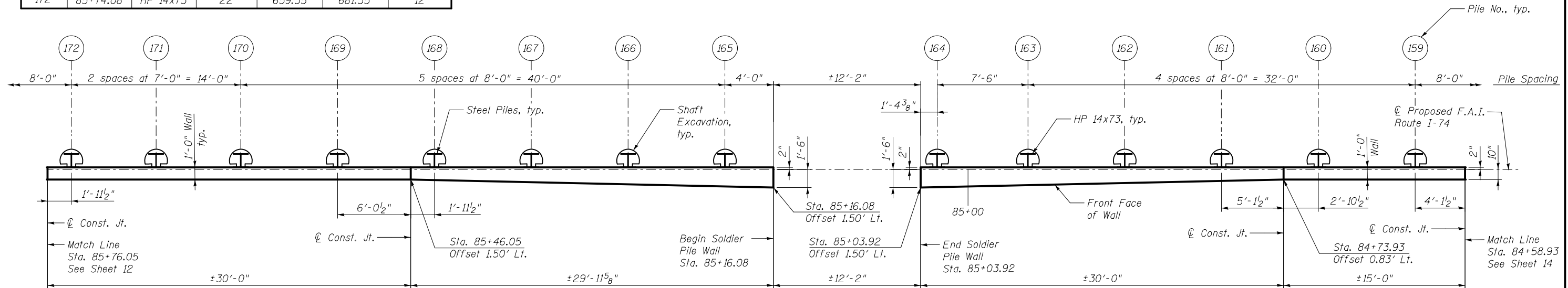
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PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
163	84+95.05	HP 14x73	23	658.74	681.74	12
164	85+02.55	HP 14x73	23	658.70	681.70	12
165	85+20.08	HP 14x73	23	658.61	681.61	12
166	85+28.08	HP 14x73	23	658.57	681.57	12
167	85+36.08	HP 14x73	22	659.53	681.53	12
168	85+44.08	HP 14x73	22	659.50	681.50	12
169	85+52.08	HP 14x73	22	659.46	681.46	12
170	85+60.08	HP 14x73	22	659.42	681.42	12
171	85+67.08	HP 14x73	22	659.38	681.38	12
172	85+74.08	HP 14x73	22	659.35	681.35	12

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
159	84+63.05	HP 14x73	23	658.89	681.89	12
160	84+71.05	HP 14x73	23	658.85	681.85	12
161	84+79.05	HP 14x73	23	658.81	681.81	12
162	84+87.05	HP 14x73	23	658.78	681.78	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



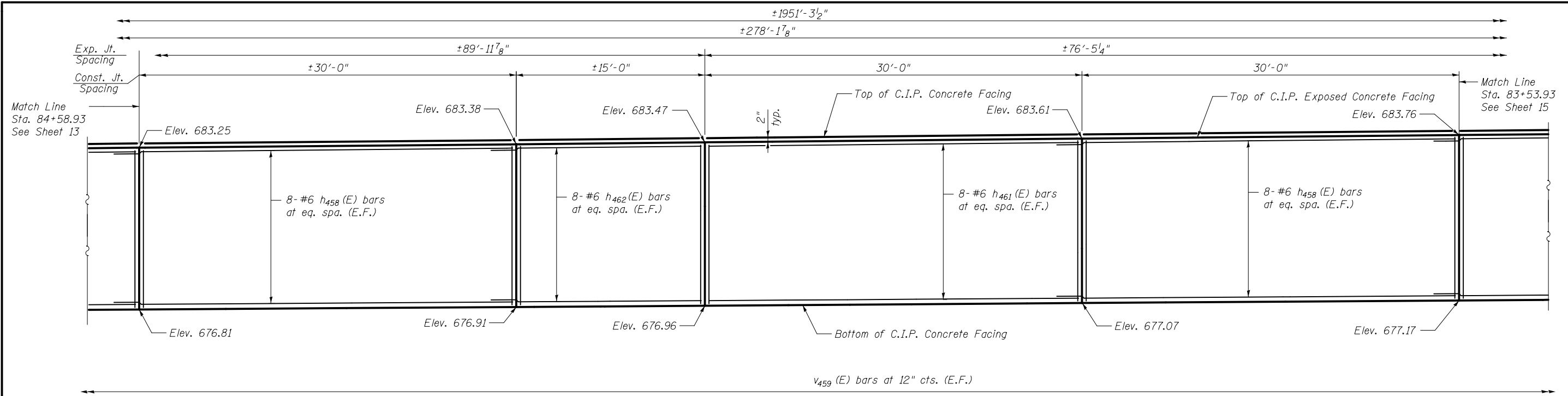
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SOLDIER PILE WALL LAYOUT PLAN 6
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 13 OF 58 SHEETS

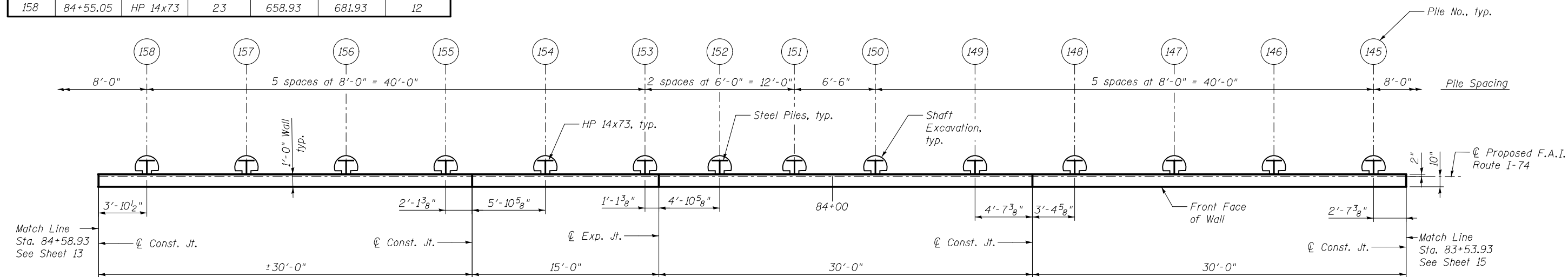
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1419
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
148	83+80.55	HP 14x73	23	659.30	682.30	12
149	83+88.55	HP 14x73	23	659.26	682.26	12
150	83+96.55	HP 14x73	23	659.22	682.22	12
151	84+03.05	HP 14x73	23	659.19	682.19	12
152	84+09.05	HP 14x73	23	659.16	682.16	12
153	84+15.05	HP 14x73	23	659.13	682.13	12
154	84+23.05	HP 14x73	23	659.09	682.09	12
155	84+31.05	HP 14x73	23	659.05	682.05	12
156	84+39.05	HP 14x73	23	659.01	682.01	12
157	84+47.05	HP 14x73	23	658.97	681.97	12
158	84+55.05	HP 14x73	23	658.93	681.93	12

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
145	83+56.55	HP 14x73	23	659.41	682.41	12
146	83+64.55	HP 14x73	23	659.38	682.38	12
147	83+72.55	HP 14x73	23	659.34	682.34	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \varnothing Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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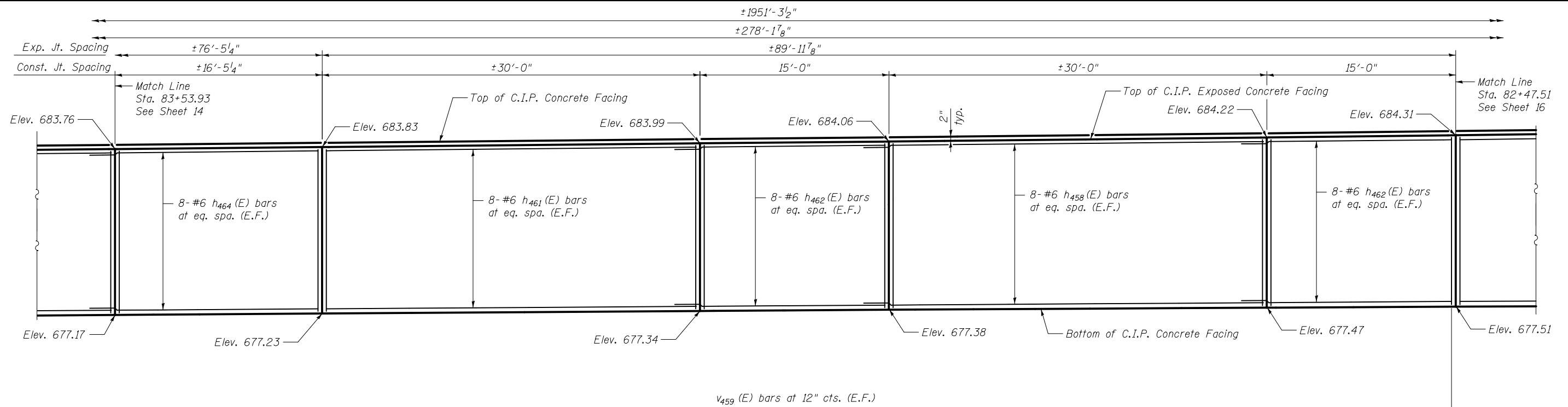
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SOLDIER PILE WALL LAYOUT PLAN 7
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 14 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1420
CONTRACT NO. 64E26				

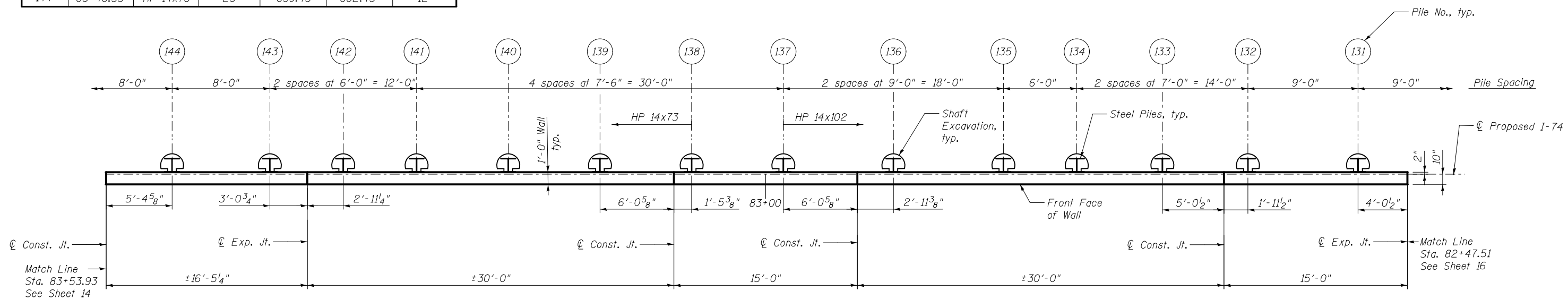
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PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
135	82+80.55	HP 14x102	25	657.79	682.79	12
136	82+89.55	HP 14x102	25	657.74	682.74	12
137	82+98.55	HP 14x102	25	657.69	682.69	12
138	83+06.05	HP 14x73	23	659.66	682.66	12
139	83+13.55	HP 14x73	23	659.63	682.63	12
140	83+21.05	HP 14x73	23	659.59	682.59	12
141	83+28.55	HP 14x73	23	659.55	682.55	12
142	83+34.55	HP 14x73	23	659.52	682.52	12
143	83+40.55	HP 14x73	23	659.49	682.49	12
144	83+48.55	HP 14x73	23	659.45	682.45	12

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
131	82+51.55	HP 14x102	25	657.95	682.95	12
132	82+60.55	HP 14x102	25	657.90	682.90	12
133	82+67.55	HP 14x102	25	657.86	682.86	12
134	82+74.55	HP 14x102	25	657.82	682.82	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



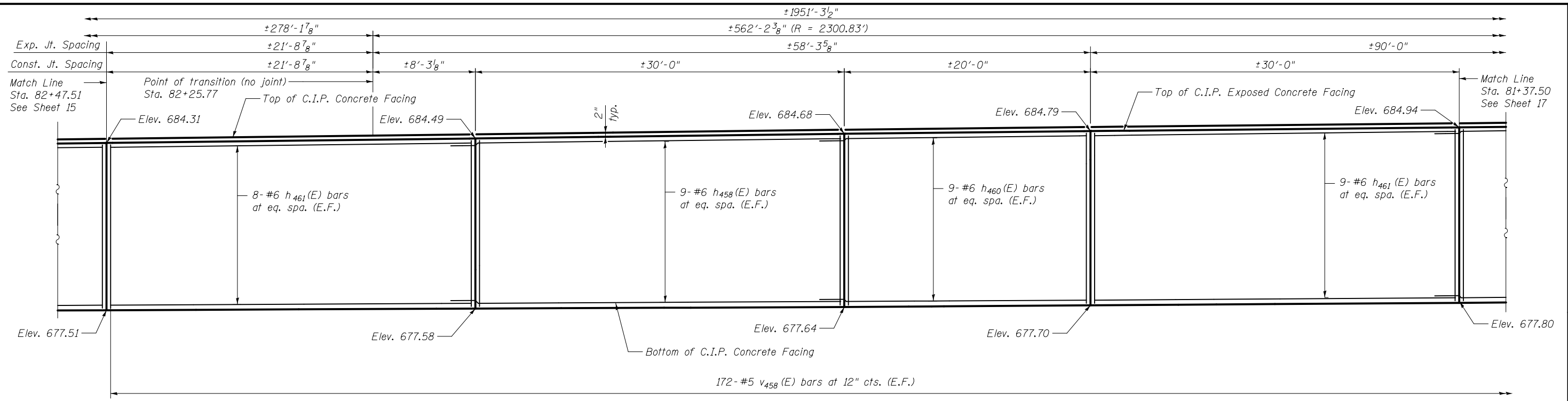
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SOLDIER PILE WALL LAYOUT PLAN 8
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 15 OF 58 SHEETS

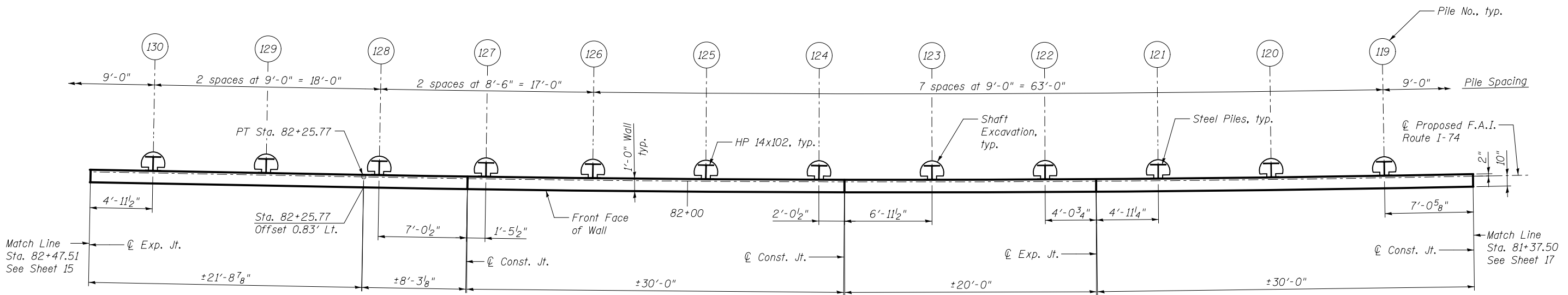
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1421
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
123	81+80.55	HP 14x102	25	658.39	683.39	14
124	81+89.55	HP 14x102	25	658.34	683.34	14
125	81+98.55	HP 14x102	25	658.30	683.30	14
126	82+07.55	HP 14x102	25	658.23	683.23	14
127	82+16.05	HP 14x102	25	658.17	683.17	14
128	82+24.55	HP 14x102	25	658.11	683.11	14
129	82+33.55	HP 14x102	25	658.05	683.05	14
130	82+42.55	HP 14x102	25	658.00	683.00	12

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
119	81+44.54	HP 14x102	25	658.57	683.57	14
120	81+53.54	HP 14x102	25	658.52	683.52	14
121	81+62.54	HP 14x102	25	658.48	683.48	14
122	81+71.55	HP 14x102	25	658.43	683.43	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \varnothing Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

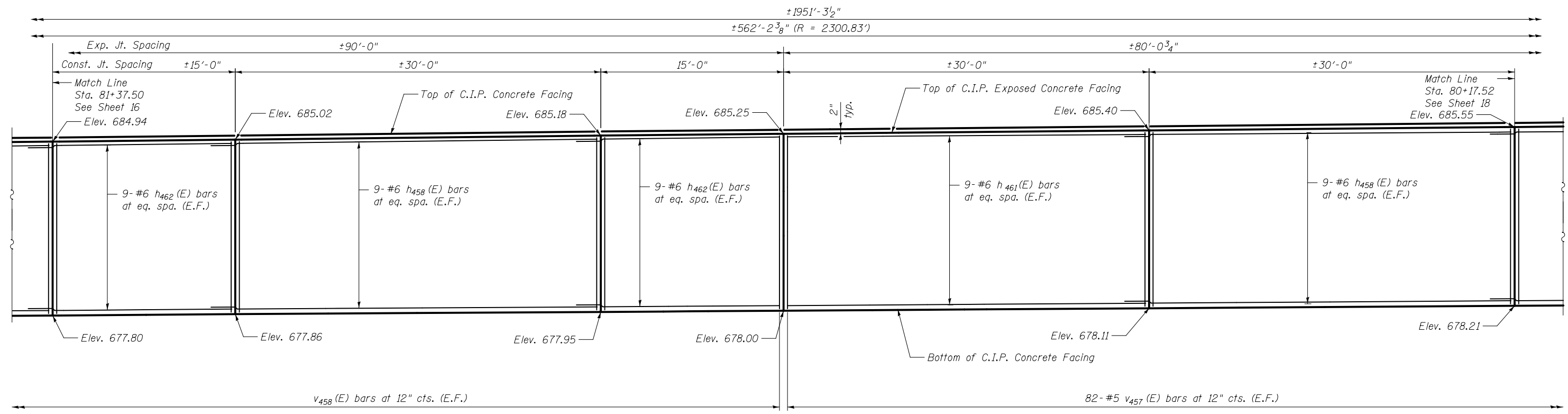
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 9
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 16 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1422
CONTRACT NO. 64E26				

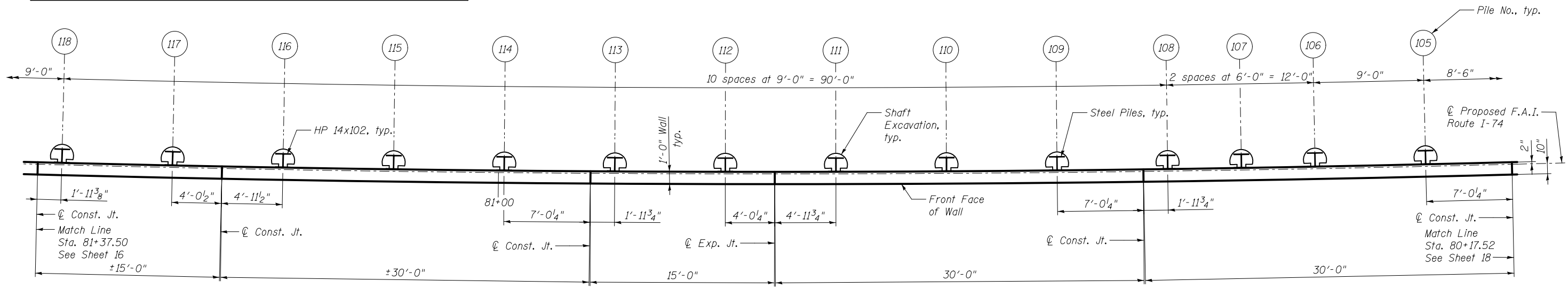
ILLINOIS FED. AID PROJECT



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
109	80+54.54	HP 14x102	25	659.03	684.03	14
110	80+63.54	HP 14x102	25	658.99	683.99	14
111	80+72.54	HP 14x102	25	658.94	683.94	14
112	80+81.54	HP 14x102	25	658.90	683.90	14
113	80+90.54	HP 14x102	25	658.86	683.86	14
114	80+99.54	HP 14x102	25	658.79	683.79	14
115	81+08.54	HP 14x102	25	658.75	683.75	14
116	81+17.54	HP 14x102	25	658.71	683.71	14
117	81+26.54	HP 14x102	25	658.66	683.66	14
118	81+35.54	HP 14x102	25	658.61	683.61	14

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
105	80+24.54	HP 14x102	25	659.18	684.18	14
106	80+33.54	HP 14x102	25	659.13	684.13	14
107	80+39.54	HP 14x102	25	659.11	684.11	14
108	80+45.54	HP 14x102	25	659.08	684.08	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

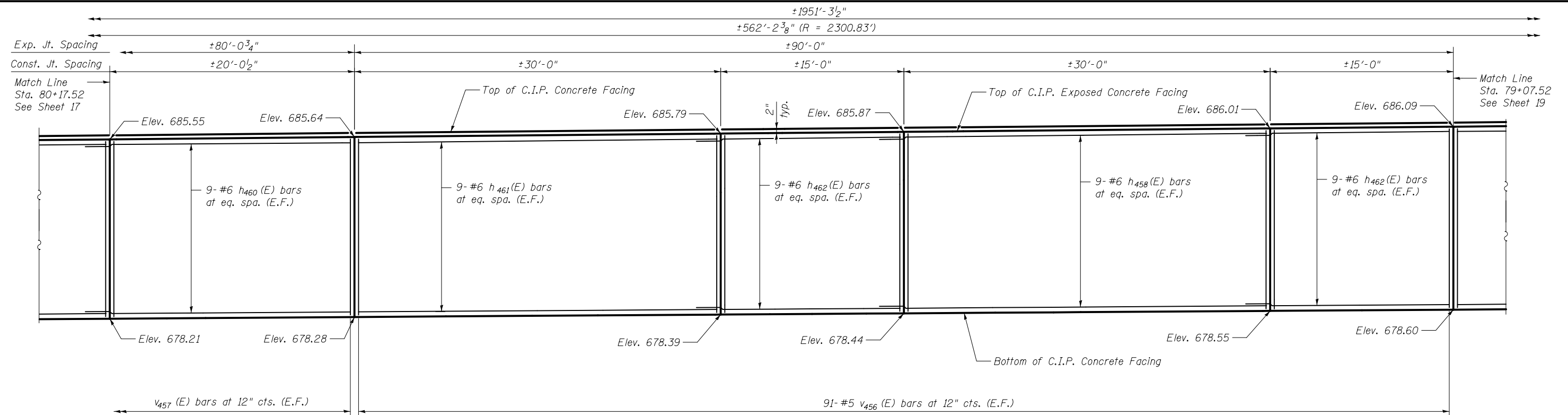
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 10
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 17 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1423
CONTRACT NO. 64E26				

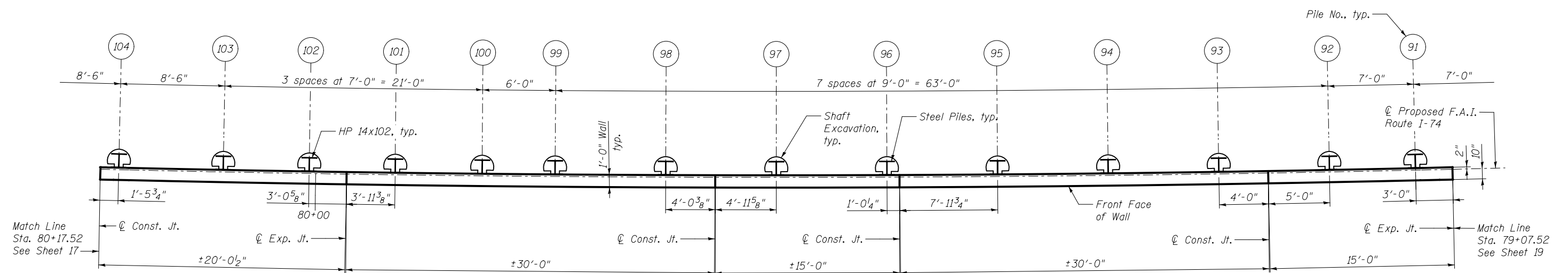
ILLINOIS FED. AID PROJECT



Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
95	79+44.53	HP 14x102	26	658.57	684.57	14
96	79+53.53	HP 14x102	26	658.53	684.53	14
97	79+62.53	HP 14x102	26	658.48	684.48	14
98	79+71.53	HP 14x102	26	658.44	684.44	14
99	79+80.53	HP 14x102	26	658.39	684.39	14
100	79+86.53	HP 14x102	26	658.37	684.37	14
101	79+93.53	HP 14x102	26	658.33	684.33	14
102	80+00.53	HP 14x102	26	658.30	684.30	14
103	80+07.53	HP 14x102	26	658.26	684.26	14
104	80+16.03	HP 14x102	26	658.22	684.22	14

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
91	79+10.53	HP 14x102	26	658.74	684.74	14
92	79+17.53	HP 14x102	26	658.70	684.70	14
93	79+26.53	HP 14x102	26	658.66	684.66	14
94	79+35.53	HP 14x102	26	658.62	684.62	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:

For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



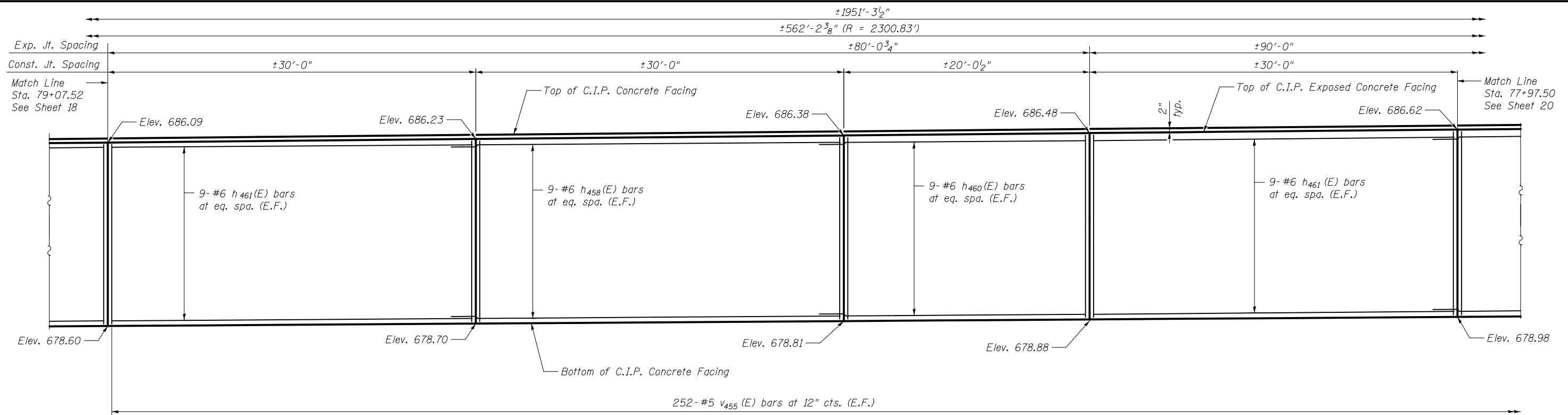
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PLOT SCALE =	CHECKED - TER	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 11
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 18 OF 58 SHEETS

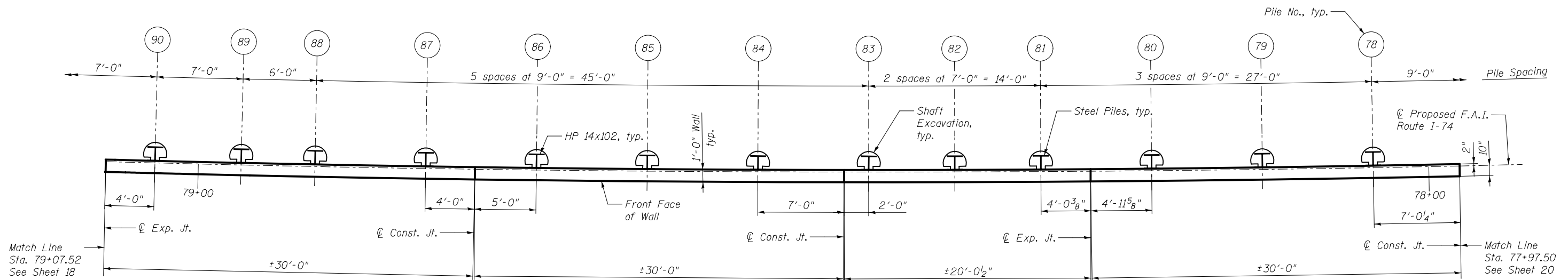
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1424
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
82	78+38.52	HP 14x102	26	659.09	685.09	14
83	78+45.52	HP 14x102	26	659.06	685.06	14
84	78+54.52	HP 14x102	26	659.01	685.01	14
85	78+63.52	HP 14x102	26	658.97	684.97	14
86	78+72.52	HP 14x102	26	658.92	684.92	14
87	78+81.52	HP 14x102	26	658.88	684.88	14
88	78+90.52	HP 14x102	26	658.84	684.84	14
89	78+96.53	HP 14x102	26	658.81	684.81	14
90	79+03.53	HP 14x102	26	658.77	684.77	14

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
78	78+04.52	HP 14x102	26	659.26	685.26	14
79	78+13.52	HP 14x102	26	659.21	685.21	14
80	78+22.52	HP 14x102	26	659.17	685.17	14
81	78+31.52	HP 14x102	26	659.12	685.12	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:

For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



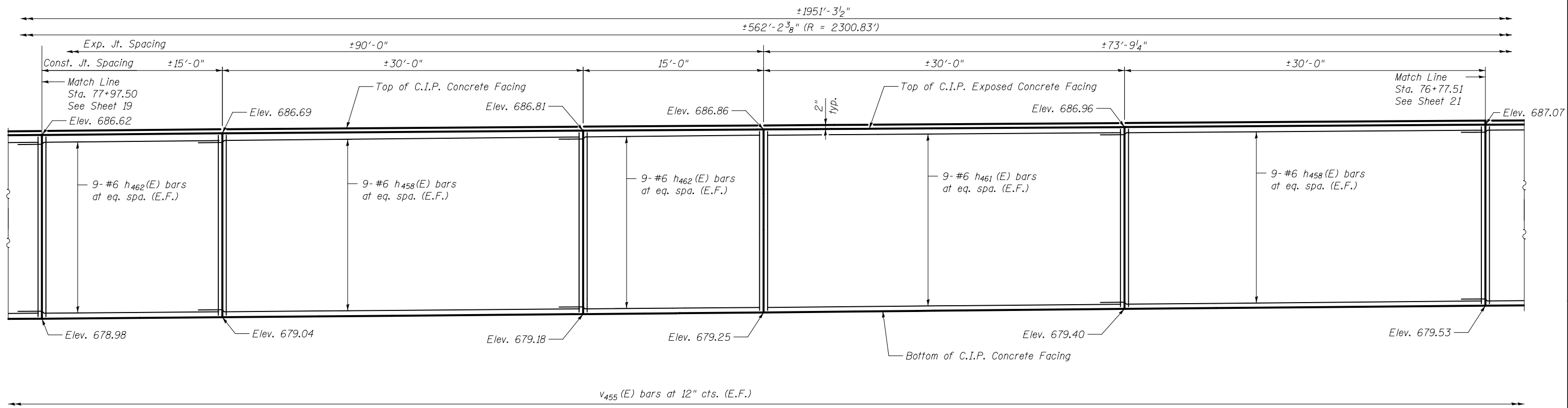
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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

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SOLDIER PILE WALL LAYOUT PLAN 12
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 19 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1425
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

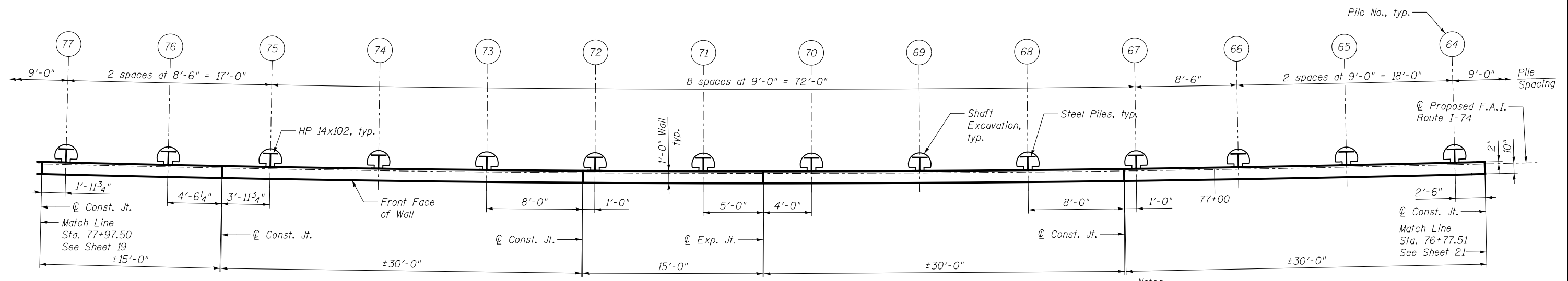


v455 (E) bars at 12" cts. (E.F.)

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
68	77+15.51	HP 14x102	26	659.60	685.60	14
69	77+24.51	HP 14x102	26	659.57	685.57	14
70	77+33.51	HP 14x102	26	659.54	685.54	14
71	77+42.51	HP 14x102	26	659.51	685.51	14
72	77+51.52	HP 14x102	26	659.48	685.48	14
73	77+60.52	HP 14x102	26	659.44	685.44	14
74	77+69.52	HP 14x102	26	659.41	685.41	14
75	77+78.52	HP 14x102	26	659.37	685.37	14
76	77+87.02	HP 14x102	26	659.34	685.34	14
77	77+95.52	HP 14x102	26	659.30	685.30	14

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
64	76+80.01	HP 14x102	26	659.72	685.72	14
65	76+89.01	HP 14x102	26	659.69	685.69	14
66	76+98.01	HP 14x102	26	659.66	685.66	14
67	77+06.51	HP 14x102	26	659.63	685.63	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from C Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



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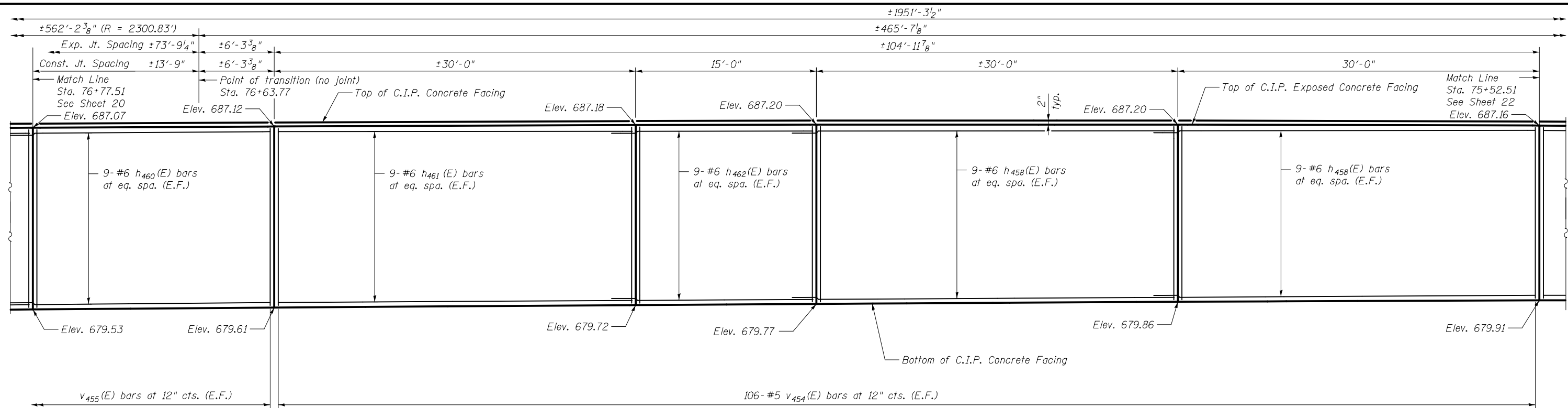
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 13
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 20 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1426
CONTRACT NO. 64E26				

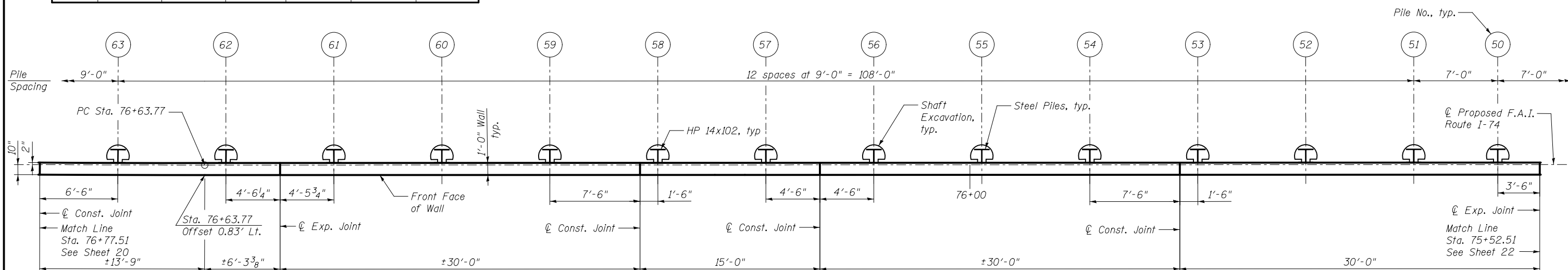
ILLINOIS FED. AID PROJECT



Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
54	75+90.01	HP 14x102	26	659.87	685.87	14
55	75+99.01	HP 14x102	26	659.87	685.87	14
56	76+08.01	HP 14x102	26	659.87	685.87	14
57	76+17.01	HP 14x102	26	659.86	685.86	14
58	76+26.01	HP 14x102	26	659.85	685.85	14
59	76+35.01	HP 14x102	26	659.84	685.84	14
60	76+44.01	HP 14x102	26	659.82	685.82	14
61	76+53.01	HP 14x102	26	659.80	685.80	14
62	76+62.01	HP 14x102	26	659.77	685.77	14
63	76+71.01	HP 14x102	26	659.76	685.76	14

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
50	75+56.01	HP 14x102	25	660.83	685.83	14
51	75+63.01	HP 14x102	25	660.84	685.84	14
52	75+72.01	HP 14x102	25	660.86	685.86	14
53	75+81.01	HP 14x102	26	659.86	685.86	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \varnothing Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



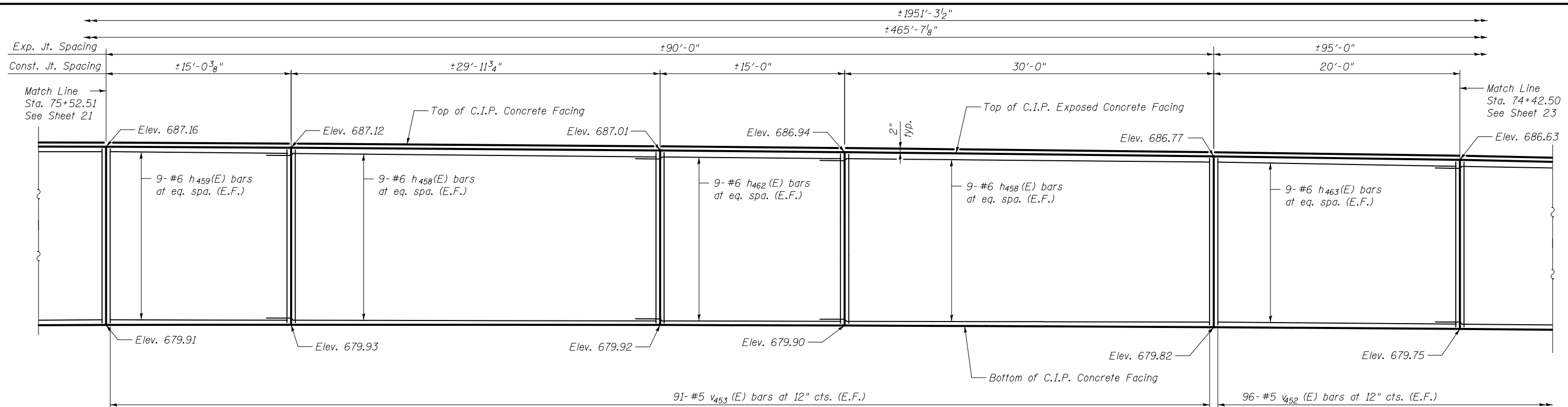
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 14
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 21 OF 58 SHEETS

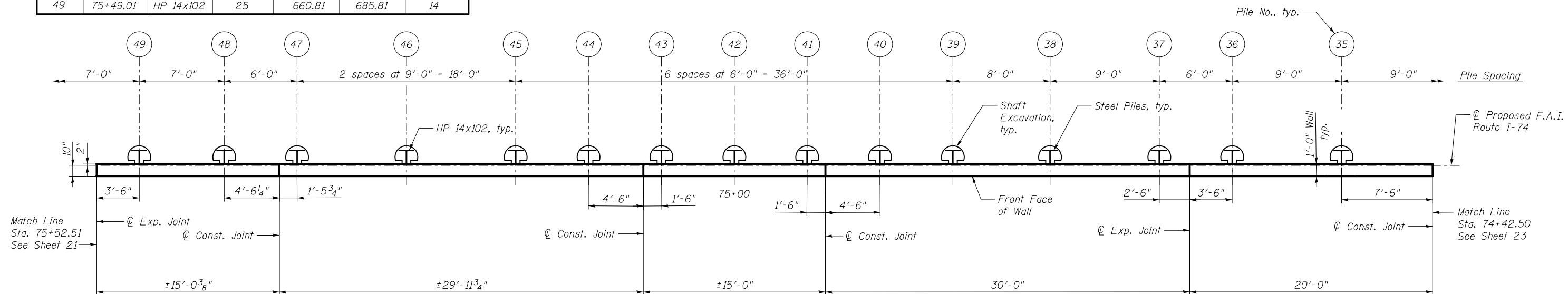
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1427
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
39	74+82.01	HP 14x102	25	660.55	685.55	14
40	74+88.01	HP 14x102	25	660.58	685.58	14
41	74+94.01	HP 14x102	25	660.61	685.61	14
42	75+00.01	HP 14x102	25	660.64	685.64	14
43	75+06.01	HP 14x102	25	660.67	685.67	14
44	75+12.01	HP 14x102	25	660.69	685.69	14
45	75+18.01	HP 14x102	25	660.72	685.72	14
46	75+27.01	HP 14x102	25	660.75	685.75	14
47	75+36.01	HP 14x102	25	660.78	685.78	14
48	75+42.01	HP 14x102	25	660.80	685.80	14
49	75+49.01	HP 14x102	25	660.81	685.81	14

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
35	74+50.01	HP 14x102	25	660.35	685.35	14
36	74+59.01	HP 14x102	25	660.41	685.41	14
37	74+65.01	HP 14x102	25	660.45	685.45	14
38	74+74.01	HP 14x102	25	660.50	685.50	14



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:

For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from ϕ Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



USER NAME =	DESIGNED - ZJB	REVISED
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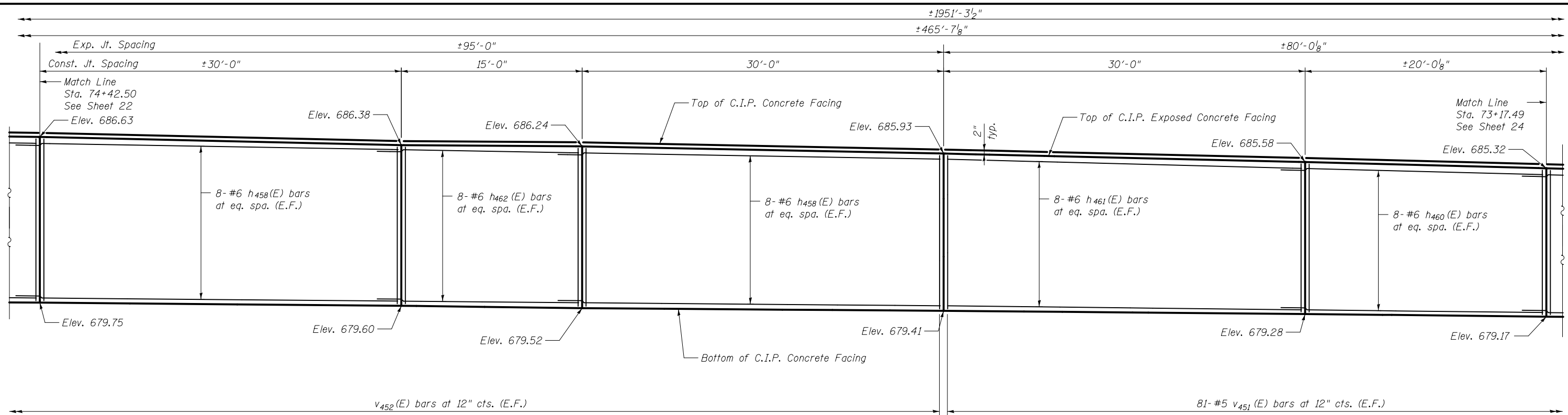
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN 15
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 22 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1428
CONTRACT NO. 64E26				

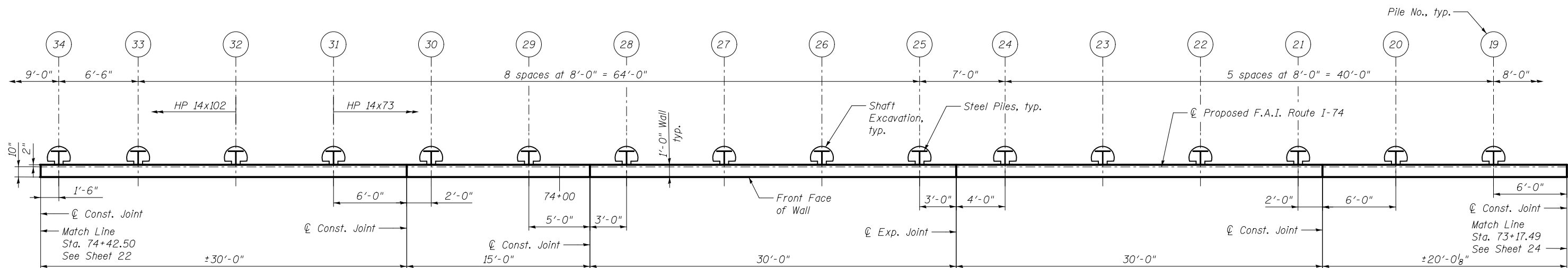
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Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
25	73+70.51	HP 14x73	23	661.63	684.63	12
26	73+78.51	HP 14x73	23	661.72	684.72	12
27	73+86.51	HP 14x73	23	661.80	684.80	12
28	73+94.51	HP 14x73	23	661.88	684.88	12
29	74+02.51	HP 14x73	23	661.96	684.96	12
30	74+10.51	HP 14x73	23	662.03	685.03	12
31	74+18.51	HP 14x73	23	662.10	685.10	12
32	74+26.51	HP 14x102	25	660.17	685.17	12
33	74+34.51	HP 14x102	25	660.23	685.23	14
34	74+41.01	HP 14x102	25	660.28	685.28	14

PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
19	73+23.50	HP 14x73	22	662.06	684.06	12
20	73+31.50	HP 14x73	22	662.17	684.17	12
21	73+39.50	HP 14x73	22	662.27	684.27	12
22	73+47.50	HP 14x73	23	661.37	684.37	12
23	73+55.50	HP 14x73	23	661.46	684.46	12
24	73+63.50	HP 14x73	23	661.55	684.55	12

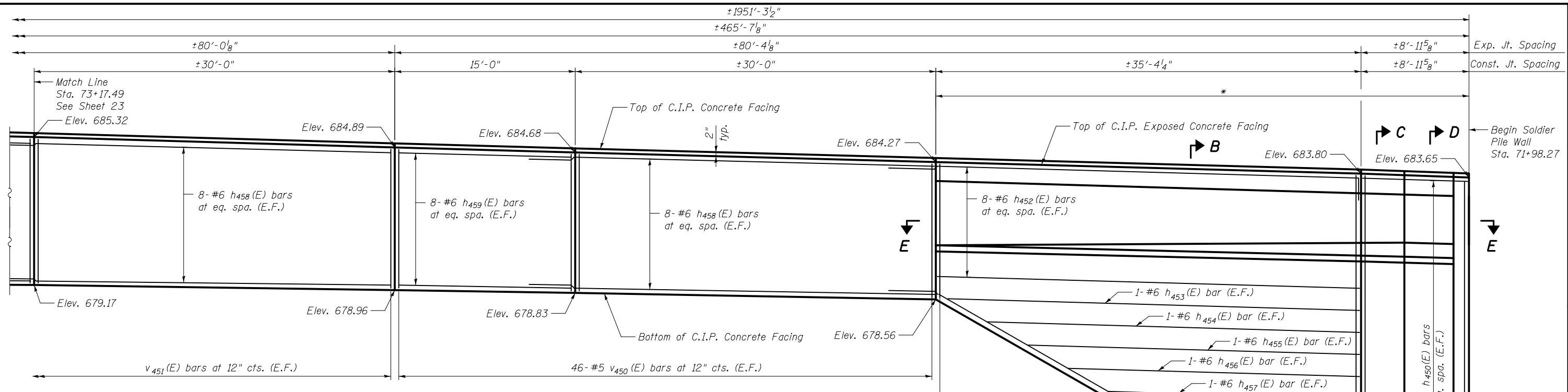


PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:

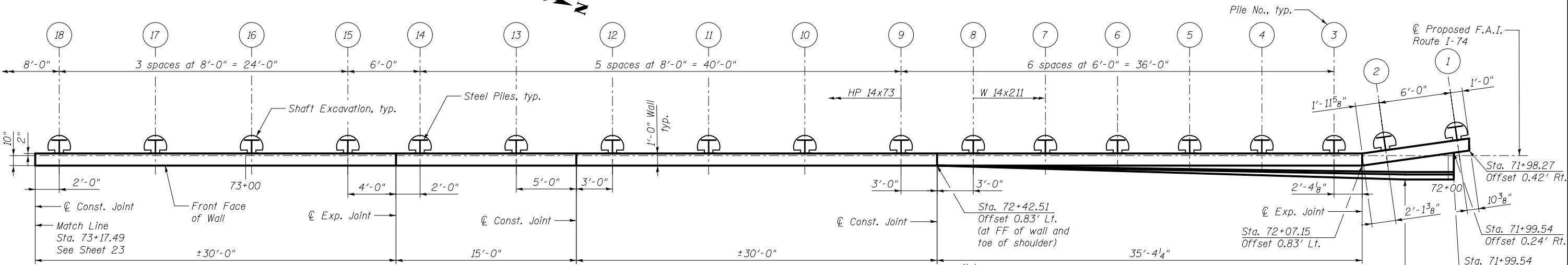
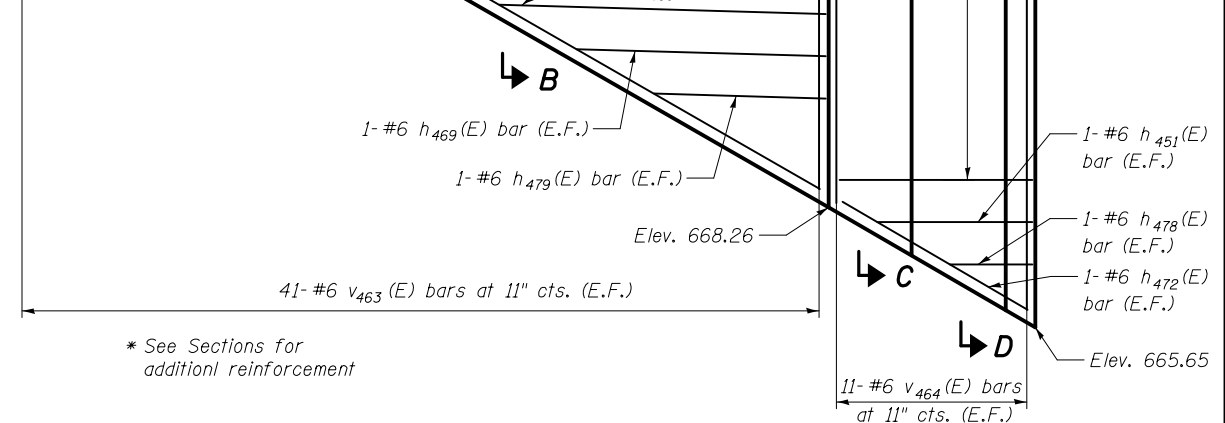
For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \varnothing Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.



PARTIAL ELEVATION - SOLDIER PILE WALL

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
9	72+45.50	HP 14x73	22	660.99	682.99	10
10	72+53.50	HP 14x73	22	661.10	683.10	10
11	72+61.50	HP 14x73	22	661.20	683.20	10
12	72+69.50	HP 14x73	22	661.31	683.31	10
13	72+77.50	HP 14x73	22	661.41	683.41	12
14	72+85.50	HP 14x73	22	661.53	683.53	12
15	72+91.50	HP 14x73	22	661.62	683.62	12
16	72+99.50	HP 14x73	22	661.73	683.73	12
17	73+07.50	HP 14x73	22	661.85	683.85	12
18	73+15.50	HP 14x73	22	661.96	683.96	12

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
1	71+99.26	W 14x211	31	651.33	682.33	34
2	72+05.20	W 14x211	31	651.43	682.43	32
3	72+09.50	W 14x211	31	651.50	682.50	30
4	72+15.50	W 14x211	31	651.58	682.58	26
5	72+21.50	W 14x211	31	651.66	682.66	22
6	72+27.50	W 14x211	31	651.74	682.74	20
7	72+33.50	W 14x211	31	651.82	682.82	16
8	72+39.50	W 14x211	31	651.90	682.90	12



PARTIAL PLAN - SOLDIER PILE WALL

Note: Anchorage slab not shown for clarity.

Notes:
 For Bill of Material, see Sheet 26.
 Stations and offsets on this sheet are given to the front face of wall and are measured from \varnothing Proposed F.A.I. Route I-74.
 Joint dimensions and spacings are measured along the front face of the wall.
 Pile dimensions and spacings are measured along the back face of the wall.
 For Sections B-B, C-C, D-D, and E-E, see Sheet 25.



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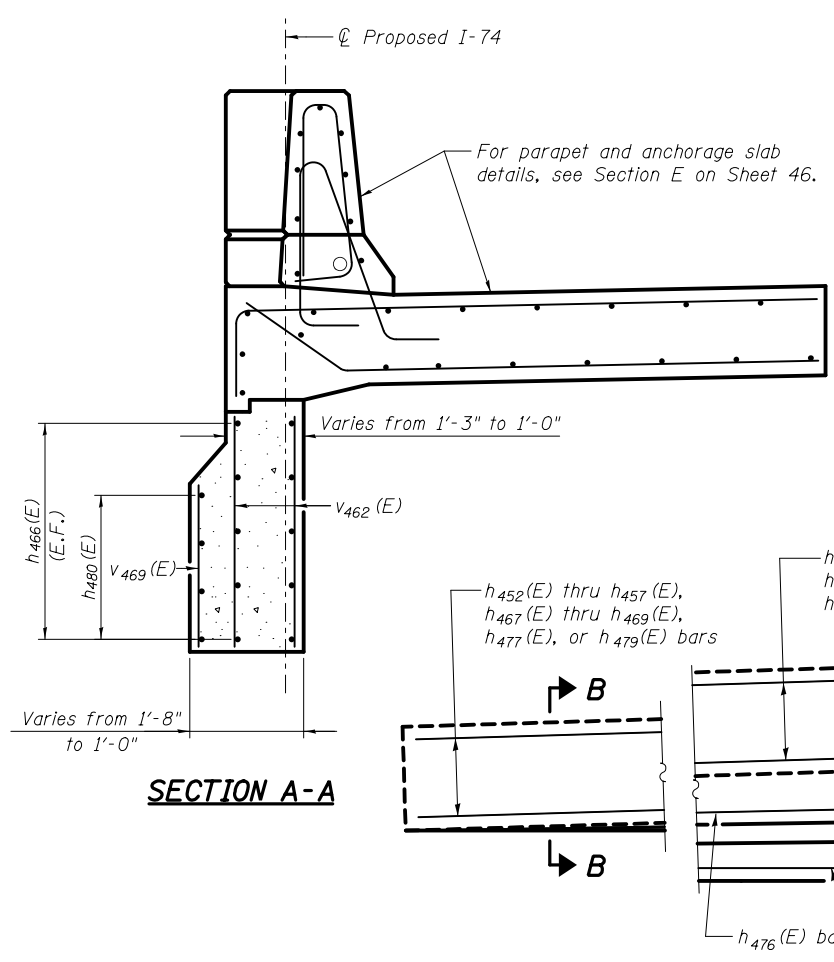
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SOLDIER PILE WALL LAYOUT PLAN 17
 I-74 (EB)/(WB) RETAINING WALL 12

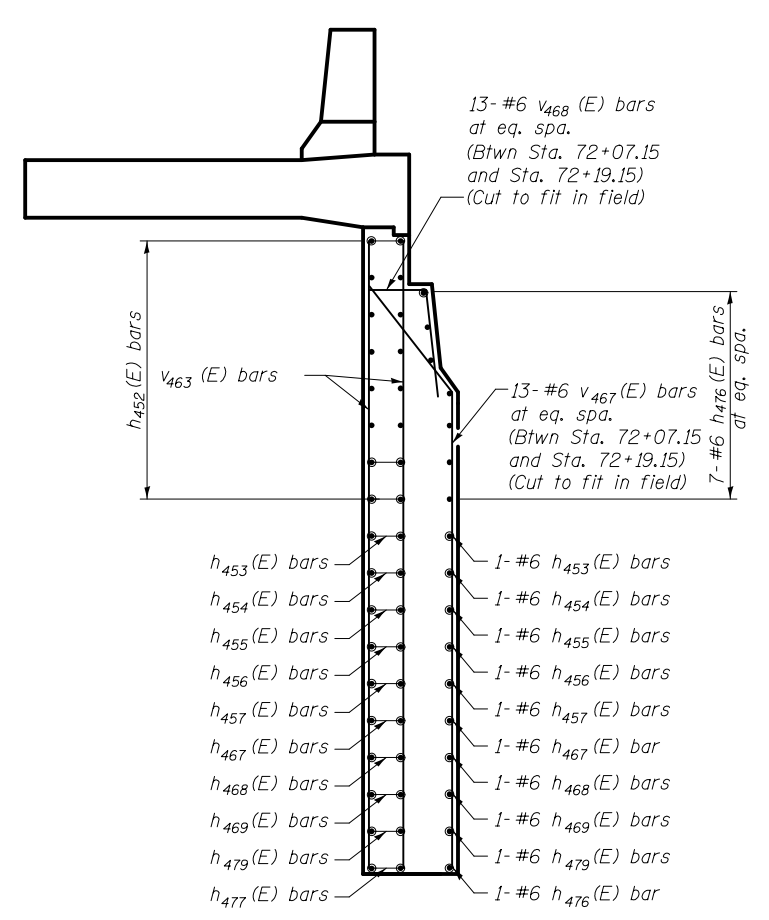
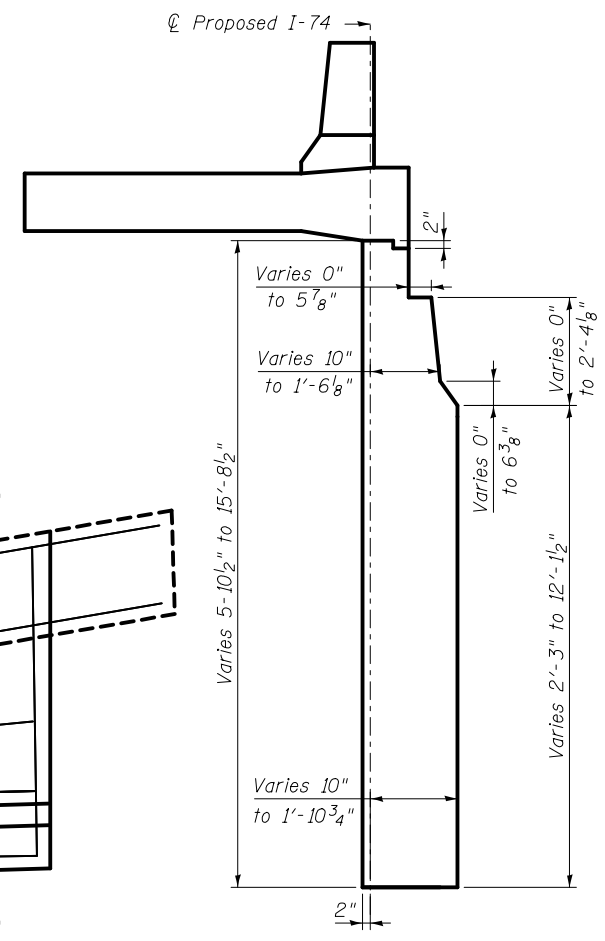
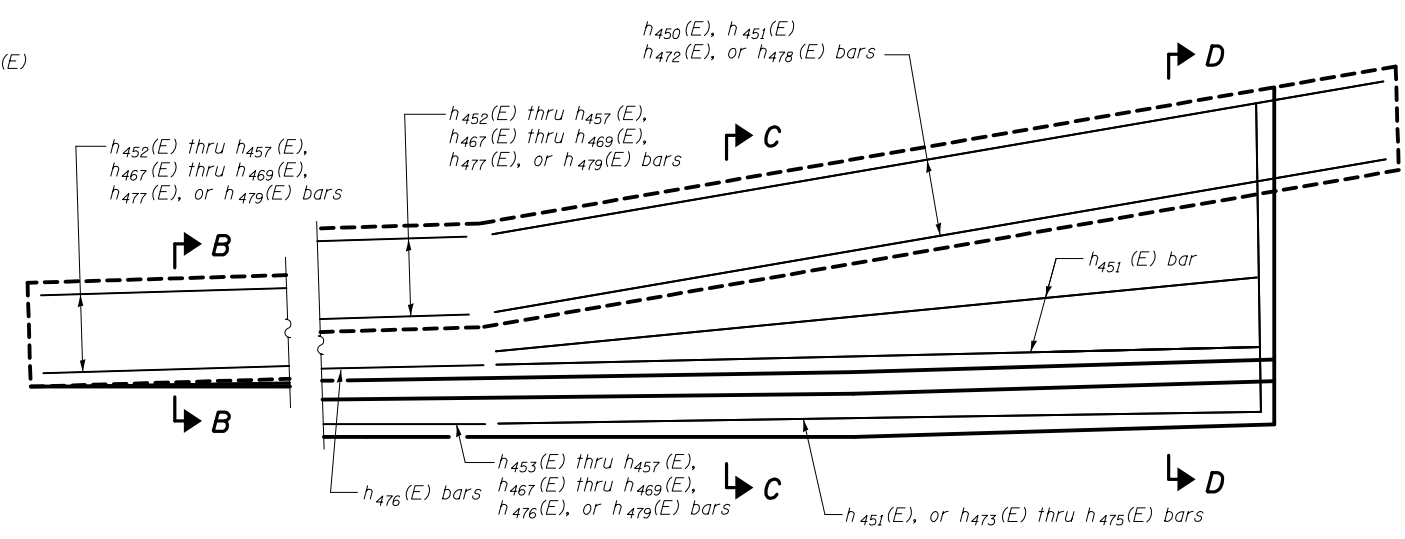
SHEET NO. 24 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1430
CONTRACT NO. 64E26				

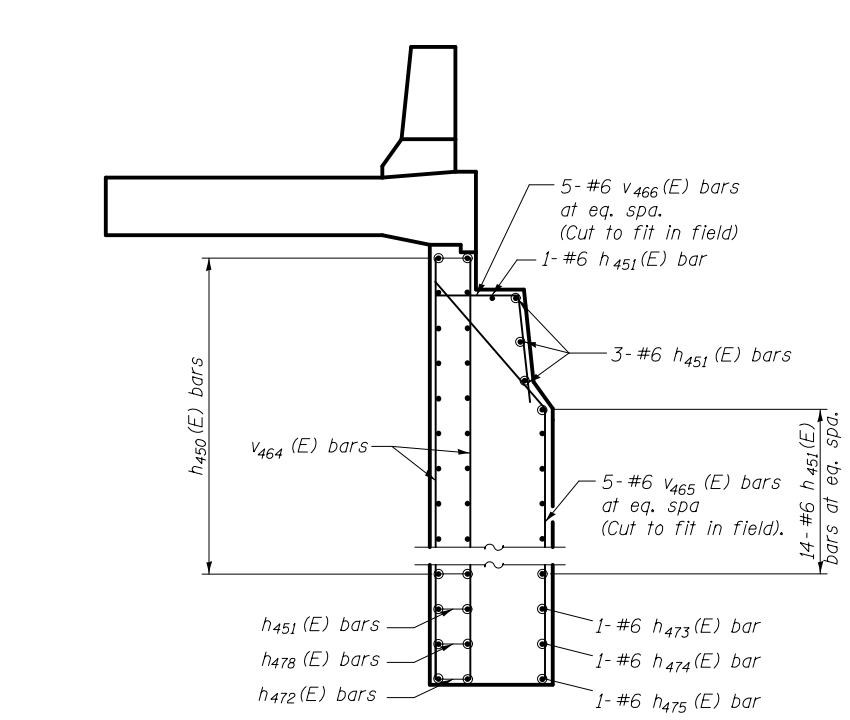
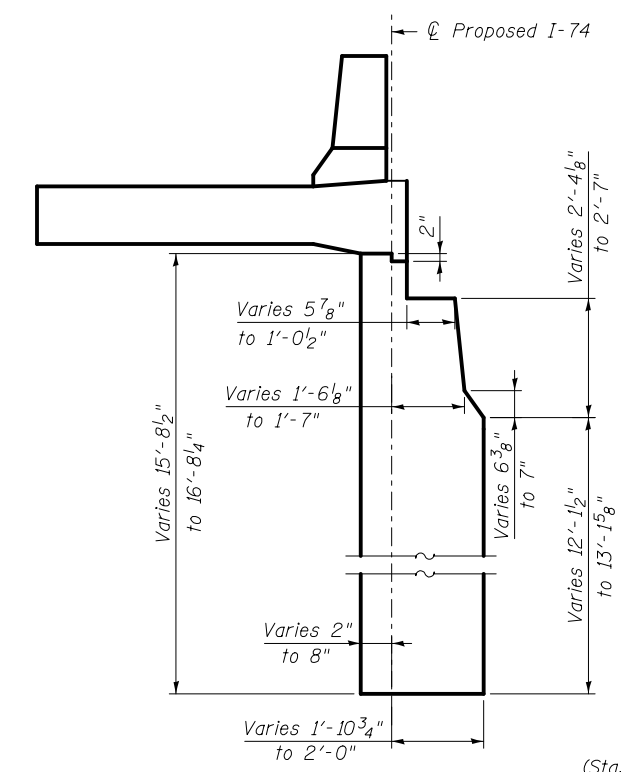
ILLINOIS FED. AID PROJECT



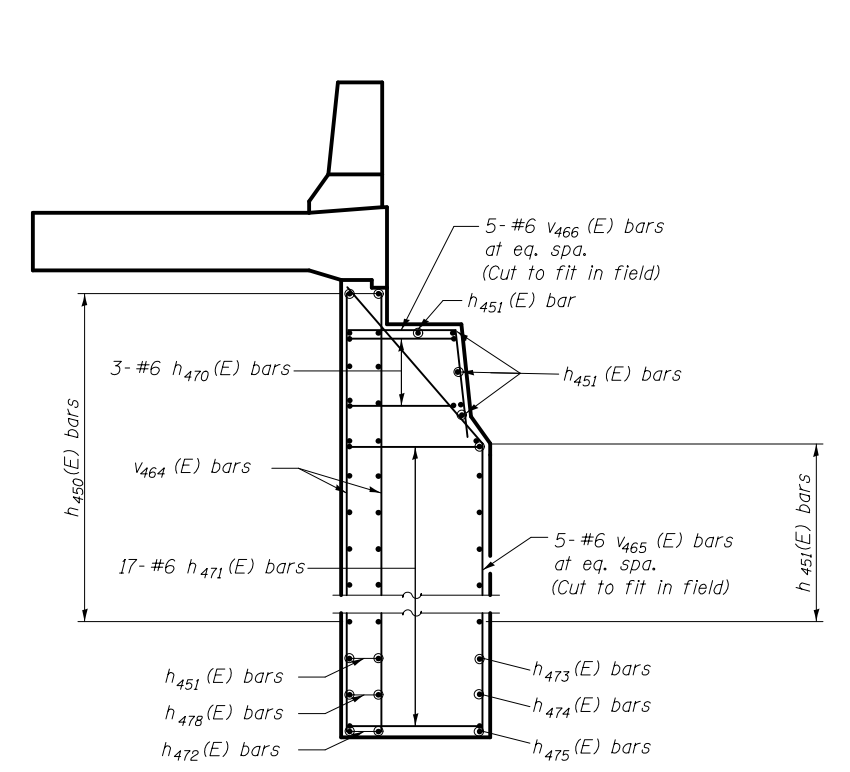
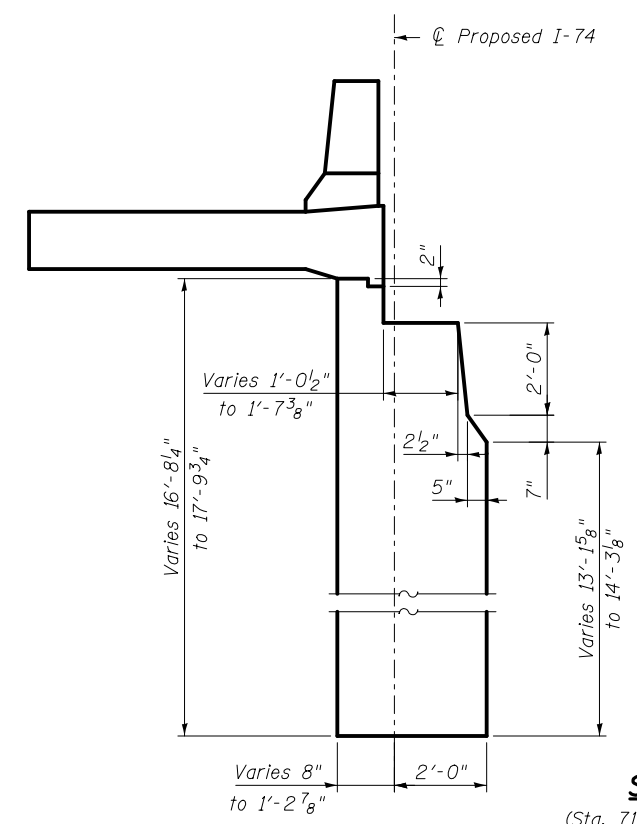
Notes:
 For Bill of Material, see Sheet 26
 For Soldier Pile Wall Layouts, see Sheets 8 thru 24.
 For location of Section A-A, see Sheet 8.
 For location of Sections B-B, C-C, D-D and E-E see Sheet 24.
 For parapet and anchorage slab reinforcement, see Section Thru Parapet, Anchorage Slab, and Concrete Facing on Sheet 5.



SECTION B-B
 (Sta. 72+07.15 to Sta. 72+42.51)
 Parapet and anchorage slab reinforcement not shown for clarity



SECTION C-C
 (Sta. 72+03.59 to Sta. 72+07.15)
 Parapet and anchorage slab reinforcement not shown for clarity



SECTION D-D
 (Sta. 71+99.54 to Sta. 72+03.59)
 Parapet and anchorage slab reinforcement not shown for clarity



USER NAME =	DESIGNED - ZJB	REVISED
PLOT SCALE =	CHECKED - ACK	REVISED
PLOT DATE = 03/23/2017	DRAWN - CMM	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

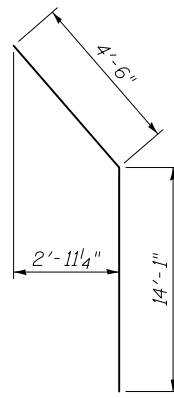
SOLDIER PILE WALL LAYOUT PLAN 18
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 25 OF 58 SHEETS

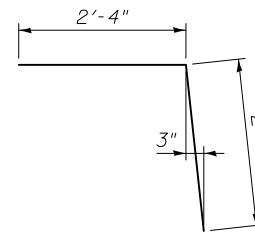
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1431
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

**SOLDIER PILE WALL
BILL OF MATERIAL**

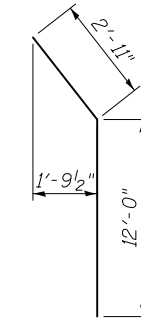
Bar	No.	Size	Length	Shape
h 450(E)	36	#6	8'-8"	—
h 451(E)	20	#6	7'-6"	—
h 452(E)	16	#6	39'-2"	—
h 453(E)	3	#6	31'-7"	—
h 454(E)	3	#6	28'-4"	—
h 455(E)	3	#6	25'-0"	—
h 456(E)	3	#6	21'-8"	—
h 457(E)	3	#6	18'-5"	—
h 458(E)	490	#6	33'-10"	—
h 459(E)	48	#6	14'-9"	—
h 460(E)	88	#6	23'-10"	—
h 461(E)	234	#6	29'-9"	—
h 462(E)	292	#6	18'-10"	—
h 463(E)	44	#6	19'-9"	—
h 464(E)	16	#6	20'-4"	—
h 465(E)	16	#6	26'-2"	—
h 466(E)	10	#6	26'-7"	—
h 467(E)	3	#6	15'-1"	—
h 468(E)	3	#6	11'-9"	—
h 469(E)	3	#6	8'-6"	—
h 470(E)	3	#6	6'-4"	▤
h 471(E)	17	#6	6'-11"	▤
h 472(E)	2	#6	9'-1"	—
h 473(E)	1	#6	6'-3"	—
h 474(E)	1	#6	2'-11"	—
h 475(E)	1	#6	7'-9"	—
h 476(E)	8	#6	26'-10"	—
h 477(E)	2	#6	36'-6"	—
h 478(E)	2	#6	4'-2"	—
h 479(E)	3	#6	5'-2"	—
h 480(E)	4	#6	17'-6"	—



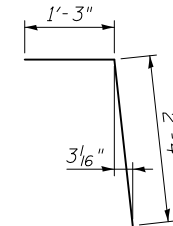
BAR V465 (E)



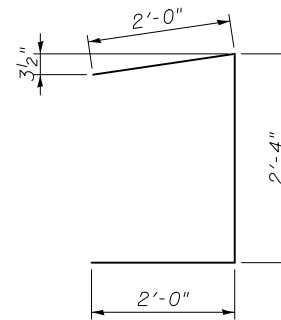
BAR V466 (E)



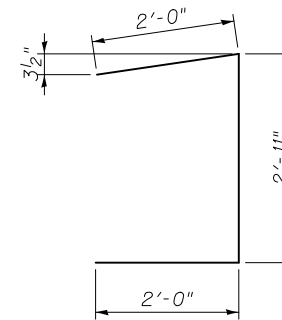
BAR V467 (E)



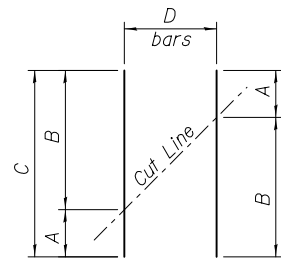
BAR V468 (E)



BAR h470 (E)



BAR h471 (E)



BAR CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face.

Bar	A	B	C	D
V 450 (E)	5'-5"	5'-8"	11'-1"	46
V 451 (E)	5'-8"	6'-3"	11'-11"	81
V 452 (E)	6'-3"	6'-8"	12'-11"	96
V 453 (E)	6'-8"	7'-0"	13'-8"	91
V 454 (E)	7'-0"	7'-3"	14'-3"	106
V 456 (E)	7'-3"	7'-1"	14'-4"	91
V 458 (E)	7'-0"	6'-6"	13'-6"	172
V 459 (E)	6'-6"	6'-1"	12'-7"	258
V 460 (E)	6'-1"	5'-6"	11'-7"	258
V 461 (E)	5'-6"	4'-8"	10'-2"	171
V 462 (E)	4'-8"	3'-2"	7'-10"	208
V 463 (E)	15'-3"	5'-5"	20'-8"	41
V 464 (E)	17'-8"	15'-3"	32'-11"	11

Note:
For Soldier Pile Wall Layouts,
see Sheets 8-25.

V 450(E)	46	#5	11'-1"	—
V 451(E)	81	#5	11'-11"	—
V 452(E)	96	#5	12'-11"	—
V 453(E)	91	#5	13'-8"	—
V 454(E)	106	#5	14'-3"	—
V 455(E)	504	#5	7'-3"	—
V 456(E)	91	#5	14'-4"	—
V 457(E)	164	#5	7'-0"	—
V 458(E)	172	#5	13'-6"	—
V 459(E)	258	#5	12'-7"	—
V 460(E)	258	#5	11'-7"	—
V 461(E)	171	#5	10'-2"	—
V 462(E)	208	#5	7'-10"	—
V 463(E)	41	#6	20'-8"	—
V 464(E)	11	#6	32'-11"	—
V 465(E)	10	#6	18'-7"	▤
V 466(E)	10	#6	4'-8"	▤
V 467(E)	13	#6	14'-11"	▤
V 468(E)	13	#6	3'-7"	▤
V 469(E)	19	#5	2'-1"	—

Structure Excavation	Cu. Yd.	1,268
Concrete Structures	Cu. Yd.	501.5
Stud Shear Connectors	Each	3,028
Reinforcement Bars, Epoxy Coated	Pound	80,930
Furnishing Soldier Piles (HP Section)	Ft.	5,492
Furnishing Soldier Piles (W Section)	Ft.	248
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	18,471
Untreated Timber Lagging	Sq. Ft.	9,081

MIN. BAR LAP

#6 bars - 3'-10"



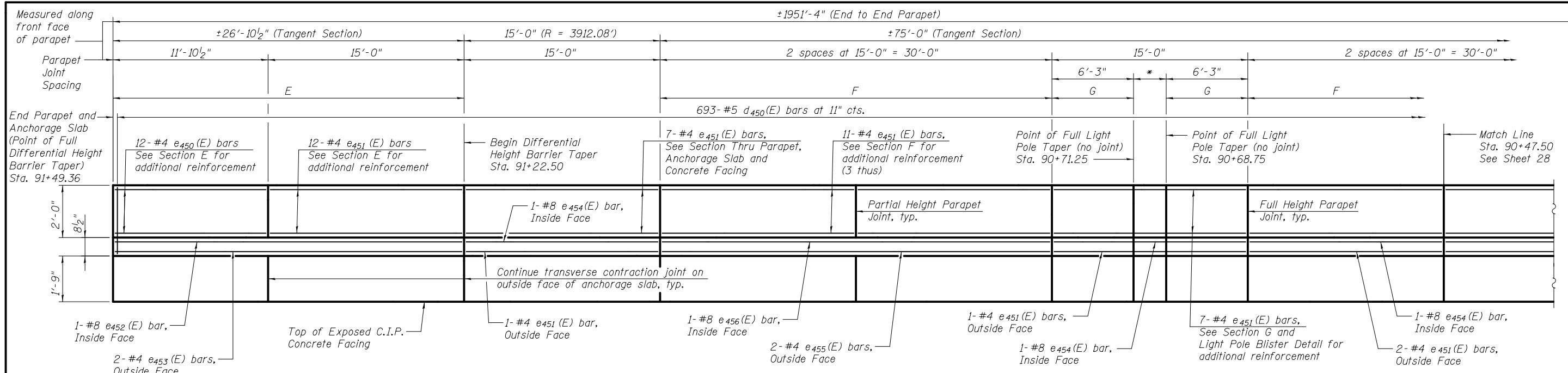
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
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SOLDIER PILE WALL LAYOUT PLAN 19
I-74 (EB)/(WB) RETAINING WALL 12

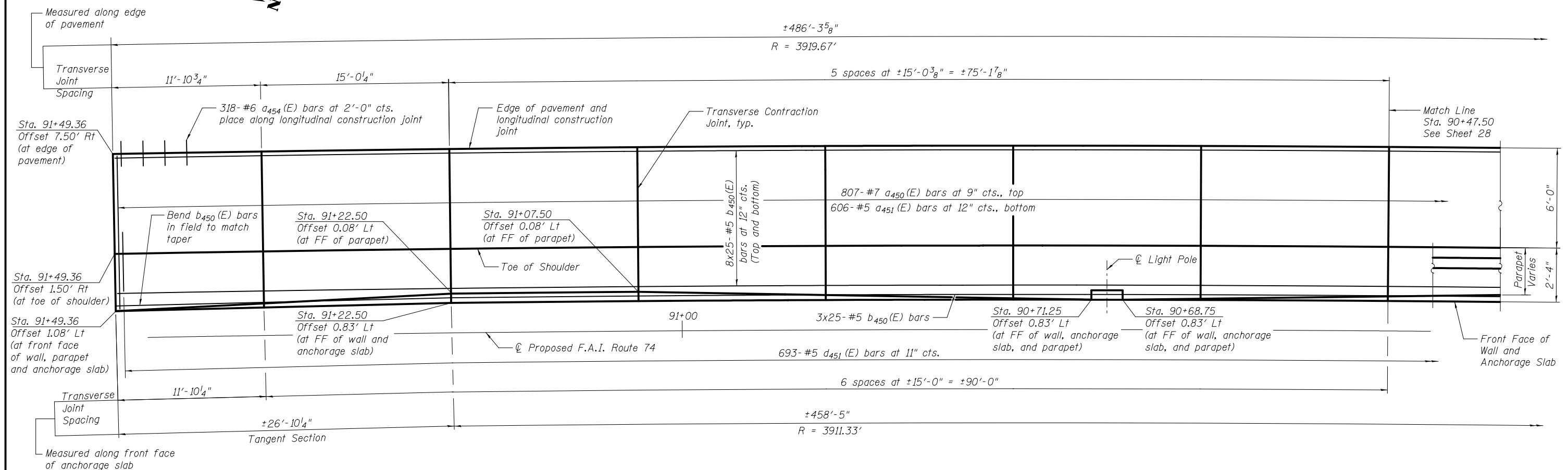
SHEET NO. 26 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1432
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	



PARTIAL OUTSIDE ELEVATION

* See Light Pole Blister Detail for additional reinforcement



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Bars indicated thus 8x25-#5 etc. indicates 8 lines of bars with 25 lengths per line.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \varnothing Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections E, F, and G, see Sheet 46.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



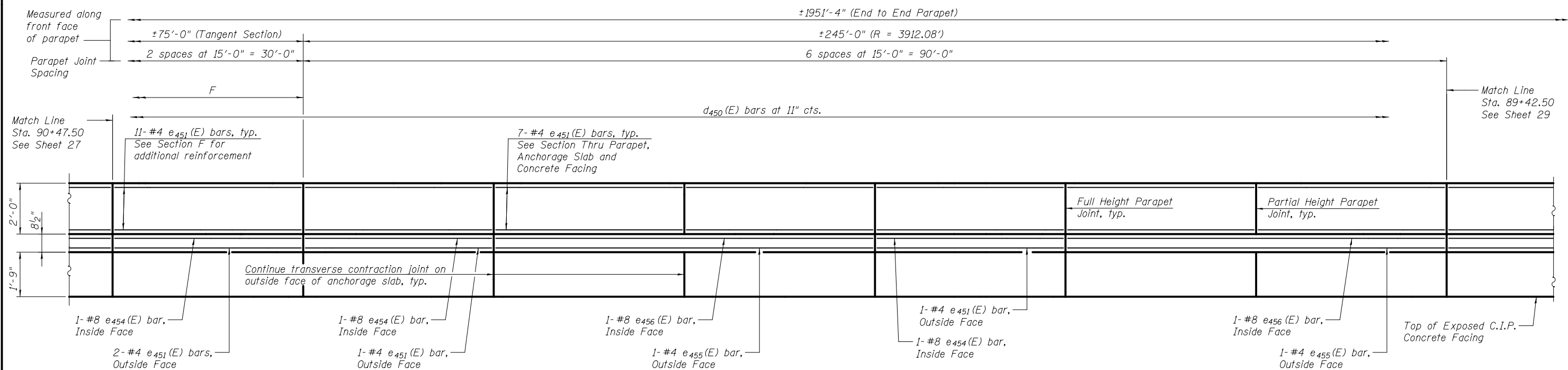
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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

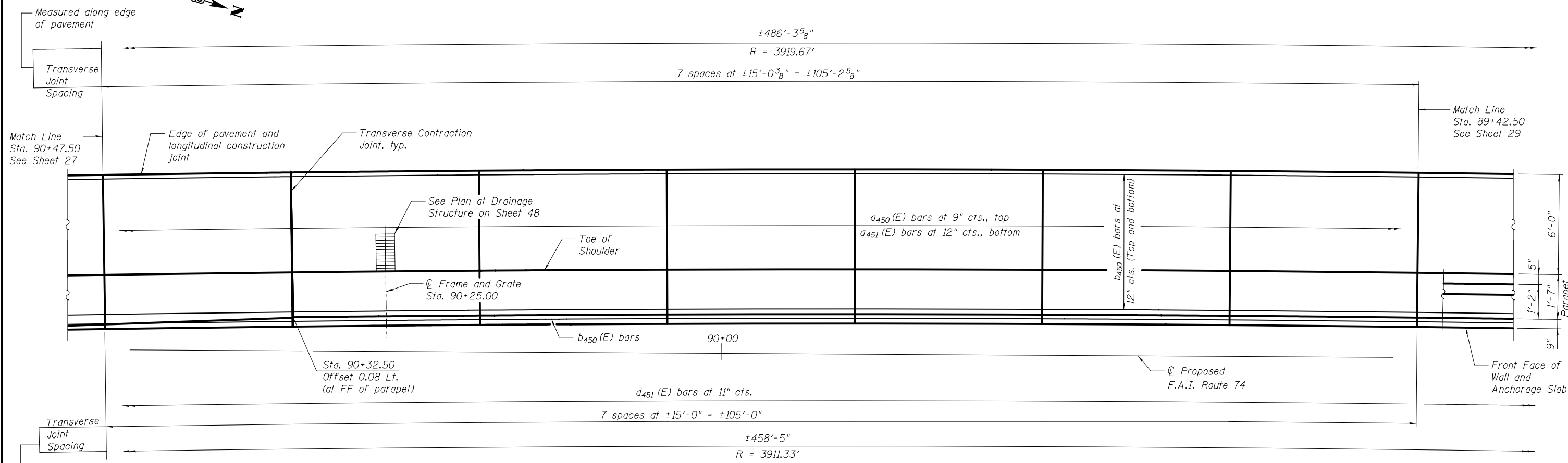
PARAPET AND ANCHORAGE SLAB 1
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 27 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1433
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \varnothing Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Section F, see Sheet 46.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



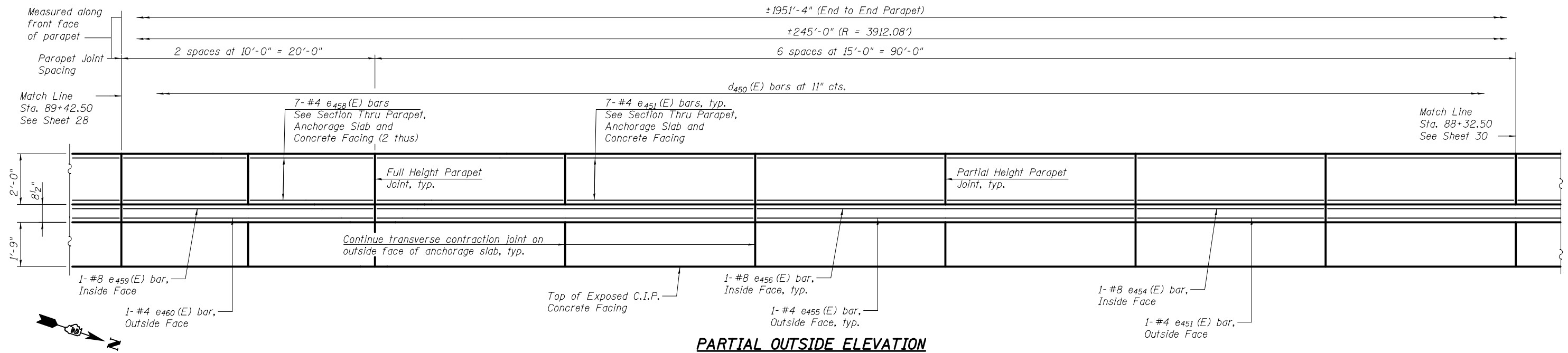
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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

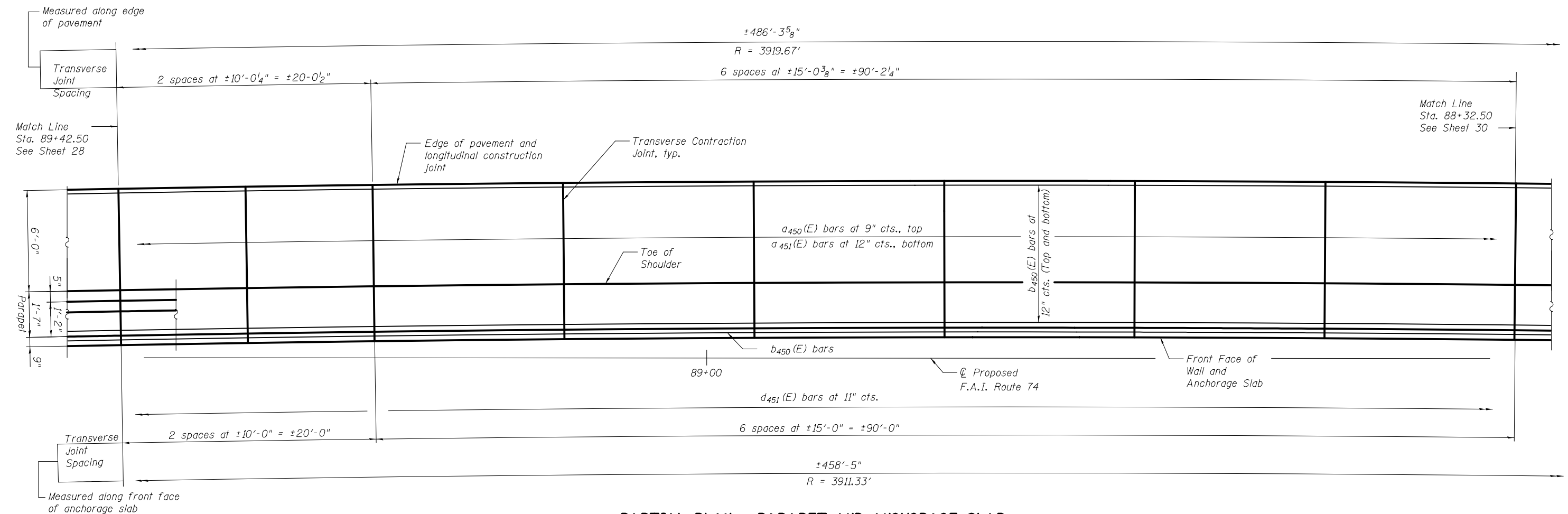
PARAPET AND ANCHORAGE SLAB 2
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 28 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1434
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \hat{C} Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



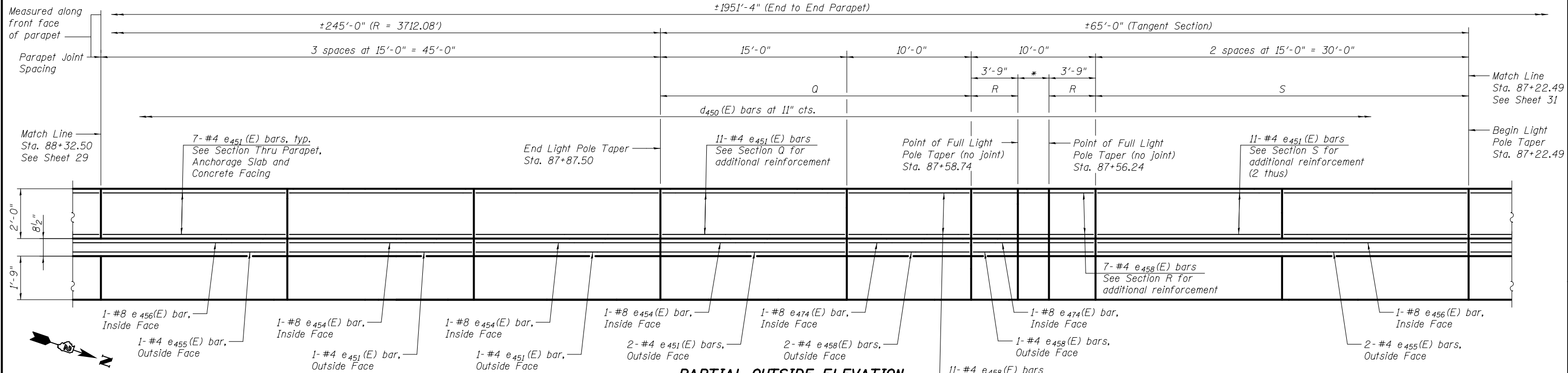
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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

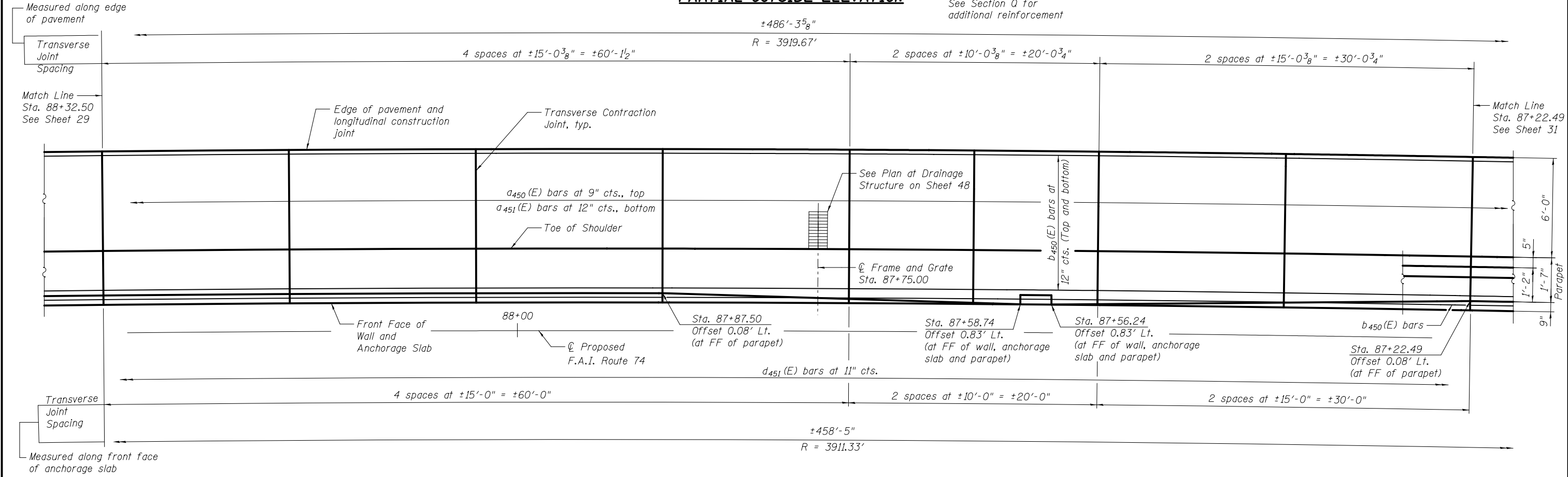
PARAPET AND ANCHORAGE SLAB 3
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 29 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1435
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

* See Light Pole Blister Detail for additional reinforcement

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \varnothing Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections Q, R, and S, see Sheet 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



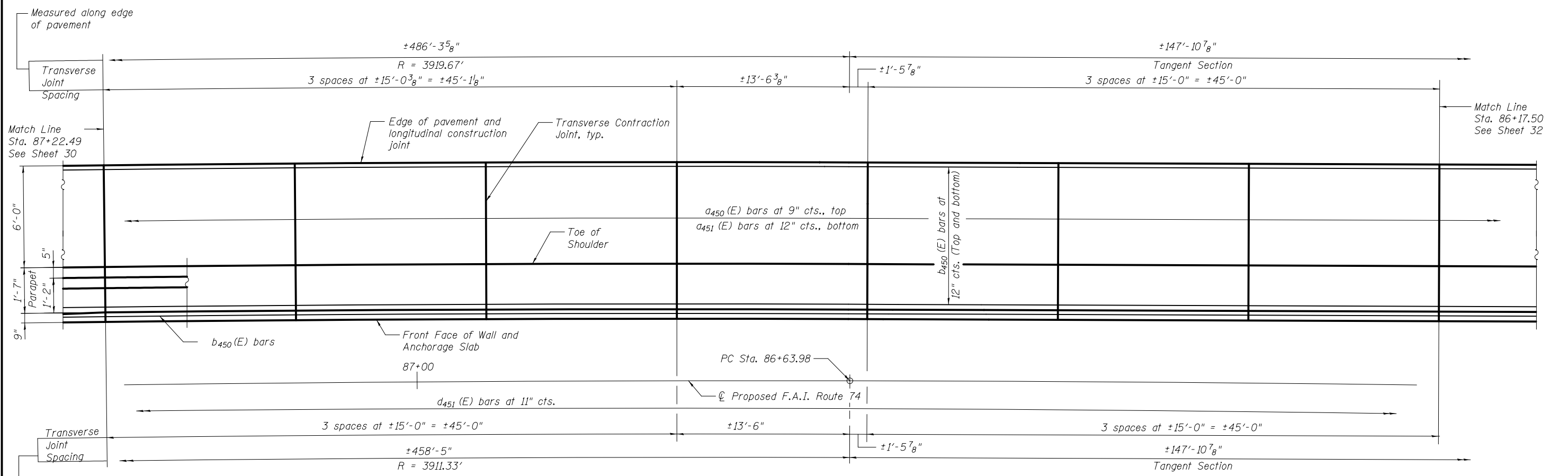
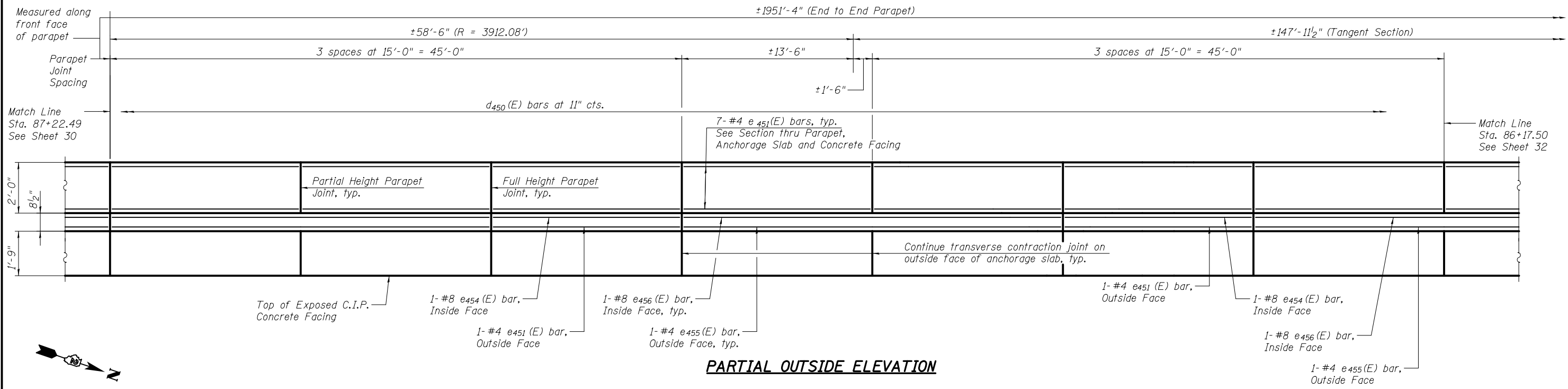
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB 4
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 30 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1436
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Notes:

For Bill of Material, see Sheet 48.

Stations and offsets on this sheet are given to the front face of wall and are measured from the C Proposed F.A.I. Route I-74, except as noted.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.

Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



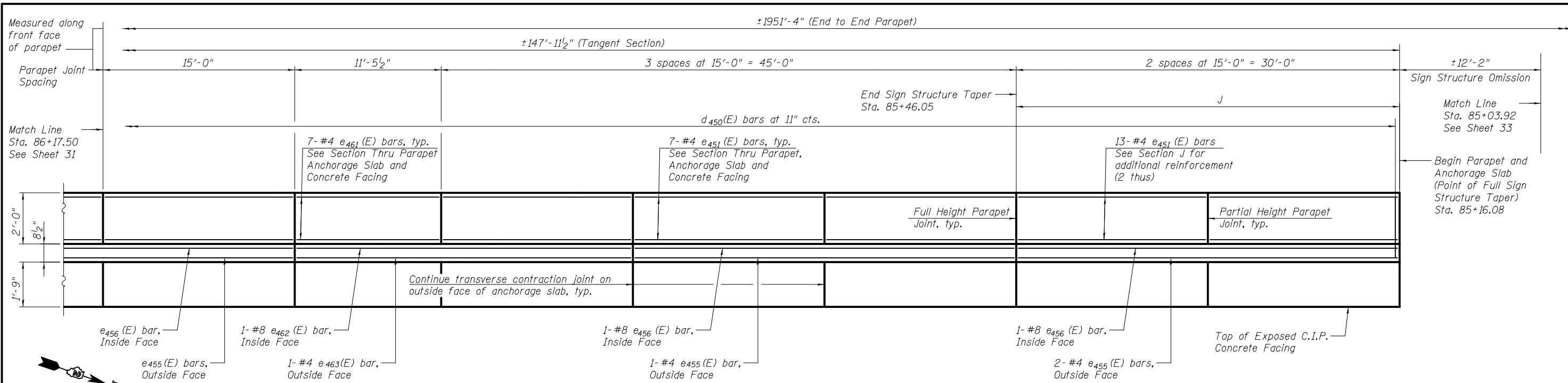
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

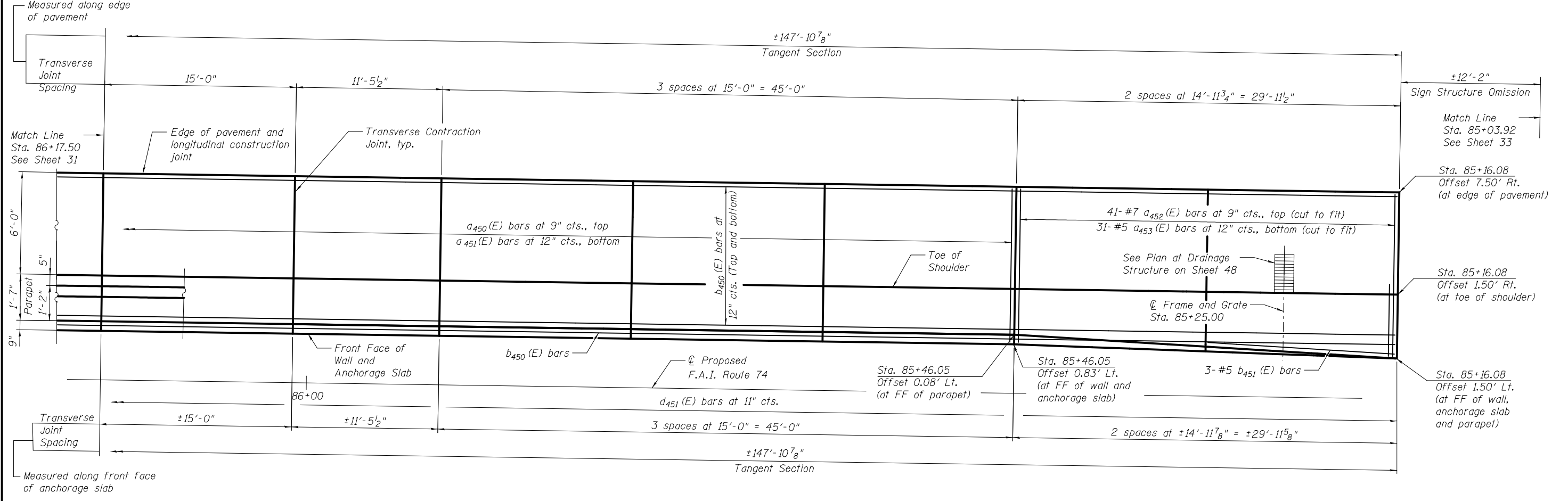
PARAPET AND ANCHORAGE SLAB 5
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 31 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1437
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \varnothing Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Section J, see Sheet 46.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



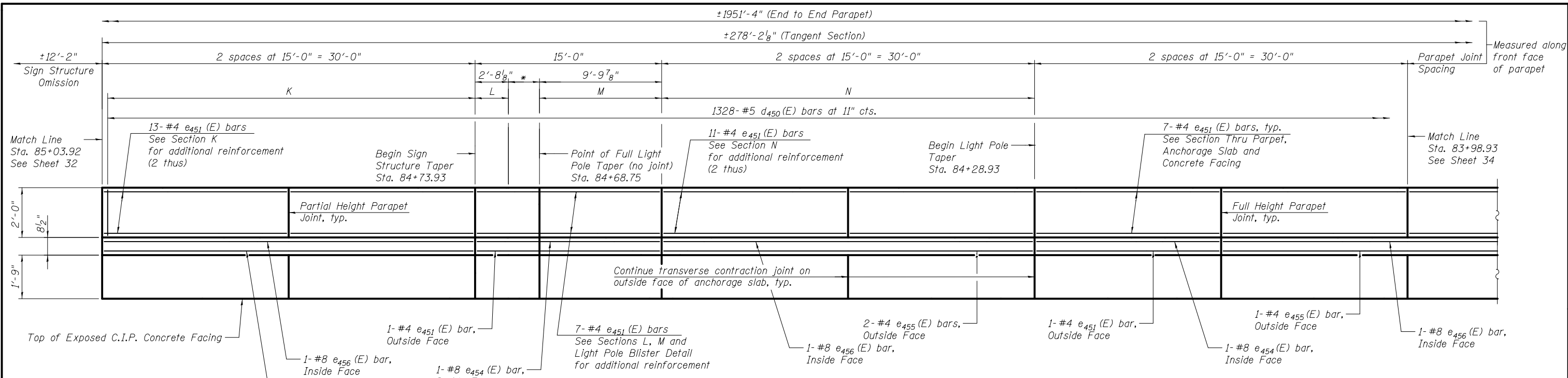
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

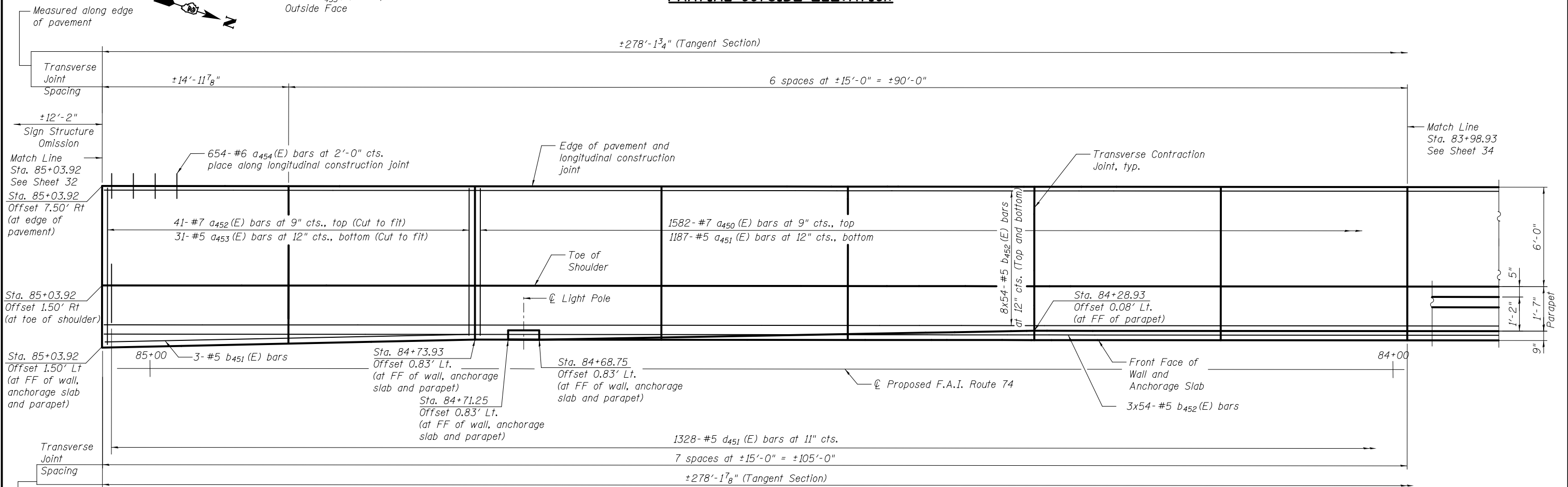
PARAPET AND ANCHORAGE SLAB 6
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 32 OF 58 SHEETS

F.A.I. RTE. 74	SECTION (81-11R-1)	COUNTY ROCK ISLAND	TOTAL SHEETS 2042	SHEET NO. 1438
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Bars indicated thus 8x54-#5 etc. indicates 8 lines of bars with 54 lengths per line.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the $\text{\textcircled{C}}$ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections K, L, M and N, see Sheets 46 and 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.

* See Light Pole Blister Detail for additional reinforcement



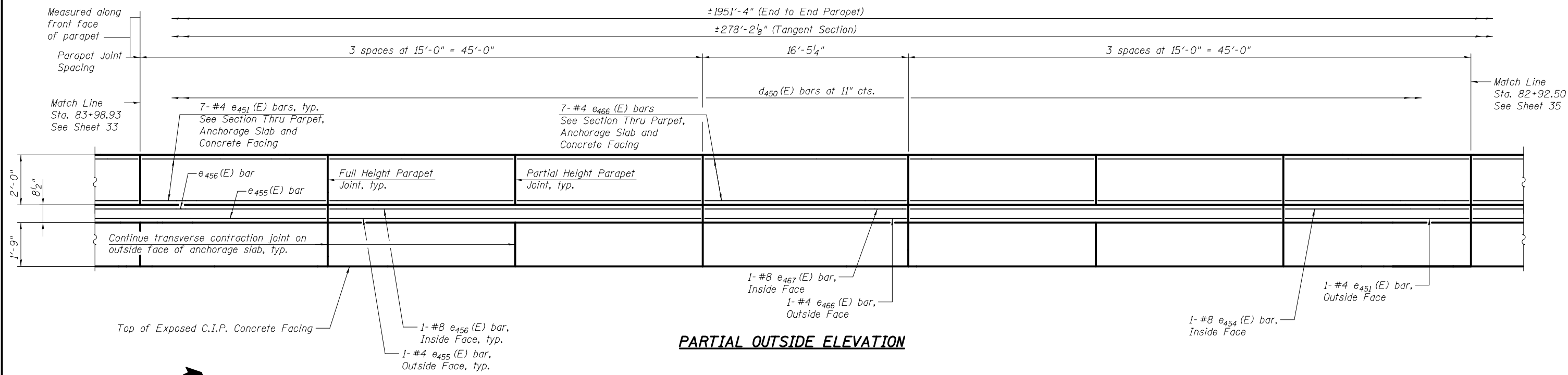
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	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

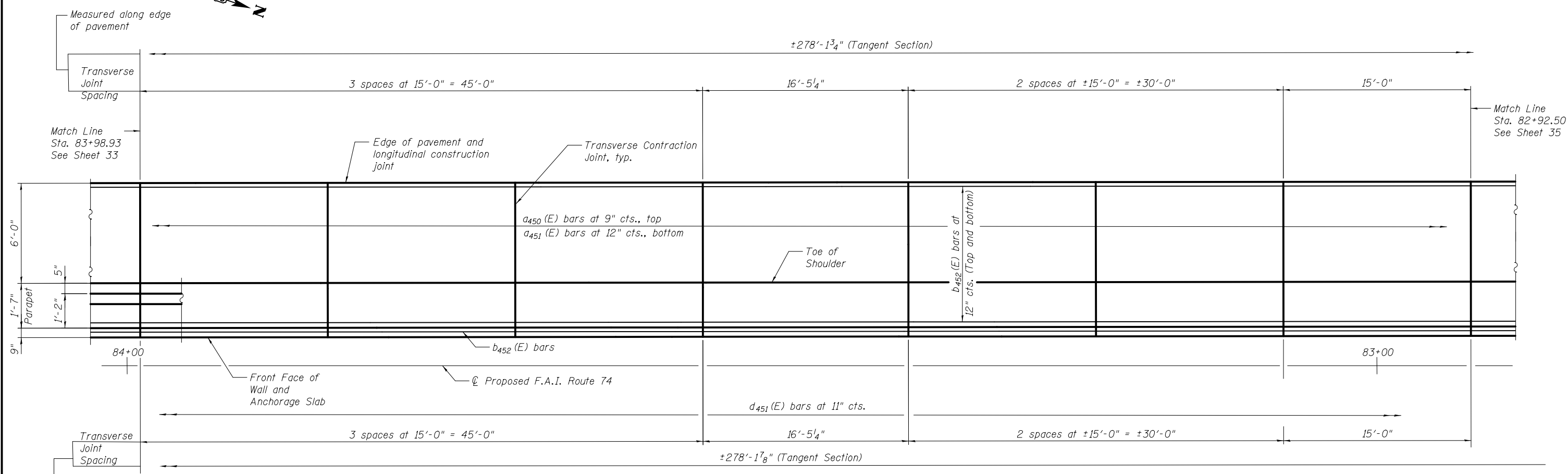
PARAPET AND ANCHORAGE SLAB 7
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 33 OF 58 SHEETS

F.A.I. RTE. = 74	SECTION = (81-1)R-1	COUNTY = ROCK ISLAND	TOTAL SHEETS = 2042	SHEET NO. = 1439
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ϕ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



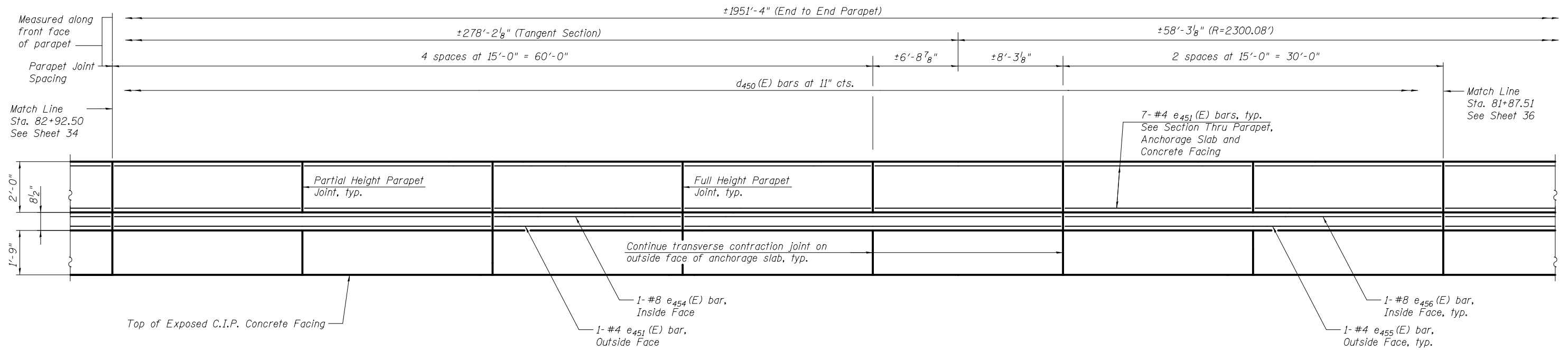
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	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

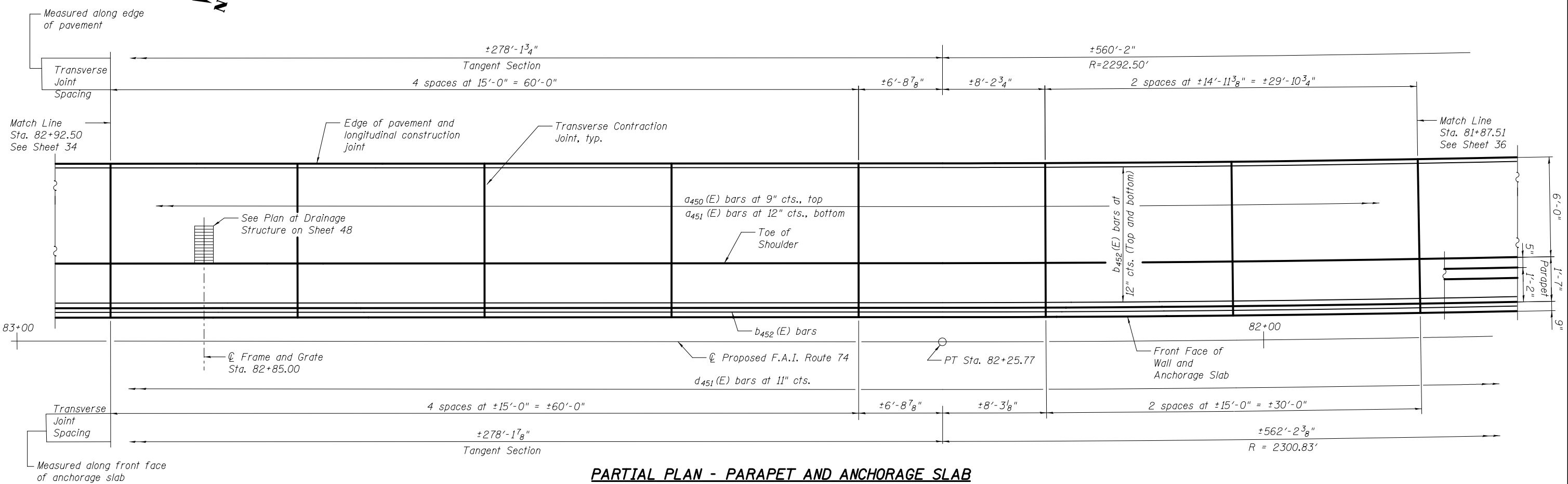
PARAPET AND ANCHORAGE SLAB 8
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 34 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1440
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the $\text{\textcircled{C}}$ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

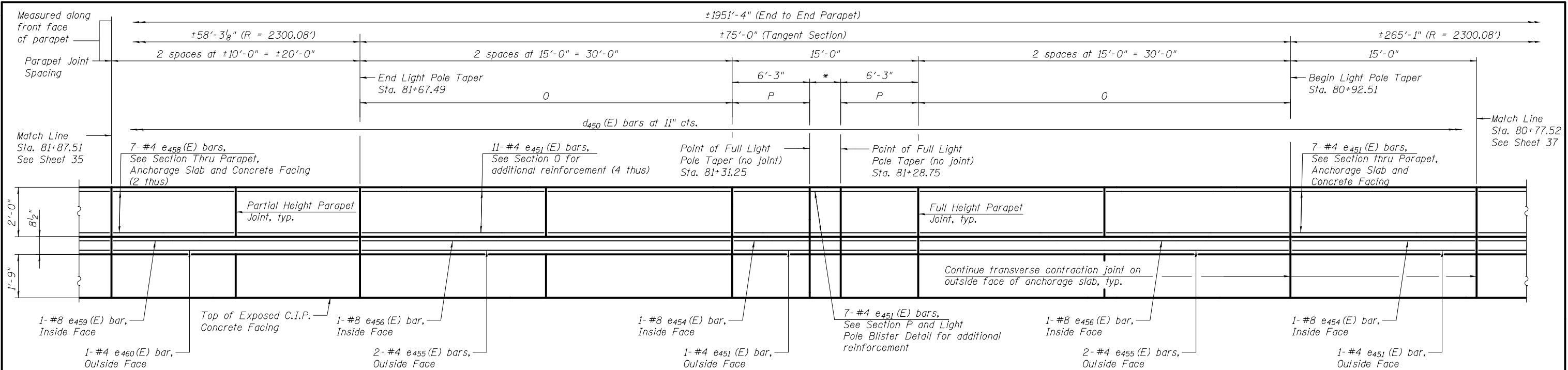
STATE OF ILLINOIS
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PARAPET AND ANCHORAGE SLAB 9
 I-74 (EB)/(WB) RETAINING WALL 12

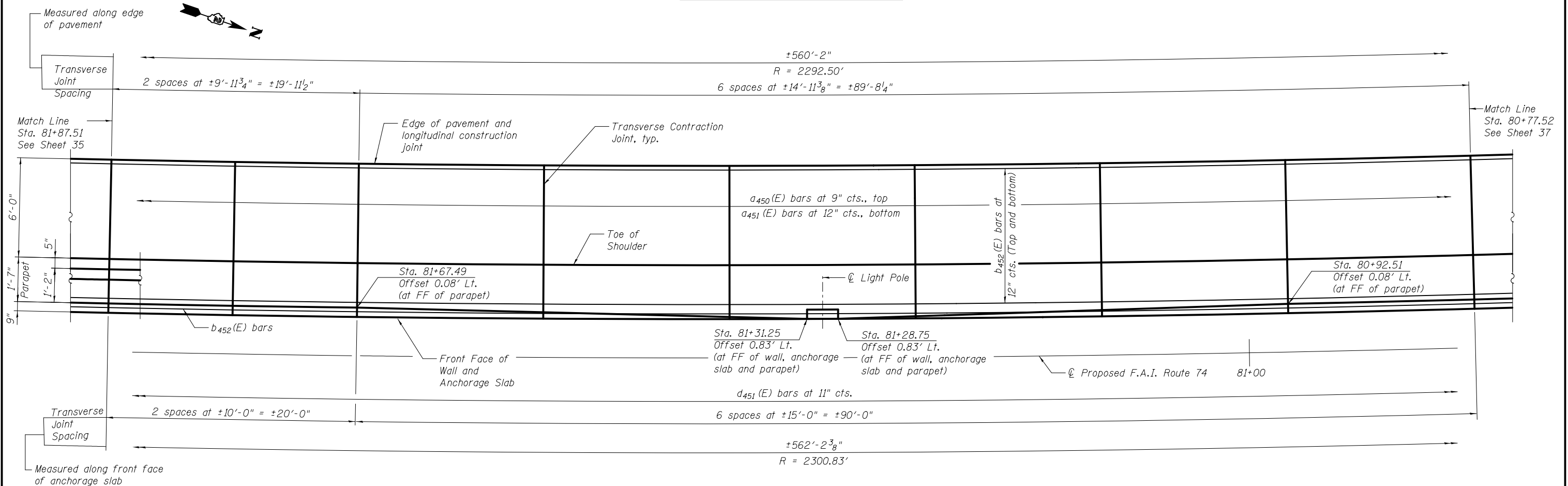
SHEET NO. 35 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1441
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

* See Light Pole Blister Detail for additional reinforcement

Notes:

For Bill of Material, see Sheet 48.
 Stations O and P, see Sheet 5.
 For Sections O and P, see Sheet 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections O and P, see Sheet 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



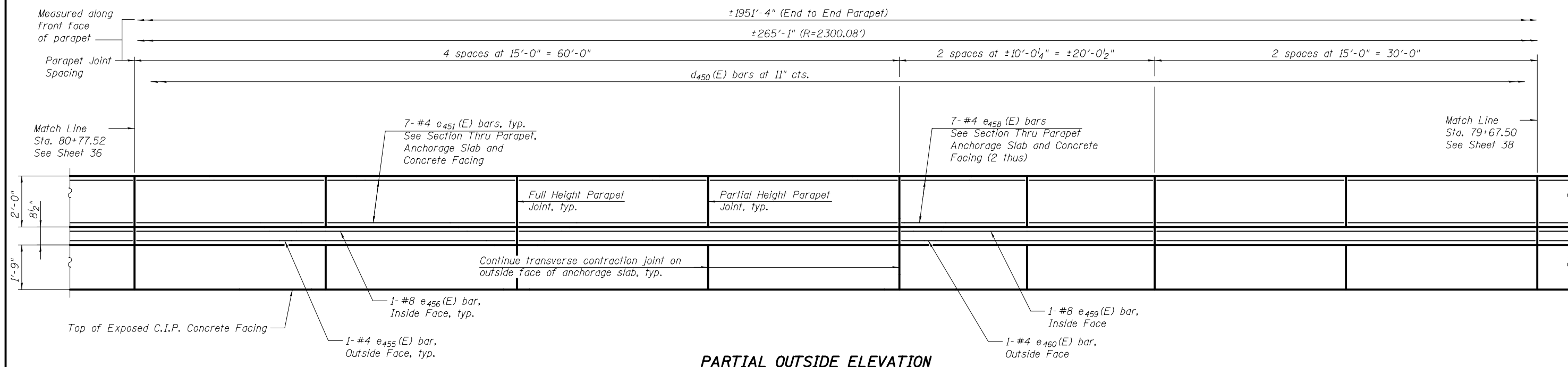
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

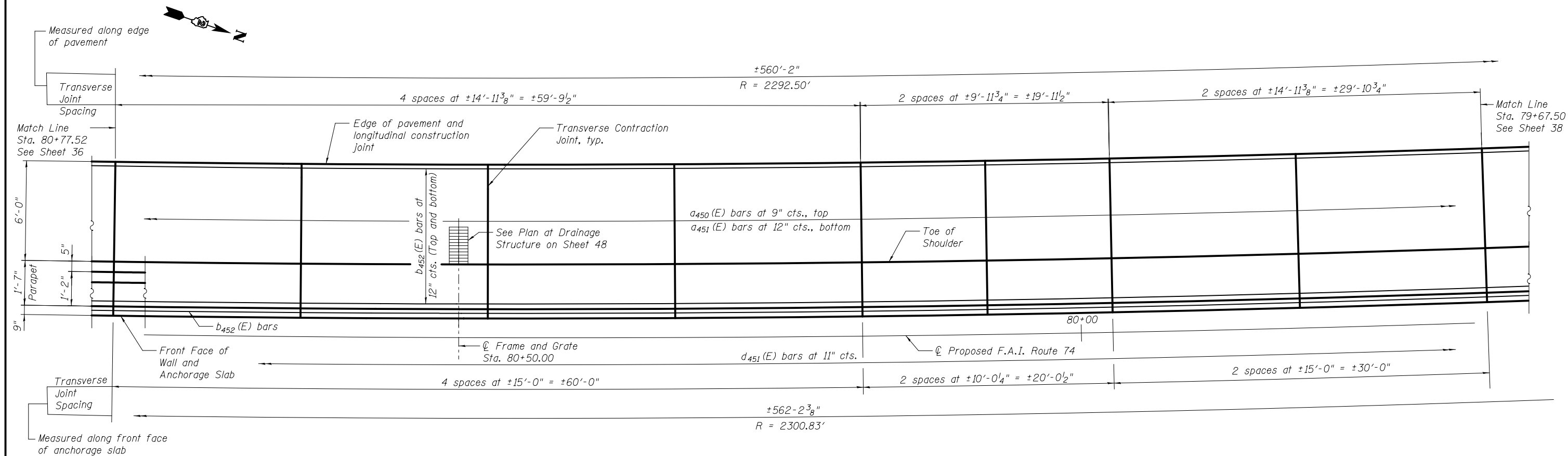
PARAPET AND ANCHORAGE SLAB 10
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 36 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1442
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ∅ Proposed F.A.I. Route 1-74, except as noted.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



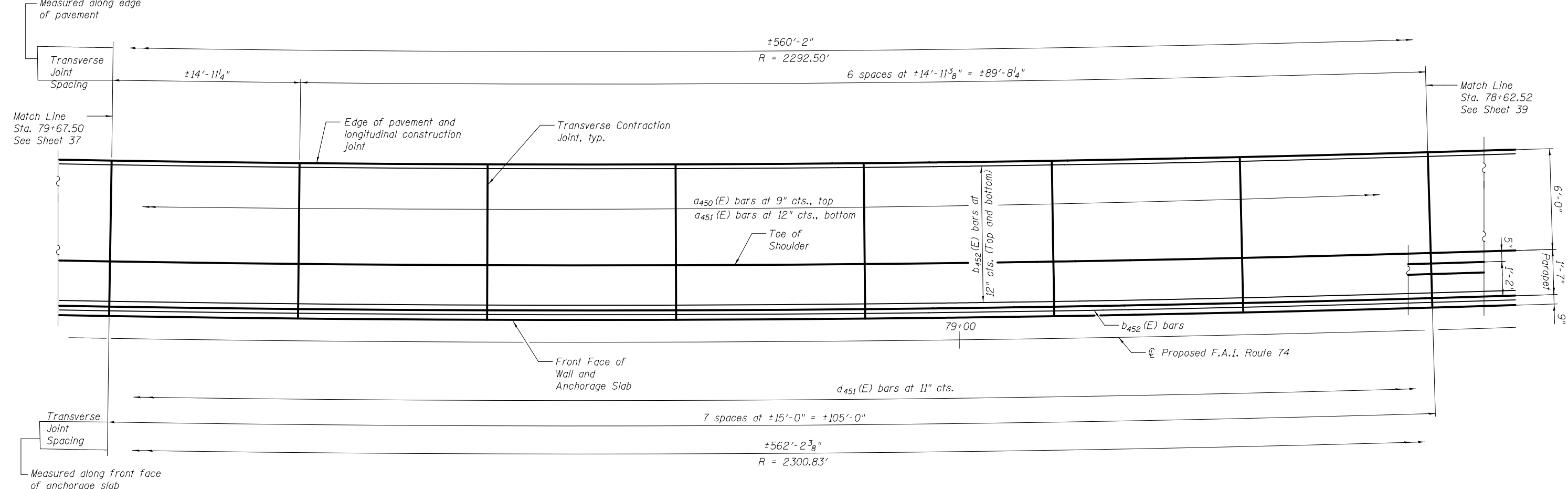
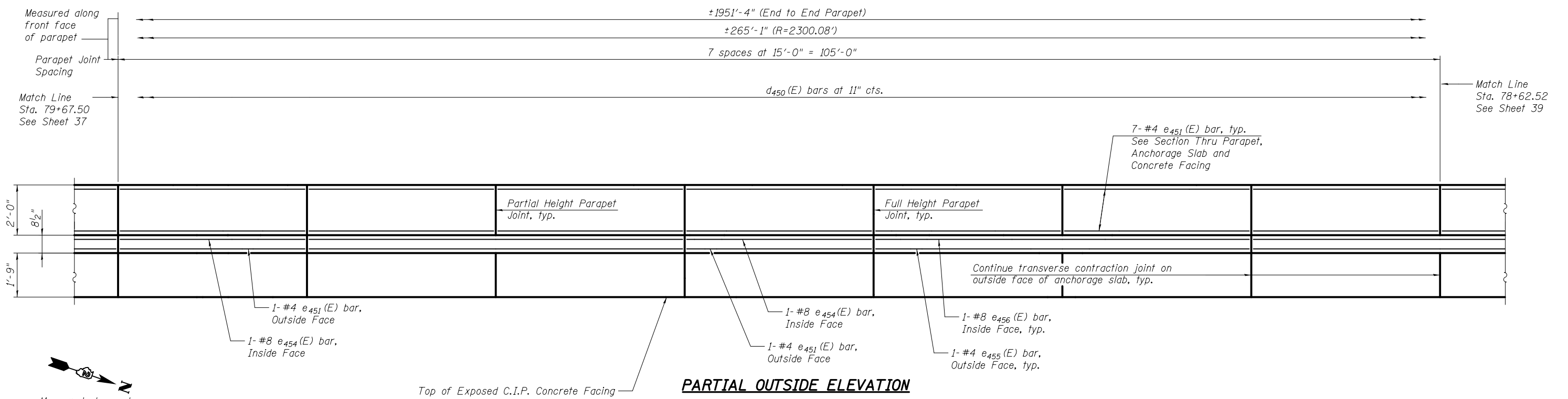
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB 11
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 37 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1443
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Notes:

For Bill of Material, see Sheet 48.

Stations and offsets on this sheet are given to the front face of wall and are measured from the \hat{C} Proposed F.A.I. Route I-74, except as noted.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.

Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



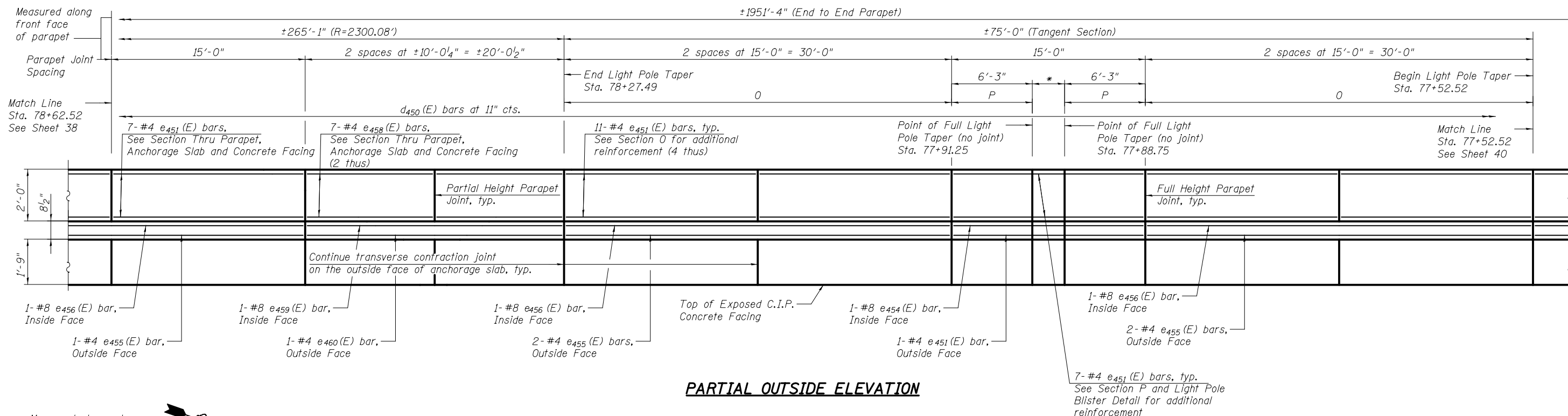
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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

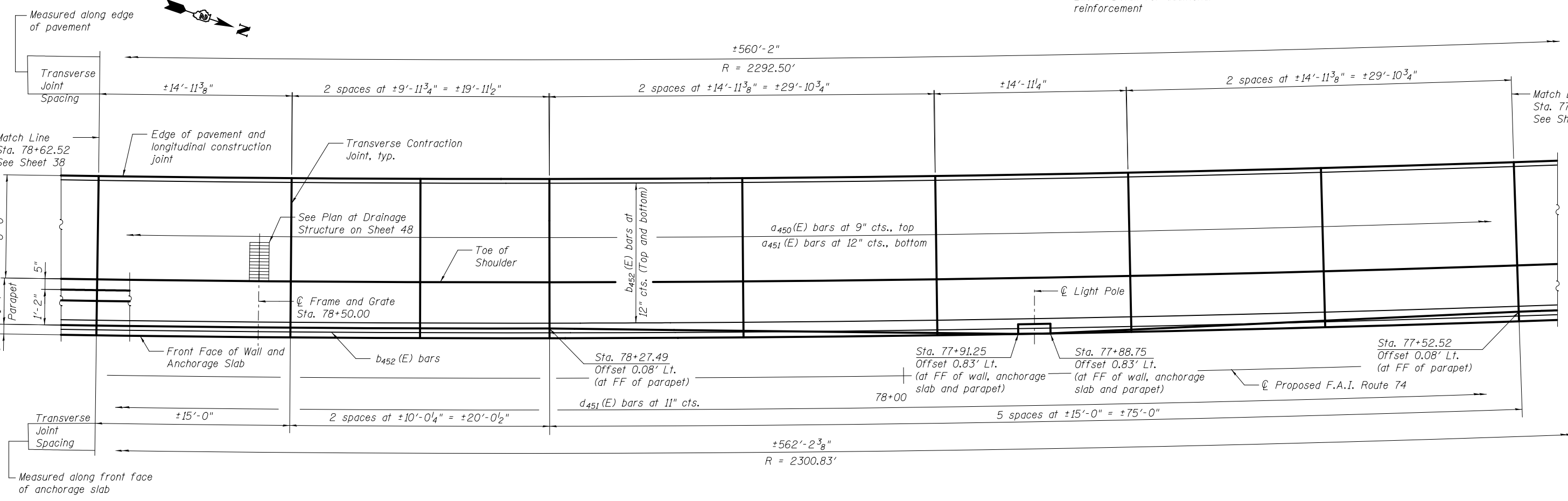
PARAPET AND ANCHORAGE SLAB 12
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 38 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1444
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

* See Light Pole Blister Detail for additional reinforcement

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ϕ Proposed F.A.I. Route 1-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections O and P, see Sheet 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



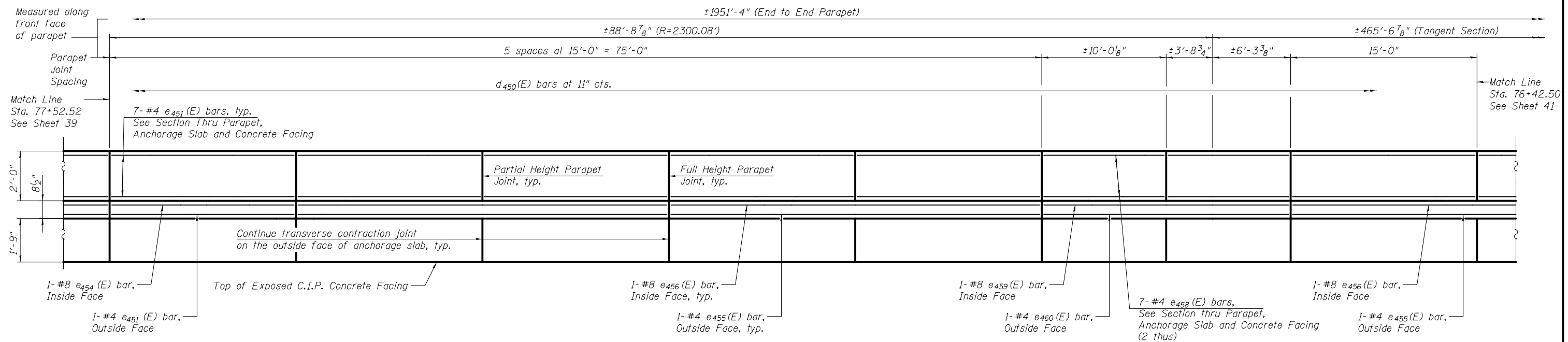
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

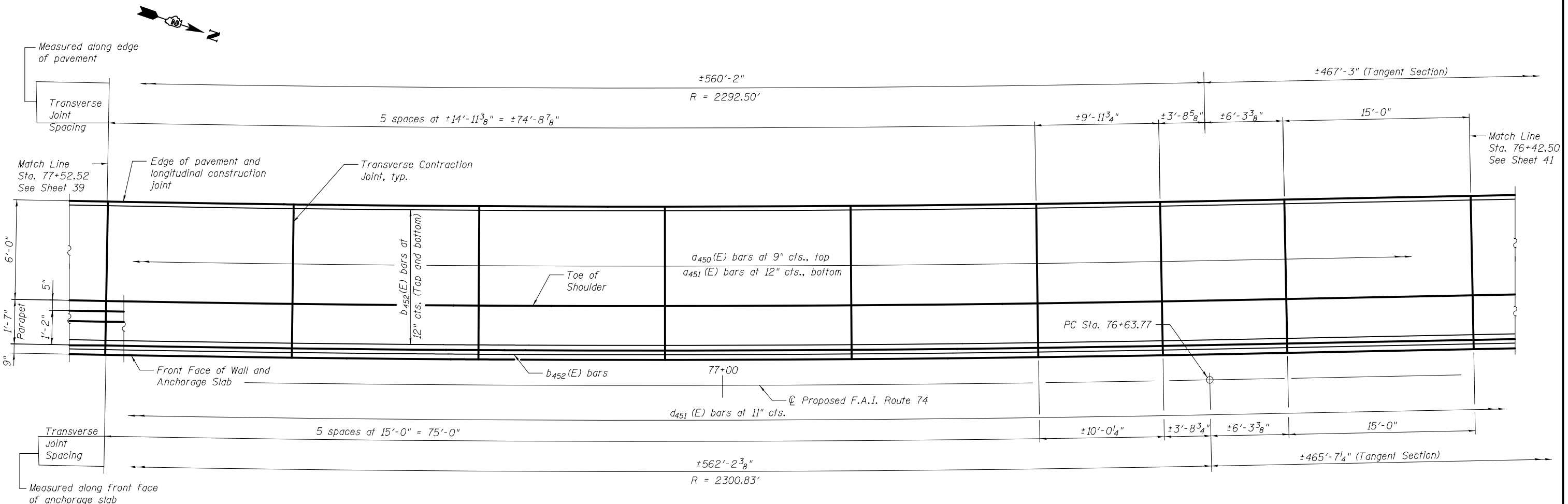
PARAPET AND ANCHORAGE SLAB 13
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 39 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1445
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:

For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ϕ Proposed F.A.I. Route I-74, except as noted.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



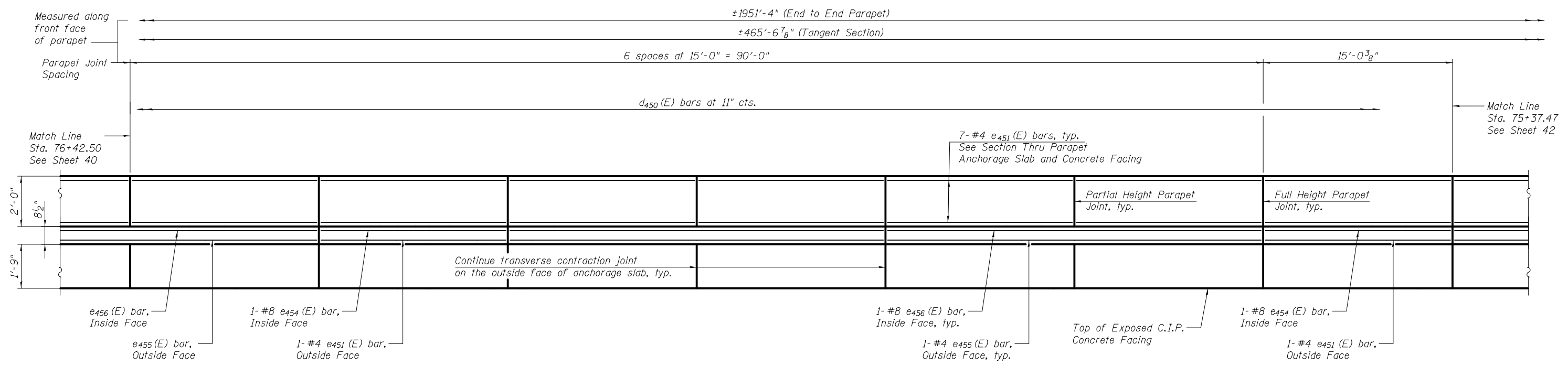
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

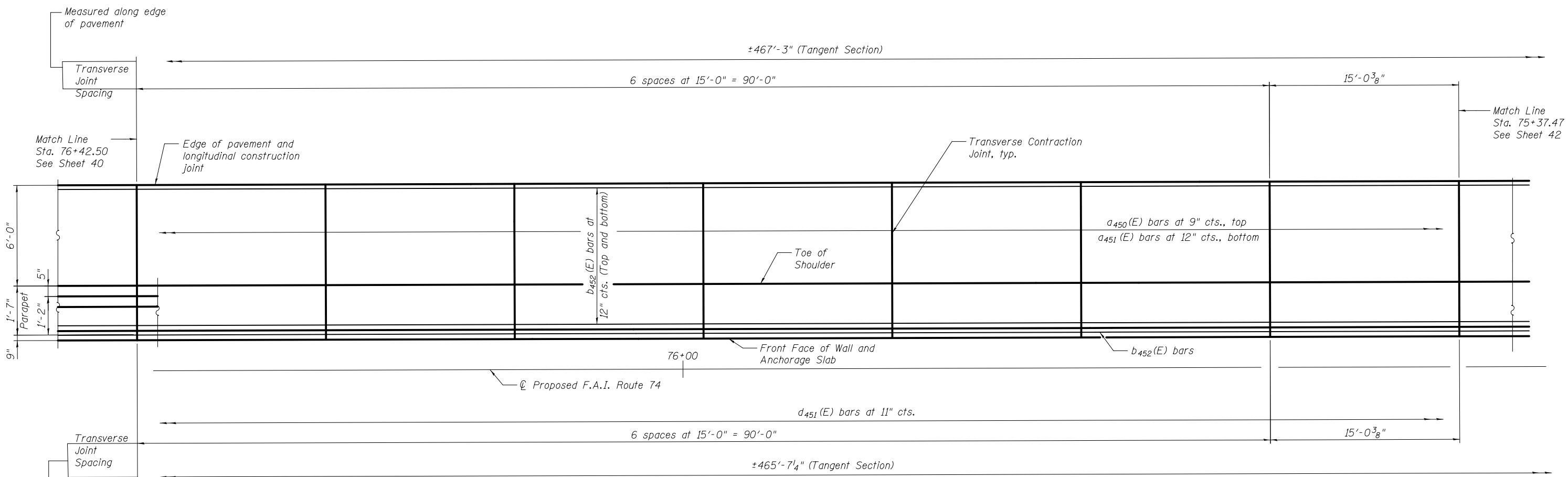
**PARAPET AND ANCHORAGE SLAB 14
 I-74 (EB)/(WB) RETAINING WALL 12**

SHEET NO. 40 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1446
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the \varnothing Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



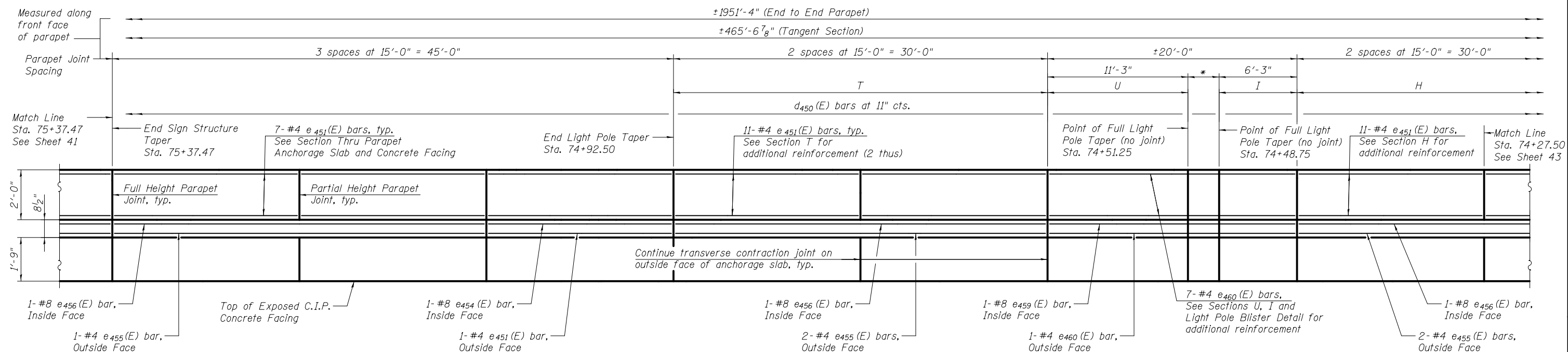
USER NAME =	DESIGNED - ZJB	REVISED
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PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

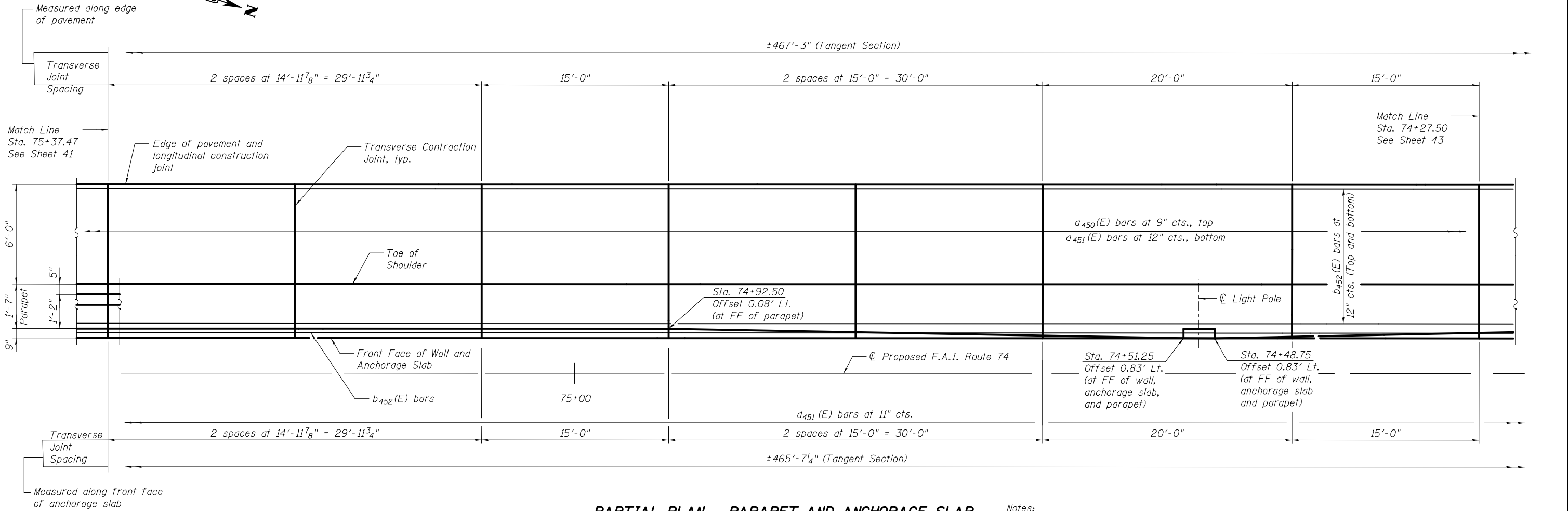
PARAPET AND ANCHORAGE SLAB 15
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 41 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1447
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

* See Light Pole Blister Detail for additional reinforcement

Notes:
 For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ϕ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Sections H, I, T, and U, see Sheets 46 and 47.
 For Light Pole Blister Detail, see Sheet 49.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



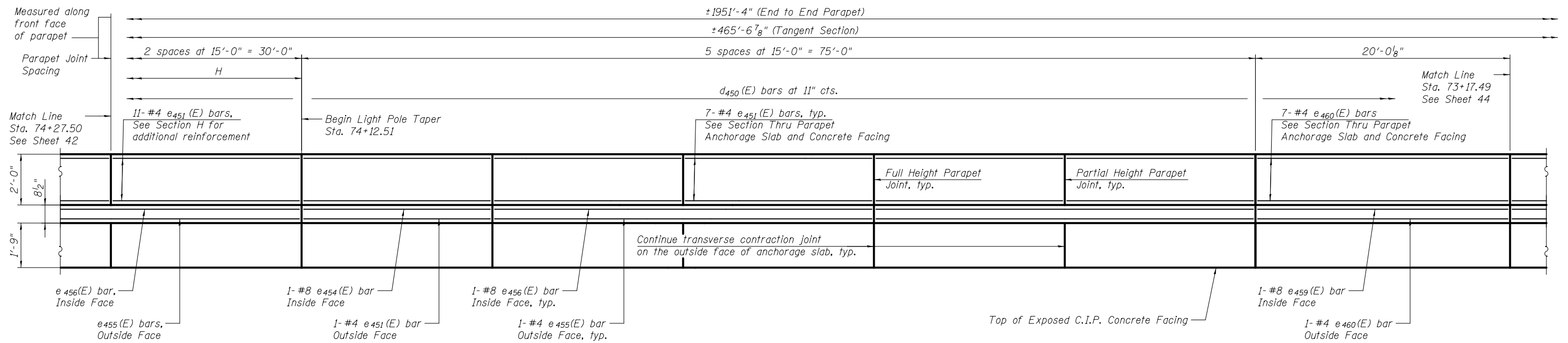
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

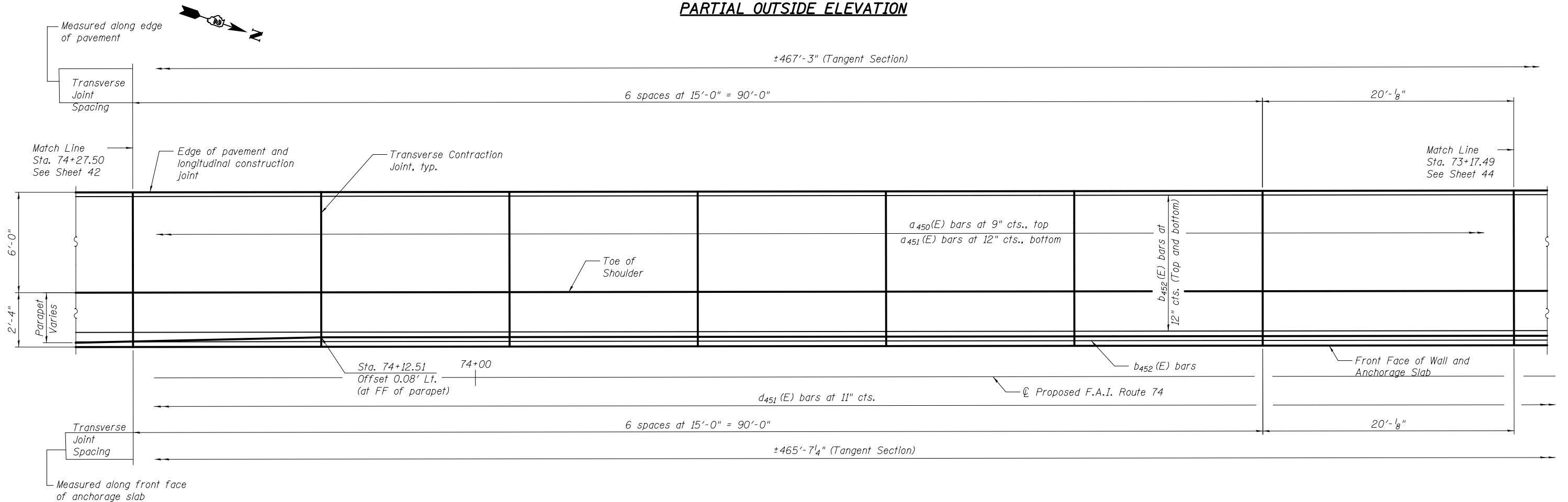
PARAPET AND ANCHORAGE SLAB 16
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 42 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1448
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:

For Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the $\text{\textcircled{C}}$ Proposed F.A.I. Route I-74, except as noted.

For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 For Section H, see Sheet 46.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



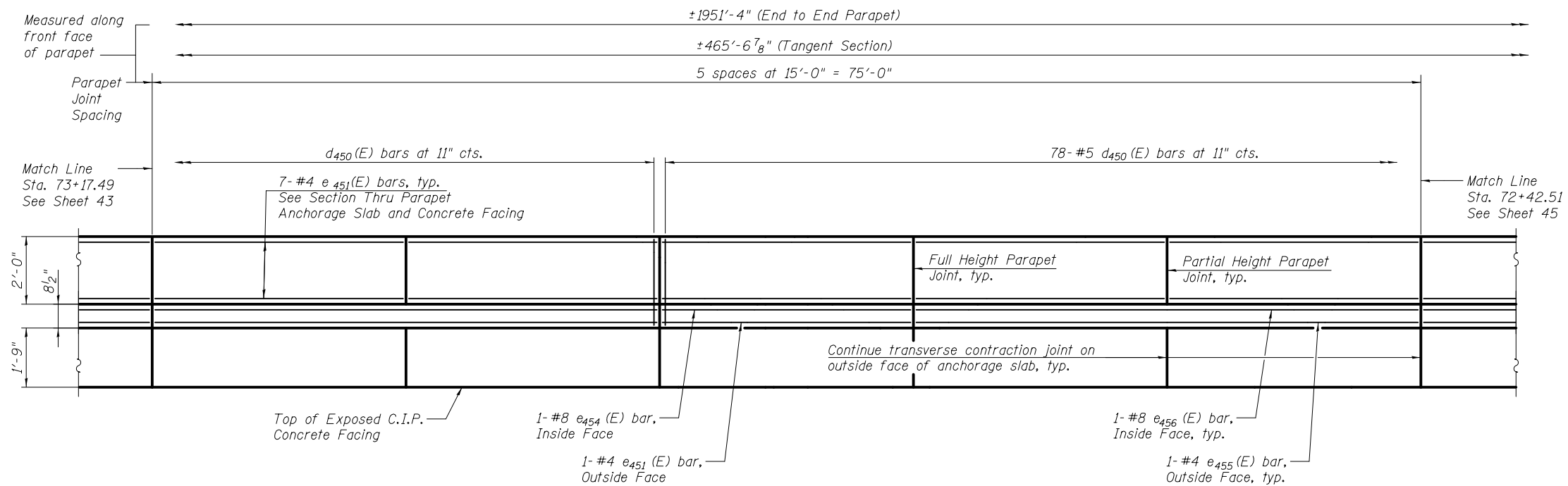
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

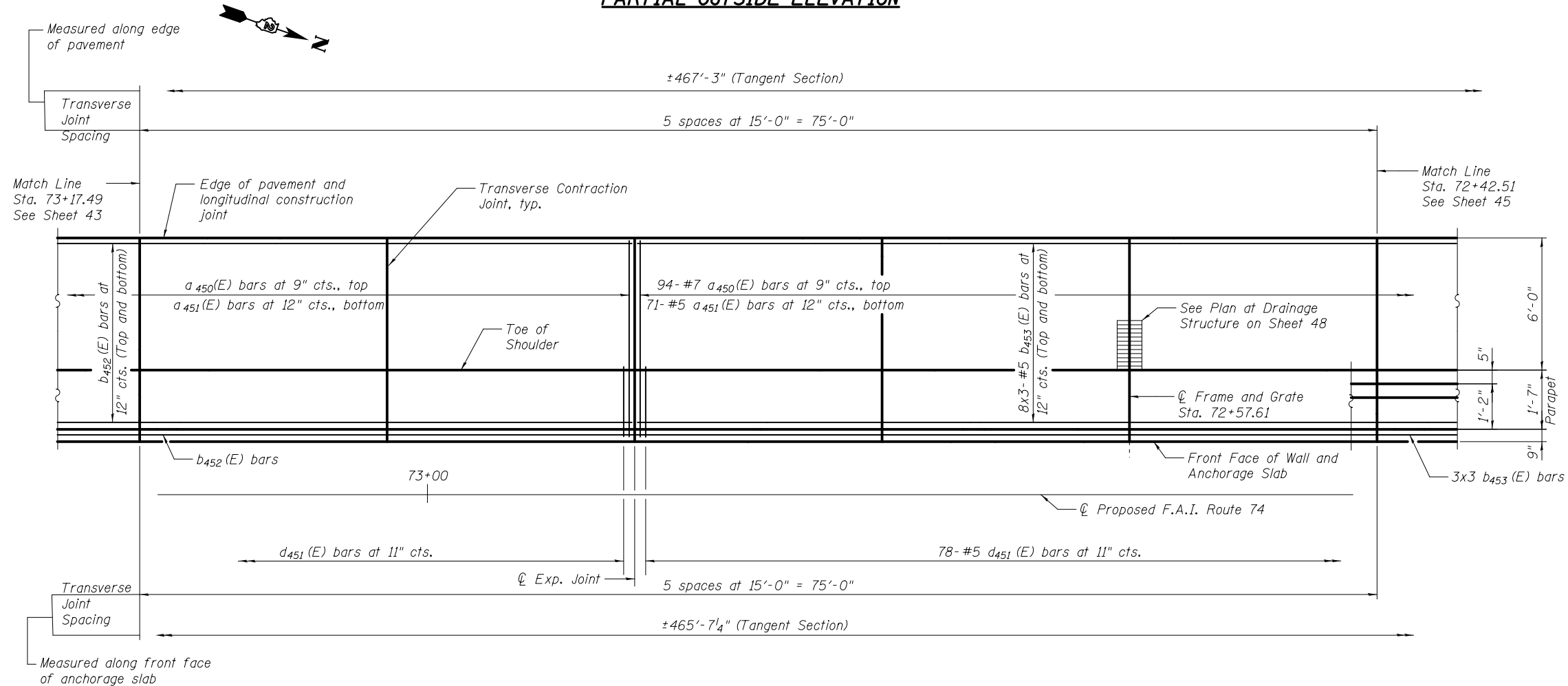
PARAPET AND ANCHORAGE SLAB 17
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 43 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1449
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



PARTIAL OUTSIDE ELEVATION



PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB

Notes:
 For Bill of Material, see sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the ϕ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

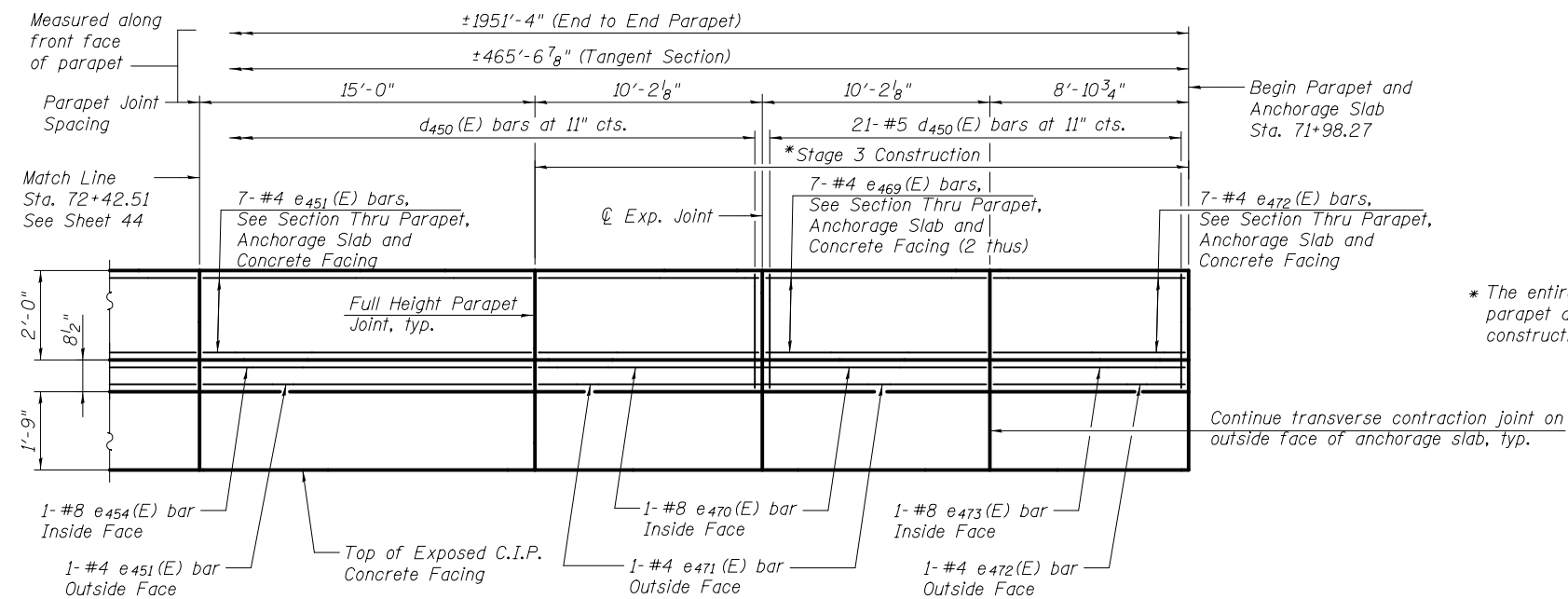
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB 18
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 44 OF 58 SHEETS

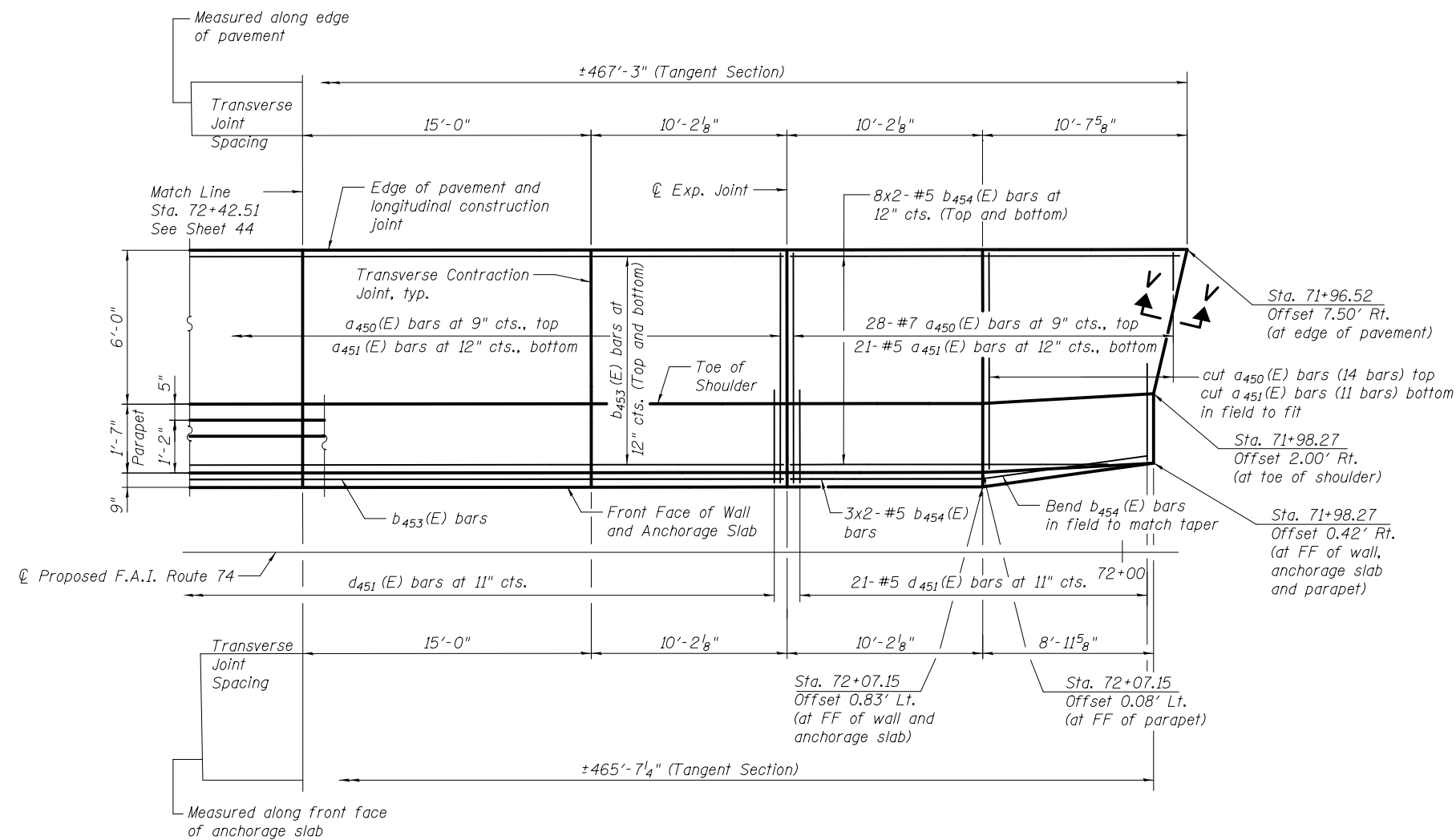
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1450
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



* The entire retaining wall will be constructed during Stage 2 except for a portion of the parapet and anchorage slab which will be constructed during Stage 3 to accommodate construction of SN 081-0183.

PARTIAL OUTSIDE ELEVATION



Notes:
 For Section V-V and Bill of Material, see Sheet 48.
 Stations and offsets on this sheet are given to the front face of wall and are measured from the $\text{\textcircled{C}}$ Proposed F.A.I. Route I-74, except as noted.
 For typical reinforcement see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.

PARTIAL PLAN - PARAPET AND ANCHORAGE SLAB



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

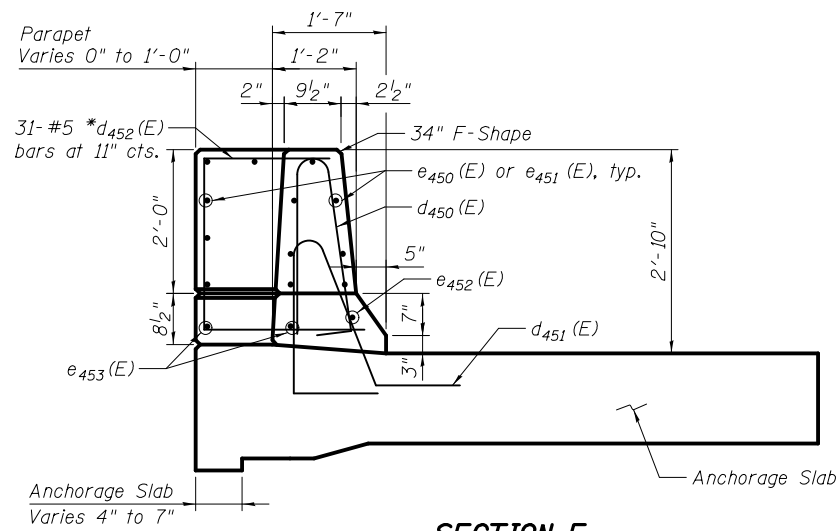
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB 19
 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 45 OF 58 SHEETS

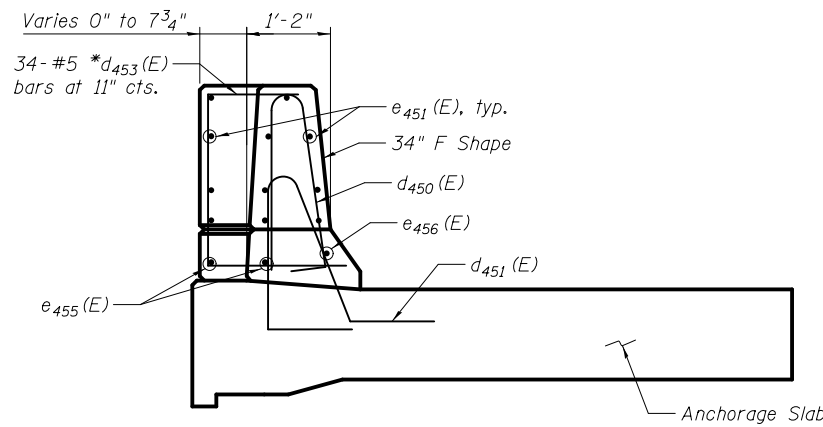
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1451
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



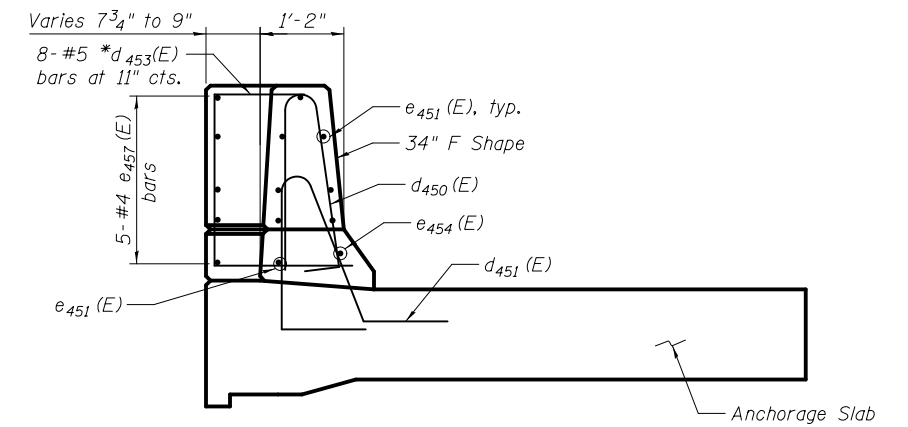
SECTION E

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.
Dimensions typical for 34" F-shape Parapet.



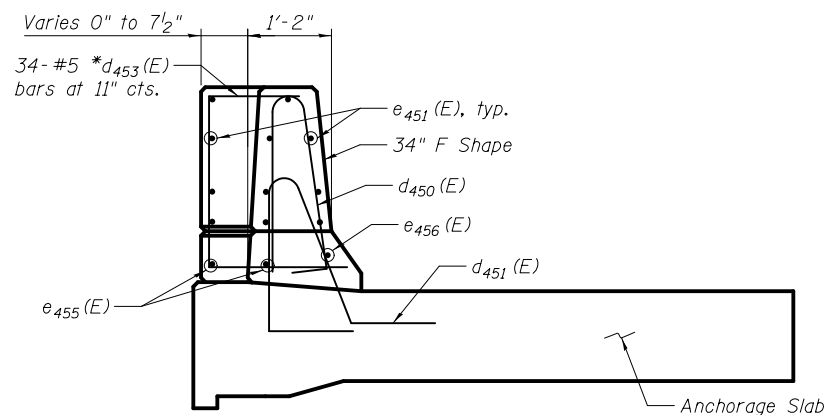
SECTION F

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



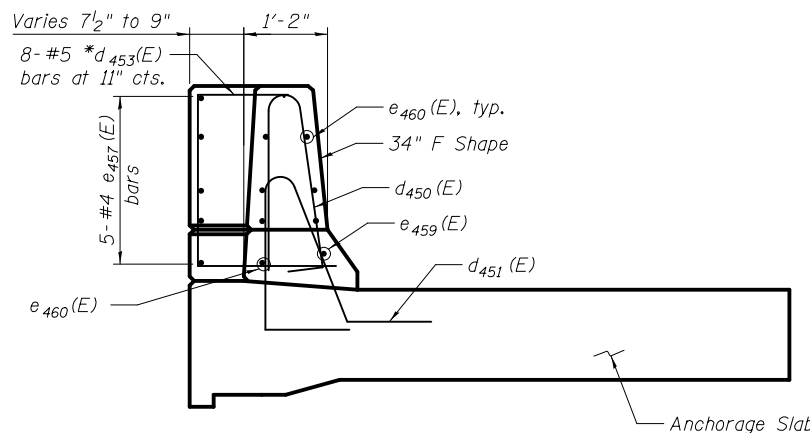
SECTION G

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



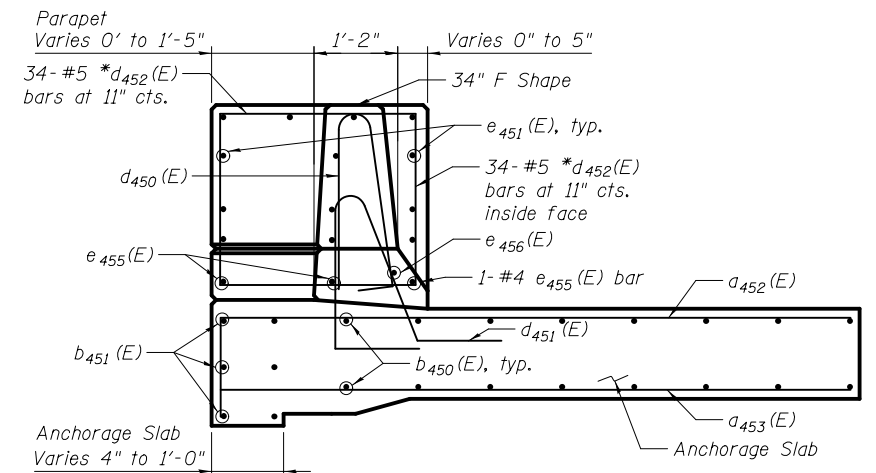
SECTION H

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



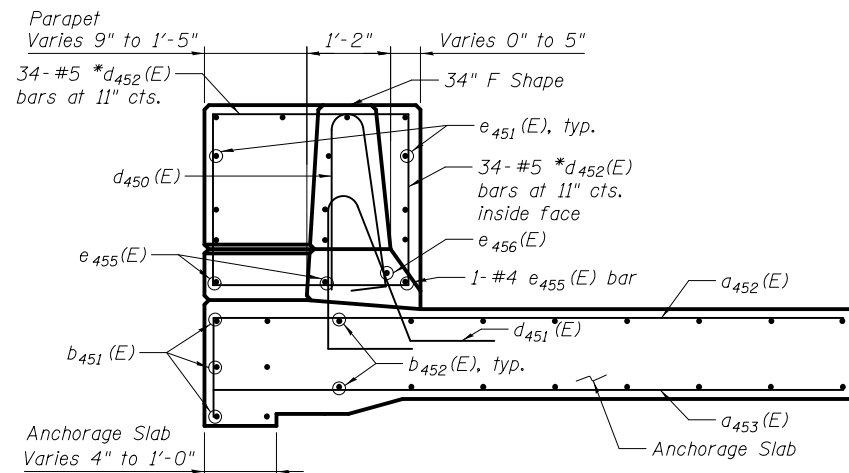
SECTION I

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



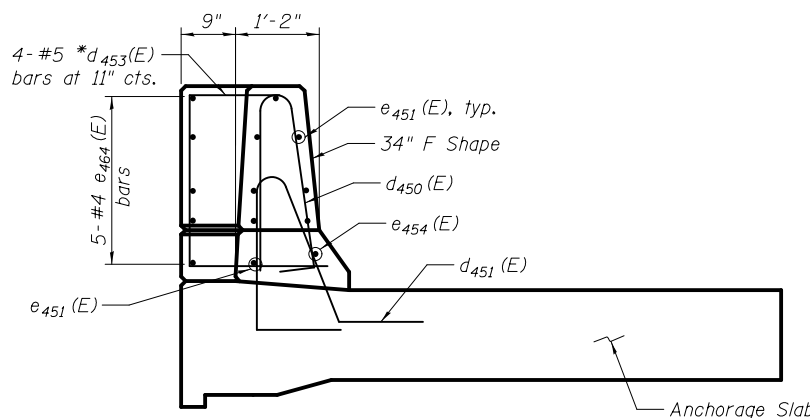
SECTION J

* Cut to Fit in Field



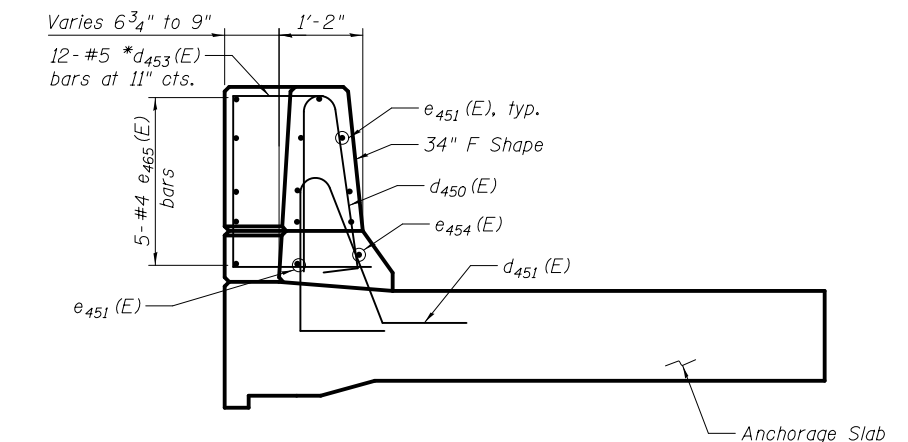
SECTION K

* Cut to Fit in Field



SECTION L

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



SECTION M

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.

Notes:
For Bill of Material, see Sheet 48.
For Section locations, see Sheets 27-45.
For typical anchorage slab reinforcement, see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.



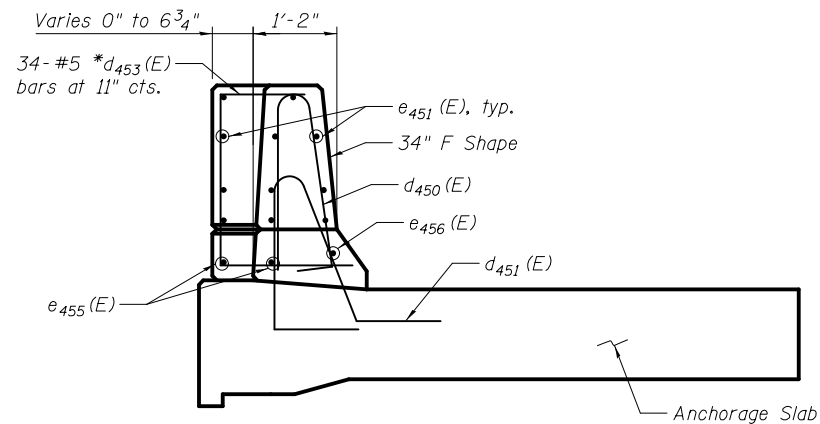
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB 20
I-74 (EB)/(WB) RETAINING WALL 12

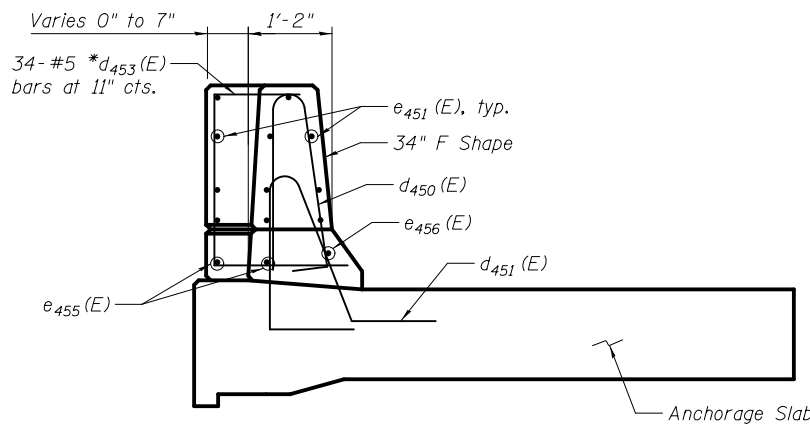
SHEET NO. 46 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1452
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



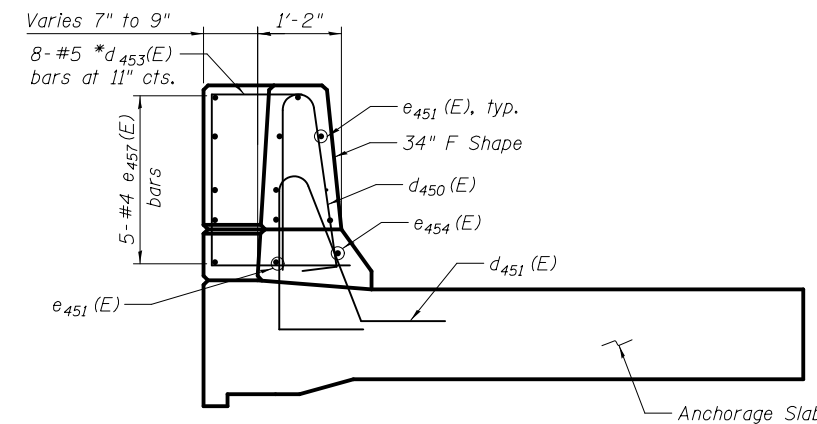
SECTION N

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



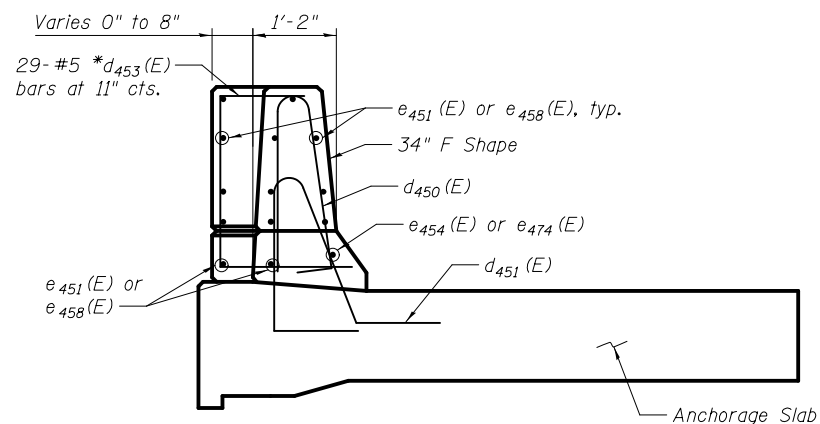
SECTION O

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



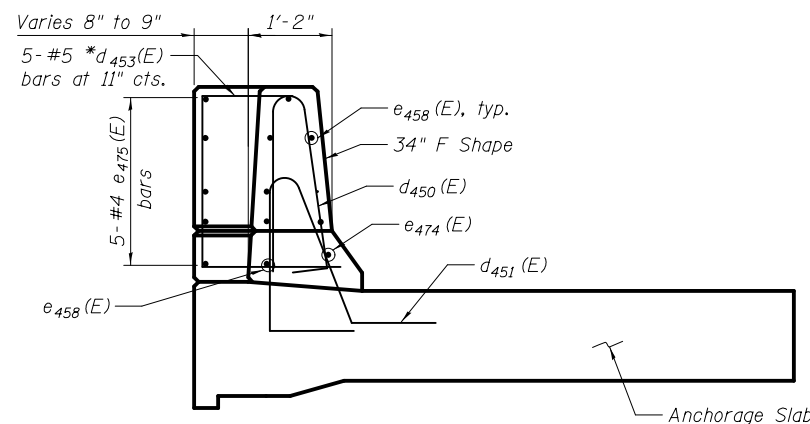
SECTION P

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



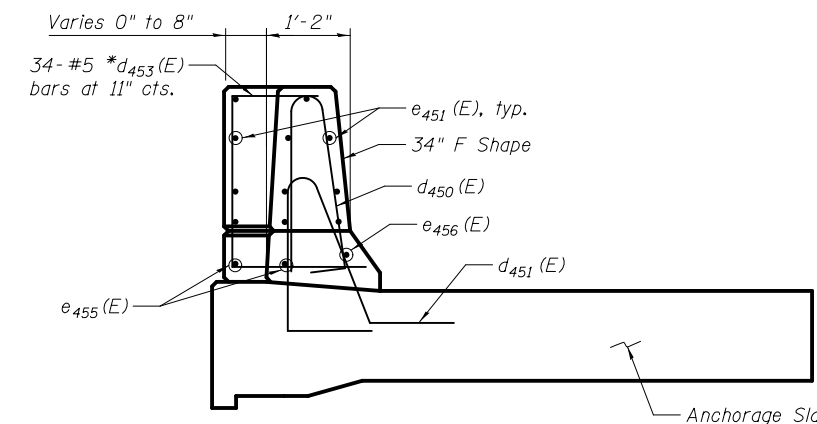
SECTION Q

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



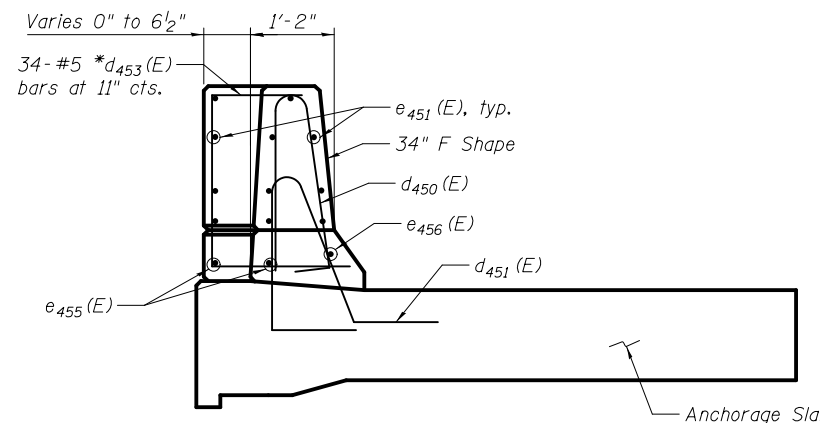
SECTION R

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



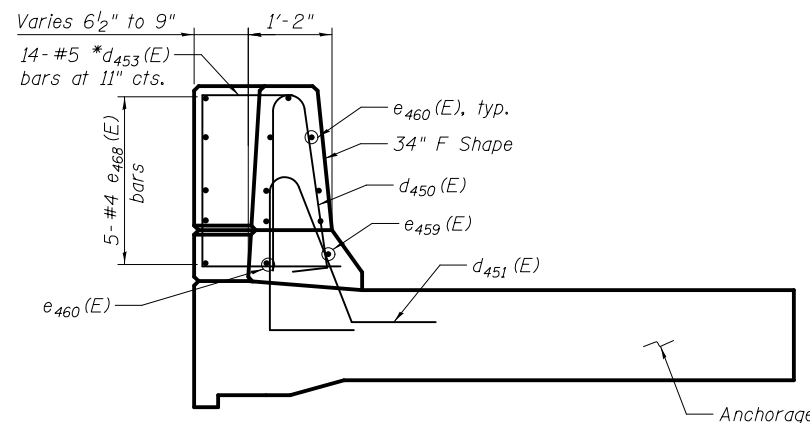
SECTION S

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



SECTION T

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.



SECTION U

* Cut to Fit in Field
Anchorage Slab reinforcement not shown for clarity.

Notes:
For Bill of Material, see Sheet 48.
For Section locations, see Sheets 27-45.
For typical anchorage slab reinforcement, see Section Thru Parapet, Anchorage Slab and Concrete Facing on Sheet 5.



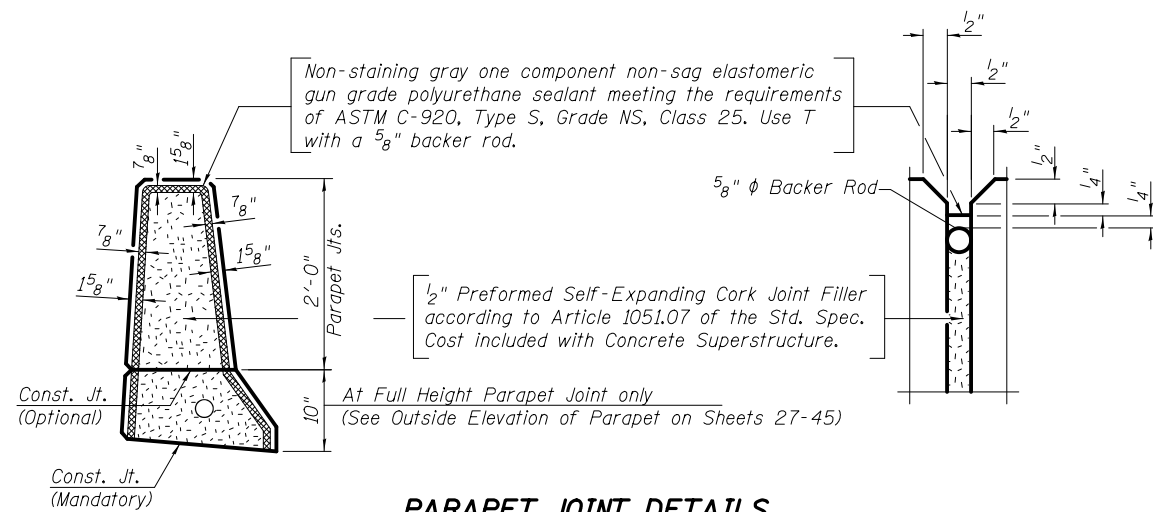
USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

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DEPARTMENT OF TRANSPORTATION

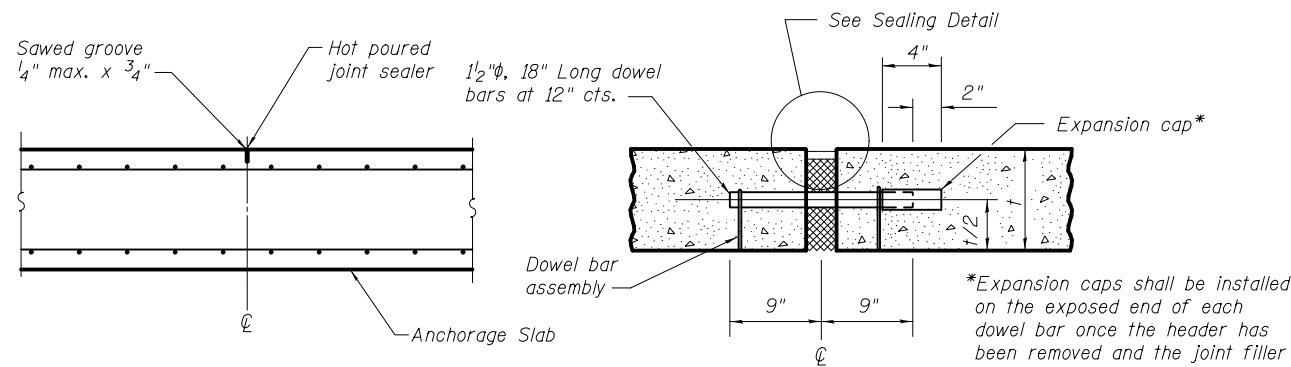
PARAPET AND ANCHORAGE SLAB 21
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 47 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1453
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



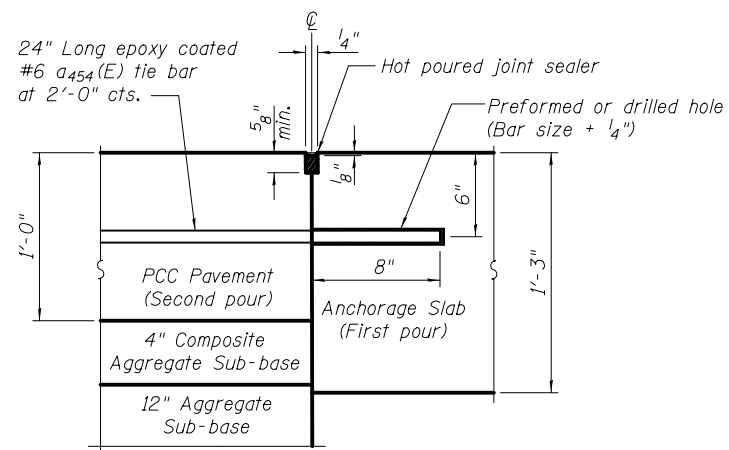
PARAPET JOINT DETAILS



TRANSVERSE CONTRACTION JOINT

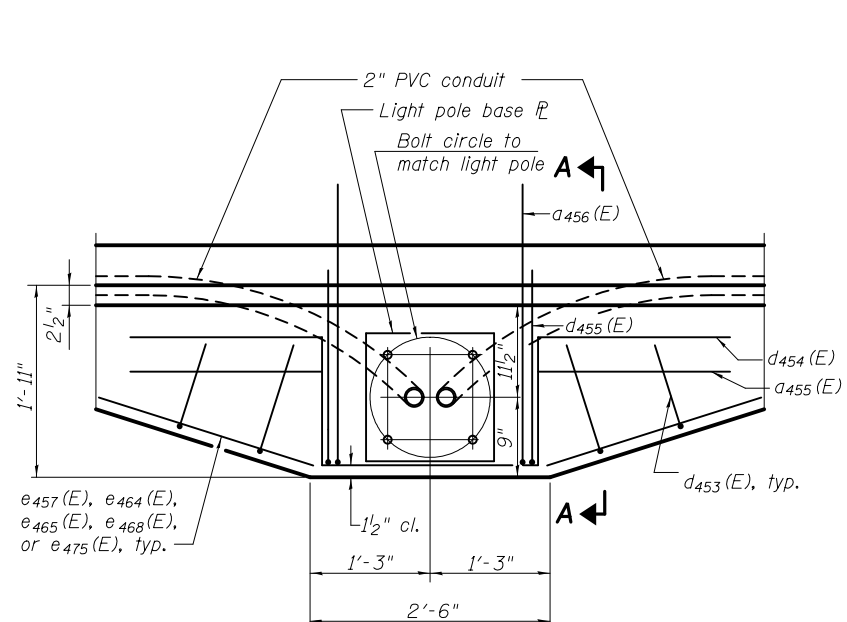
ANCHORAGE SLAB EXPANSION JOINT

Expansion joint and dowel bars included in the cost of Concrete Superstructure.



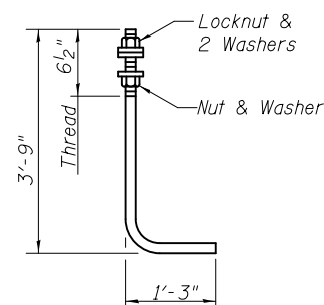
Notes:
The Contractor may substitute at his option, formed in place tie bars provided the bar length is increased to 30" and the tie bar is centered across the joint.
Preformed or drilled hole shall be in the first pour.

LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR



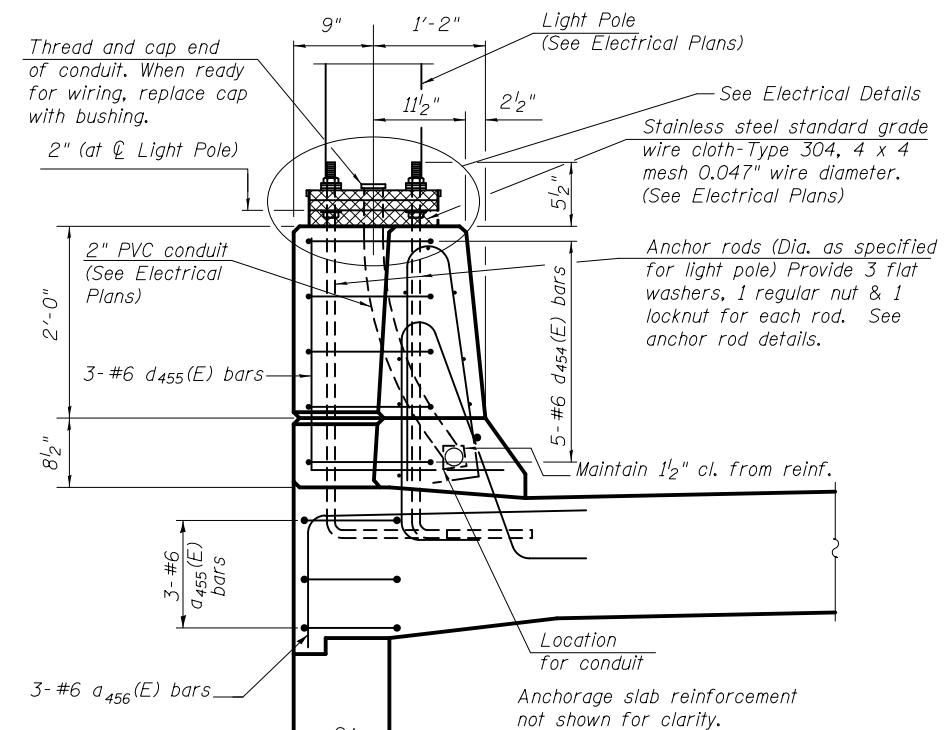
Note:
Cost of anchor rods is included with Concrete Superstructure.

PLAN



LIGHT POLE ANCHOR ROD

Diameter as specified for light poles (ASTM F 1554 Grade 105). Full length hot dipped galvanized.



SECTION A-A

LIGHT POLE BLISTER DETAILS



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 49 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1455
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 2 of 2

Date 10/2/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=560350.962, E=2460018.611), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO. _____
Station _____
BORING NO. ILR1204
Station 75+48
Offset 0'
Ground Surface Elev. 688.27 ft (ft) (/6") (tsf) (%)

DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	ft
End of Boring				Stream Bed Elev.	ft
				Groundwater Elev.:	ft
				First Encounter	ft
				Upon Completion	ft
				After	Hrs.

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
CH2M HILL

SOIL BORING LOG

Page 1 of 1

Date 10/2/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=560209.476, E=2460068.43), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO. _____
Station _____
BORING NO. ILR1206
Station 76+98
Offset 0'
Ground Surface Elev. 687.87 ft (ft) (/6") (tsf) (%)

DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	ft
Grass Matter followed by medium brown silt with sand topsoil. Hole offset 17.0' east of proposed boring location due to steepness of median slope	4			Stream Bed Elev.	ft
Clayey Silt (ML-CL) light brown, moist, non plastic, medium stiff, crumbly, weak cementation, possible fill No recovery Driller notes very rough drilling and excess chatter 3'3" bgs	30/4			Groundwater Elev.:	ft
Lean Clay With Sand (CL) light gray mottled with orange brown, moist, medium plasticity, very oxidized, little fine, little fine sands	2			First Encounter	ft
Silty Clay (CL-ML) bottom of tube: uniform light gray, moist, low to medium plasticity, possible native soil, loess	1.0	P		Upon Completion	ft
light gray with light brown, moist, medium plasticity, medium stiff, slightly oxidized, moderate cementation, possible loess	2	0.3	B	After	Hrs.
uniform light gray, moist, low to medium plasticity, possible native soil, loess	3.3				
Clayey Silt (ML) brownish gray, dry to moist, non plastic, stiff, crumbly, possible transition zone, native soil, loess	2	0.6			

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
CH2M HILL

SOIL BORING LOG

Page 1 of 2

Date 10/2/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=560081.319, E=2460107.505), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO. _____
Station _____
BORING NO. ILR1208
Station 78+32
Offset 0'
Ground Surface Elev. 686.85 ft (ft) (/6") (tsf) (%)

DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	ft
Topsoil followed by gravelly roadway subbase. Hole offset 3.0' west of proposed boring location	4			Stream Bed Elev.	ft
Silty Clay With Sand (CL-ML) olive gray with gray and light brown, dry, non plastic, stiff, little medium to fine sands, trace medium to fine subangular to subrounded gravels at bottom half of sample, possible fill. Bag Sample B1: 1.0'-4.0'	4.5	P		Groundwater Elev.:	ft
bluish gray to greenish gray, dry to moist, medium stiff, low to non plastic, strong cementation, some medium to fine sand with medium to fine subangular to subrounded gravel at bottom 3" of sample, possible gravelly sand seam at bottom of sample, possible fill	3			First Encounter	ft
Silt (ML) light brown, dry, non plastic, medium stiff, crumbly, little fine sands, possible fill	2			Upon Completion	ft
uniform yellowish orange, dry to moist, medium stiff, non plastic, crumbly, occasional root matter at top of sample, slightly oxidized, possible fill, moderate to weakly cemented	2	3.5	P	After	Hrs.
same as above, very crumbly, slightly oxidized, possible fill soil collected in bag sample, tried to obtain ST, soil too crumbly	1				
light brown with gray, dry to moist, non plastic, medium stiff, slightly oxidized, little clay, crumbly, possible native soil, loess	3	2.3	P		
Poorly Graded Sand With Silt (SP-SM) uniform gray, moist, medium dense, medium to fine sands with silt, trace coarse sands, possible sand seam in glacial till	4				
Clayey Silt (ML-CL) bottom of tube: uniform light gray with yellowish orange streaks, moist, low plasticity to non plastic, possible native soil, loess	1.8	P			
light gray with orange brown stains, medium stiff, very oxidized, moist, low plasticity to non plastic, possible loess	2	0.5	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)



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 51 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1457
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 1 of 2

Date 10/1/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY F. Abreu

SECTION I-74 Bridge over Mississippi River LOCATION (N=559721.519, E=2460175.628), SEC. 32, TWP. 18N, RNG. 1W, 4th PM

COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTHS	BLOW COUNTS	UCS	MOISTURE	DESCRIPTION	DEPTH	BLOW COUNTS	UCS	MOISTURE
Station	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
ILR1212 81+99 0'	683.15				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft				
					Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs.				
Silty Sand With Gravel(SM)	2	4.5			Silty clay/clayey silt(CL-ML) light brown with olive gray, dry, non plastic, stiff, slightly oxidized, moderate to strong cementation, crumbly at bottom of sample, medium to fine angular gravel seam at top of sample, fill (continued)				
Silty Clay(CL-ML)	5				same as above, very stiff, slightly crumbly				
Silty Sand With Gravel(SM)	4	2.8							
Silty Clay/clayey silt(CL-ML)	6	3.8							
Silty Sand With Gravel(SM)	4	1.4			same as above, light gray with olive gray, moist at center of sample, with medium plasticity, slightly oxidized, slow dilatancy, possible transition to native soil, loess				
Silty Clay(CL-ML)	5								
Silty Sand With Gravel(SM)	3	0.8			Sandy Lean Clay(CL) light gray with olive gray and orange brown stains, moist to wet, stiff, oxidized, few medium to fine sands, trace coarse sands, possible weathered glacial till with occasional sand seams/lenses Water encountered at 33.0' bgs while sampling				
Silty Sand With Gravel(SM)	3	2.5	19.0						
Silty Sand With Gravel(SM)	5								
Silty Sand With Gravel(SM)	8								

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
CH2M HILL

SOIL BORING LOG

Page 2 of 2

Date 10/1/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY F. Abreu

SECTION I-74 Bridge over Mississippi River LOCATION (N=559721.519, E=2460175.628), SEC. 32, TWP. 18N, RNG. 1W, 4th PM

COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTHS	BLOW COUNTS	UCS	MOISTURE	DESCRIPTION	DEPTH	BLOW COUNTS	UCS	MOISTURE
Station	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
ILR1212 81+99 0'	683.15				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft				
					Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs.				
					sands, trace coarse to fine subangular to subrounded gravels, slightly oxidized, possible glacial till 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)



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 1 of 2

Date 10/1/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY F. Abreu

SECTION I-74 Bridge over Mississippi River LOCATION (N=559585.165, E=2460188.909), SEC. 32, TWP. 18N, RNG. 1W, 4th PM

COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTHS	BLOW COUNTS	UCS	MOISTURE	DESCRIPTION	DEPTH	BLOW COUNTS	UCS	MOISTURE
Station	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
ILR1214 83+36 0'	682.56				Surface Water Elev. _____ ft Stream Bed Elev. _____ ft				
					Groundwater Elev.: First Encounter _____ ft Upon Completion _____ ft After _____ Hrs.				
Sand Silt With Gravel(ML)	4				Silty Clay(CL-ML) light gray and orange brown, medium stiff, moist, low to medium plasticity, oxidized, moderate to weak cementation, possible loess (continued)				
Silty Clay(CL-ML)	6	4.5			same as above, medium gray				
Silty Clay(CL-ML)	9				Silt(ML) brown to dark brown, dry, non plastic, stiff, crumbly, possible transition layer, gradual transition				
Silty Clay(CL-ML)	4	0.9	19.0						
Clayey Silt(ML-CL)	2				Silty Clay(CL-ML) uniform medium to dark gray, moist, medium plasticity, medium stiff, gradual transition to gumbotil				
Silty Clay(CL-ML)	4				Lean Clay Trace Sand(CL) uniform gray, dry to moist, medium stiff to stiff, moderate to strong cementation, trace very fine sands, possible gumbotil				
Silty Clay(CL-ML)	3	1.0			Lean Clay(CL) uniform light bluish gray, moist, medium to high plasticity, medium stiff, trace yellowish orange streaks, slightly oxidized to unweathered, possible native soil				
Silty Clay(CL-ML)	4								
Silty Clay(CL-ML)	3	1.8	25.0						
Silty Clay(CL-ML)	2	0.4			Lean Clay With Sand(CL) uniform gray, moist, stiff, little to few coarse to fine sands, unweathered, occasional sand				
Silty Clay(CL-ML)	3								

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)



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 53 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1459
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 2 of 2

Date 10/1/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=559585.165, E=2460188.909), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	ft
Station					Stream Bed Elev.	ft
BORING NO. ILR1214					Groundwater Elev.:	
Station 83+36					First Encounter	ft
Offset 0'					Upon Completion	ft
Ground Surface Elev. 682.56	ft	(ft)	(/6")	(tsf)	After	Hrs.
lenses, possible glacial till						
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)



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 1 of 1

Date 9/28/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=559225.533, E=2460223.684), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	ft
Station					Stream Bed Elev.	ft
BORING NO. ILR1218					Groundwater Elev.:	
Station 86+97					First Encounter	ft
Offset 0'					Upon Completion	ft
Ground Surface Elev. 680.66	ft	(ft)	(/6")	(tsf)	After	Hrs.
Grass Matter followed by light brown silt with sand.						
Silty Clay (CL-ML) light gray with yellowish orange, dry, non plastic, medium stiff, oxidized, occasional rootlets, dark brown spots, possible fill						
Silty Clay (CL-ML) light gray with yellowish orange, dry, non plastic, medium stiff, oxidized, occasional rootlets, dark brown spots, possible fill						
Silty Clay (CL-ML) light gray with yellowish orange, dry, non plastic, medium stiff, oxidized, occasional rootlets, dark brown spots, possible fill						
Sandy Lean Clay Trace Gravel (CL) uniform gray, moist, medium plasticity, stiff, few coarse to fine sands, trace medium to fine sub angular to sub rounded gravels, unweathered, possible glacial till						
lean gray, moist, low to medium plasticity, possible loess						
Top 10" light gray with yellowish orange streaks, medium plasticity, medium stiff, moist, slightly oxidized						
Remainder: Lean Clay (CL) Uniform olive gray, moist to dry, medium plasticity, unweathered, medium stiff, possible loess						
uniform gray, very stiff, unweathered glacial till						
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)



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 1 of 2

Date 9/22/07

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach
SECTION I-74 Bridge over Mississippi River LOCATION (N=559088.57, E=2460240.514), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	ft
Station					Stream Bed Elev.	ft
BORING NO. ILR1220					Groundwater Elev.:	
Station 88+35					First Encounter	ft
Offset 0'					Upon Completion	ft
Ground Surface Elev. 679.48	ft	(ft)	(/6")	(tsf)	After	Hrs.
Grass Matter followed by brown silt with sand, dry, non plastic						
Silt Clay With Sand (CL-ML) Mottled gray with brown, dry to moist, non plastic, little coarse to fine sands, trace fill gravels, stiff, occasional root matter, possible compacted fill. Hole offset 21 Ft. East of proposed boring location due to steepness of slope in which proposed boring was located on						
Clayey Silt (CL-ML) brownish gray with orange brown staining, dry to moist, non plastic, medium stiff, possible fill						
Silty Clay (CL-ML) gray to dark gray, moist, medium plasticity, medium stiff, orange red brick fragments approx 10" from top, trace medium to fine sands,						
Lean Clay With Sand (CL) greenish gray with gray, moist, medium plasticity, little medium to fine sands, possible fill						
Silty Clay (CL-ML) calcite, mottled with dark gray, orange medium build fragments at bottom of sample, possible fill, occasional and root matter						
Lean Clay With Sand Gravel (CL) greenish gray mottled with gray, moist, medium plasticity, little coarse to fine sands, trace medium to fine sub angular to sub rounded gravel						
sub angular to angular, occasional heavy wood, medium stiff, scattered sand seams, oxidized, weathered, trace fine gravels						
moist to wet, medium plastic, occasional wood matter, medium stiff, mottled, little coarse to fine sands, scattered sand seams,						
possible (?)						
Lean Clay With Sand (CL) Olive gray with dark gray, moist to wet, low to medium plasticity, little fine to medium sands						
Lean Clay (CL) medium stiff, greenish gray, slow dilatancy, fragments root matter, moist to wet, medium plasticity, mottled with dark gray, some silt						
Silty Clay (CL-ML) gray to dark gray, moist, medium plasticity, medium stiff, orange red brick fragments approx 10" from top, trace medium to fine sands,						
Sandy Lean Clay Trace Gravel (CL) olive gray with gray, moist, stiff, few coarse to fine sands, trace coarse to fine sub angular to sub rounded gravel, strong cementation, possible glacial till						
uniform olive gray, unweathered, stiff, glacial till						

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)



USER NAME =	DESIGNED - ZJB	REVISED
	CHECKED - TER	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 5
I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 54 OF 58 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1460
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY F. Abreu
SECTION I-74 Bridge over Mississippi River LOCATION (N=558732.154, E=2460307.684), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

Table with columns for Depth (ft), Blows (blows/ft), and Soil Description. Includes entries like 'Grass Matter followed by silt with clay and little sand top soil', 'Clayey Silt (ML)', 'Silty Clay (CL-ML)', and 'Lean Clay With Sand (CL)'.

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)



SOIL BORING LOG

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY F. Abreu
SECTION I-74 Bridge over Mississippi River LOCATION (N=558732.154, E=2460307.684), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

Table with columns for Depth (ft), Blows (blows/ft), and Soil Description. Includes entries like 'Sandy Lean Clay With Trace Of Gravel (CL)', 'Uniform olive gray, dry to moist, very stiff, trace medium to fine sub angular to sub rounded gravel', and 'BOB 50' bgs 12:00 p.m.'.

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)



SOIL BORING LOG

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY L. Hunt
SECTION I-74 Bridge over Mississippi River LOCATION (N=560493.977, E=2459973.117), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

Table with columns for Depth (ft), Blows (blows/ft), and Soil Description. Includes entries like 'Clay (CL)', 'Silt To Sandy Clay (ML)', 'Silty Clay (CL-ML)', and 'Sandy Clay (CL)'.

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)



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, and PLOT DATE, with corresponding values like ZJB, TER, CMM, and JMH.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS 7 I-74 (EB)/(WB) RETAINING WALL 12

SHEET NO. 56 OF 58 SHEETS

Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO. 64E26.

Benchmark No. 587:
Chiseled "X" on West side of traffic signal
foundation in concrete island.
Elevation NAVD 88 = 627.220

Existing Structure:

Pile supported, CIP cantilever abutments and retaining wall,
Structure No's. 081-0101 (EB) and 081-0102 (WB).
Wall stem height varies from 18'-9" to 25'-6". Built in 1975 as
part of F.A.I. Route 74. Existing retaining wall and bridges to
be removed (as required) and replaced. Traffic to be maintained
utilizing stage construction.

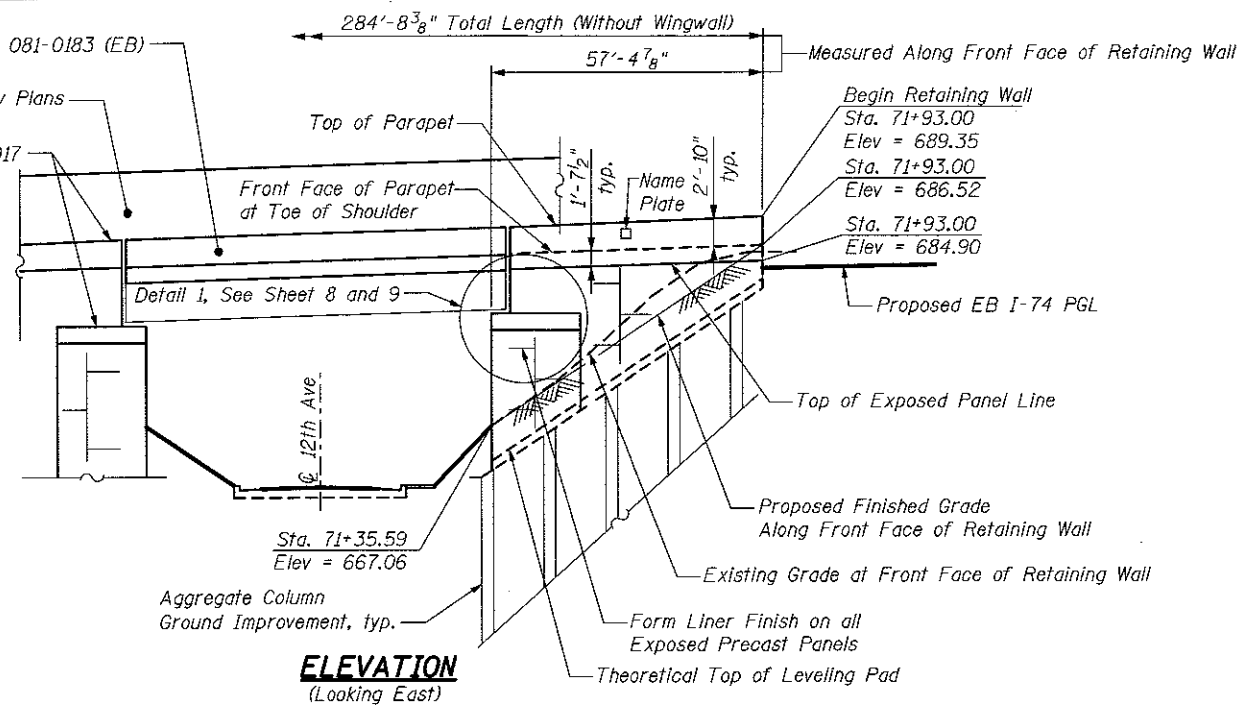
No Salvage.

CURVE DATA

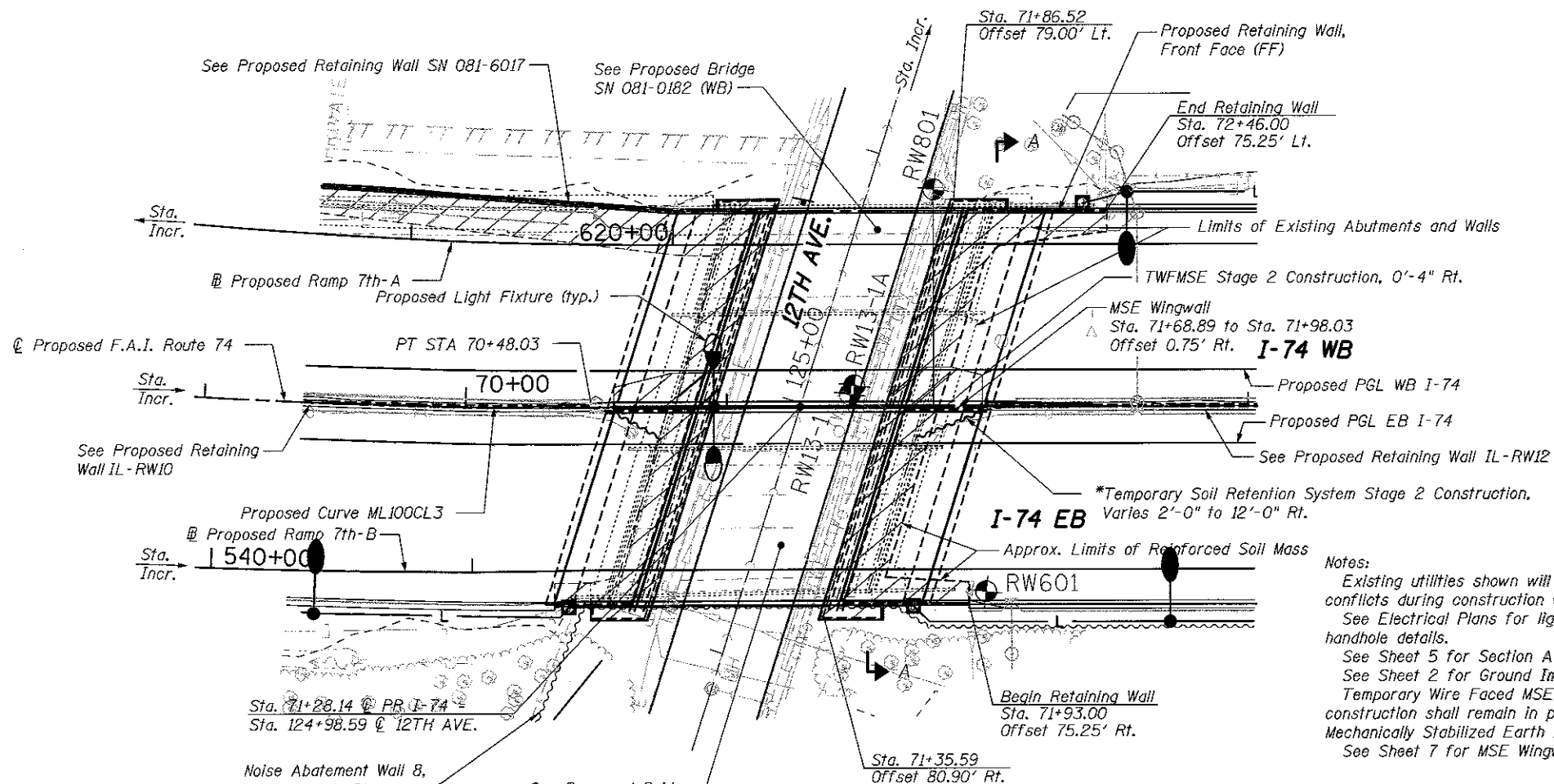
PR Curve ML100CL3
PI STA = 66+05.62
 $\Delta = 20^\circ 30' 00''$ (LT)
D = 2° 17' 31"
R = 2,500.00'
T = 452.07'
L = 894.48'
E = 40.55'
e = 4.9%
T.R. = N/A
S.E. RUN = 422.89'(I), 410.49'(O)
PC STA = 61+53.55
PT STA = 70+48.03

See Proposed Bridges
SN 081-0182 (WB) and SN 081-0183 (EB)
Structure Mounted Noise
Abatement Wall 8, see Roadway Plans

See Proposed
Retaining Wall SN 081-6017



ELEVATION
(Looking East)



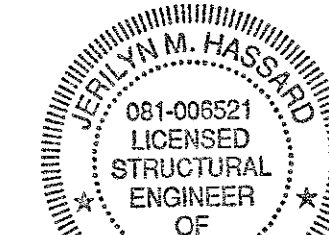
PLAN

LEGEND

- Reinforced Soil Mass
- MSE Wall Panels
- Soil Borings

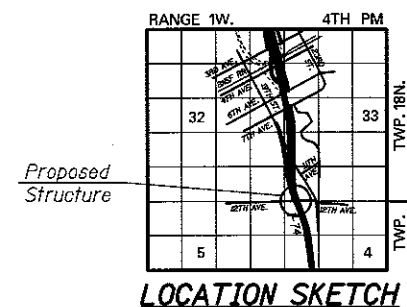
* See SN 081-0182 and SN 081-0183 for temporary soil retention system.

APPROVED
For Structural Adequacy Only
Jerilyn M. Hassard
Engineer of Bridges & Structures



Jerilyn M. Hassard
03-23-17

JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006521
EXPIRES 11/30/2018



GENERAL PLAN AND ELEVATION
F.A.I. ROUTE 74 SEC. (81-1R-1
ROCK ISLAND COUNTY
I-74 Sta. 71+93.00 (EB) to Sta. 72+46.00 (WB)
STRUCTURE NO. 081-6020 (RETAINING WALL 13)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

SHEET NO. 1 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1	ROCK ISLAND	2042	1465
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Wall stations and offsets are given to the front face (FF) of the wall and are measured from centerline of F.A.I. Route 74, except as noted. FF of the wall is to be considered edge of panel, form liner or C.I.P. facing.
3. See Special Provision for Mechanically Stabilized Earth Retaining Walls, Aggregate Column Ground Improvement, and Temporary Mechanically Stabilized Earth Retaining Walls for design and construction requirements.
4. For existing soils laboratory data, see Geotechnical Investigation Laboratory Data Special Provision.
5. The piles for SN 081-0182 and SN 081-0183 are located within the reinforced soil mass. Coordination is required for the installation of pile sleeves within the reinforced soil mass. See SN 081-0182 and SN 081-0183 plans for additional pile requirements.
6. Wall system supplier shall coordinate proposed wall configuration with Aggregate Column Ground Improvement subcontractor.
7. Wall construction shall not begin until after Aggregate Column Ground Improvement has been completed in the area of the new wall.
8. See SN 081-0182 and SN 081-0183 plans for maskwall details.
9. All concrete for the C.I.P. facing with a form liner textured surface shall be self-consolidating concrete meeting the requirements of Section 1020 of the Standard Specifications. This work shall be included in the cost of the concrete used and no additional compensation will be allowed.

GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS

1. Minimum factor of safety for global slope stability shall be 1.5 for both the permanent and temporary condition.
2. Allowable bearing pressure (with F.S.) shall be equal to or greater than the equivalent uniform service bearing pressure as shown on Sheet 3. Intermediate values may be defined by interpolating between the values shown.

 Minimum factor of safety against equivalent uniform service bearing pressure shall be 2.0 if a load test is performed.

 Minimum factor of safety against equivalent uniform service bearing pressure shall be 2.5 if a load test is not performed.
3. Total settlement measured at the theoretical top of leveling pad shall not exceed 4.0 inches.
4. Total settlement measured on the pavement shall not exceed 1.0 inch.
5. Differential settlement measured along the theoretical top of leveling pad shall not exceed 1/100.
6. The assumed structure life for settlement computations shall be 75 years.
7. Contractor's verification program shall include monitoring points or other instrumentation to demonstrate compliance with the stated performance requirements.
8. The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement. The aggregate column installation shall be coordinated with utility removal, structure removals, proposed utility installation, and bridge pile driving.
9. If the existing bridge, retaining wall, or extended wingwall piles interfere with the aggregate columns or new bridge piles, they will be completely removed. Cost of removal is included with the Removal of Existing Structures for SN 081-0182 and SN 081-0183. Existing piles to remain in place shall be cut off at least one foot below the base of the wall. The hole shall be backfilled with compacted native soil.
10. Aggregate columns shall be installed before the bridge piles are driven; however, the piles shall not be driven through the aggregate of an installed column. The aggregate column layout shall provide clearance for the bridge piles.
11. Primary consolidation of the soil within the depth of the ACGI to be at least 90 percent complete when the bridge piles are driven. Any required waiting periods shall be coordinated with the bridge construction schedule.

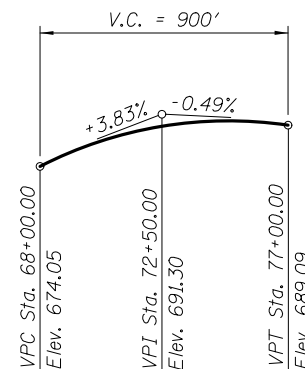
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	1,870
Concrete Superstructure	Cu. Yd.	20.4
Form Liner Textured Surface	Sq. Ft.	2,423
Protective Coat	Sq. Yd.	45
Reinforcement Bars, Epoxy Coated	Pound	3,010
Name Plates	Each	1
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	663
* Aggregate Column Ground Improvement	L. Sum	0.25
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	4,744

* See additional retaining walls within this contract for remainder of L. Sum quantity.

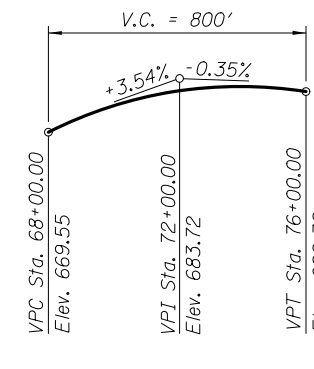
STATION 71+93.00
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.I. RT. 74 SEC. (81-1)R-1
 LOADING HS-20
 STR. NO. 081-6020

NAME PLATE
 See Std. 515001



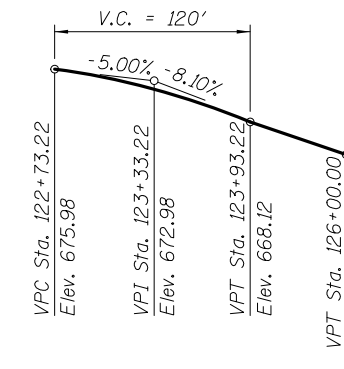
PROFILE GRADE

(Along EB PGL - F.A.I. Route 74)



PROFILE GRADE

(Along WB PGL - F.A.I. Route 74)



PROFILE GRADE

(Along 12TH Avenue)

MSE WALL SETTLEMENT

1. The Top of Exposed Panel Elevations shown on these plans are final elevations after any settlement.
2. For MSE wall on top of the aggregate columns, the wall settlement is determined by the ground improvement design. The wall system supplier shall coordinate with Aggregate Column Ground Improvement subcontractor to accommodate this settlement in the wall design.



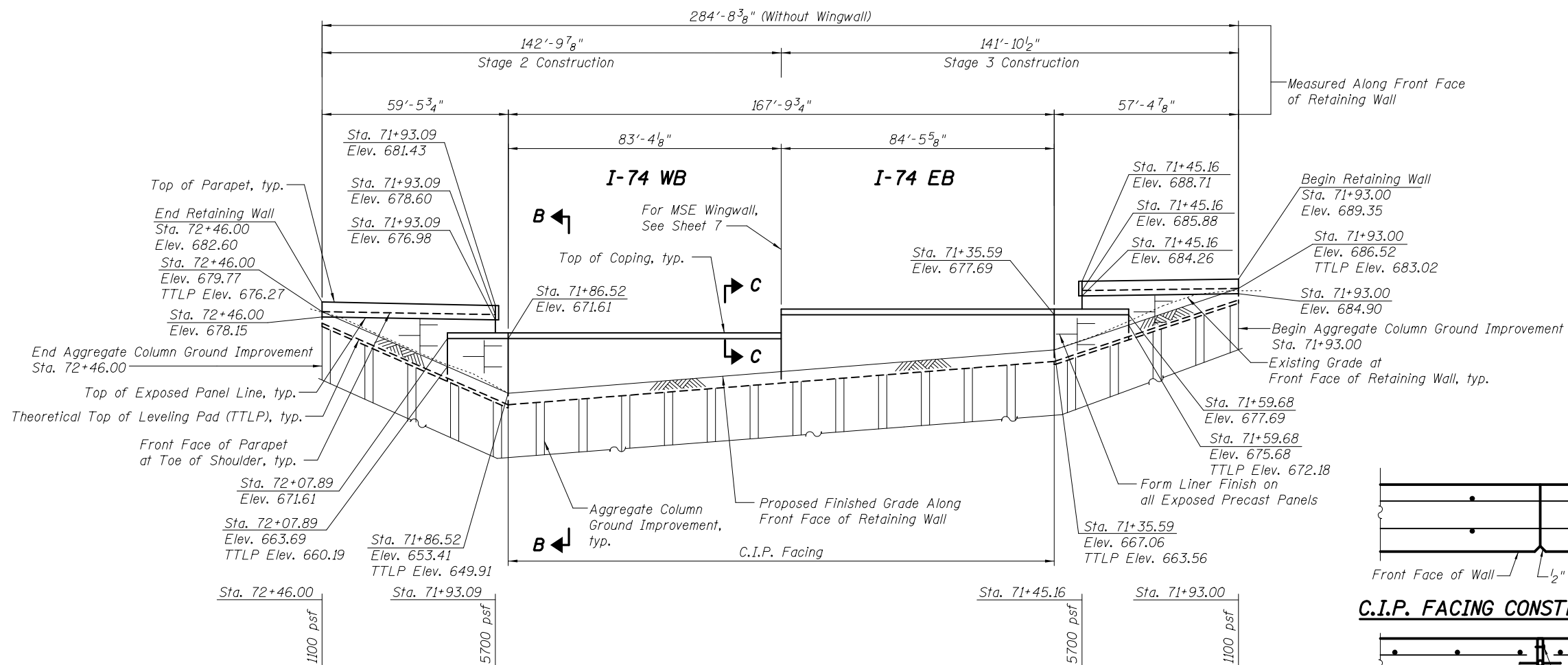
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	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - MLA	REVISED
PLOT DATE = 03/23/2017	CHECKED - YSS	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

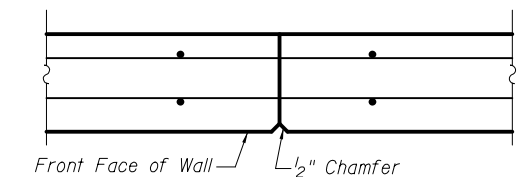
GENERAL NOTES
 I-74 (EB) & (WB) RETAINING WALL 13
 STRUCTURE NO. 081-6020

SHEET NO. 2 OF 15 SHEETS

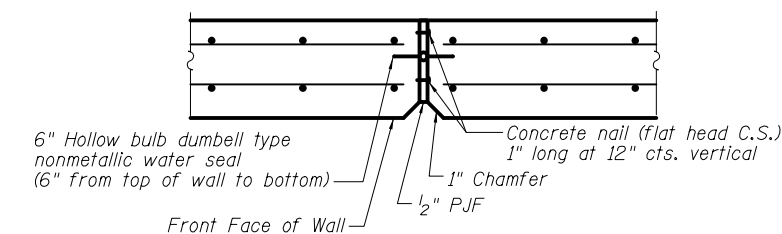
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1466
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



UNFOLDED ELEVATION VIEW



C.I.P. FACING CONSTRUCTION JOINT



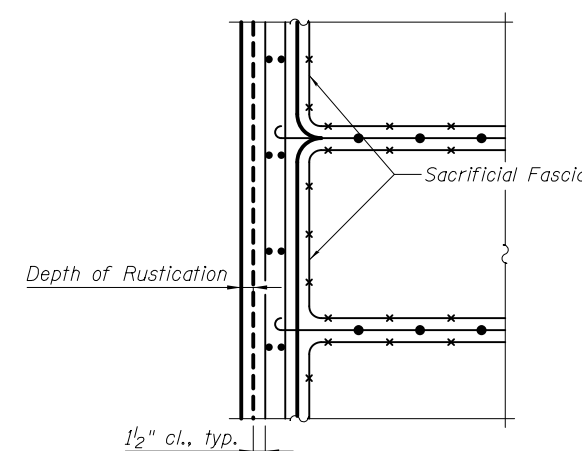
C.I.P. FACING EXPANSION JOINT

Expansion joint materials are included in the cost of Mechanically Stabilized Earth Retaining Wall.

LEGEND:

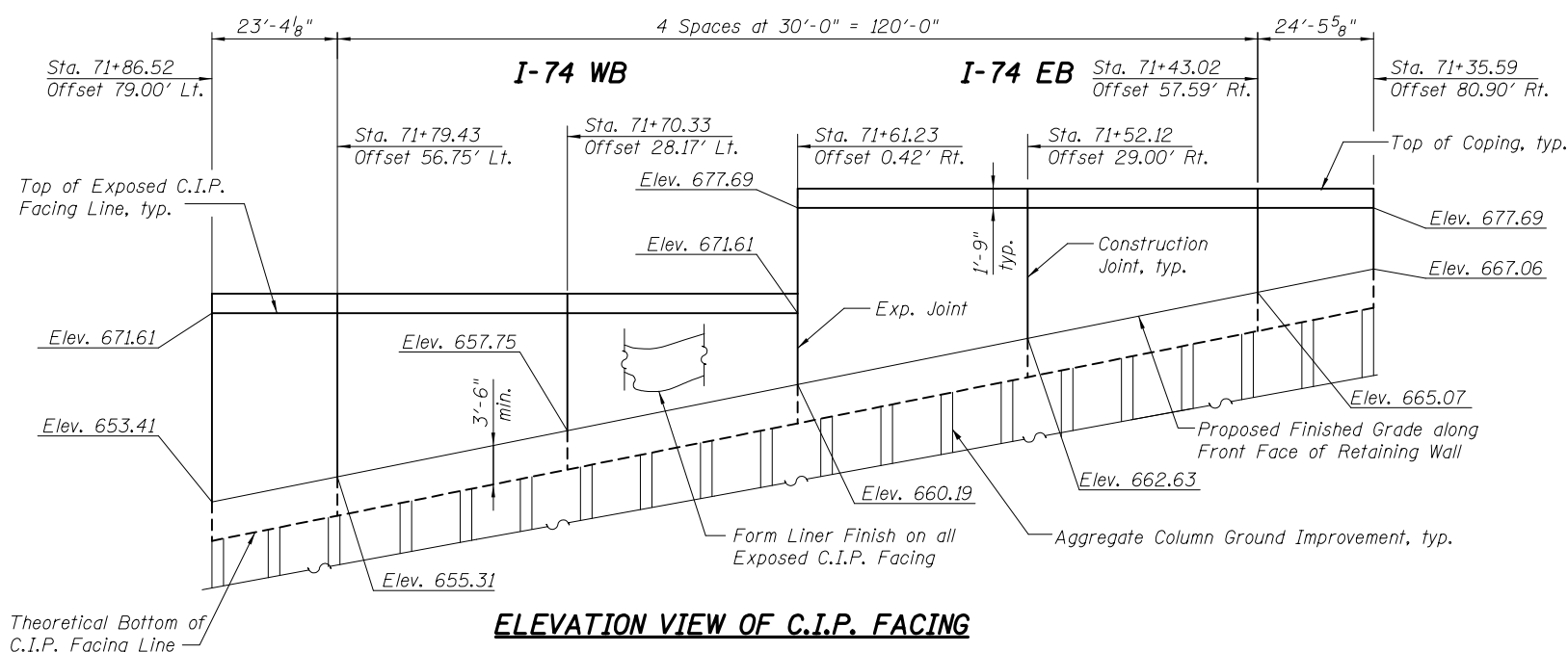
5700 psf Equivalent Uniform Service Bearing Pressure

- Notes:
- See Sheet 6 for Sections B-B and C-C.
 - See Sheet 2 for Ground Improvement Requirements.
 - See C.I.P. Retaining Wall Aesthetic Plans for required form liner finish and rustication on C.I.P. Facing.
 - See MSE Wall Aesthetic Plans for required form liner finish on Precast Panels.
 - Form liner finish on C.I.P. Facing shall be paid for as Form Liner Textured Surface.
 - Form liner finish on Precast Panels is included in the Cost of Mechanically Stabilized Earth Retaining Wall.



C.I.P. FACING TYPICAL SECTION

Concrete and reinforcing steel for C.I.P. Facing are included in the cost of Mechanically Stabilized Earth Retaining Wall.



ELEVATION VIEW OF C.I.P. FACING



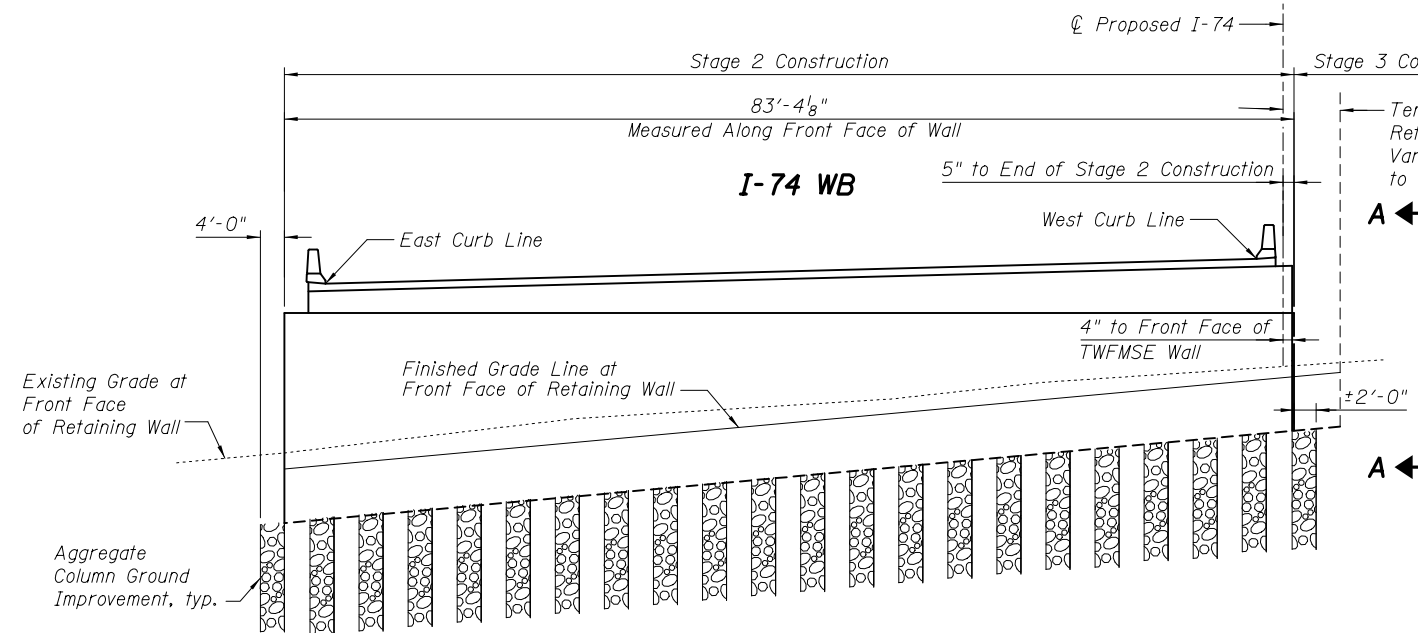
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	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

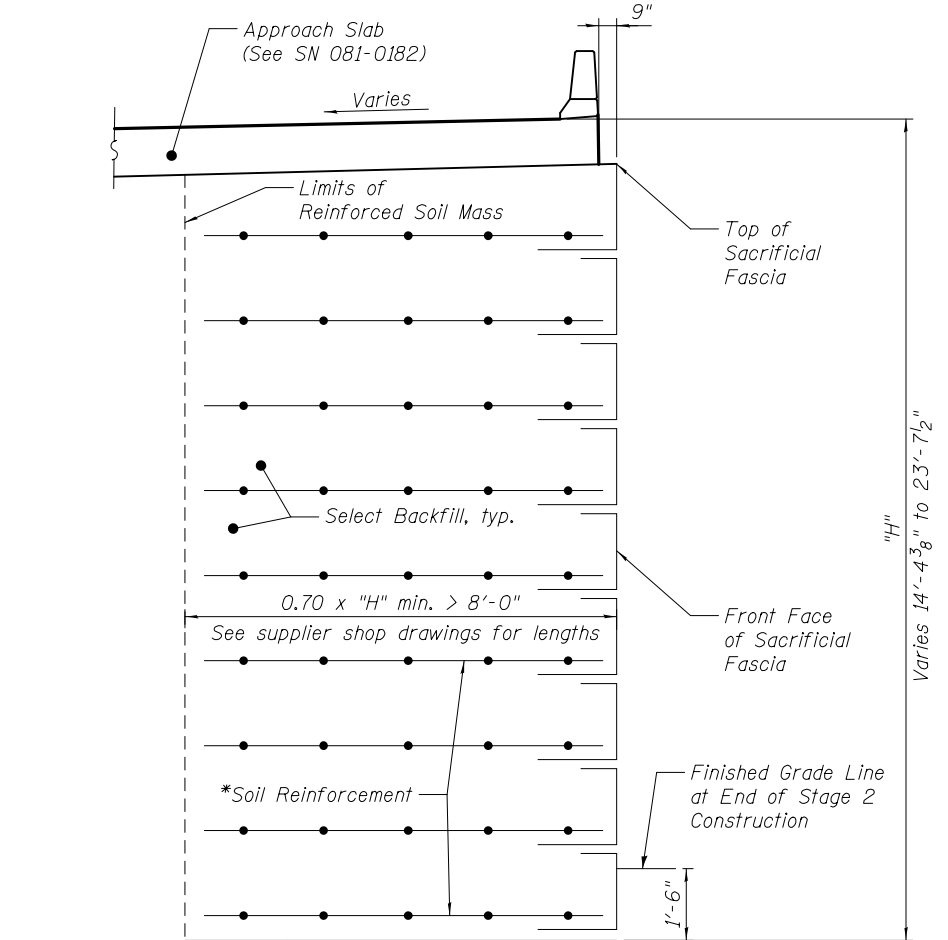
UNFOLDED WALL ELEVATION
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020
SHEET NO. 3 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1467
CONTRACT NO. 64E26				

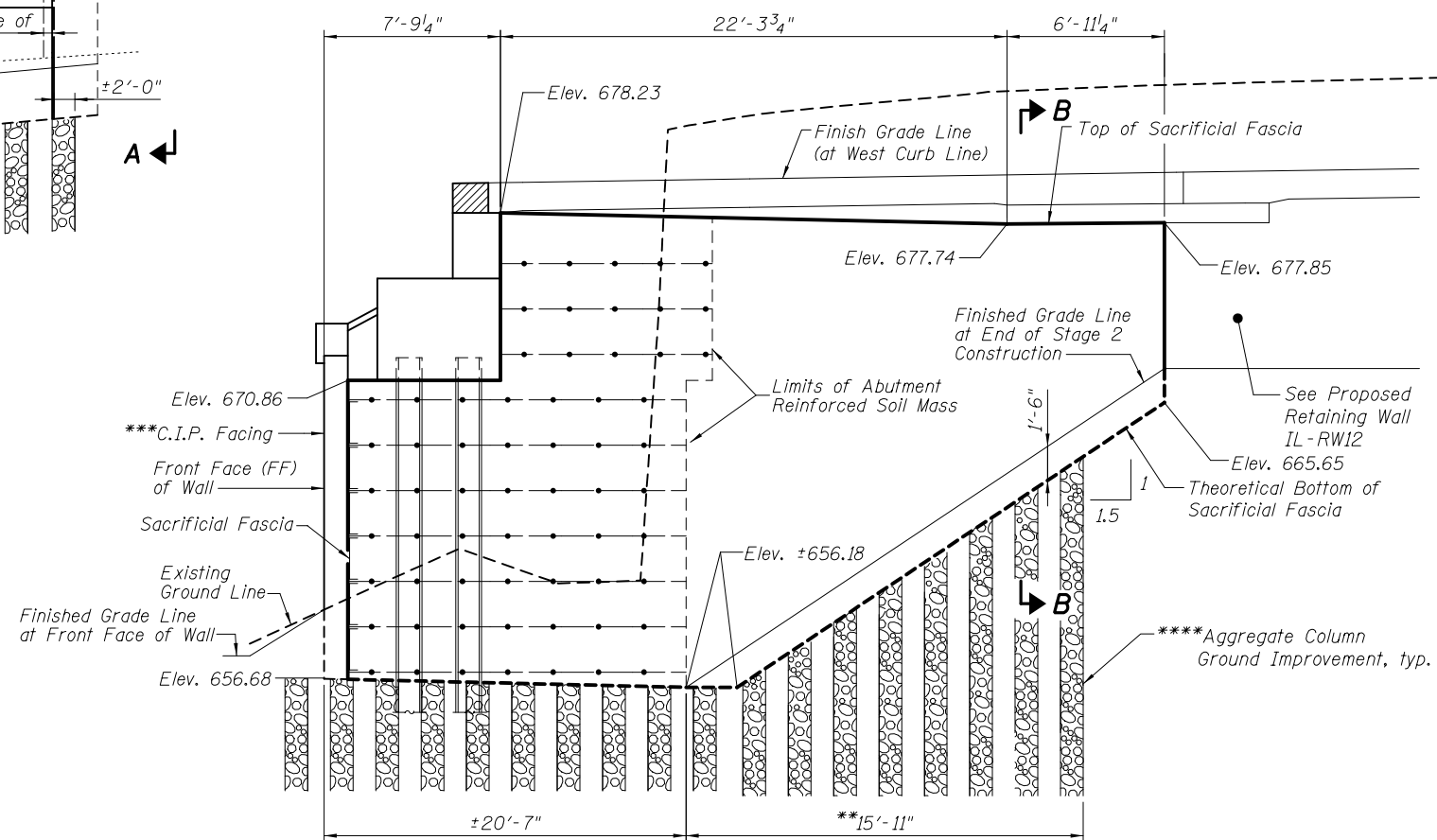
ILLINOIS FED. AID PROJECT



ELEVATION
Front Face of Abutment at End of Stage 2 Construction
(Horizontal dimensions at Rt. L's to \varnothing Proposed I-74, except as noted.)



SECTION B-B



VIEW A-A
(Horizontal dimensions parallel to \varnothing Proposed I-74)

- * The M.S.E. wall supplier's internal stability design shall account for the slab's bearing pressure surcharge of 1.0 kips/ft and horizontal sliding force of 0.5 kips/ft of wall.
- ** Max "H" beyond limits of Aggregate Column shall be less than or equal to 15'-0".
- *** C.I.P. Facing shall be placed during Stage 3 Construction after completion of the permanent wall.
- **** The equivalent uniform service bearing pressure for the TWMSE wall ground improvement shall be equal to 5700 psf.

Notes:
Limits of TWMSE Wall shown are based on theoretical limits of permanent wall. Adjustments may be required if actual field conditions vary from the configuration shown. See SN 081-0182 and SN 081-0183 plans for Temporary Soil Retention System details.



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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

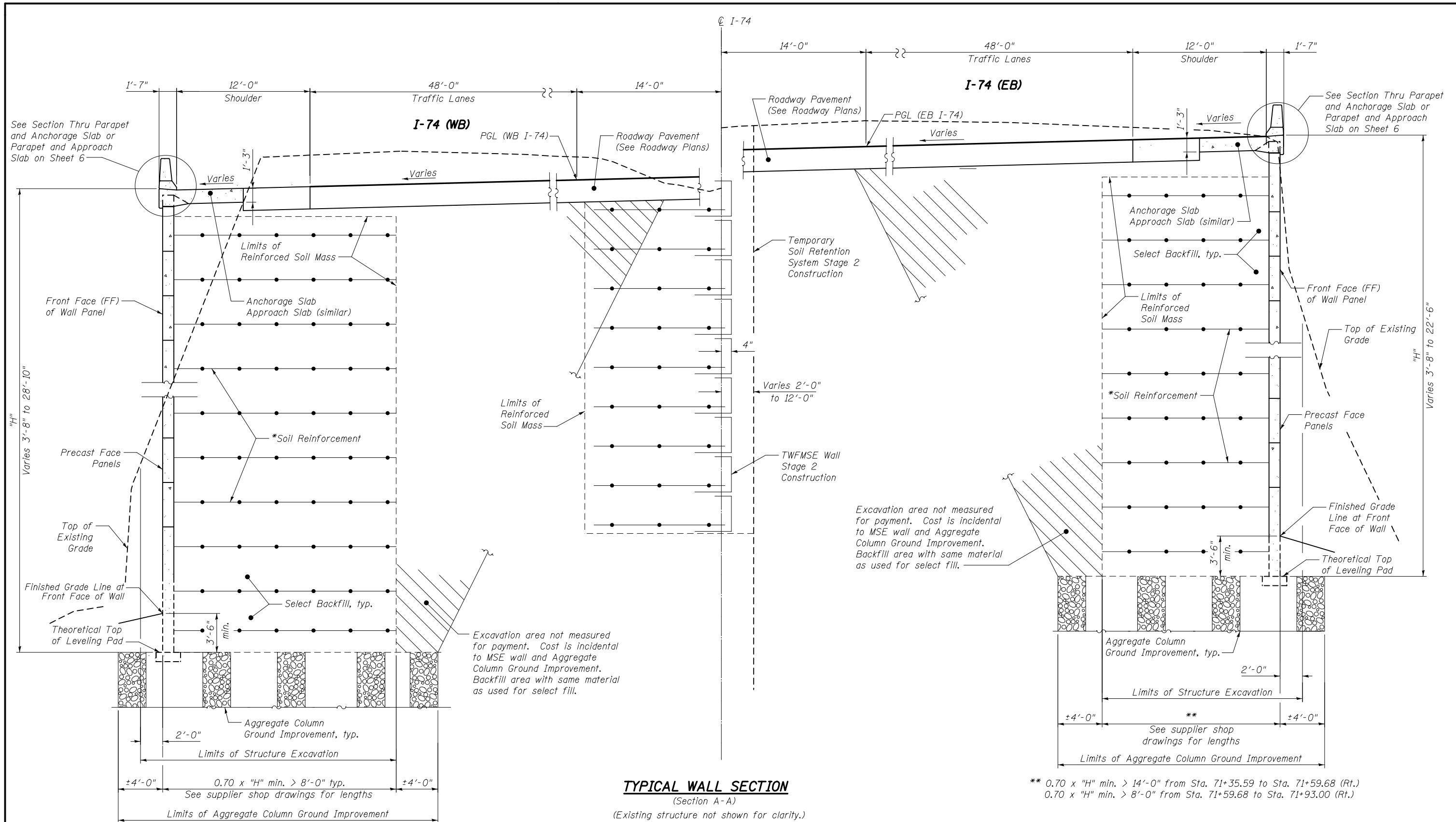
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1468
CONTRACT NO. 64E26				

SHEET NO. 4 OF 15 SHEETS

ILLINOIS FED. AID PROJECT



TYPICAL WALL SECTION
(Section A-A)
(Existing structure not shown for clarity.)

*The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

Excavation area not measured for payment. Cost is incidental to MSE wall and Aggregate Column Ground Improvement. Backfill area with same material as used for select fill.

** 0.70 x "H" min. > 14'-0" from Sta. 71+35.59 to Sta. 71+59.68 (Rt.)
0.70 x "H" min. > 8'-0" from Sta. 71+59.68 to Sta. 71+93.00 (Rt.)

Notes:
For location of Section A-A, see Sheet 1.
See Sheet 4 for TWMSE Wall details.
See SN 081-0182 and 081-0183 plans for Temporary Soil Retention System details.



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PLOT SCALE =	DRAWN - AEC	REVISED
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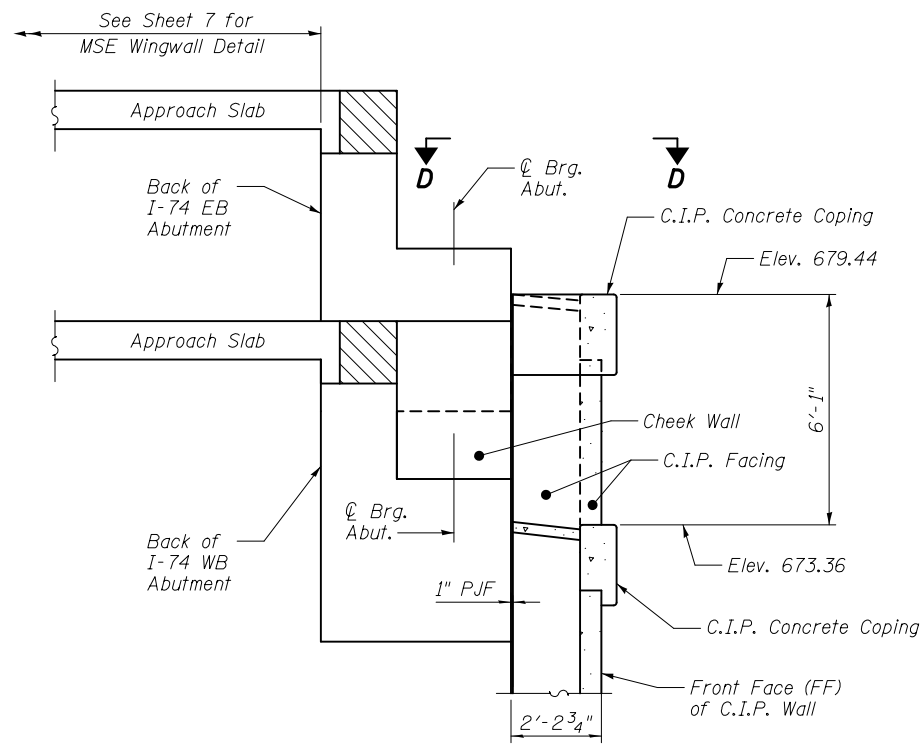
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE DETAILS 1
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1469
CONTRACT NO. 64E26				

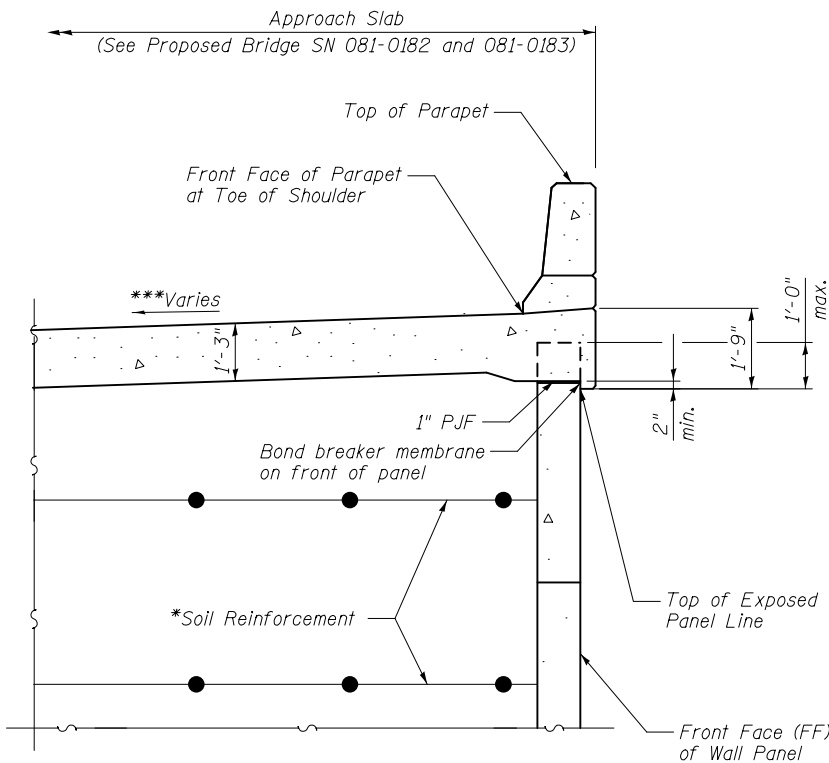
SHEET NO. 5 OF 15 SHEETS

ILLINOIS FED. AID PROJECT

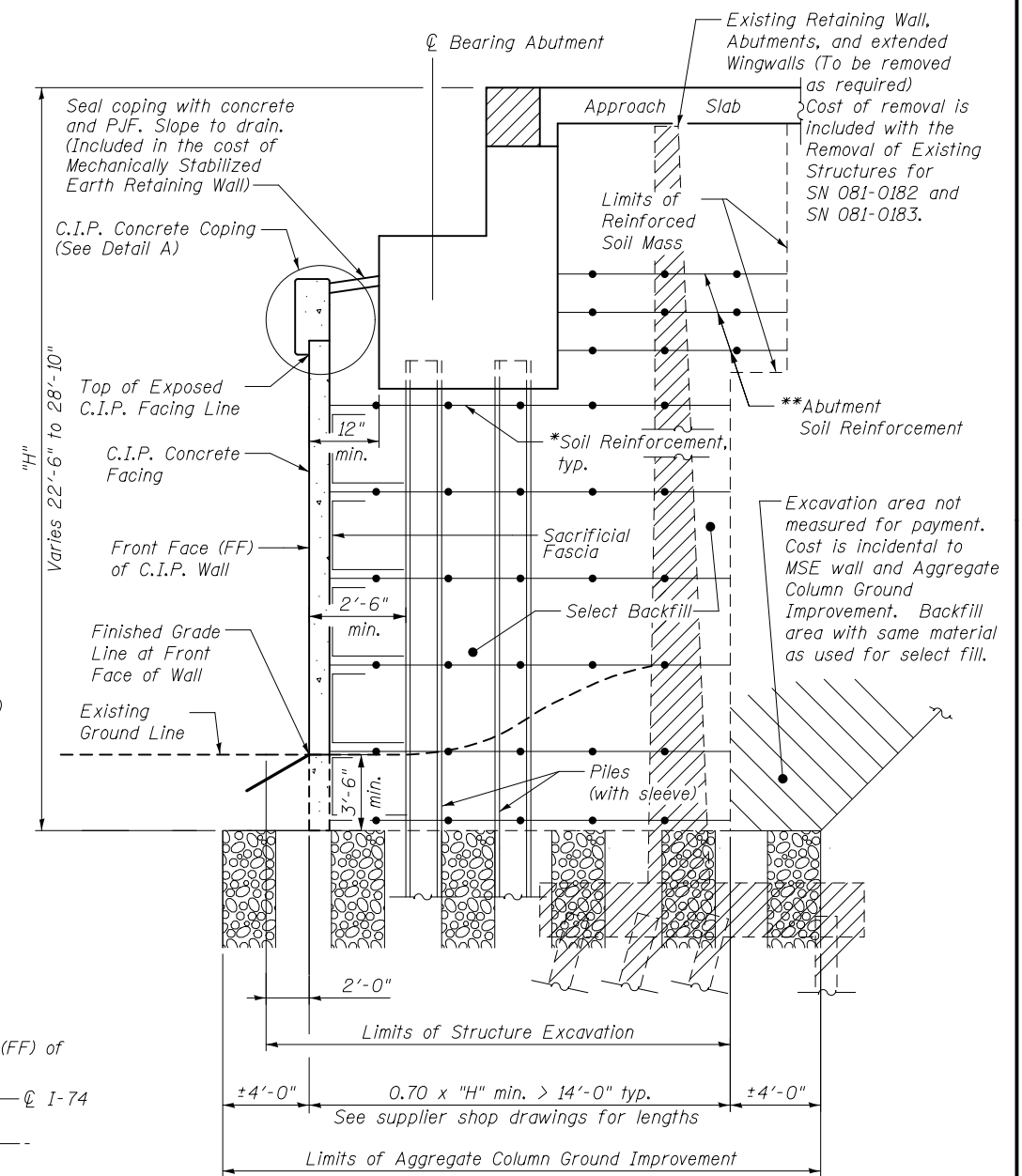


SECTION C-C

(MSE Wingwall not shown for clarity.)

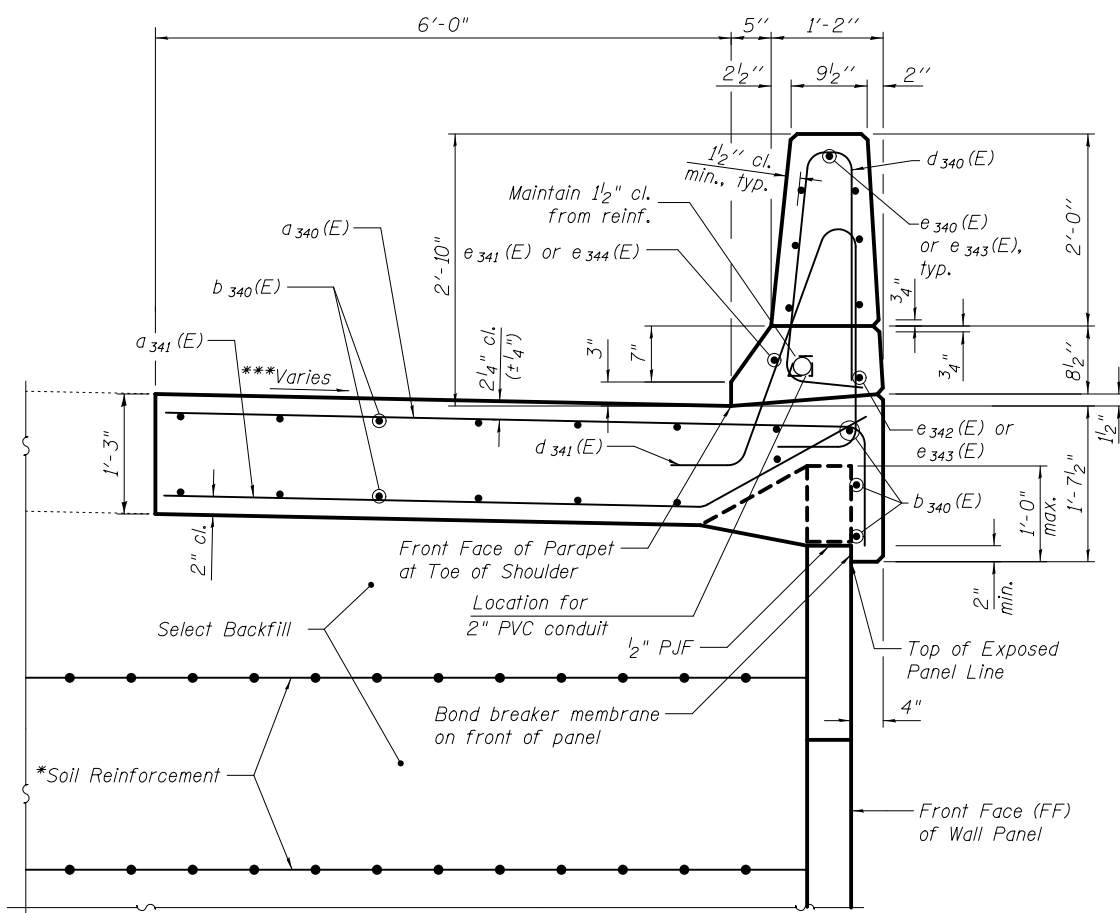


SECTION THRU PARAPET AND APPROACH SLAB

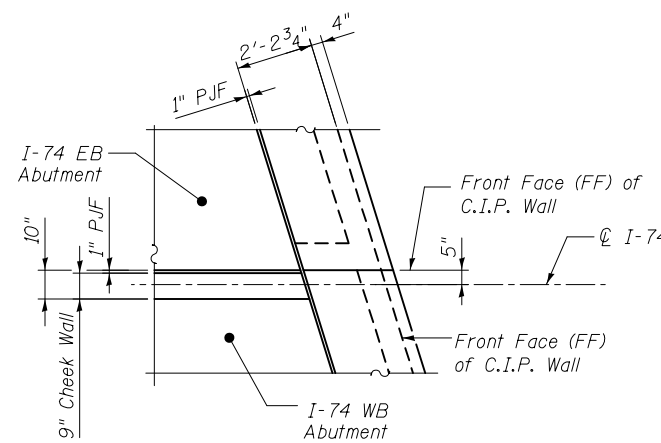


TYPICAL WALL SECTION THRU ABUTMENT

(Section B-B)



SECTION THRU PARAPET AND ANCHORAGE SLAB



VIEW D-D

* The M.S.E. wall supplier's internal stability design shall account for the slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft of wall.

** The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 3.5 kips/ft of abutment. Cost shall be included with the cost of "Mechanically Stabilized Earth Retaining Wall".

*** Cross slope transition varies throughout retaining wall limits. See Roadway Plans for details.

Notes:
See SN 081-0182 and SN 081-0183 plans for abutment, approach slab and cheek wall details.
See Sheet 8 for Detail A.
For location of Section B-B and C-C, see Sheet 3.



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PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

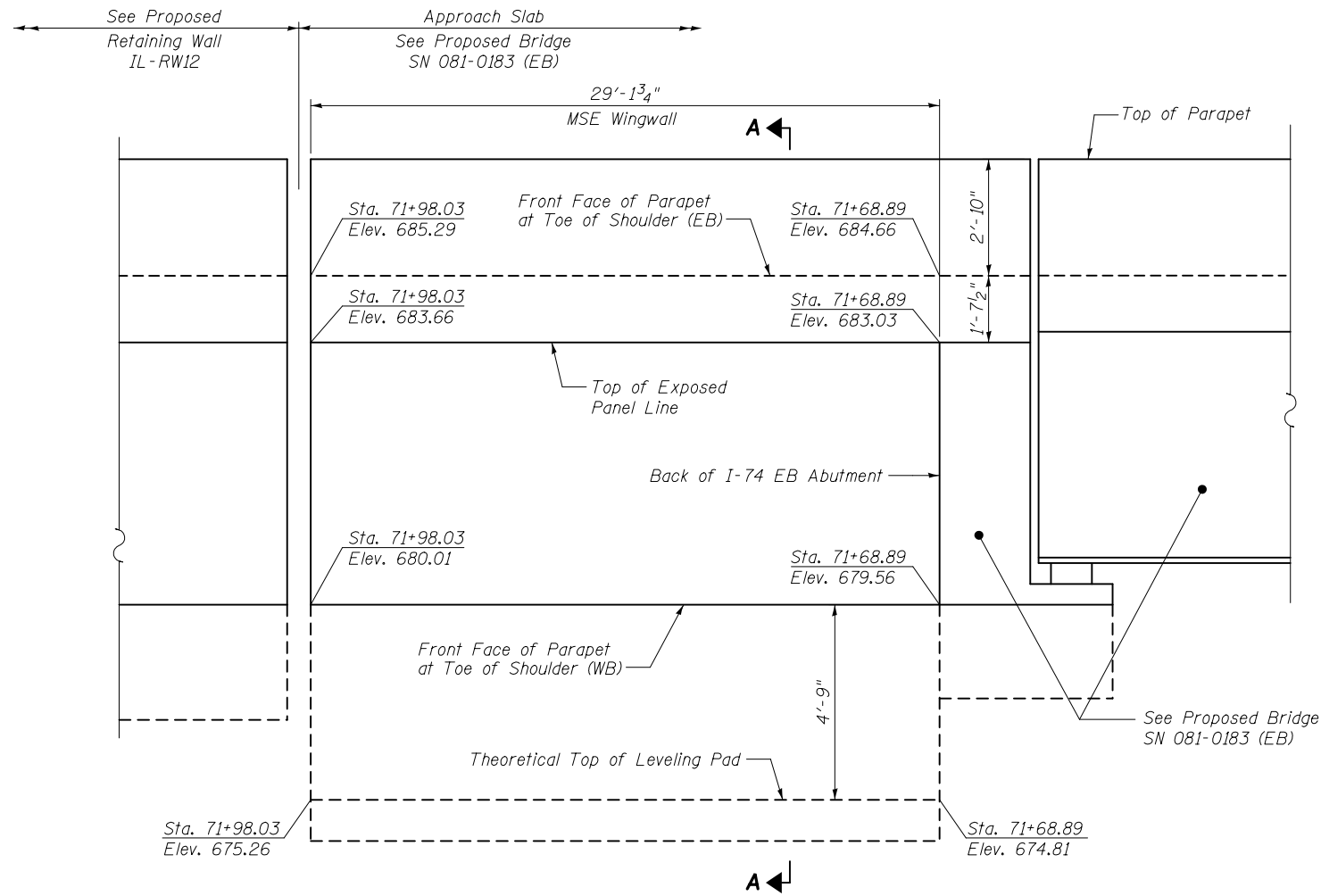
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE DETAILS 2
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

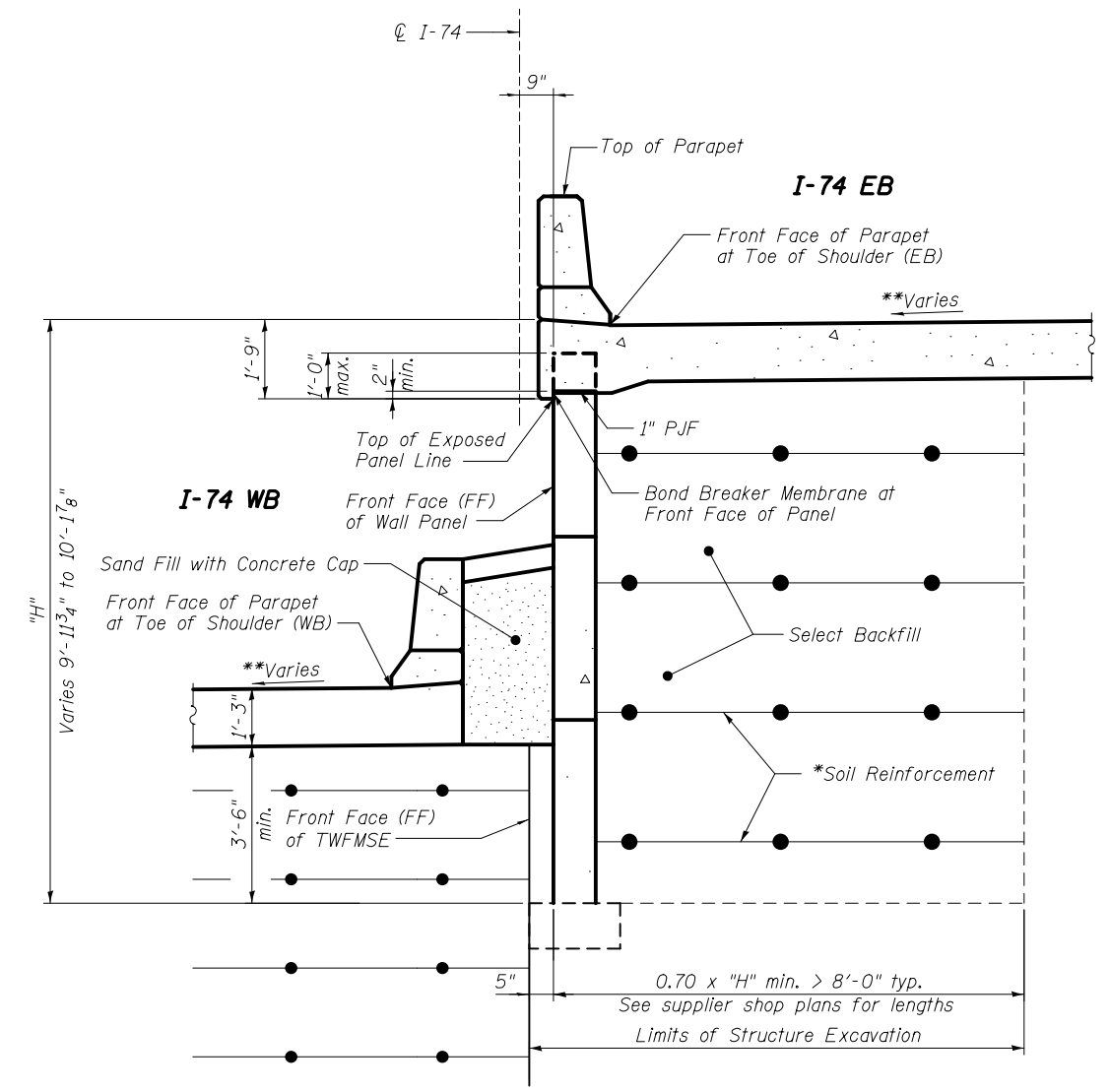
SHEET NO. 6 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1470
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



MSE WINGWALL ELEVATION
 (Looking West)
 (I-74 WB Abutment and WB Parapet not shown for clarity)



SECTION A-A
 (Looking South)

* The M.S.E. wall supplier's internal stability design shall account for the approach slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft of wall.

** Cross slope transition varies throughout retaining wall limits. See Roadway Plans for details.

Notes:
 See SN 081-0182 and SN 081-0183 plans for abutment, approach slab details, sand fill, and concrete cap.
 See Sheet 4 for TWMSE wall details.



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	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

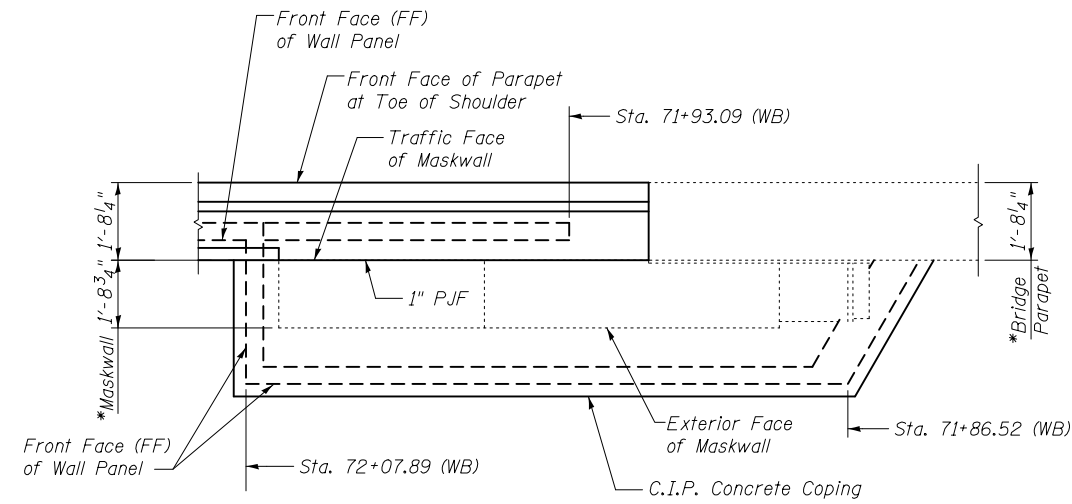
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MSE DETAILS 3
 I-74 (EB) & (WB) RETAINING WALL 13
 STRUCTURE NO. 081-6020

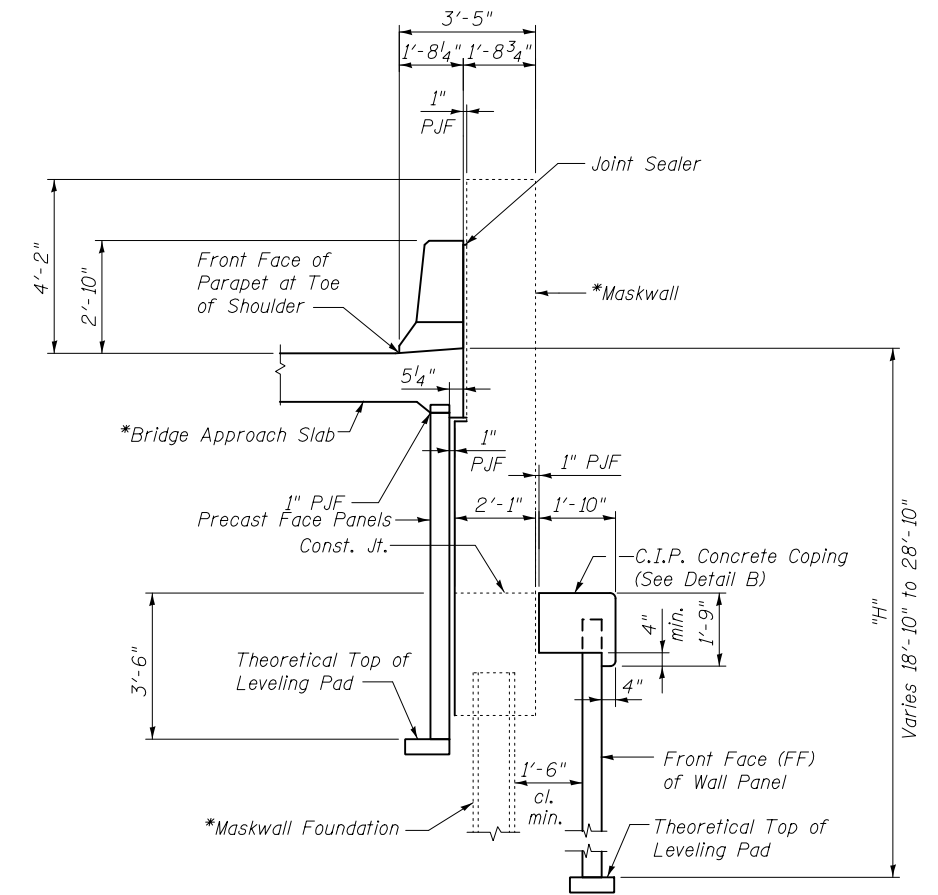
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CONTRACT NO. 64E26				

SHEET NO. 7 OF 15 SHEETS

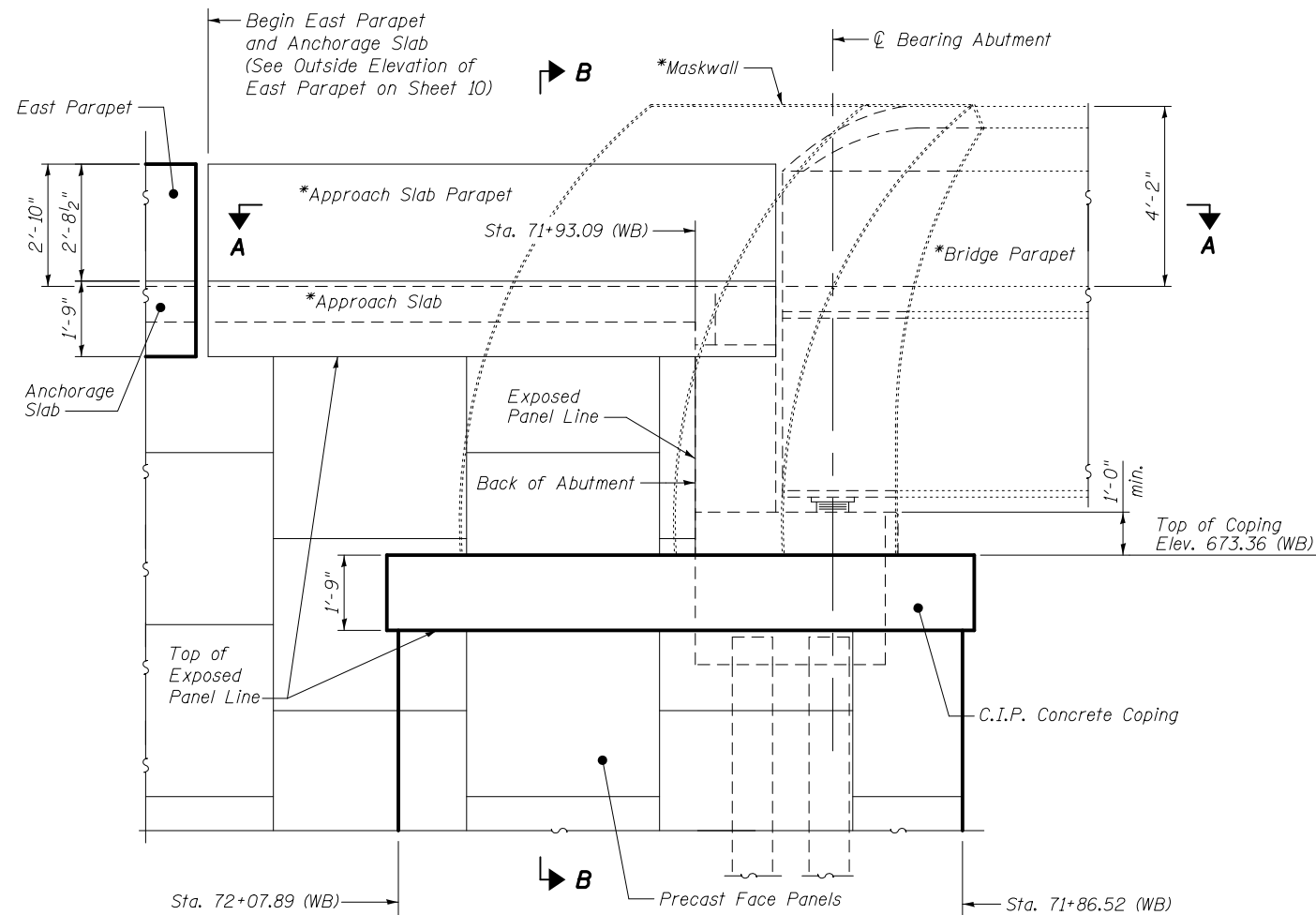
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SECTION A-A



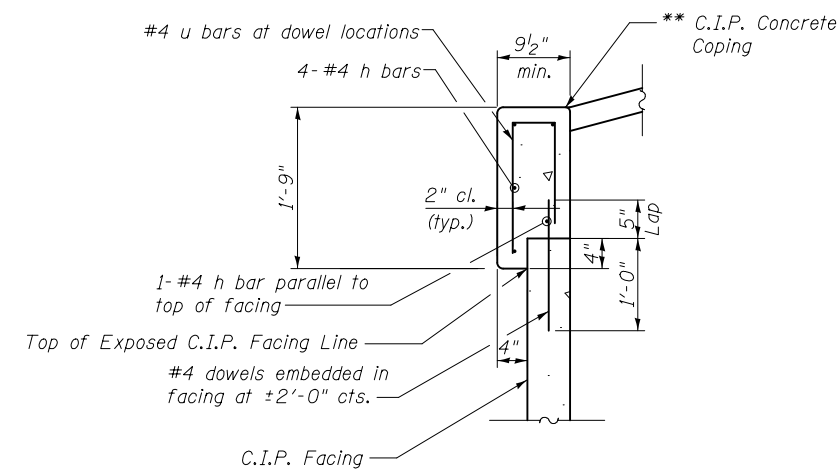
SECTION B-B



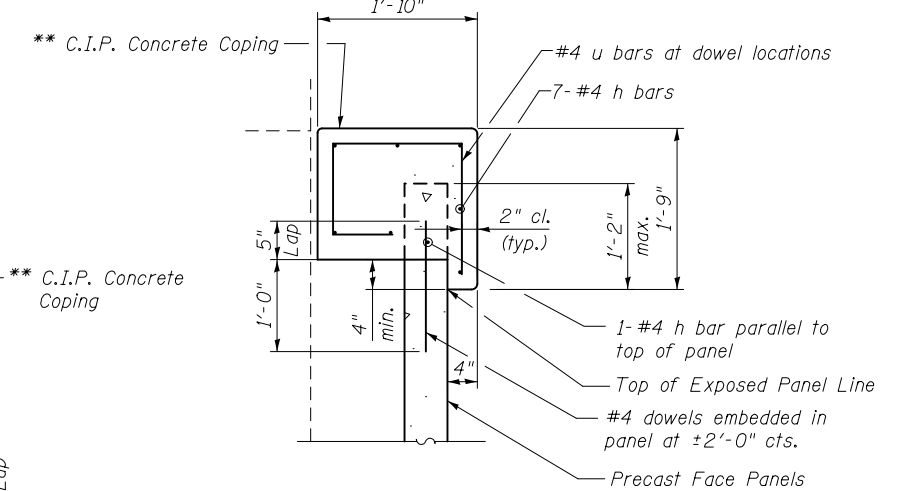
DETAIL 1

(Maskwall foundation not shown for clarity.)
WB Maskwall shown

* See Proposed Bridge SN 081-0182



DETAIL A
C.I.P. CONCRETE COPING



DETAIL B
C.I.P. CONCRETE COPING

Notes:
The soil reinforcement limits for the upper and lower MSE walls shall meet the design requirements provided within the Typical Sections. The width of the lower wall soil reinforcement shall be designed based on "H" as dimensioned in Section B-B. The width of the upper wall soil reinforcement shall be designed based on the height from the upper wall Theoretical Top of Leveling Pad to the Toe of Shoulder and shall be equal to or greater than the limit of soil reinforcement required for the lower MSE wall.
For location of Detail 1, see Sheet 1.
For location of Detail A, see Sheet 6.
For EB Maskwall, see Sheet 9.

** Concrete and reinforcing steel for C.I.P. Concrete Coping are included in the cost of Mechanically Stabilized Earth Retaining Wall.



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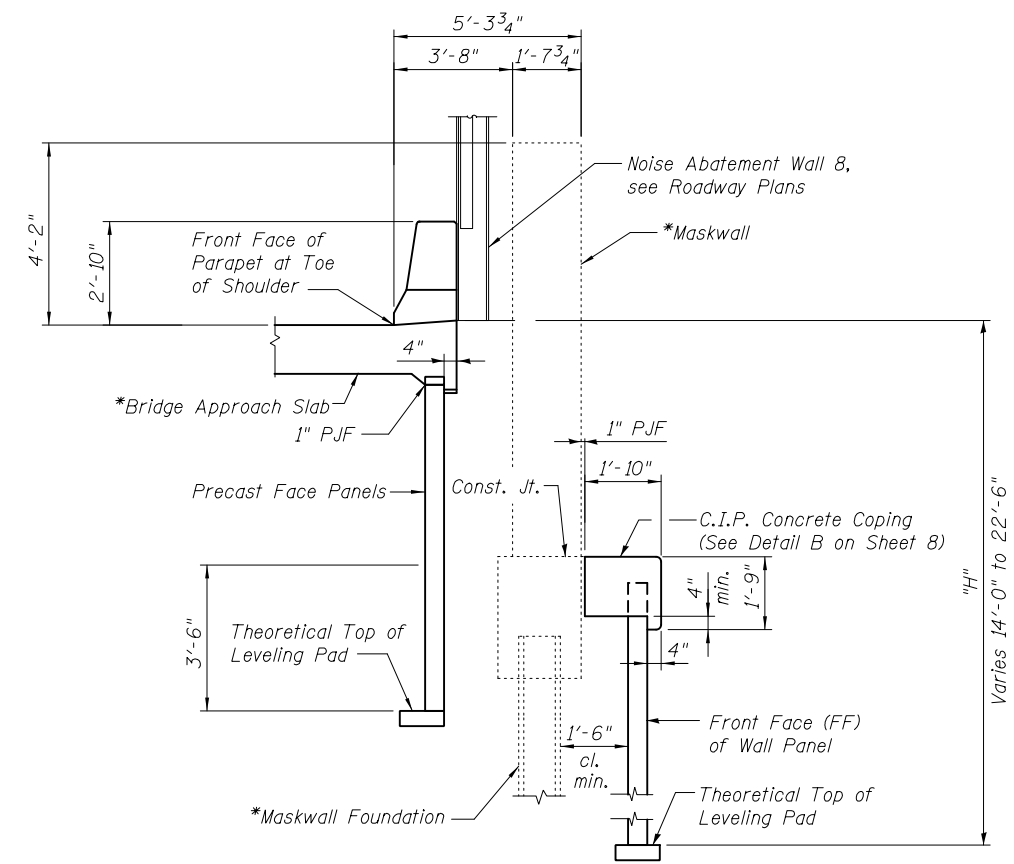
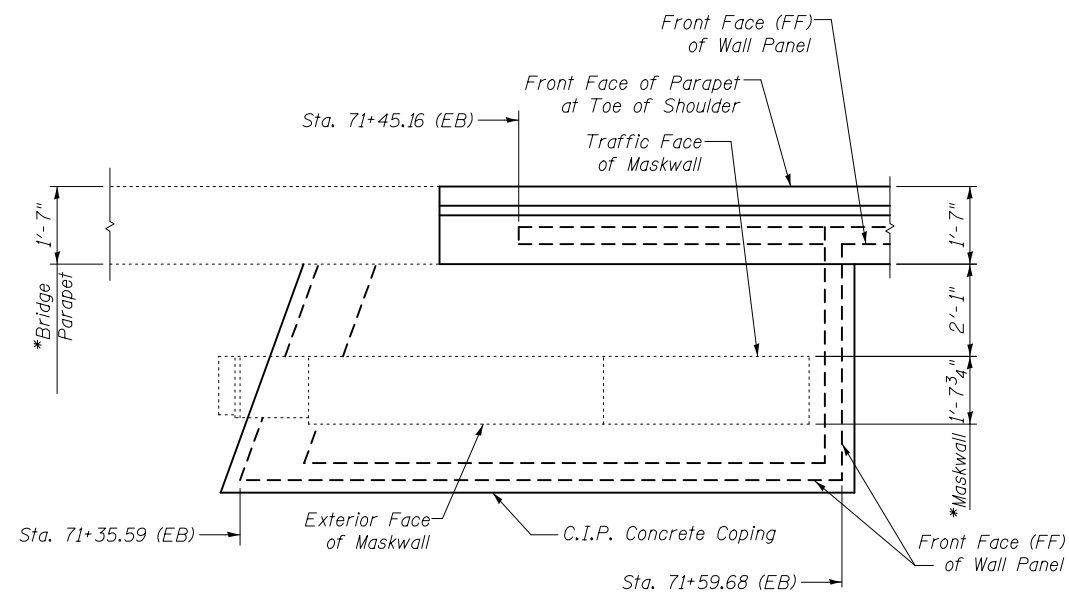
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE DETAILS 4
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

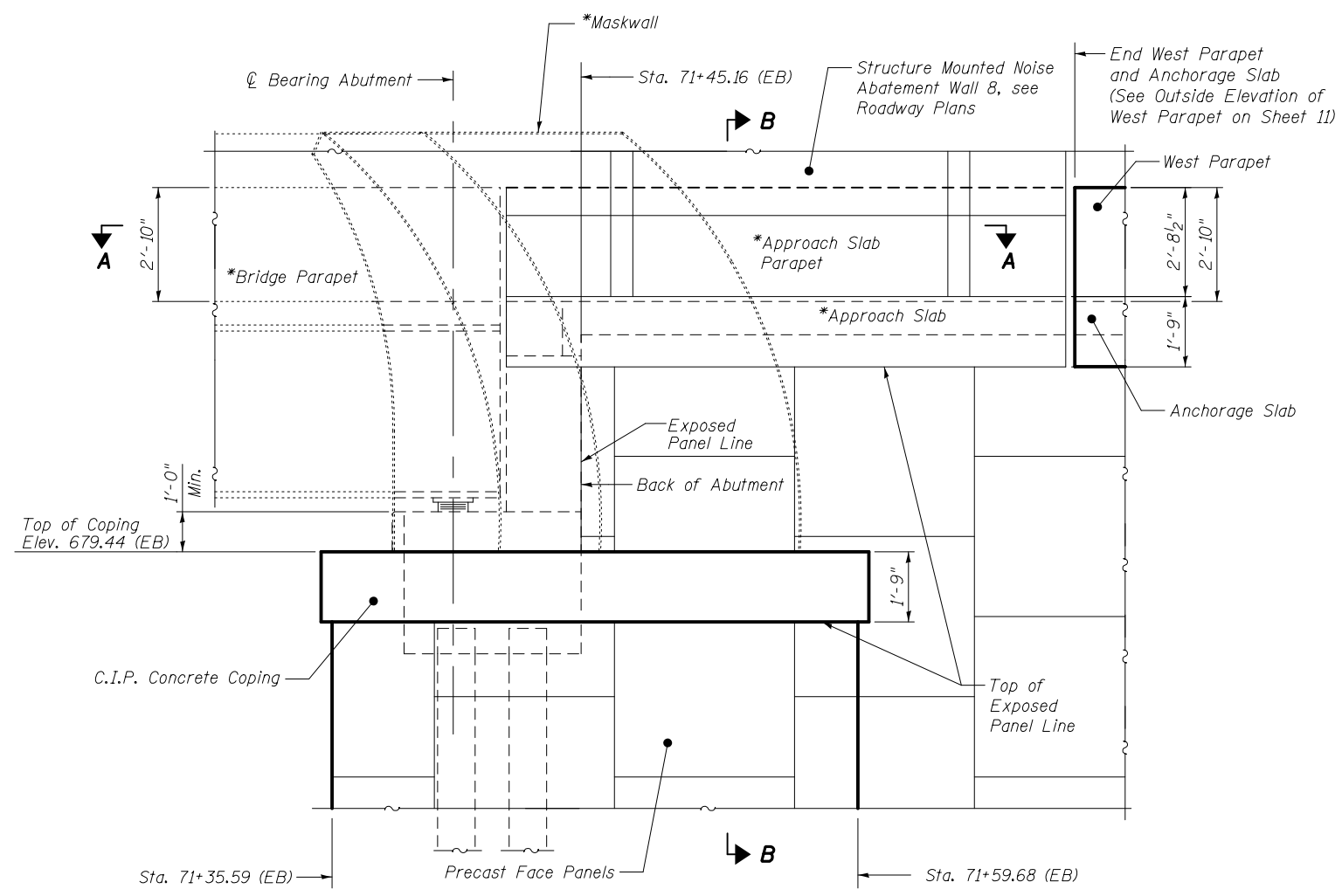
SHEET NO. 8 OF 15 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1)	ROCK ISLAND	2042	1472
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



*See Proposed Bridge SN 081-0183



Notes:
The soil reinforcement limits for the upper and lower MSE walls shall meet the design requirements provided within the Typical Sections. The width of the lower wall soil reinforcement shall be designed based on "H" as dimensioned in Section B-B. The width of the upper wall soil reinforcement shall be designed based on the height from the upper wall Theoretical Top of Leveling Pad to the Toe of Shoulder and shall be equal to or greater than the limit of soil reinforcement required for the lower MSE wall.
For location of Detail 1, see Sheet 1.
For WB Maskwall, see Sheet 8.



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PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

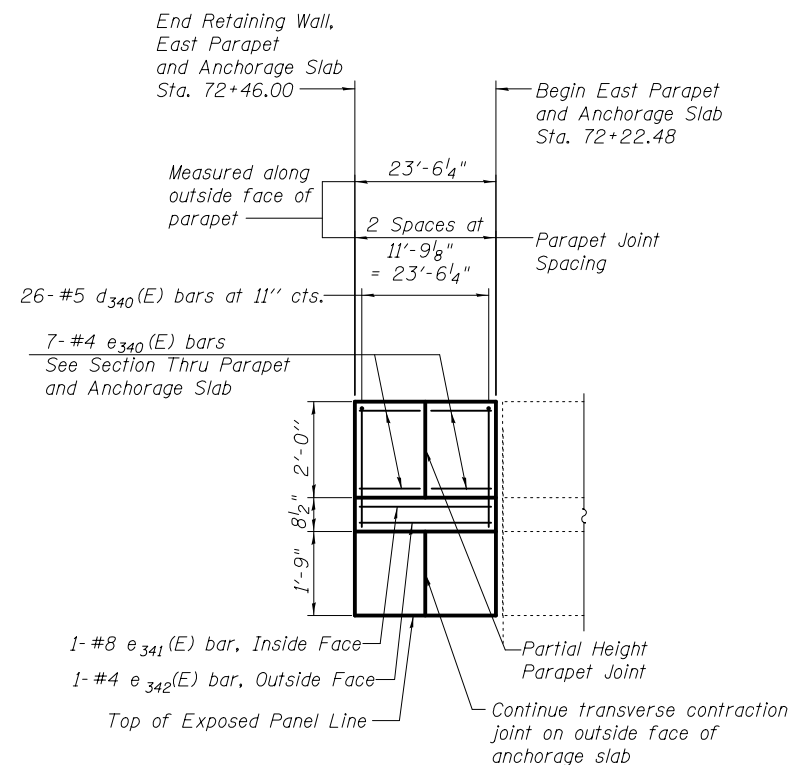
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE DETAILS 5
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020
SHEET NO. 9 OF 15 SHEETS

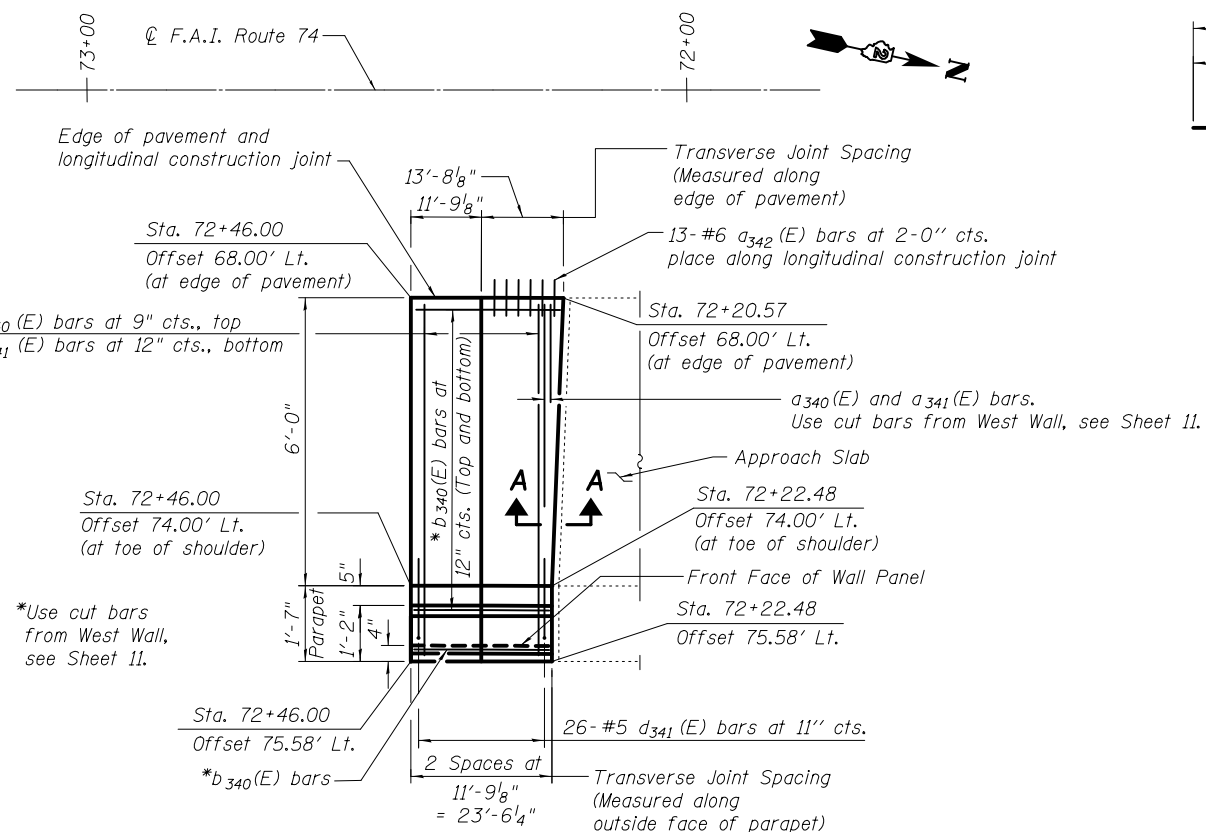
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1473
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

**RETAINING WALL 13
BILL OF MATERIAL**

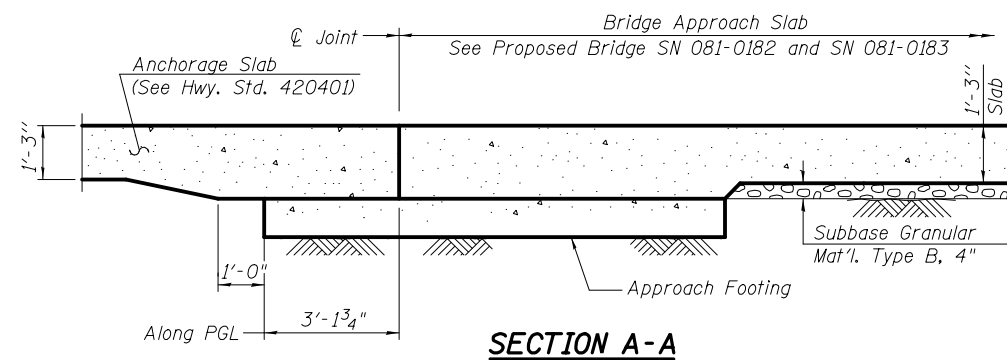
Bar	No.	Size	Length	Shape
a340 (E)	56	#7	8'-6"	
a341 (E)	42	#5	7'-6"	
a342 (E)	21	#6	2'-0"	
b340 (E)	17	#5	40'-9"	
d340 (E)	46	#5	5'-7"	
d341 (E)	46	#5	6'-10"	
e340 (E)	14	#4	11'-6"	
e341 (E)	1	#8	23'-3"	
e342 (E)	1	#4	23'-3"	
e343 (E)	8	#4	17'-5"	
e344 (E)	1	#8	17'-5"	
Reinforcement Bars, Epoxy Coated			Pound	3,010
Concrete Superstructure			Cu. Yd.	20.4



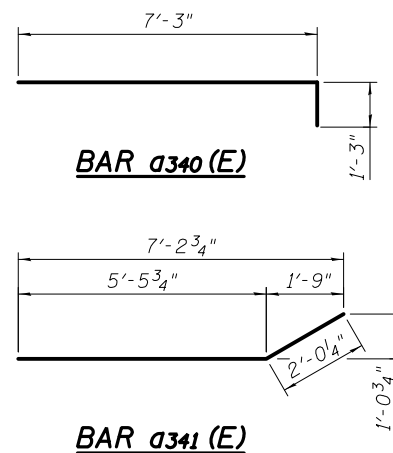
OUTSIDE ELEVATION OF EAST PARAPET



PLAN - EAST PARAPET AND ANCHORAGE SLAB

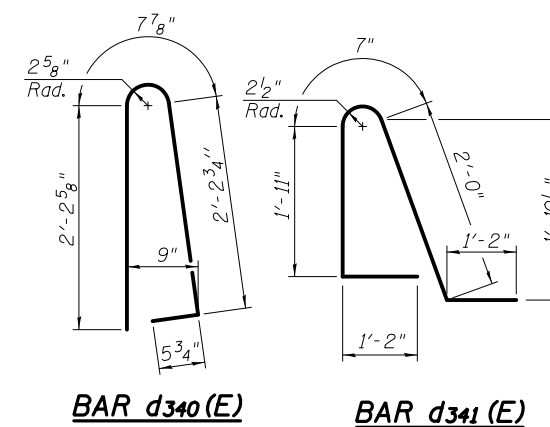


SECTION A-A



BAR a340 (E)

BAR a341 (E)



BAR d340 (E)

BAR d341 (E)

Notes:
For Section Thru Parapet and Anchorage Slab, see Sheet 6.
Joints in the adjacent pavement shall be aligned with the anchorage slab joints.
Stations and offsets on this sheet are given to the outside face of the parapet and are measured from the centerline of F.A.I. Route 74, except as noted.



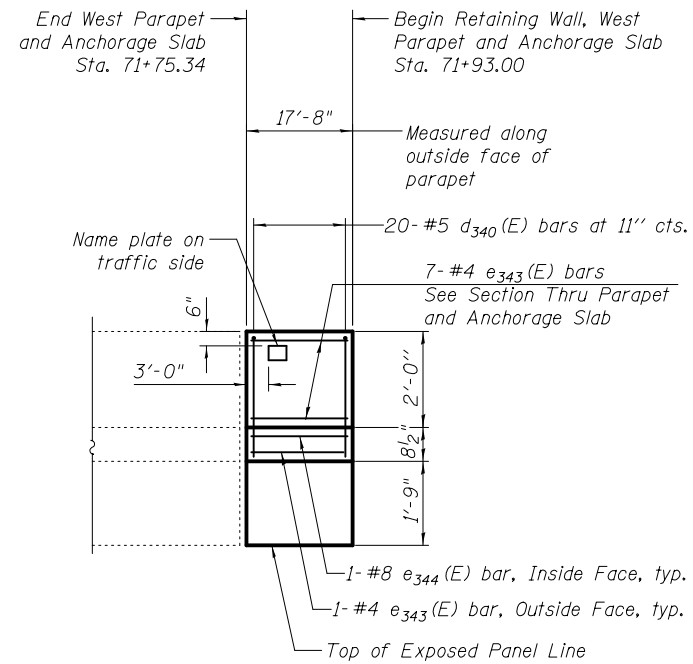
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PLOT SCALE =	DRAWN - MLA	REVISED
PLOT DATE = 03/23/2017	CHECKED - ZJB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

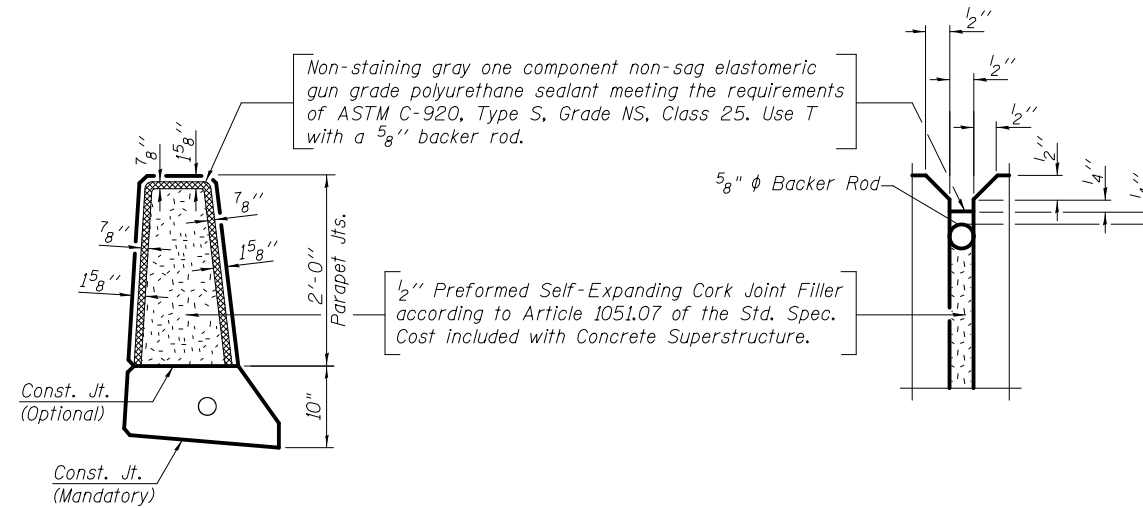
PARAPET AND ANCHORAGE SLAB 1
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020

SHEET NO. 10 OF 15 SHEETS

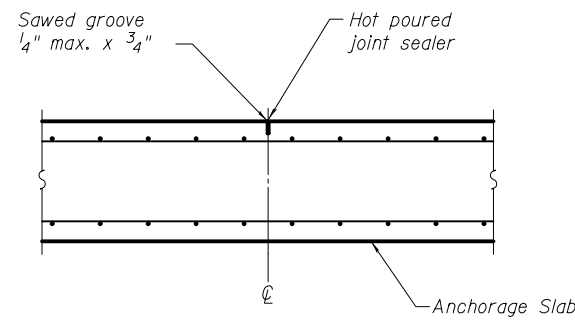
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R-1)	ROCK ISLAND	2042	1474
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



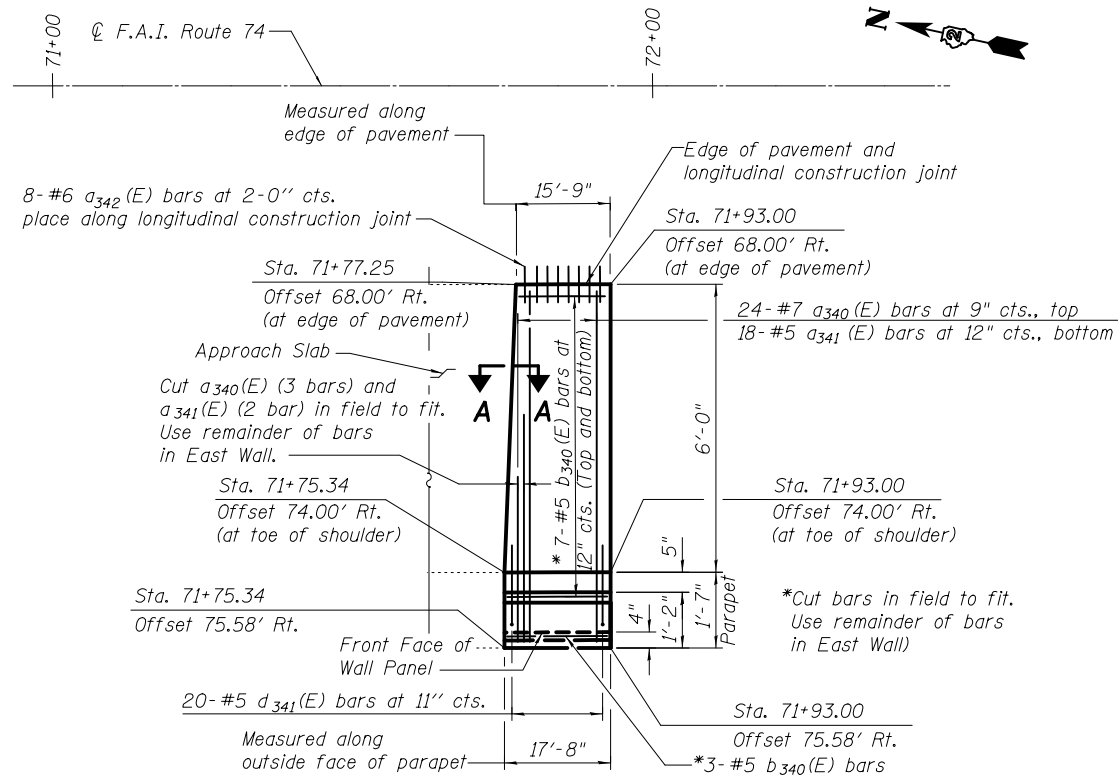
OUTSIDE ELEVATION OF WEST PARAPET



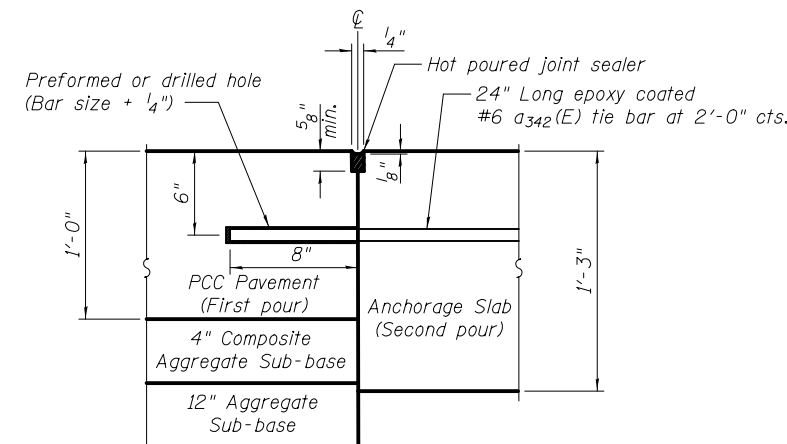
PARAPET JOINT DETAILS



TRANSVERSE CONTRACTION JOINT



PLAN - WEST PARAPET AND ANCHORAGE SLAB



Notes:
 The Contractor may substitute at his option, formed in place tie bars provided the bar length is increased to 30" and the tie bar is centered across the joint.
 Preformed or drilled hole shall be in the first pour.

**LONGITUDINAL CONSTRUCTION JOINT
 GROUTED-IN-PLACE TIE BAR**

Notes:
 For Section Thru Parapet and Anchorage Slab, see Sheet 6.
 For Section A-A and Bill of Material, see Sheet 10.
 Joints in the adjacent pavement shall be aligned with the anchorage slab joints.
 Stations and offsets on this sheet are given to the outside face of the parapet and are measured from the centerline of F.A.I. Route 74, except as noted.



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - ZJB	REVISED
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STATE OF ILLINOIS
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PARAPET AND ANCHORAGE SLAB 2
 I-74 (EB) & (WB) RETAINING WALL 13
 STRUCTURE NO. 081-6020

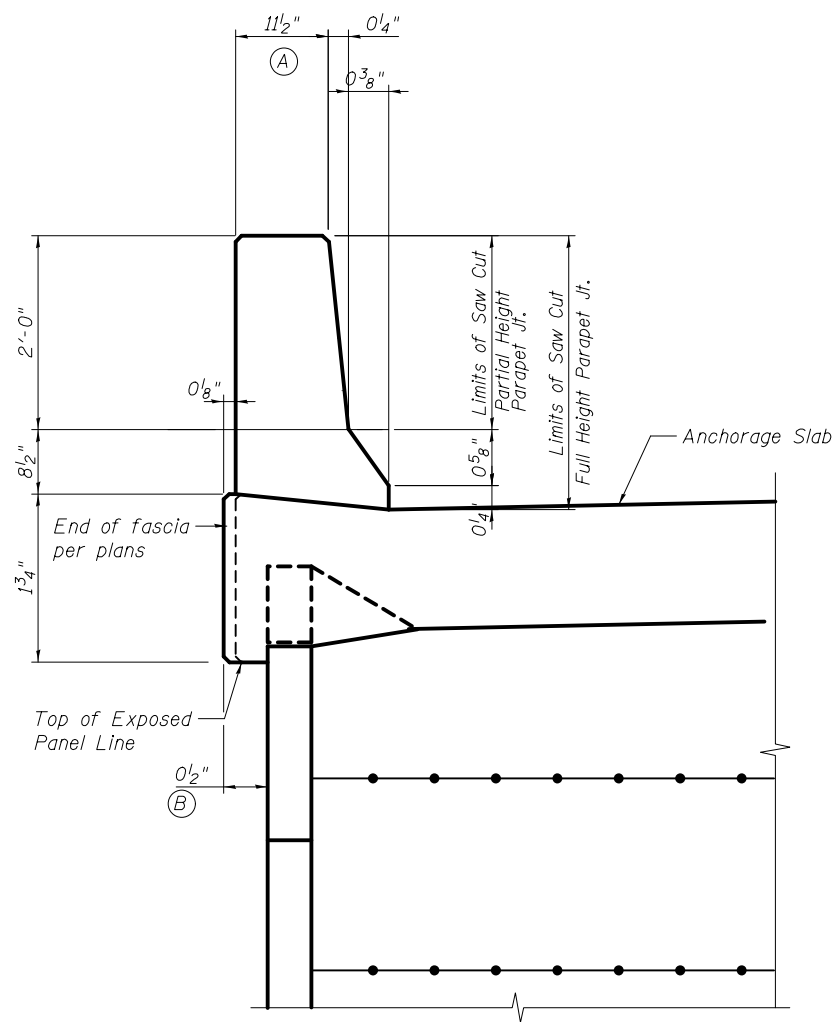
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1475
CONTRACT NO. 64E26				

SHEET NO. 11 OF 15 SHEETS

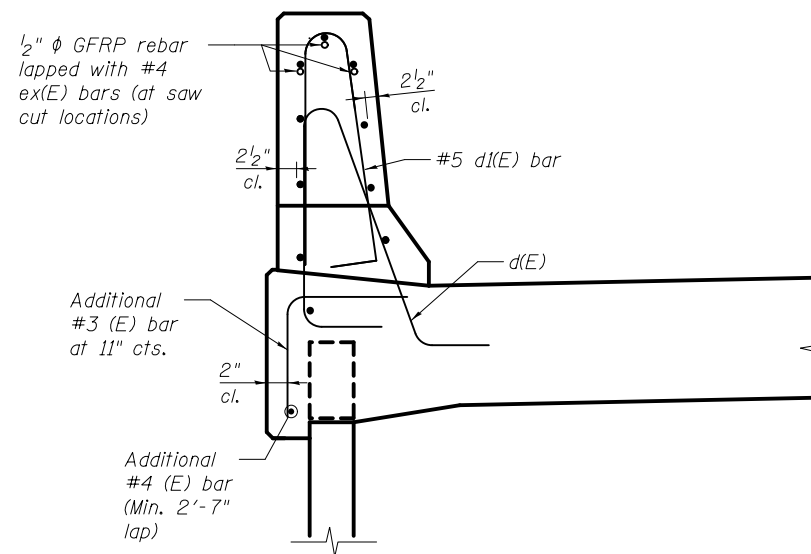
ILLINOIS FED. AID PROJECT

GENERAL NOTES

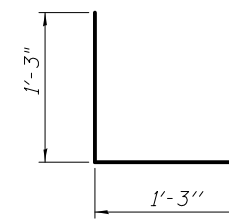
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A equals 0.016 cu. yds./ft. Full thickness saw cut at all joint locations in lieu of cork joint filler.



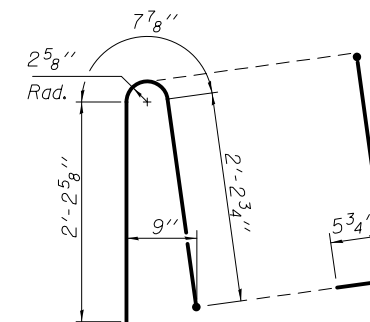
SECTION THRU PARAPET AND ANCHORAGE SLAB



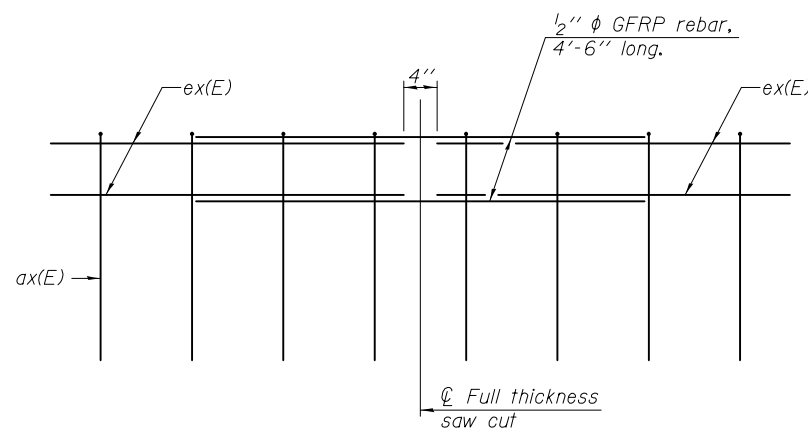
SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement)



#3 (E) BAR



ALTERNATE BAR #5-d(E)
(When conduit is present)



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450

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	CHECKED - SLD	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE = 03/23/2017	CHECKED - SLD	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL PARAPET SLIPFORMING OPTION
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1JR-1)	ROCK ISLAND	2042	1476
CONTRACT NO. 64E26				

SHEET NO. 12 OF 15 SHEETS

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
CH2M HILL

SOIL BORING LOG

Page 1 of 3

Date 12/15/05

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY B. Kamik
SECTION I-74 Bridge over Mississippi River LOCATION (N=560656.718, E=2459835.618), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	DEPTH	DESCRIPTION	U	M
Station	PTS	Qu	TSF	Q	ft	PTS	Qu	TSF	Q
		Asphalt Cement Concrete 1' asphalt cement concrete - Hole offset to shoulder of I-74 Eastbound gps point #49							
	4								
	5	Silty Clay (CL) Greenish gray, moist, stiff, low plasticity, with fine rounded to subrounded gravel, fill. Power auger for 1ft, HSA to 40ft (continued)	4.5	P					
	6								
	5		0.8	P					
	4								
	3								
	2	Brown, moist, soft, medium plasticity, fine rounded-subrounded gravel, fill							
	2	Soil frozen until 5'							
	3								
	W/OH								
	3								
	4								
	W/OH								
	2	Dark gray, soft, moist, with brick pieces, fill							
	3								
	4								
	18.0								
	2								
	4								
	6								
	8								
	15								
	20								

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
CH2M HILL

SOIL BORING LOG

Page 2 of 3

Date 12/15/05

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY B. Kamik
SECTION I-74 Bridge over Mississippi River LOCATION (N=560656.718, E=2459835.618), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	DEPTH	DESCRIPTION	U	M
Station	PTS	Qu	TSF	Q	ft	PTS	Qu	TSF	Q
		Sandy Lean Clay Trace Gravel (CL) Reddish brown, stiff, dry, low plasticity, fine to coarse, subangular-angular gravel, fill-rubble till. Possible water at 32' while drilling (continued)							
	5								
	8								
	12								
	13								
	45								
	5								
	7								
	11								
	12								
	50								
	7								
	9								
	13								
	15								
	55								
	5	Grayish brown, unweathered glacial clay							
	8								
	12								
	14								
	60								

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
CH2M HILL

SOIL BORING LOG

Page 3 of 3

Date 12/15/05

ROUTE I-74 DESCRIPTION New I-74 Bridge Over Mississippi River - Illinois Approach LOGGED BY B. Kamik
SECTION I-74 Bridge over Mississippi River LOCATION (N=560656.718, E=2459835.618), SEC. 32, TWP. 18N, RNG. 1W, 4th PM
COUNTY Rock Island DRILLING METHOD HSA, CME 55 HAMMER TYPE CME AUTOMATIC

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	DEPTH	DESCRIPTION	U	M
Station	PTS	Qu	TSF	Q	ft	PTS	Qu	TSF	Q
		Sandy Lean Clay Trace Gravel (CL) Reddish brown, stiff, dry, low plasticity, fine to coarse, subangular-angular gravel, fill-rubble till. Possible water at 32' while drilling (continued)							
	6								
	8								
	10								
	13								
	65								
	6								
	7								
	12								
	14								
	70								
	7								
	9								
	10								
	13								
	75								
	5								
	7								
	10								
	12								
	16								
	80								

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)



USER NAME =	DESIGNED - YSS	REVISED
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PLOT SCALE =	DRAWN - MLA	REVISED
PLOT DATE = 03/23/2017	CHECKED - YSS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
I-74 (EB) & (WB) RETAINING WALL 13
STRUCTURE NO. 081-6020
SHEET NO. 13 OF 15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1477
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

Date 6/24/10

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY JMB

SECTION 81-1-2 LOCATION NW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 081-6020
 Station _____
 BORING NO. RW 13-1
 Station 71+47
 Offset 5' Lt.
 Ground Surface Elev. 658.5 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)
2	3	0.50P	22
3			
4		1.80P	19
		1.30P	19
		2.00P	14
		2.00P	15

ASPHALT 658.30
 CONCRETE 657.60
 Dark brown, moist, medium stiff, silty CLAY with trace gravel
 Brown, moist, sandy CLAY 655.00
 Brown, moist, silty CLAY 652.50
 651.50
 Hole terminated due to equipment problems. Deformed auger tooth caused sample disturbance. 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)



SOIL BORING LOG

Page 1 of 1

Date 6/24/10

ROUTE F.A.I. 74 DESCRIPTION I-74 Over Mississippi River LOGGED BY JMB

SECTION 81-1-2 LOCATION NW¼ of SEC. 4, TWP. 17N, RNG. 1W, 4th P.M.

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 081-6020
 Station _____
 BORING NO. RW 13-1A
 Station 71+49
 Offset 8' Lt.
 Ground Surface Elev. 658.1 ft

DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)
3	4	0.56B	11
4		1.75B	15
		2.17S	13
6		3.10B	15
		4.60S	15
8		50/5*	20
8	8	4.50P	11
12			
14	7	3.55B	11
	12		
	18		

ASPHALT 657.90
 CONCRETE 657.20
 Brown and gray, moist, medium stiff, silty CLAY with trace sand
 Brown, moist, very stiff, clayey SILT with trace sand and gravel 652.10
 Gray, moist, hard, silty CLAY with trace sand and gravel 648.10
 End of Boring 643.10

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)



USER NAME =	DESIGNED - YSS	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - MLA	REVISED
PLOT DATE = 03/23/2017	CHECKED - YSS	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
 I-74 (EB) & (WB) RETAINING WALL 13
 STRUCTURE NO. 081-6020

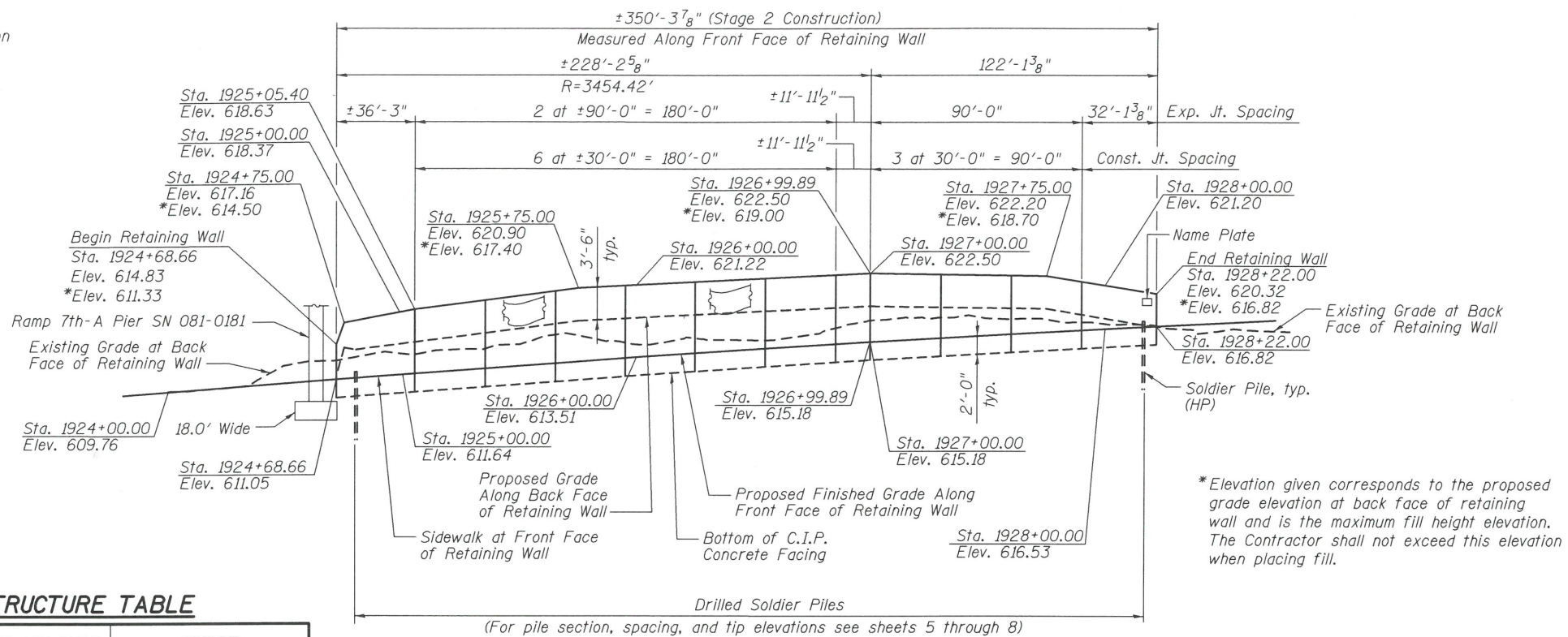
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1479
CONTRACT NO. 64E26				

SHEET NO. 15 OF 15 SHEETS

ILLINOIS FED. AID PROJECT

Benchmark No. 586:
Cut "X" on Northerly Bolt of
Existing Ramp 7th-A Pier Foundation
Elevation NAVD 88 = 614.214

Existing Structures:
None



DRAINAGE STRUCTURE TABLE

STRUCTURE	STATION	SIZE AND TYPE	INVERT
STR N38	1924+86.73	5' MH, Type A	Inv. N. Elev. 612.60 Inv. W. Elev. 605.00 Inv. NW. Elev. 610.40
STR N38a	1924+86.73	4' MH, Type A	Inv. S. Elev. 604.50 Inv. E. Elev. 604.50
STR N38c	1924+77.62	3' Inlet, Type B	Inv. S. Elev. 610.50
STR N39	1925+40.00	5' MH, Type A	Inv. N. Elev. 603.97 Inv. W. Elev. 603.87

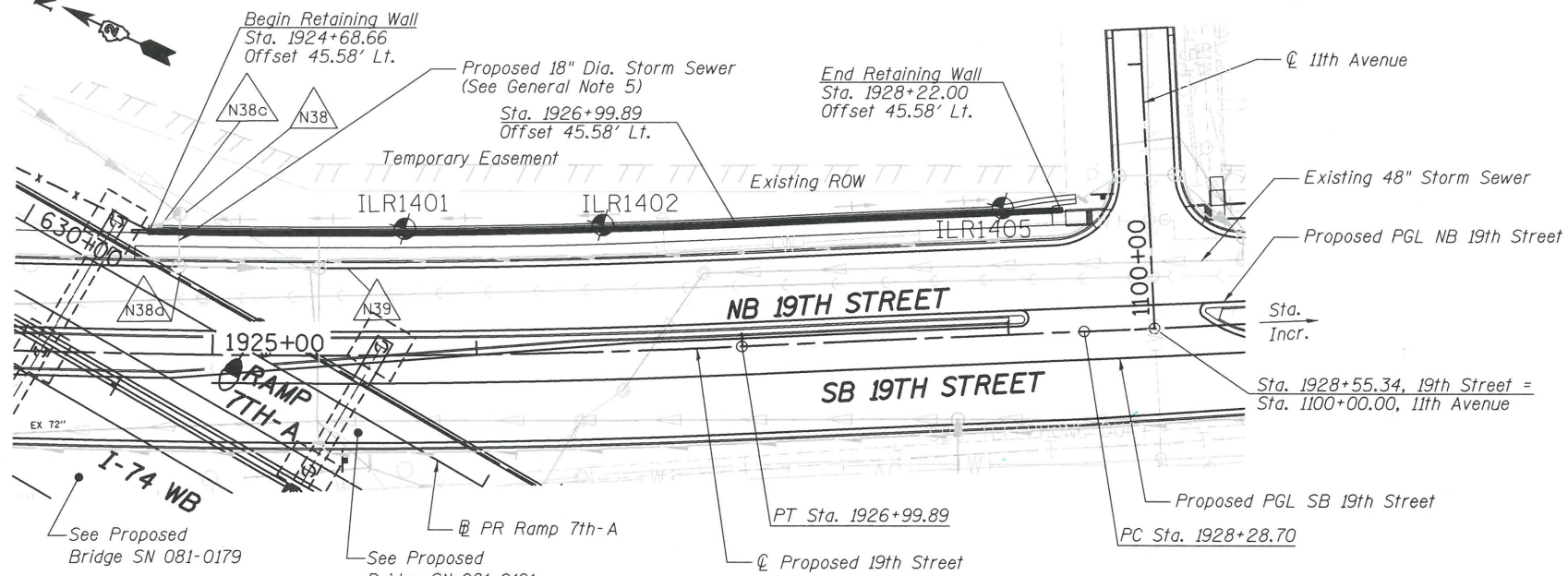
Note:
French drain outlets connect to the 6" pipe underdrain in front of the wall at the above station 1925+40.00 and at the end of the wall.

CURVE DATA

PR CURVE 19TH_3
PI STA = 1923+30.58
 $\Delta = 12^\circ 08' 13''$ (LT)
D = 1° 38' 13"
R = 3,500.00'
T = 372.09'
L = 741.40'
E = 19.72'
e = N.C. (2.0%)
T.R. = N/A
S.E. RUN = N/A
PC STA = 1919+58.49
PT STA = 1926+99.89

LEGEND

- Soil Borings
- C.I.P. Concrete Facing with Form Liner Finish (See sheet 4 for limits)
- Drainage Structure



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD
Bridge Design Specifications,
6th Edition

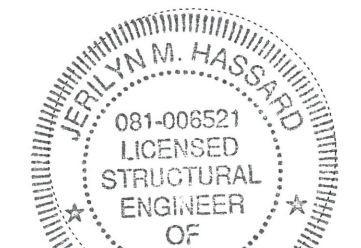
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel)

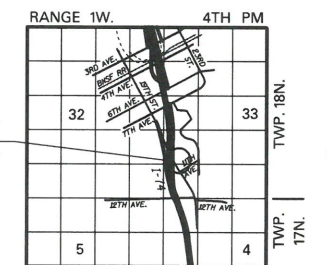
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes
- 3-4 Wall Sections and Details 1-2
- 5-8 Soldier Pile Wall Layout Plans 1-4
- 9 Boring Logs



Jerilyn M. Hassard
3-23-17

JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006521
EXPIRES 11/30/2018



LOCATION SKETCH

Notes:
Utilities shown will be relocated by others to avoid any conflicts during construction (See Utility Plans)
See Drainage and Utilities Plans for inlet details, french drain outlet, and gutter details.
See C.I.P. Retaining Wall Aesthetic Plans for required form liner finish.
See Right of Way Plans for limits of existing right of way and temporary easement.

GENERAL PLAN AND ELEVATION

F.A.I. ROUTE 74 SEC. (81-1)R-1

ROCK ISLAND COUNTY

19TH STREET Sta. 1924+68.66 to Sta. 1928+22.00

RETAINING WALL 14



USER NAME =	DESIGNED - ACK	REVISED
PLOT SCALE =	CHECKED - ZJB	REVISED
PLOT DATE = 03/23/2017	DRAWN - AEC/PRC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
19TH STREET RETAINING WALL 14

SHEET NO. 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1480
			CONTRACT NO. 64E26	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Wall stations and offsets are given to the front face (FF) of the wall and are measured from the centerline of 19th Street, except as noted. FF of the wall is to be considered edge of form liner.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
4. The proposed 18" dia. storm sewer connecting drainage structures N38 and N38a shall be placed and the backfill compacted prior to drilling the piles.
5. A sand layer was encountered in two of the three borings which may require the use of temporary casing or the wet method of construction.
6. Construction of the soldier pile wall shall be coordinated with the construction of the adjacent bridge footing. See proposed bridge SN 081-0181. The bridge footing shall be constructed and backfilled prior to drilling the soldier piles within the footing excavation limits.
7. Fill material placed behind the wall shall be cohesive embankment material similar to the native soils, placed in 8 inch thick maximum horizontal lifts and uniformly compacted with suitable, hand-operated mechanical equipment. Large earth-moving equipment shall not be operated directly behind the wall.
8. Soldier piles have been designed to carry the maximum height of soil behind the wall that is expected to occur during its construction. The depth of excavation for adjacent construction activity, including maintenance of traffic, shall not exceed that which is required for the construction of the wall unless the Contractor either verifies that further excavation will not compromise the integrity of the wall, or redesigns the wall for the adjusted height of soil which is to be supported.
9. All concrete for the C.I.P. facing with a form liner textured surface shall be self-consolidating concrete meeting the requirements of Section 1020 of the Standard Specifications. This work shall be included in the cost of the concrete used and no additional compensation will be allowed.

TOTAL BILL OF MATERIAL

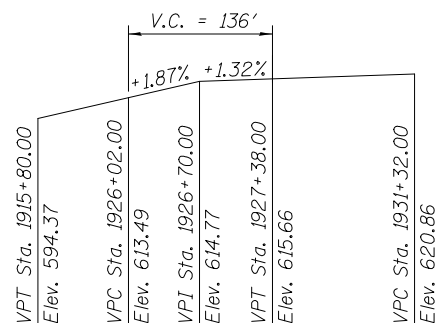
ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	135
Concrete Structures	Cu. Yd.	123.8
Form Liner Textured Surface	Sq. Ft.	1159
Stud Shear Connectors	Each	232
Reinforcement Bars, Epoxy Coated	Pound	18,080
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	133
Furnishing Soldier Piles (HP Section)	Ft.	788
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	2,415
Untreated Timber Lagging	Sq. Ft.	1,213
Pipe Underdrains for Structures 4"	Ft.	351

STATION 1928+22.00
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.I. RT. 74 SEC. (81-1)R-1
 LOADING HL-93

NAME PLATE
 See Std. 515001

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Complete Structure Excavation to the top of Soldier Piles.
2. Drill shaft excavations for Soldier Piles to specified bottom elevations maintaining required tolerances and hole stability.
3. Remove loose material and excess water from excavated shafts. Place Soldier Piles in holes and properly locate and brace.
4. Place Class DS Concrete in the holes to the level of the base of the proposed Concrete Facing, then place Controlled Low Strength Material (C.L.S.M.) to the existing ground surface.
5. After all concrete has attained the required design strength, excavate the soil in front of the wall to proposed grade with simultaneous removal of C.L.S.M. at the face of the Soldier Piles and place lagging as specified.
6. Construct wall drainage features at the base of the wall.
7. Place shear studs on Soldier Piles and construct Concrete Facing.
8. Complete final grading at the base and top of the wall.



PROFILE GRADE

(Along NB PGL 19th Street)



USER NAME =	DESIGNED - ACK	REVISED
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PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

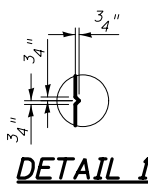
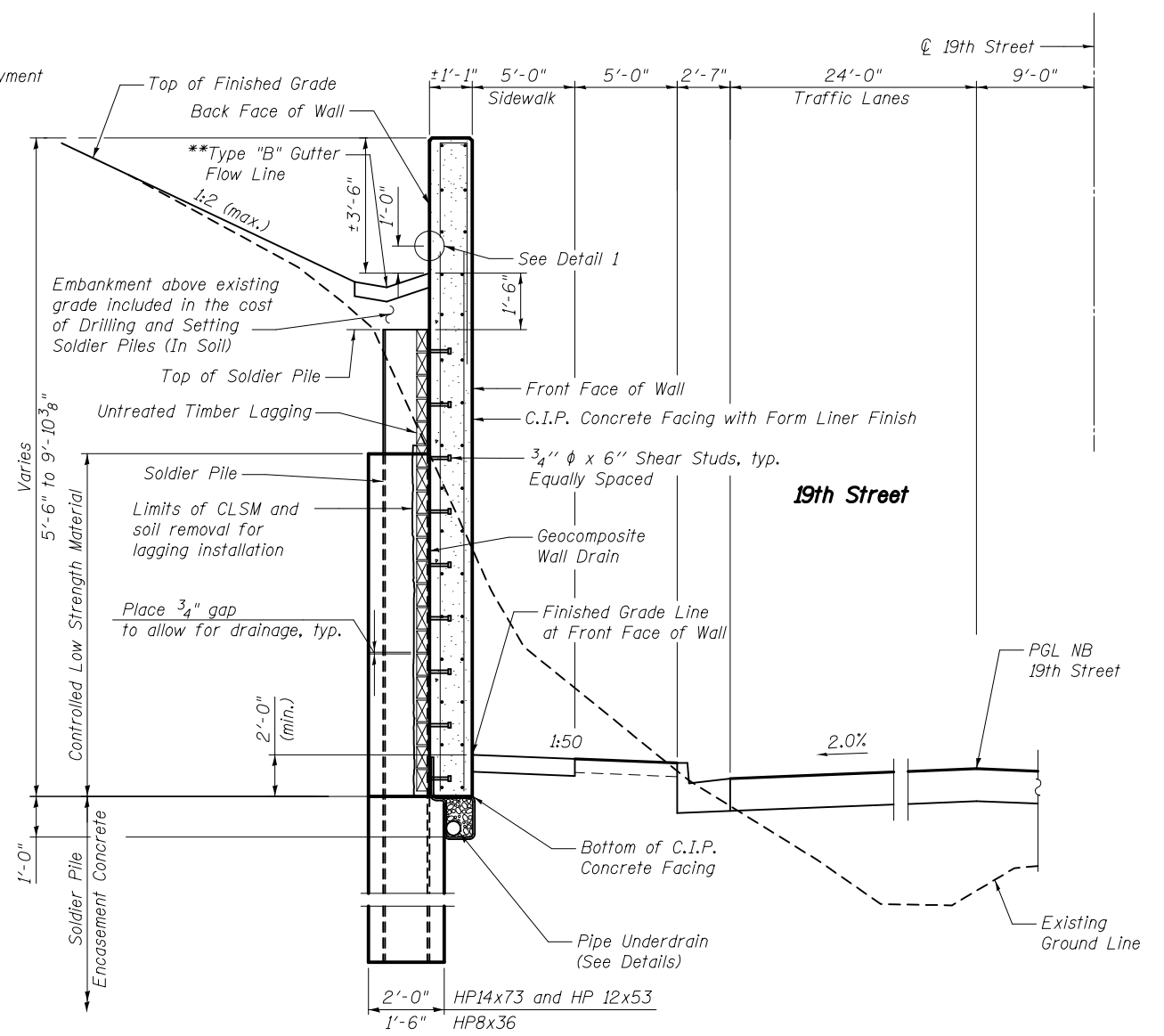
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
 19TH STREET RETAINING WALL 14

SHEET NO. 2 OF 9 SHEETS

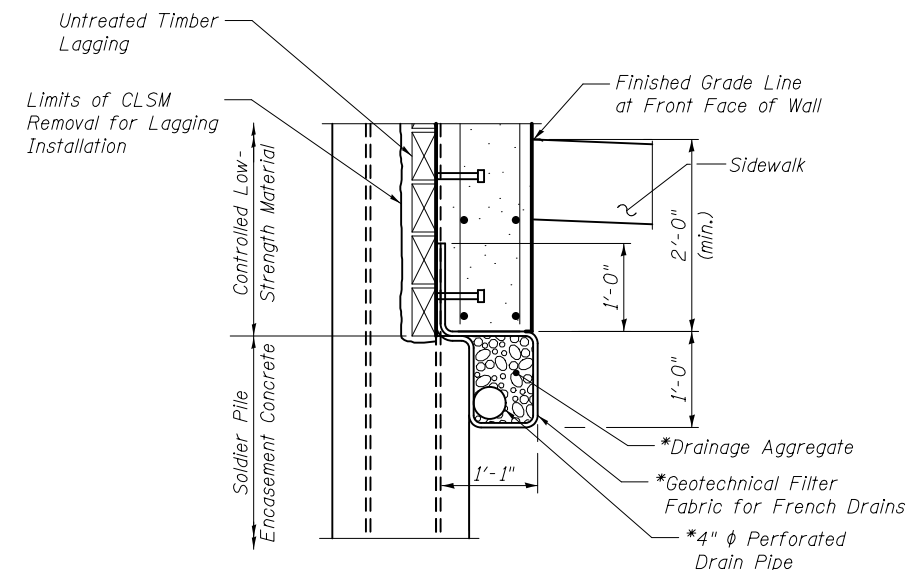
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1481
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

** See Drainage Plans for details and payment



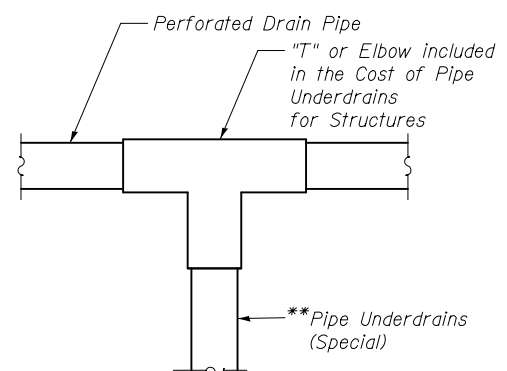
TYPICAL WALL SECTION

(See Section thru Concrete Facing on sheet 4 for facing details)
(Looking South)



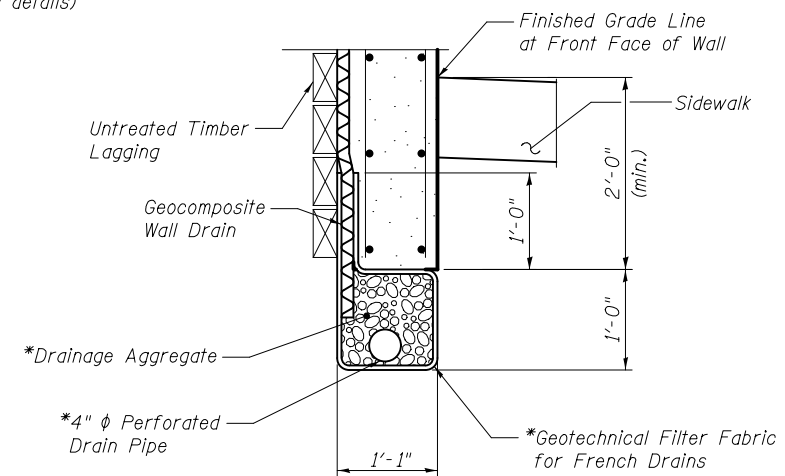
PIPE UNDERDRAIN DETAIL AT SOLDIER PILES

*Included in the cost of Pipe Underdrains for Structures



FRENCH DRAIN OUTLET

(See sheet 1 for locations.)



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES

*Included in the cost of Pipe Underdrains for Structures

Notes:
See C.I.P. Retaining Wall Aesthetic Plans for required form liner finish.
Cost of Controlled Low Strength Material included in Drilling and Setting Soldier Piles (In Soil).



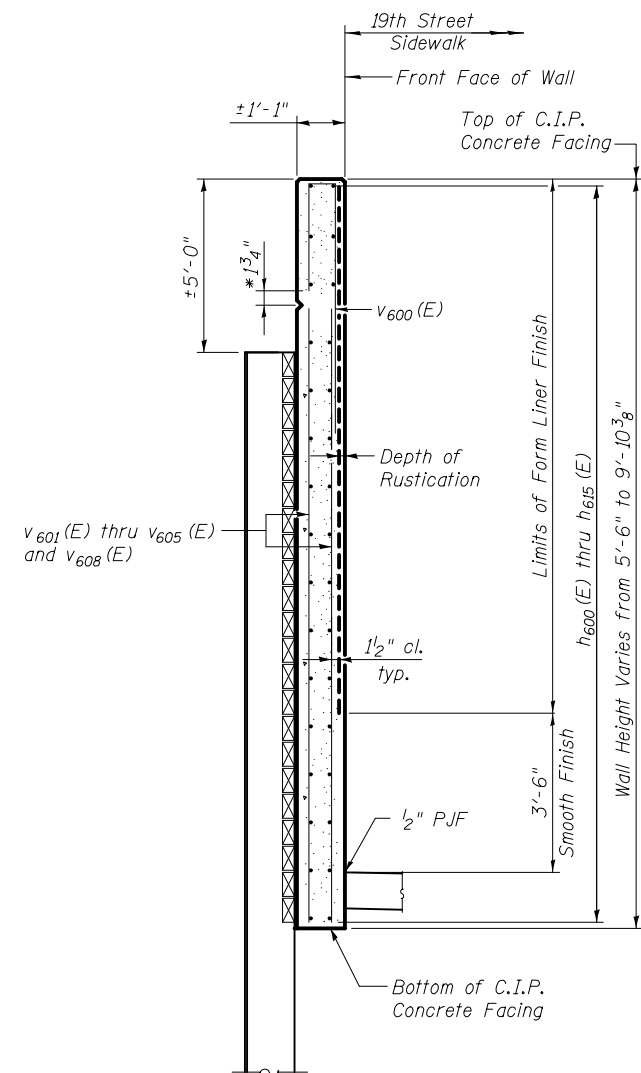
USER NAME =	DESIGNED - ACK	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS - 1
19TH STREET RETAINING WALL 14

SHEET NO. 3 OF 9 SHEETS

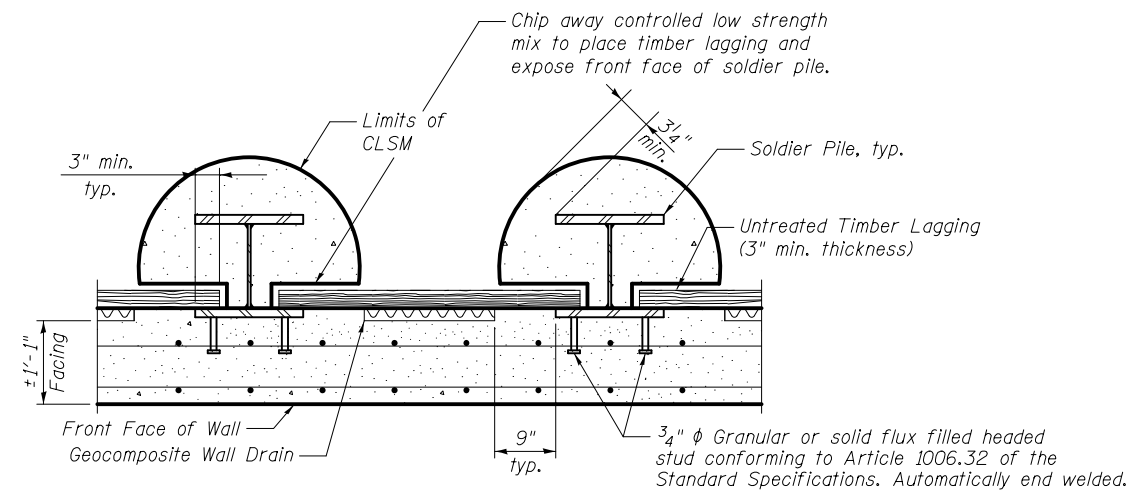
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1482
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				



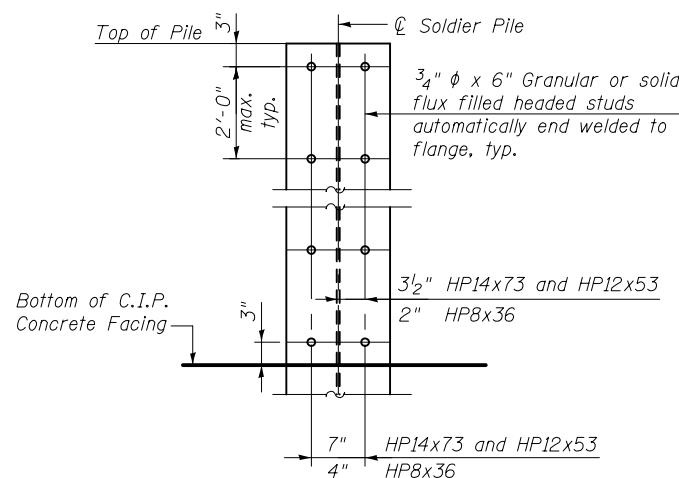
SECTION THRU CONCRETE FACING

Sta. 1924+68.66 to Sta. 1927+89.89 (shown)
 Sta. 1927+89.89 to Sta. 1928+22.00 (similar)

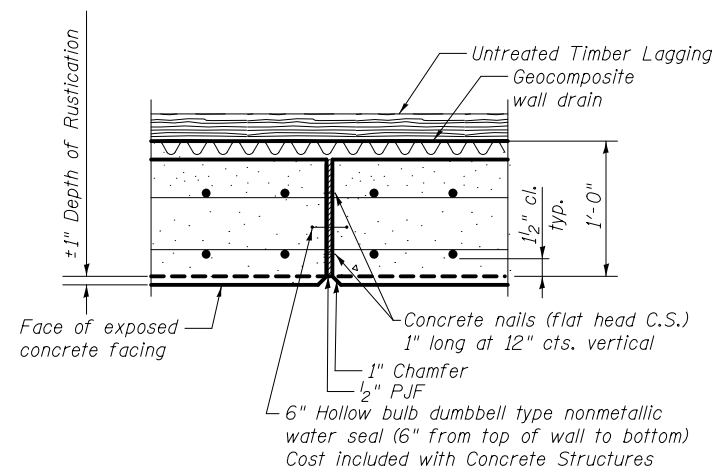
* Between Stations 1924+68.66 and 1925+05.40 cut v600 (E) bars to maintain 1 3/4" clearance from centerline of notch.



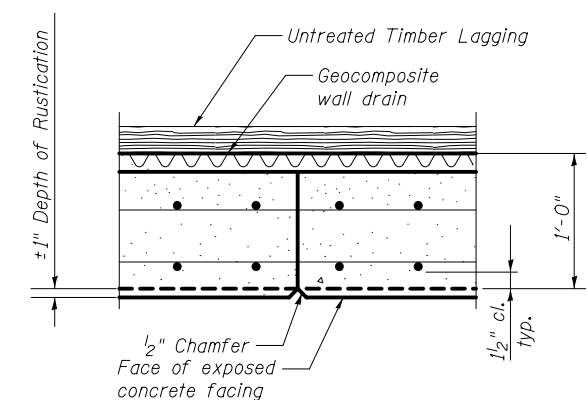
TYPICAL SECTION THRU WALL



SHEAR STUD CONNECTORS LAYOUT



EXPANSION JOINT



CONSTRUCTION JOINT

Notes:
 See C.I.P. Retaining Wall Aesthetic Plans for required form liner finish.
 Cost of Controlled Low Strength Material included in Drilling and Setting Soldier Piles (In Soil).



USER NAME =	DESIGNED - ACK	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

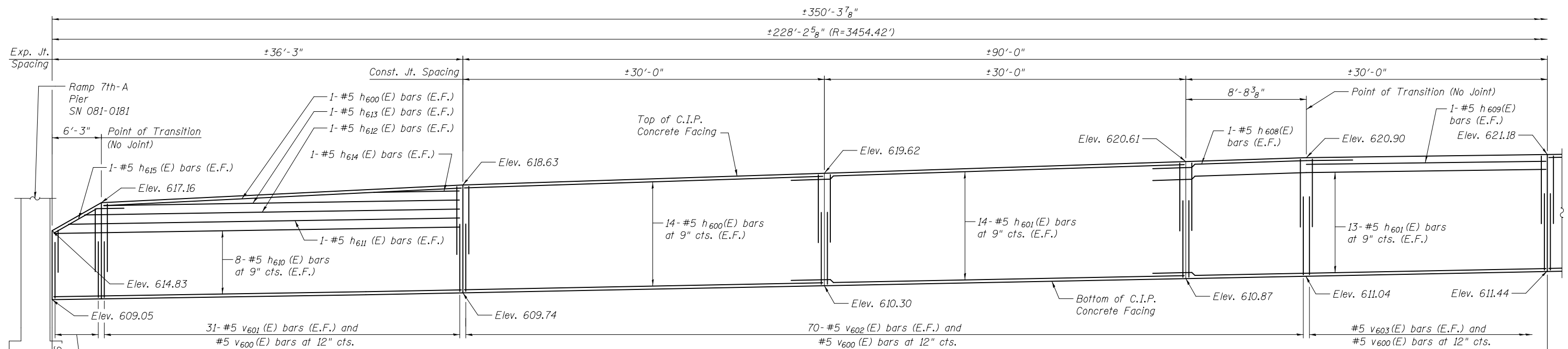
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS - 2
 19TH STREET RETAINING WALL 14

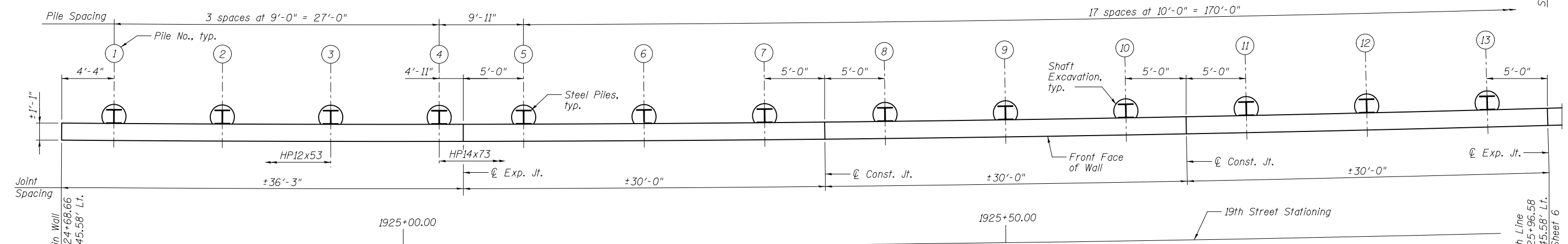
SHEET NO. 4 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1R-1)	ROCK ISLAND	2042	1483
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



PARTIAL ELEVATION - SOLDIER PILE WALL



PARTIAL PLAN - SOLDIER PILE WALL

STEEL PILE TABLE

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
1	1924+73.05	HP 12x53	19	593.03	612.03	6
2	1924+82.15	HP 12x53	20	592.87	612.87	6
3	1924+91.30	HP 12x53	20	593.17	613.17	6
4	1925+00.42	HP 14x73	22	591.46	613.46	6
5	1925+10.46	HP 14x73	22	591.80	613.80	6
6	1925+20.59	HP 14x73	23	591.13	614.13	6
7	1925+30.73	HP 14x73	23	591.46	614.46	6

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
8	1925+40.86	HP 14X73	23	591.79	614.79	6
9	1925+50.99	HP 14X73	23	592.12	615.12	8
10	1925+61.12	HP 14X73	23	592.45	615.45	8
11	1925+71.25	HP 14X73	23	592.78	615.78	8
12	1925+81.39	HP 14X73	23	592.98	615.98	8
13	1925+91.52	HP 14X73	23	593.11	616.11	8

Notes:
 For Bill of Material, see sheet 8.
 Stations and offsets on this sheet are given to the front face of the wall and are measured from the centerline of 19th Street.
 Dimensions and spacings are measured along the front face of the wall.



USER NAME =	DESIGNED - ACK	REVISIONS
	CHECKED - ZJB	REVISIONS
PLOT SCALE =	DRAWN - AEC	REVISIONS
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISIONS

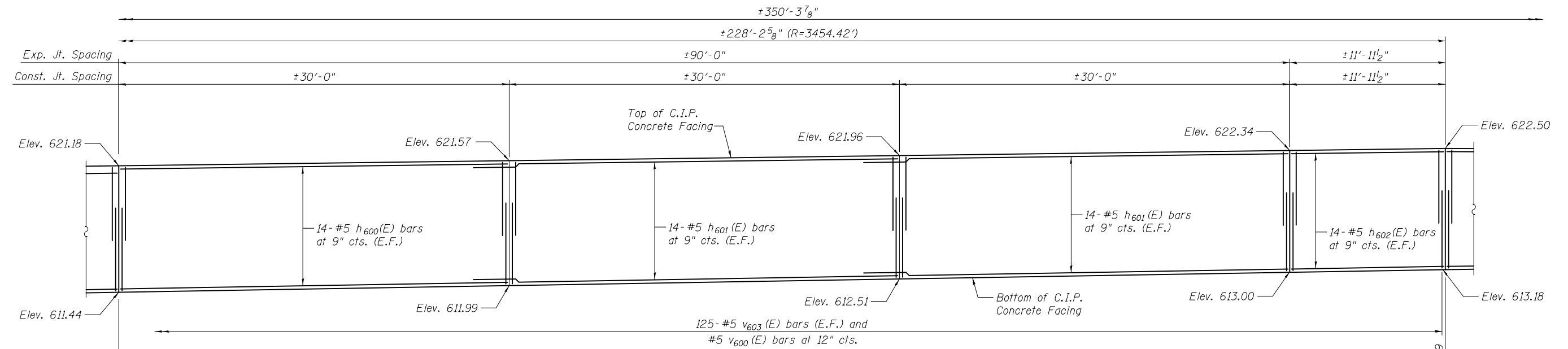
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN - 1
 19TH STREET RETAINING WALL 14

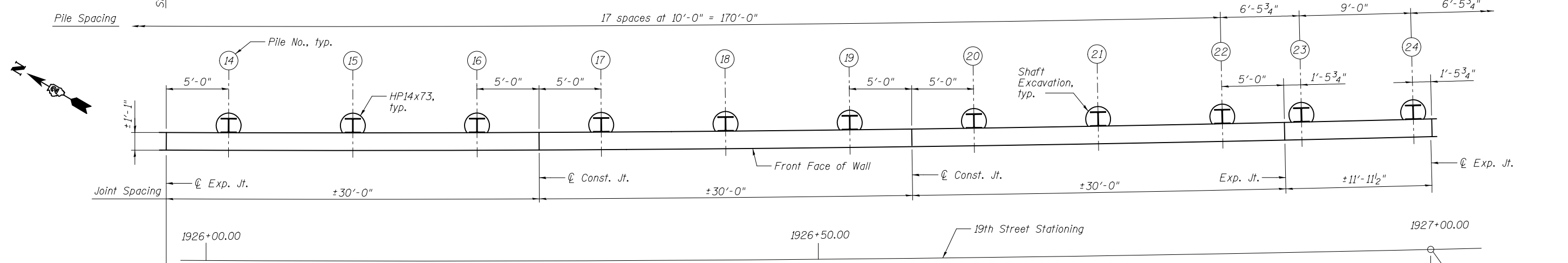
SHEET NO. 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1484
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



PARTIAL ELEVATION - SOLDIER PILE WALL



PARTIAL PLAN - SOLDIER PILE WALL

STEEL PILE TABLE

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
14	1926+01.65	HP 14X73	23	593.24	616.24	8
15	1926+11.78	HP 14X73	23	593.37	616.37	8
16	1926+21.91	HP 14X73	23	593.50	616.50	8
17	1926+32.05	HP 14X73	23	593.63	616.63	8
18	1926+42.18	HP 14X73	23	593.76	616.76	8
19	1926+52.31	HP 14X73	23	593.89	616.89	6

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
20	1926+62.44	HP 14X73	23	594.02	617.02	6
21	1926+72.57	HP 14X73	23	594.15	617.15	6
22	1926+82.71	HP 14X73	23	594.28	617.28	6
23	1926+89.27	HP 14x73	23	594.36	617.36	6
24	1926+98.41	HP 14x73	23	594.48	617.48	6

Notes:
 For Bill of Material, see sheet 8.
 Stations and offsets on this sheet are given to the front face of the wall and are measured from the centerline of 19th Street.
 Dimensions and spacings are measured along the front face of the wall.



USER NAME =	DESIGNED - ACK	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

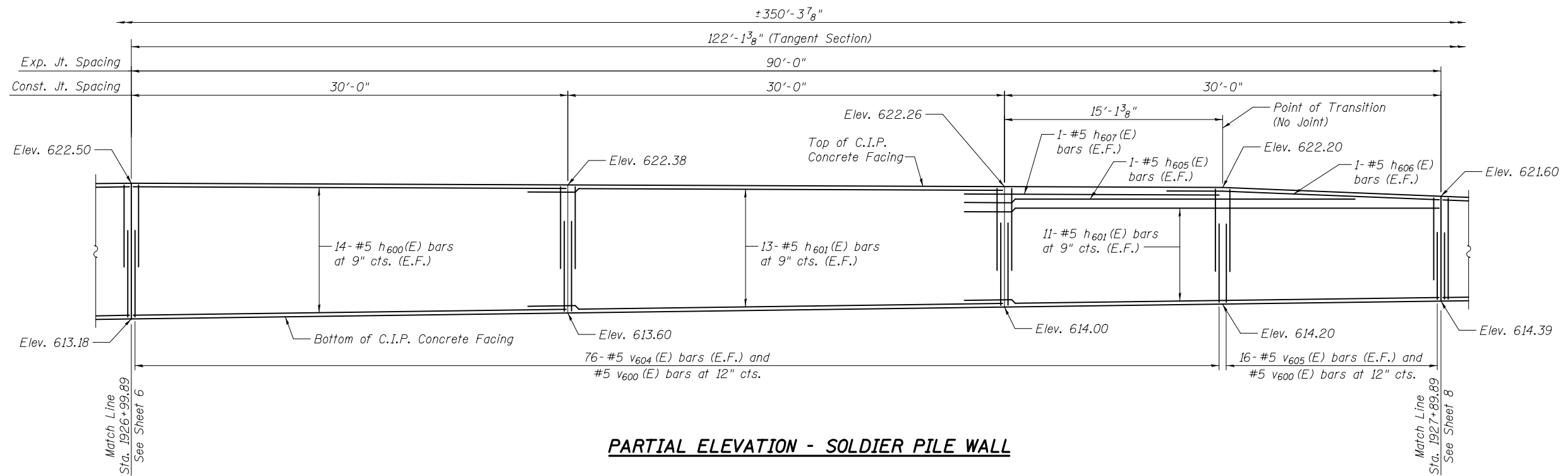
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN - 2
 19TH STREET RETAINING WALL 14

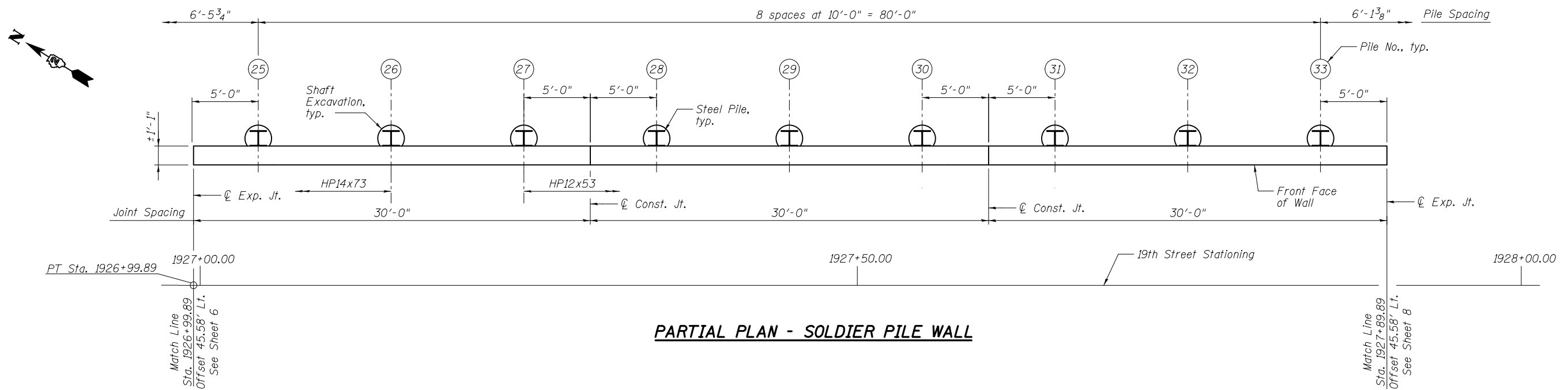
SHEET NO. 6 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1485
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT



PARTIAL ELEVATION - SOLDIER PILE WALL



PARTIAL PLAN - SOLDIER PILE WALL

STEEL PILE TABLE

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
25	1927+04.89	HP 14x73	23	594.48	617.48	6
26	1927+14.89	HP 14x73	23	594.44	617.44	6
27	1927+24.89	HP 12x53	20	597.40	617.40	6
28	1927+34.89	HP 12x53	20	597.36	617.36	6
29	1927+44.89	HP 12x53	20	597.32	617.32	6

Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
30	1927+54.89	HP 12x53	20	597.28	617.28	6
31	1927+64.89	HP 12x53	20	597.24	617.24	6
32	1927+74.89	HP 12x53	20	597.20	617.20	6
33	1927+84.89	HP 12x53	19	597.80	616.80	4

Notes:
 For Bill of Material, see sheet 8.
 Stations and offsets on this sheet are given to the front face of the wall and are measured from the centerline of 19th Street.
 Dimensions and spacings are measured along the front face of the wall.



USER NAME =	DESIGNED - ACK	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 03/23/2017	CHECKED - JMH	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN - 3
 19TH STREET RETAINING WALL 14

SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1486
CONTRACT NO. 64E26				

ILLINOIS FED. AID PROJECT

**RETAINING WALL 14
BILL OF MATERIAL**

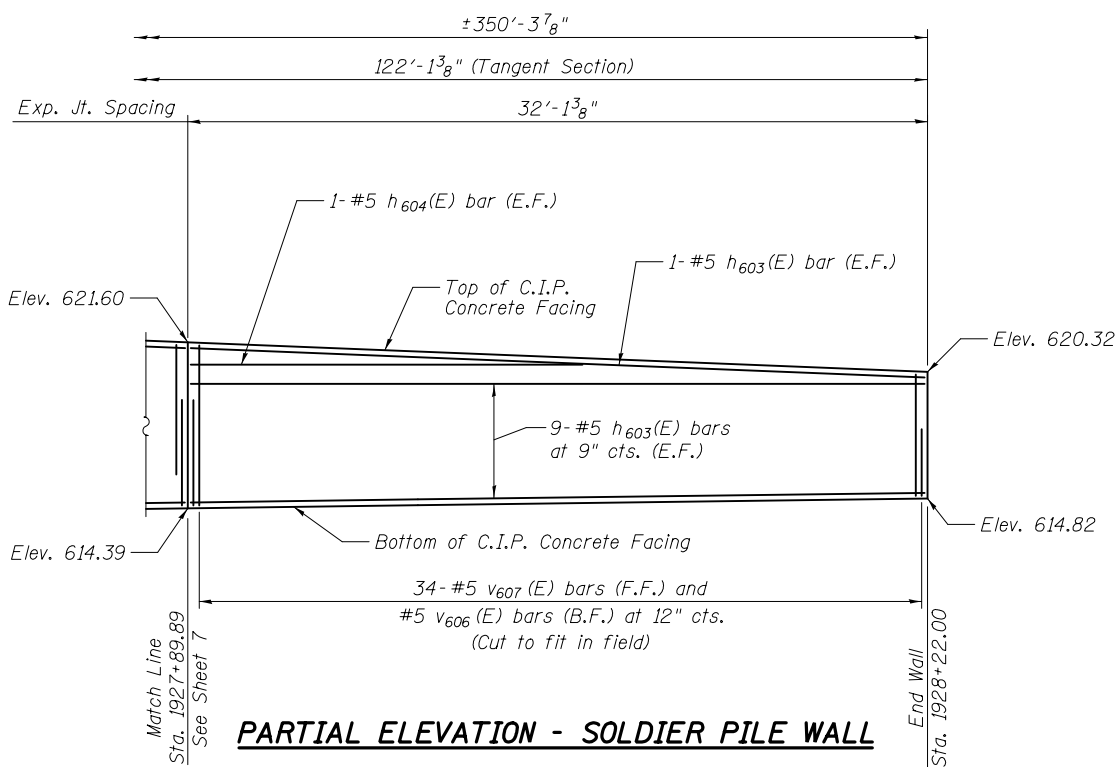
Bar	No.	Size	Length	Shape
h600 (E)	86	#5	29'-9"	—
h601 (E)	158	#5	33'-4"	—
h602 (E)	28	#5	11'-8"	—
h603 (E)	20	#5	31'-10"	—
h604 (E)	2	#5	17'-11"	—
h605 (E)	2	#5	23'-3"	—
h606 (E)	2	#5	18'-1"	—
h607 (E)	2	#5	18'-6"	—
h608 (E)	2	#5	15'-6"	—
h609 (E)	2	#5	21'-0"	—
h610 (E)	16	#5	36'-0"	—
h611 (E)	2	#5	34'-9"	—
h612 (E)	2	#5	32'-8"	—
h613 (E)	2	#5	30'-6"	—
h614 (E)	2	#5	13'-1"	—
h615 (E)	2	#5	9'-10"	—
V600 (E)	325	#5	8'-8"	—
V601 (E)	31	#5	11'-7"	—
V602 (E)	70	#5	13'-6"	—
V603 (E)	125	#5	13'-11"	—
V604 (E)	76	#5	12'-1"	—
V605 (E)	16	#5	10'-0"	—
V606 (E)	34	#5	4'-7"	—
V607 (E)	34	#5	9'-11"	—
V608 (E)	7	#5	8'-6"	—
Structure Excavation	Cu. Yd.		135	
Concrete Structures	Cu. Yd.		123.8	
Form Liner Textured Surface	Sq. Ft.		1159	
Stud Shear Connectors	Each		232	
Reinforcement Bars, Epoxy Coated	Pound		18,080	
Furnishing Soldier Piles (HP Section)	Ft.		788	
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.		2415	
Untreated Timber Lagging	Sq. Ft.		1213	

MIN. BAR LAP

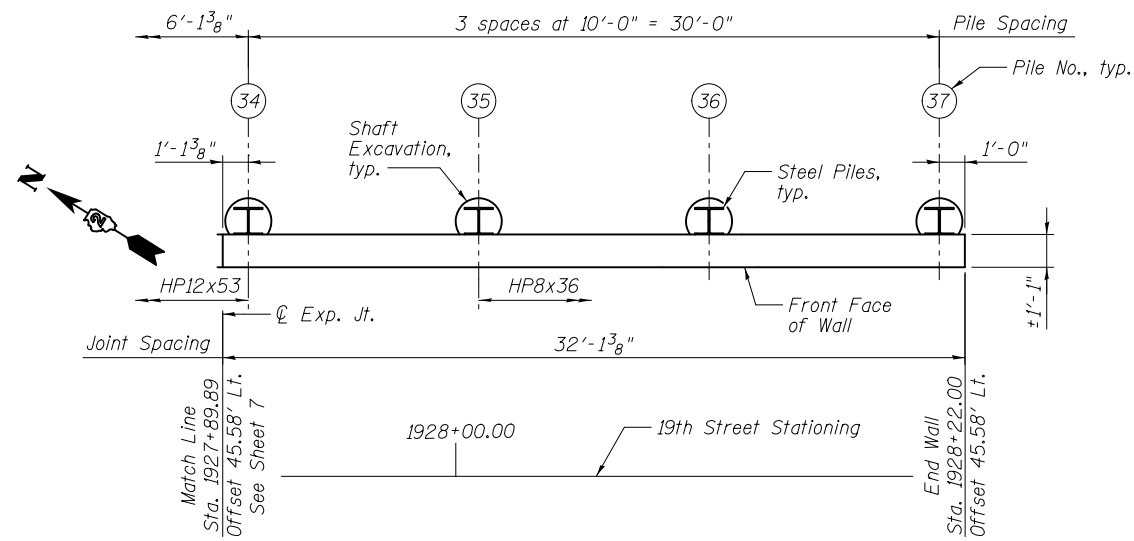
#5 bars - 3'-3"

LEGEND

E.F. Each Face
F.F. Front Face
B.F. Back Face



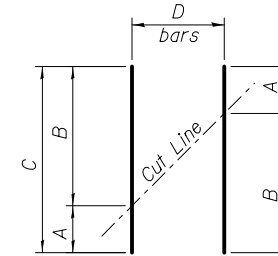
PARTIAL ELEVATION - SOLDIER PILE WALL



PARTIAL PLAN - SOLDIER PILE WALL

STEEL PILE TABLE

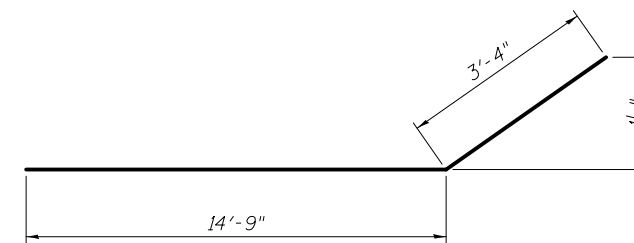
Pile Number	Station	Pile Size	Length (ft)	Tip Elevation (ft)	Top Elevation (ft)	Number of Studs
34	1927+91.00	HP 12x53	19	597.56	616.56	4
35	1928+01.00	HP 8x36	15	601.16	616.16	4
36	1928+11.00	HP 8x36	15	600.76	615.76	4
37	1928+21.00	HP 8x36	14	601.36	615.36	4



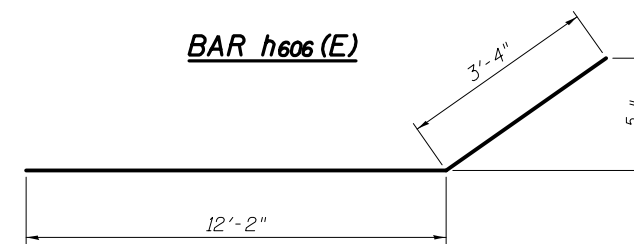
BAR CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face.

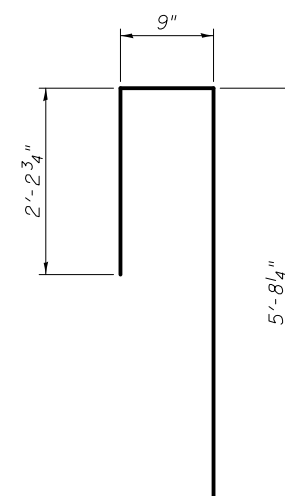
Bar	A	B	C	D
V601 (E)	5'-4"	6'-3"	11'-7"	31
V602 (E)	6'-3"	7'-3"	13'-6"	70
V603 (E)	7'-3"	6'-8"	13'-11"	125
V604 (E)	6'-8"	5'-5"	12'-1"	76
V605 (E)	5'-5"	4'-7"	10'-0"	16
V608 (E)	3'-2"	5'-4"	8'-6"	7



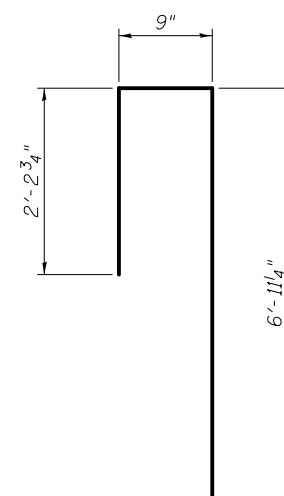
BAR h606 (E)



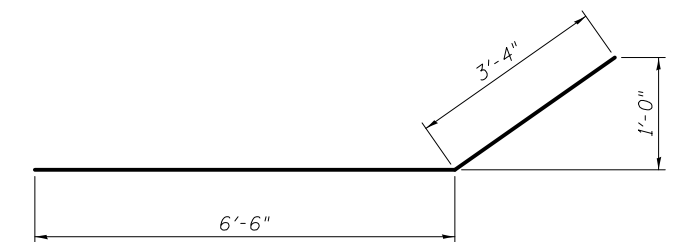
BAR h608 (E)



BAR v600 (E)



BAR v607 (E)



BAR h615 (E)

Notes:
Stations and offsets on this sheet are given to the front face of the wall and are measured from the centerline of 19th Street. Dimensions and spacings are measured along the front face of the wall.



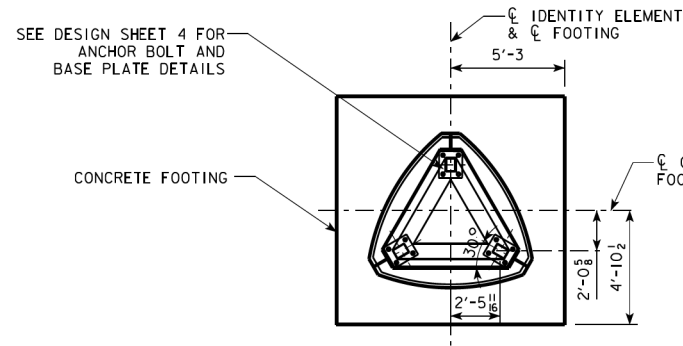
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PLOT SCALE =	CHECKED - ZJB	REVISED
PLOT DATE = 03/23/2017	DRAWN - AEC	REVISED
	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL LAYOUT PLAN - 4
19TH STREET RETAINING WALL 14

SHEET NO. 8 OF 9 SHEETS

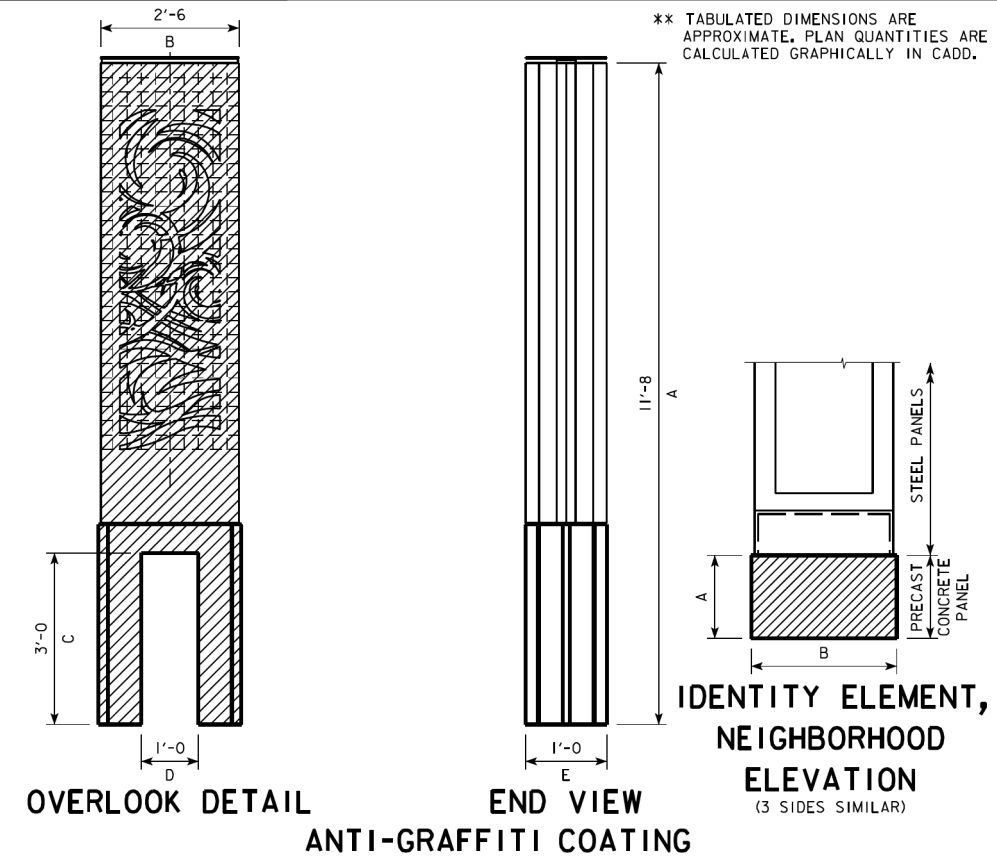
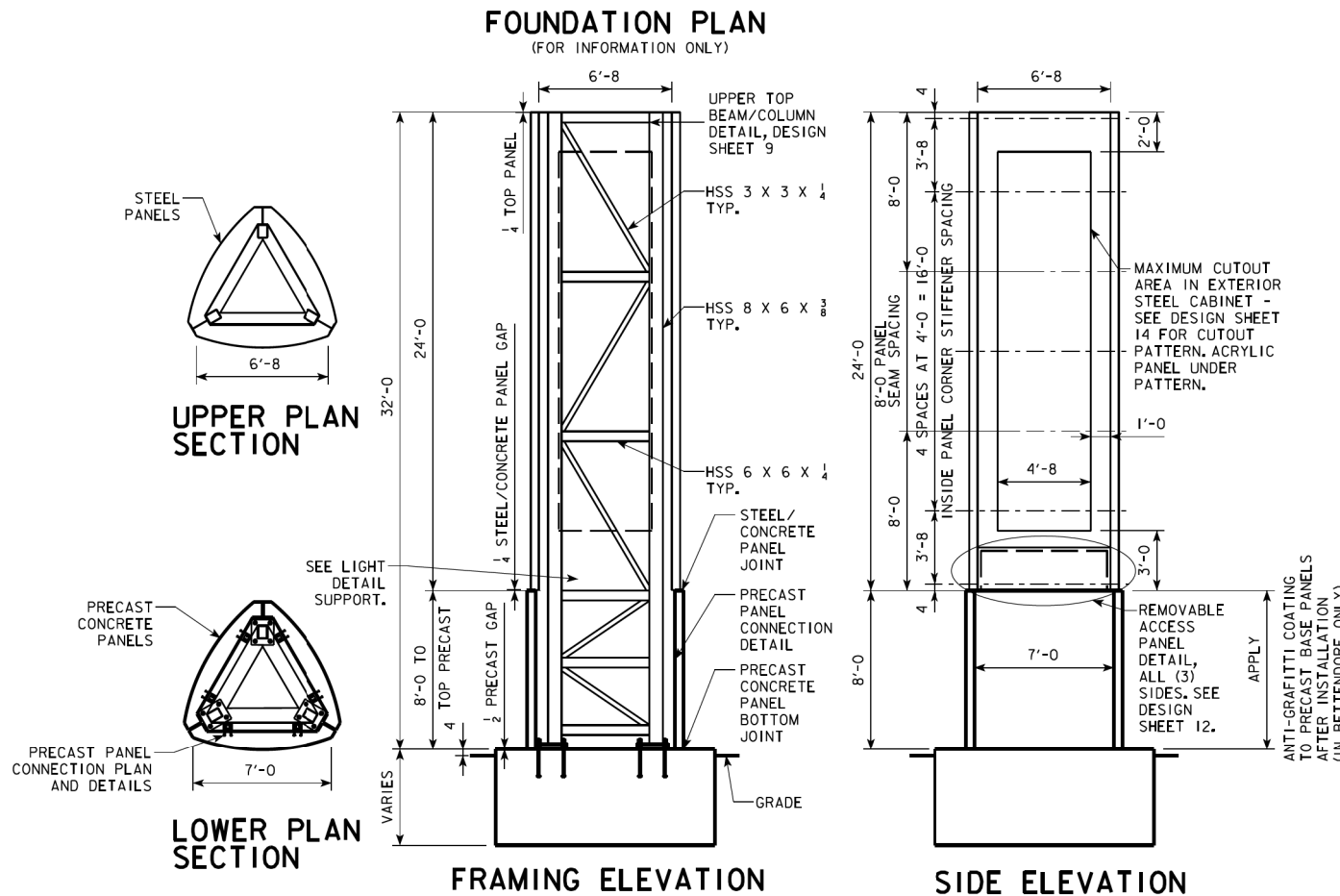
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R-1	ROCK ISLAND	2042	1487
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	



SEE SHEETS V.9-V.12 FOR FOOTING DETAILS AT US 67 RAMPS A AND B AND FOR ORIENTATION OF IDENTITY ELEMENTS WITH RESPECT TO ROADWAY ALIGNMENTS.

ANTI-GRAFFITI COATING SCHEDULE								
SURFACE TYPE	LOCATION	DIMENSIONS**					REFERENCE DESIGN SHEET NUMBER	QUANTITY
		A	B	C	D	E		
IDENTITY ELEMENT, NEIGHBORHOOD	RAMP B	8'-0	8'-0				2, 6	22
IDENTITY ELEMENT, OVERLOOK	RAMP A	8'-0	8'-0				2, 6	22
IDENTITY ELEMENT, OVERLOOK	OVERLOOK ON EB RIVER BRIDGE X (3)	11'-8	2'-6	3'-0	1'-0	1'-0	15-17	28
TOTAL (SQ. YD.)								72

** TABULATED DIMENSIONS ARE APPROXIMATE. PLAN QUANTITIES ARE CALCULATED GRAPHICALLY IN CADD.



NOTE:
NO ANTI-GRAFFITI COATING SHALL BE APPLIED TO THE CURVED ACRYLIC PANEL. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THIS SURFACE DURING APPLICATION OF ANTI-GRAFFITI COATING TO THE REST OF THE IDENTITY ELEMENT'S VERTICAL SURFACES.

ANTI-GRAFFITI COATING

NOTE:
ANTI-GRAFFITI SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE "SPECIAL PROVISIONS FOR ANTI-GRAFFITI COATING". THE MATERIAL USED SHALL BE AN APPROVED TYPE IN ACCORDANCE WITH MATERIALS I.M. 491.23. ANTI-GRAFFITI COATING SHALL BE APPLIED TO SURFACES LISTED IN THE SCHEDULE AND TO THE LIMITS INDICATED IN THESE PLANS.

3-SIDED IDENTITY ELEMENTS, NEIGHBORHOOD

PROVIDE (7). SEE LIST OF LOCATIONS ON DESIGN SHEET 1.

NOTE: ALL 3 SIDES ARE IDENTICAL.

FOR INFORMATION ONLY

DESIGN FOR
IDENTITY ELEMENT DETAILS
NEIGHBORHOOD ELEVATIONS
SCOTT COUNTY
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. 2 OF 17 FILE NO. 30253

DESIGN TEAM **SHIVE HATTERY**

SCOTT COUNTY PROJECT NUMBER IM-074-1(206)5--13-82

SHEET NUMBER V.14

2:05:22 PM nthardl P:\Projects\M0\3081723\dwg\Identity Elements\December 2015 Final\62074207.brg.dgn

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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10061

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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	PLOT DATE =	DRAWN -	REVISED -
	3/22/2017	RMG	
		CHECKED -	REVISED -
		KMP	

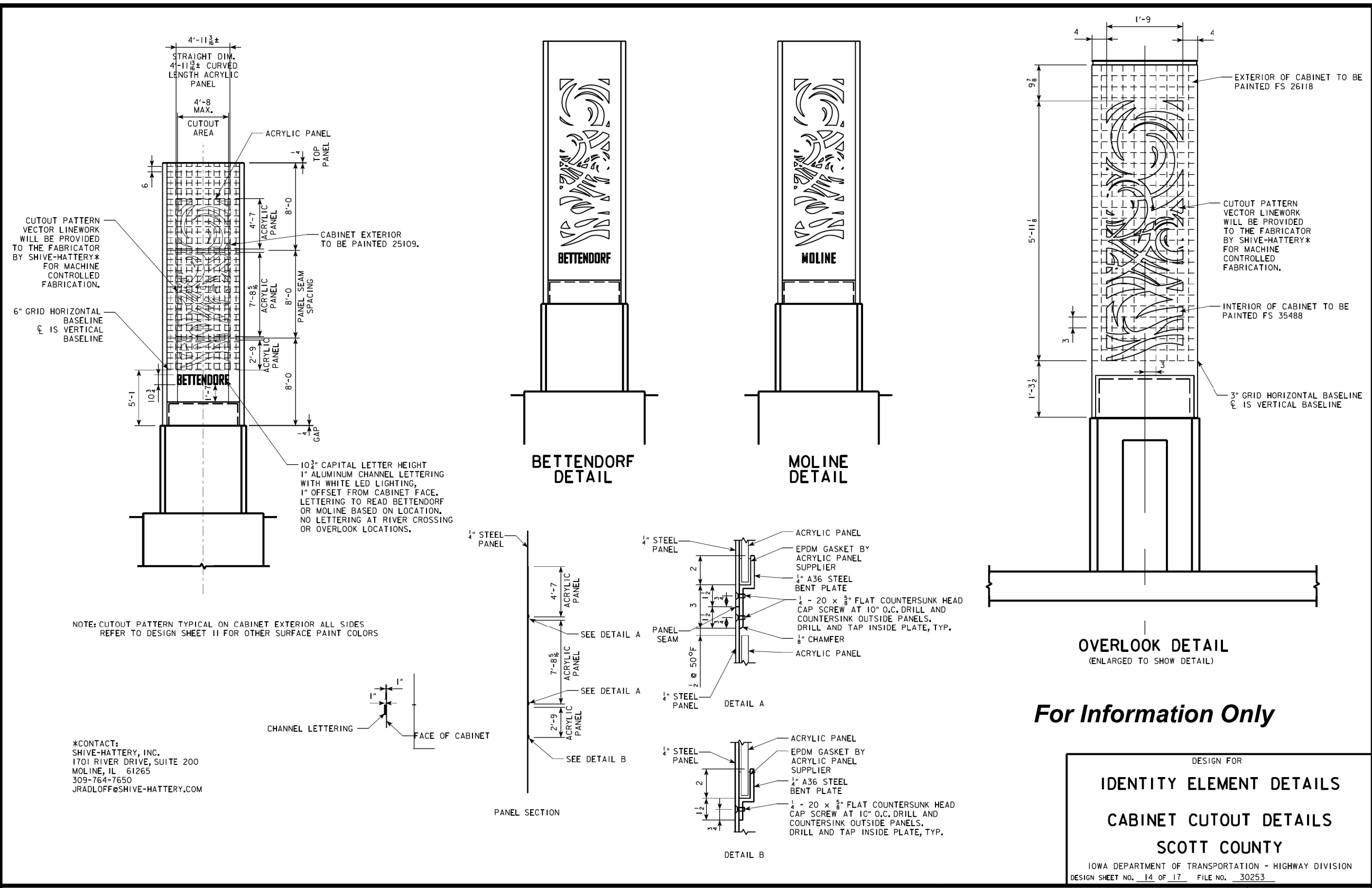
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEIGHBORHOOD IDENTITY ELEMENT

SHEET NO. 1 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1)HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1489
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

DW-AB-SLD-64E26-RAC-1d-E1-Fdm-P1tes-20151109.dgn 8:02:11 PM 3/22/2017



DESIGN TEAM **SHIVE HATTERY** SCOTT COUNTY PROJECT NUMBER IM-074-1(206)5--13-82 SHEET NUMBER V.26

2:05:42 PM nthardi P:\Projects\M0\3081723\dwg\Identity Elements\December 2015\Final\62074207.brg.dgn

*CONTACT:
SHIVE-HATTERY, INC.
1701 RIVER DRIVE, SUITE 200
MOLINE, IL 61265
309-764-7650
JRADLOFF@SHIVE-HATTERY.COM

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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MODEL =	PLOT SCALE =	CHECKED -	REVISED -
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	PLOT DATE =	DRAWN -	REVISED -
	3/22/2017	RMG	RMG
		CHECKED -	REVISED -
		KMP	KMP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDENTITY ELEMENT CUTOUT PATTERN
SHEET NO. 2 OF 7 SHEETS

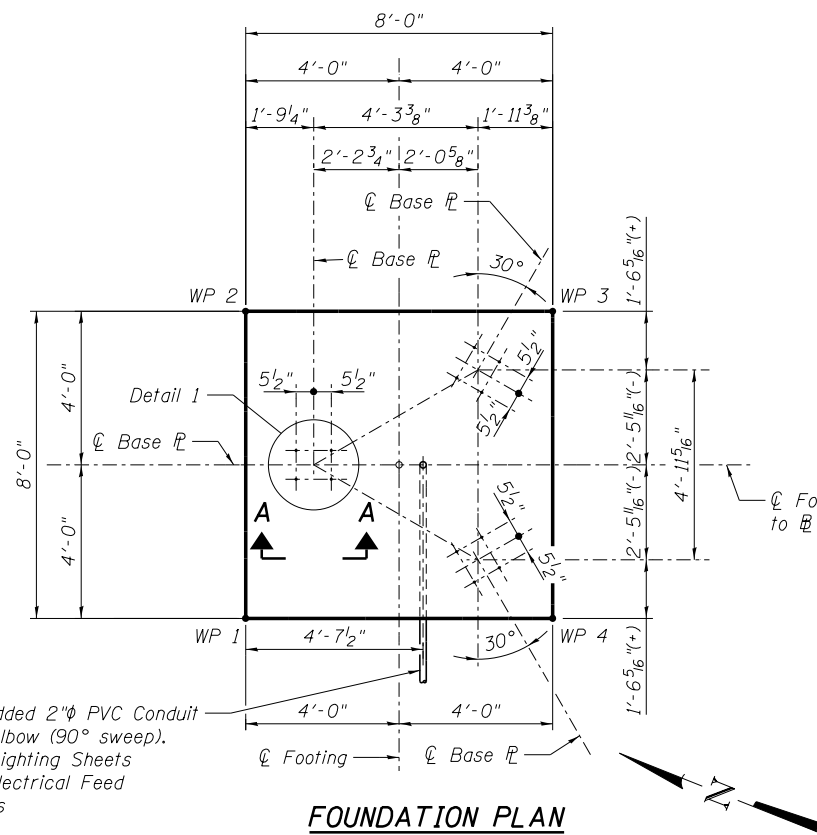
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-11R1 & 81-11HR, HBR-1, HBR-2)	ROCK ISLAND	2042	1490
CONTRACT NO. 64E26				
ILLINOIS FED. AID PROJECT				

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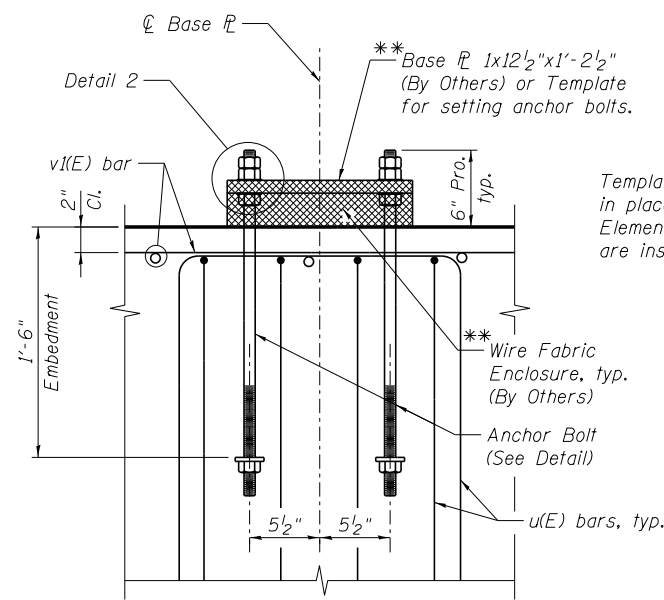
For Information Only

DESIGN FOR
**IDENTITY ELEMENT DETAILS
CABINET CUTOUT DETAILS
SCOTT COUNTY**
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. 14 OF 17 FILE NO. 30253



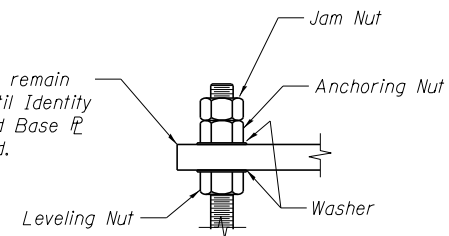
FOUNDATION PLAN

Embedded 2"φ PVC Conduit and Elbow (90° sweep). See Lighting Sheets for Electrical Feed Details

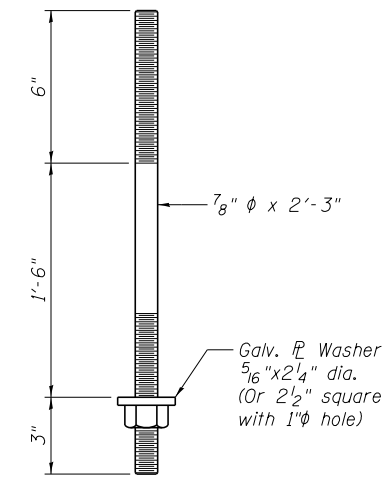


VIEW A-A
(Typ. for 3 locations)

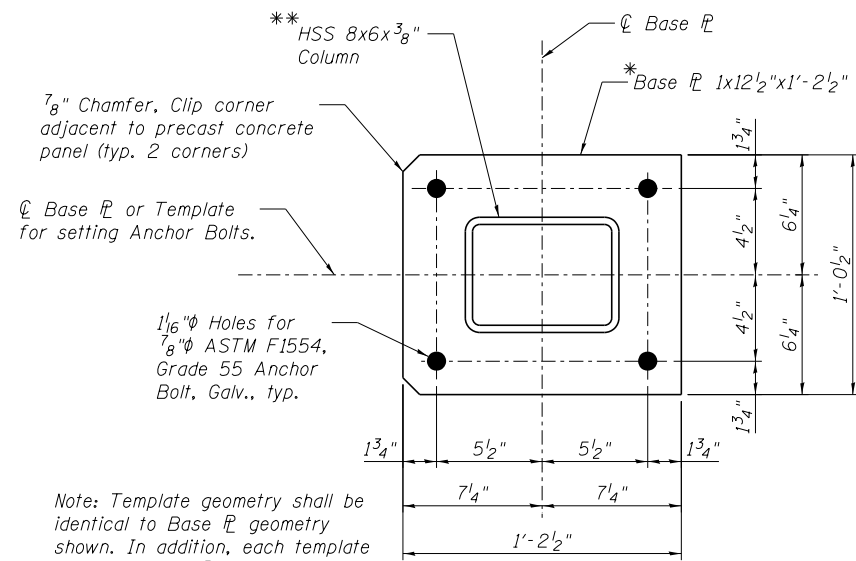
** Base Plates, HSS Column and Wire Fabric are shown for Information Only. Base Plates and Wire Fabric material shall be included in Identity Element, to be constructed by Others.



DETAIL 2

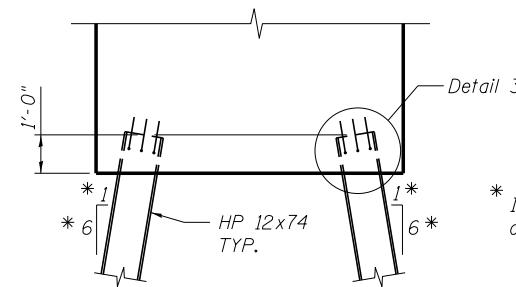


ANCHOR BOLT DETAIL



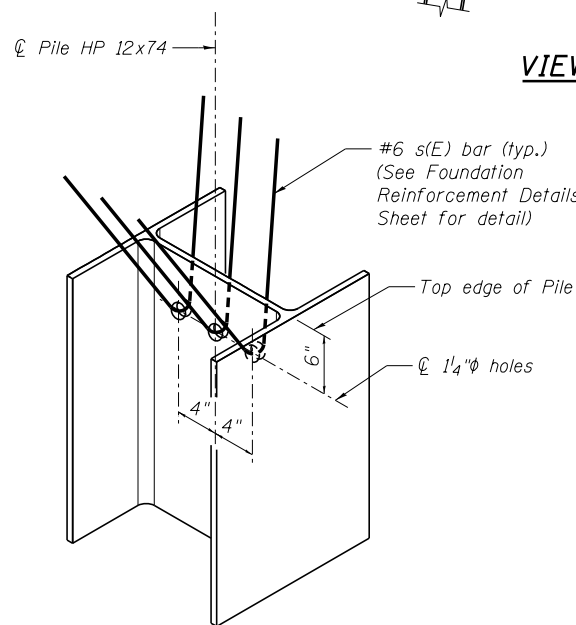
DETAIL 1
ANCHOR BOLT LAYOUT

Note: Template geometry shall be identical to Base Plate geometry shown. In addition, each template for each Base Plate must be held in exact orientation and distance from each other, as shown in Foundation Plan.

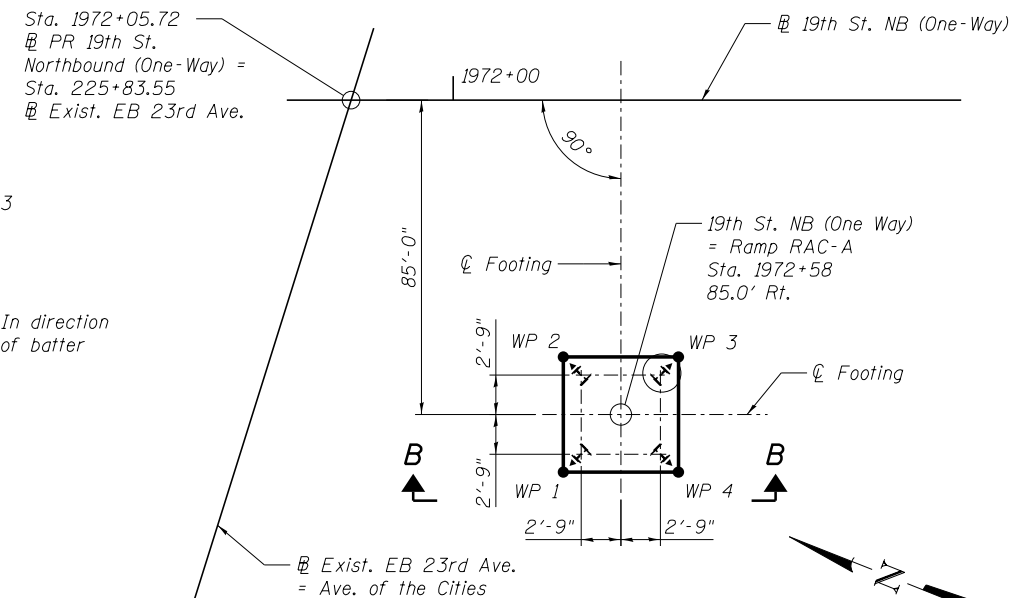


VIEW B-B

* In direction of batter



DETAIL 3



LOCATION PLAN & PILE LAYOUT

Work Points

W.P.	Station	Offset
1	1972+54	81.00' Rt.
2	1972+54	89.00' Rt.
3	1972+62	89.00' Rt.
4	1972+62	81.00' Rt.

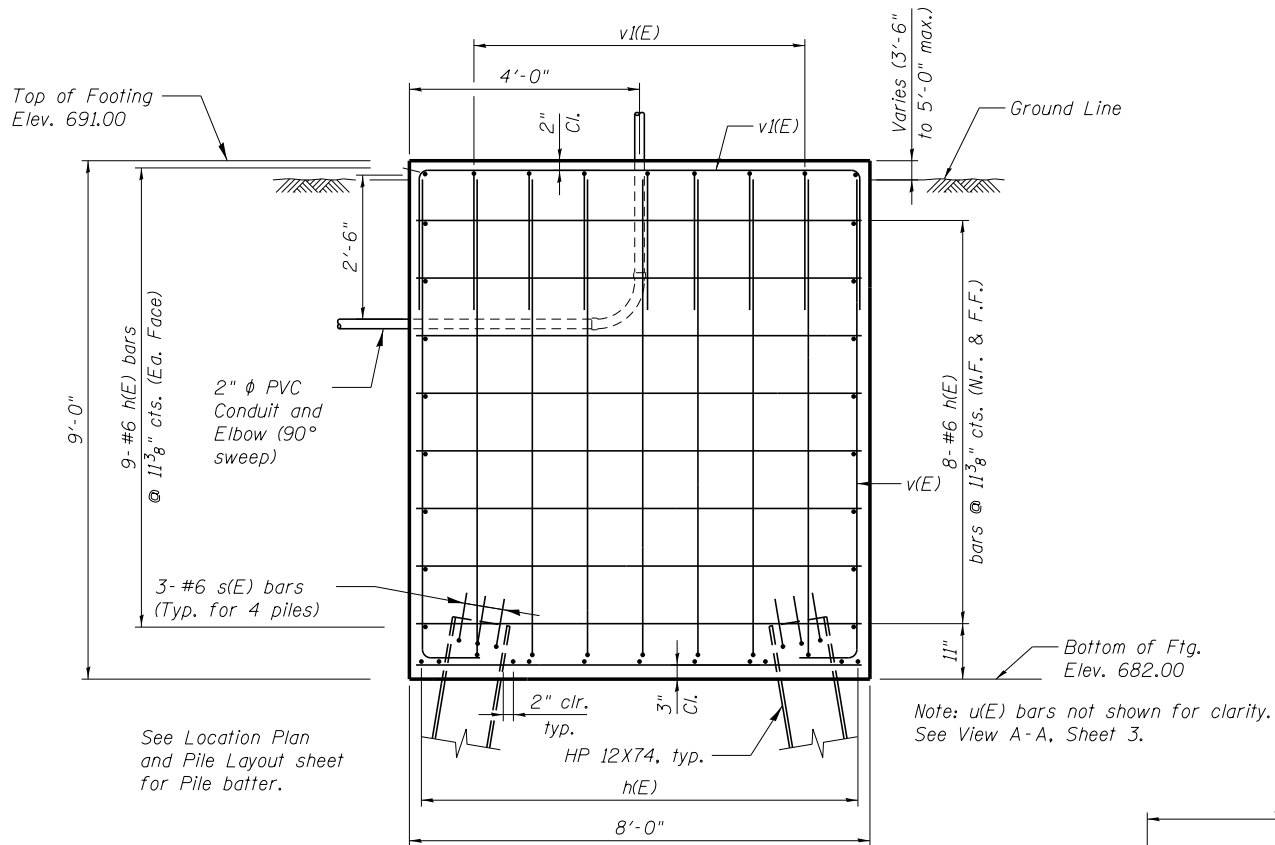
Based on 19th Street NB (One Way)

LEGEND

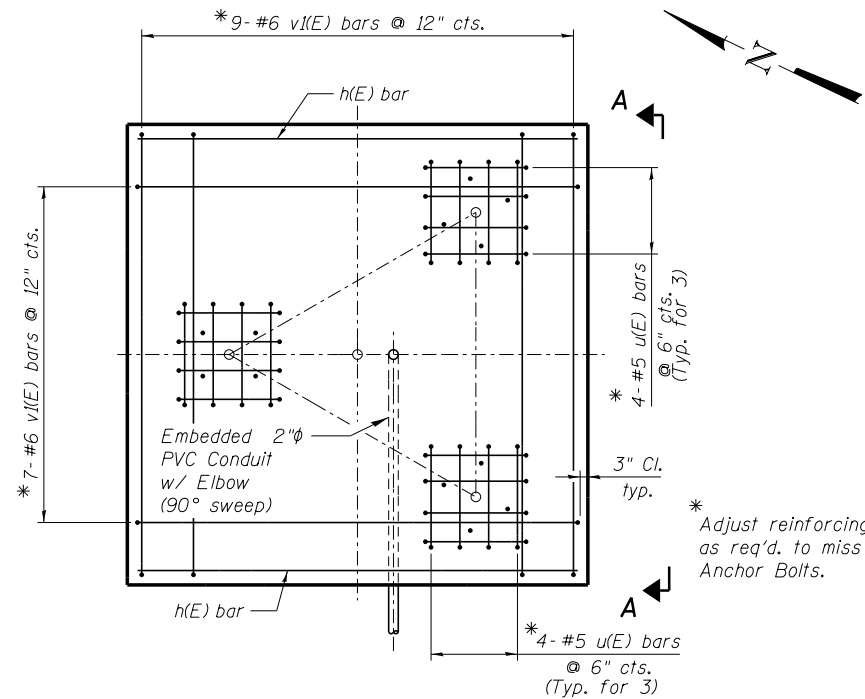
- Denotes Battered Pile 1H:6V
- Denotes Test Pile

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	3/22/2017	RMG	
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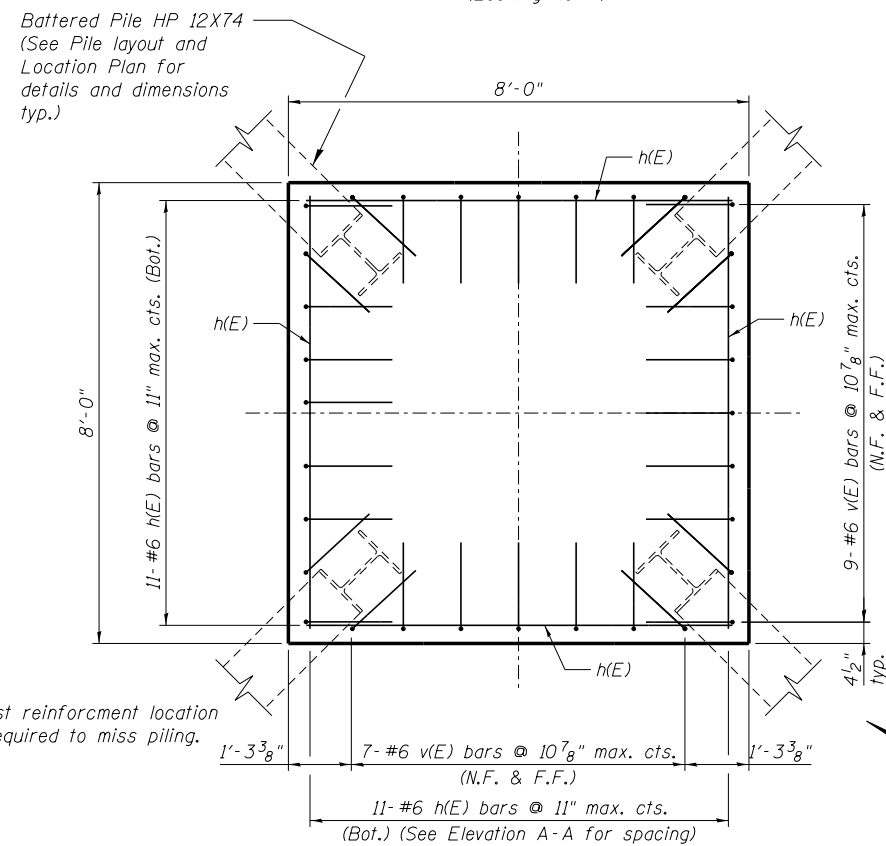
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1)HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1491
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	



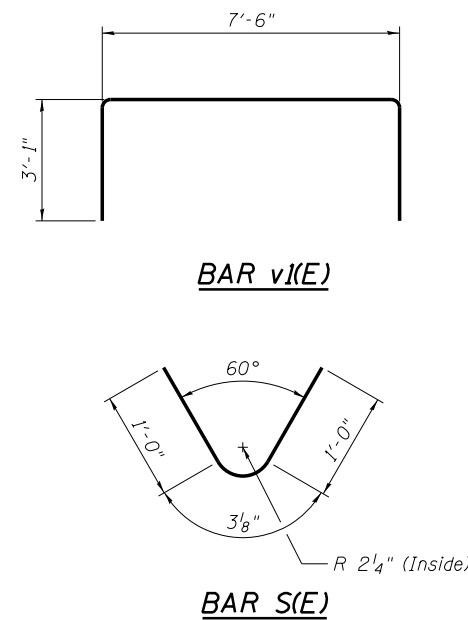
ELEVATION A-A
(Looking North)



TOP PLAN



SECTION AT PILING



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#6	7'-6"	—
u(E)	24	#5	7'-2"	U
v(E)	32	#6	9'-3"	U
v(E)	16	#6	13'-8"	U
s(E)	12	#6	2'-4"	V
Structure Excavation		Cu. Yd.	26	
Concrete Structures		Cu. Yd.	21.3	
Anchor Bolts, 7/8"φ		Each	12	
Reinforcement Bars, Epoxy Coated		Pound	1630	
Pile Shoes		Each	4	
Furnishing Steel Piles HP 12X74		Foot	108	
Driving Piles		Foot	108	
Test Pile Steel HP 12X74		Each	1	

PILE DATA

Type: HP 12X74 with pile shoes
 Nominal Required Bearing: 217 kips
 Factored Resistance Available: 131 kips
 Est. Length: 36 feet
 No. Production Piles: 3
 No. Test Piles: 1

NOTES:

- Anchor Bolts shall be 7/8"φ ASTM, F1554, Grade 55. Anchor Bolts, nuts and washers shall conform to the requirements of the Standard Specifications.
- Anchor Bolts, nuts and washers shall be hot dip galvanized according to AASHTO M232, Class C.
- Nuts and washers shall be hand-tightened on Anchor Bolt projections, for future use when Identity Elements are installed.
- The Contractor shall take care to secure Anchor Bolts plumb and in the correct location. The Contractor shall leave the template, used to set the Anchor bolts, in place to protect the Anchor bolts until the Identity Element is installed by Others.
- Work this sheet with Foundation Reinforcement Details sheet.
- Reinforcement bars designated (E) shall be epoxy coated.



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 205 North Michigan Avenue, Suite 2400
 Chicago, Illinois 60601
 312-565-0450 Job No. 10061

FILE NAME =
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 PLOT DATE = 3/22/2017

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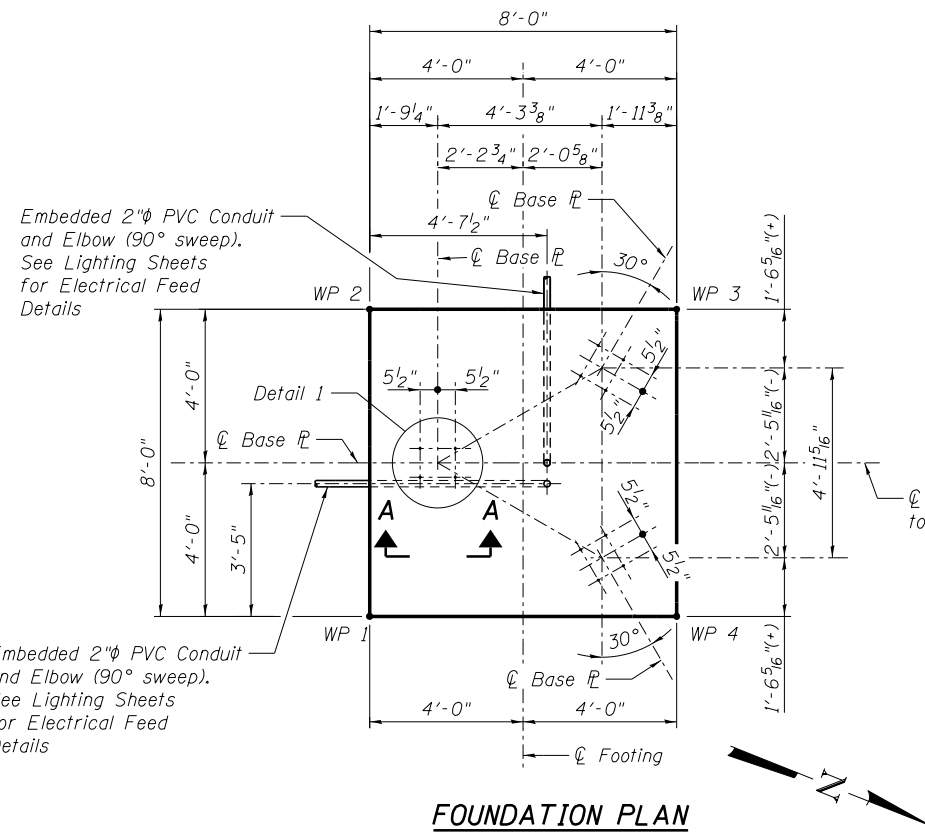
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FOUNDATION REINFORCEMENT DETAILS
 NEIGHBORHOOD IDENTITY ELEMENT, RAMP RAC-A

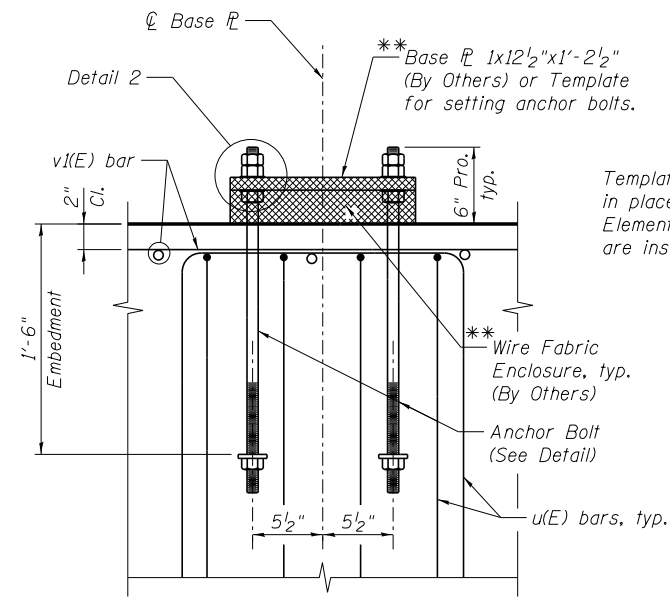
SHEET NO. 4 OF 7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1)HBR, HBR-1, HBR-2)	ROCK ISLAND	2042	1492
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

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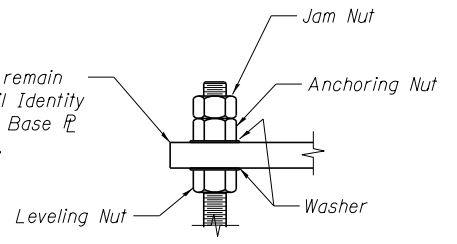


FOUNDATION PLAN

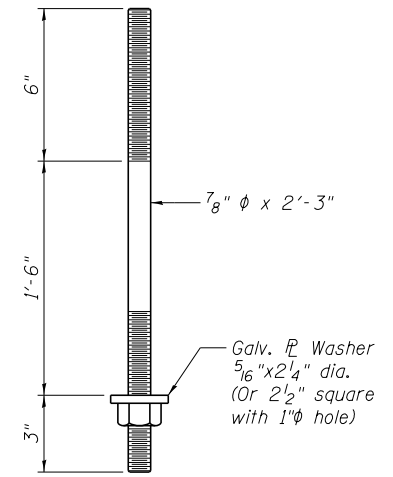


VIEW A-A
(Typ. for 3 locations)

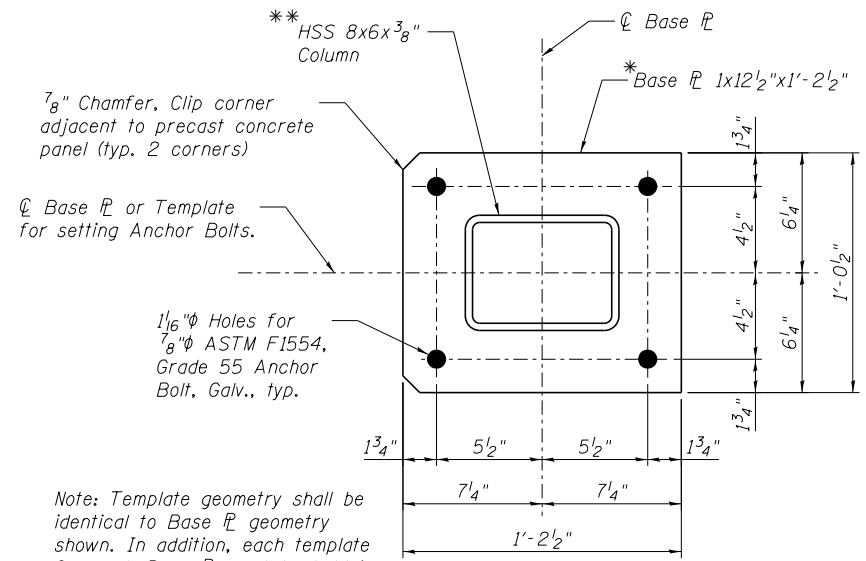
** Base Plates, HSS Column and Wire Fabric are shown for Information Only. Base Plates and Wire Fabric material shall be included in Identity Element, to be constructed by Others.



DETAIL 2

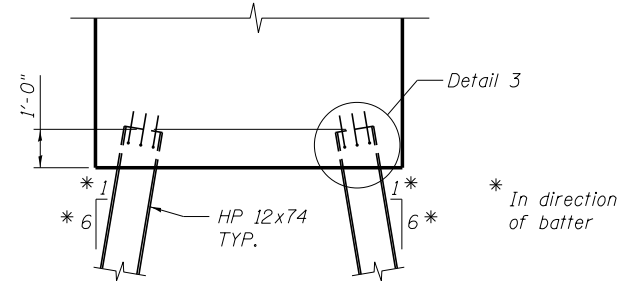


ANCHOR BOLT DETAIL

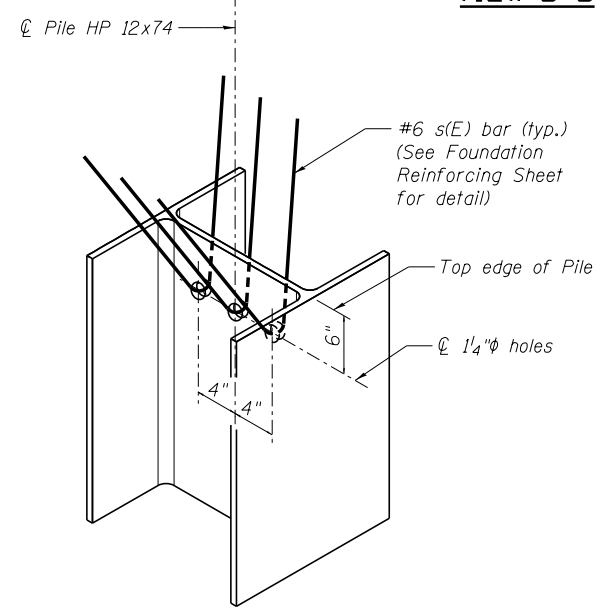


DETAIL 1
ANCHOR BOLT LAYOUT

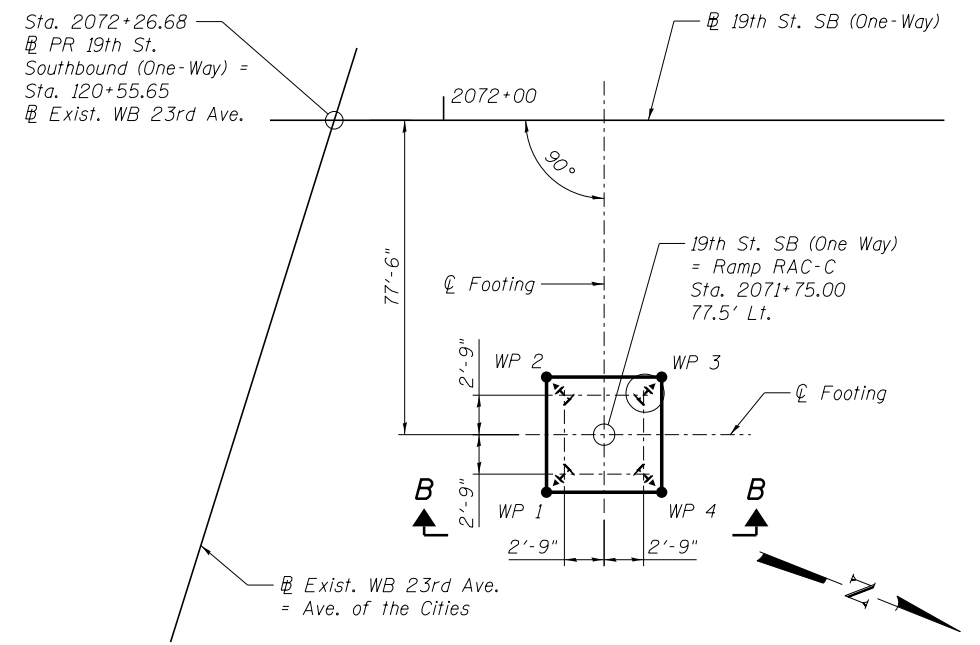
Note: Template geometry shall be identical to Base Pl geometry shown. In addition, each template for each Base Pl must be held in exact orientation and distance from each other, as shown in Foundation Plan.



VIEW B-B



DETAIL 3



LOCATION PLAN & PILE LAYOUT

Work Points

W.P.	Station	Offset
1	2071+79.07	81.5' Lt.
2	2071+79.07	73.5' LT.
3	2071+70.94	73.5' LT.
4	2071+70.94	81.5' Lt.

Based on 19th Street SB (One Way)

LEGEND

- Denotes Battered Pile 1H:6V
- Denotes Test Pile

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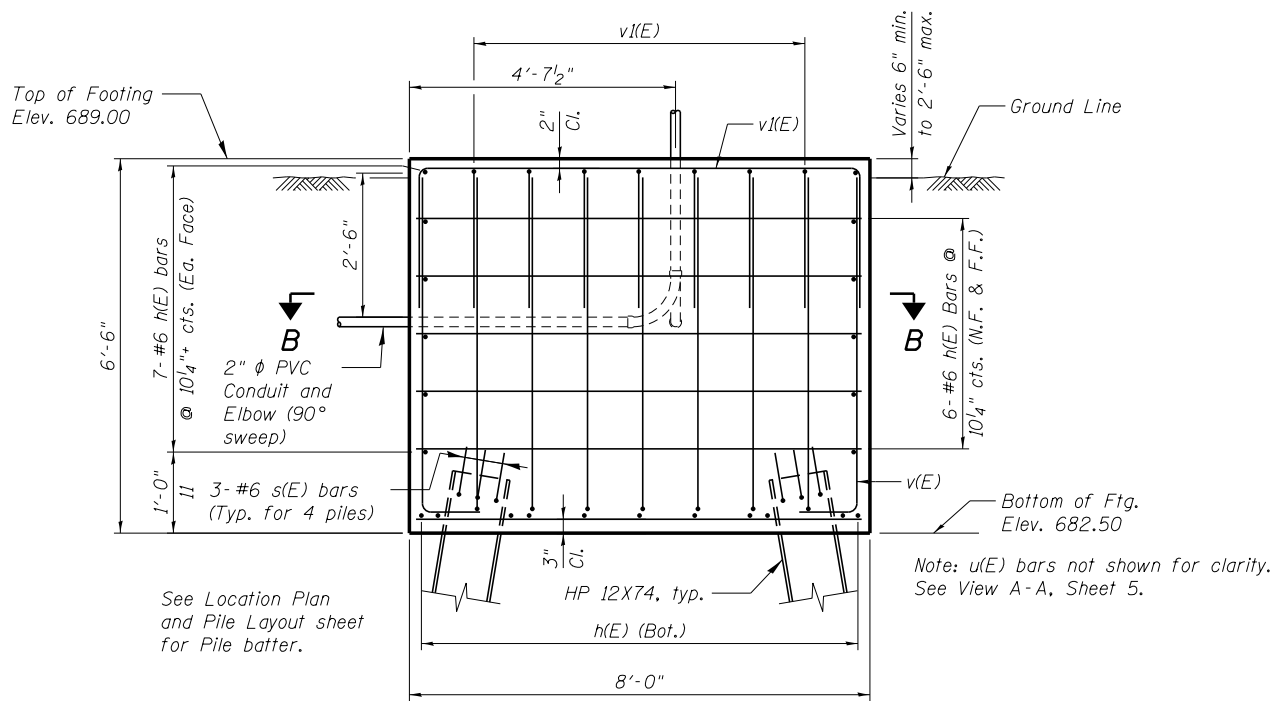
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE LAYOUT AND FOUNDATION DETAILS
NEIGHBORHOOD IDENTITY ELEMENT, RAMP RAC-C

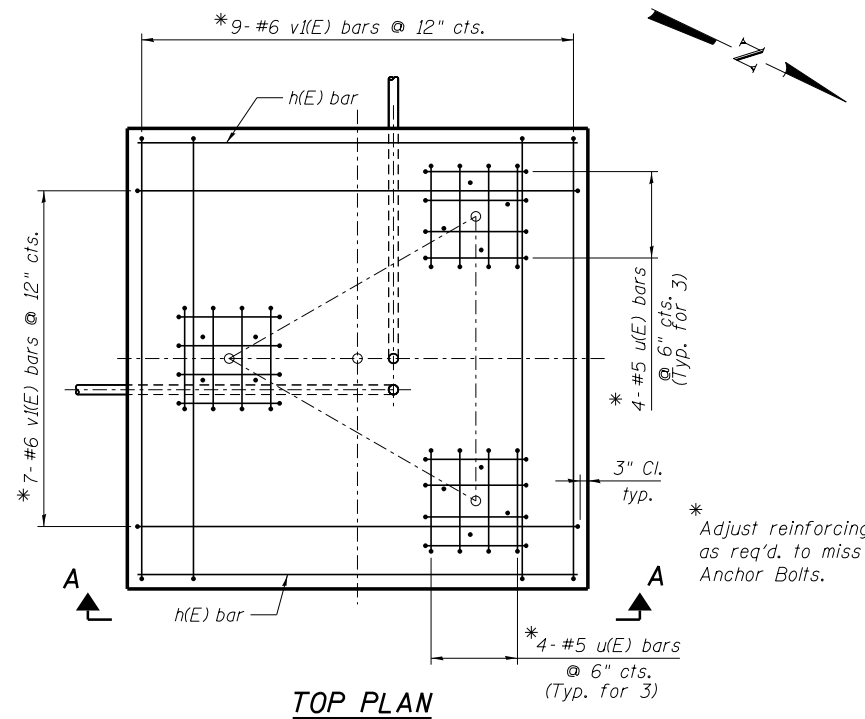
SHEET NO. 5 OF 7 SHEETS

F.A.I. RTE. = 74	SECTION = 181-1R1 & 81-1HBR, HBR-1, HBR-2	COUNTY = ROCK ISLAND	TOTAL SHEETS = 2042	SHEET NO. = 1493
				CONTRACT NO. 64E26
ILLINOIS FED. AID PROJECT				

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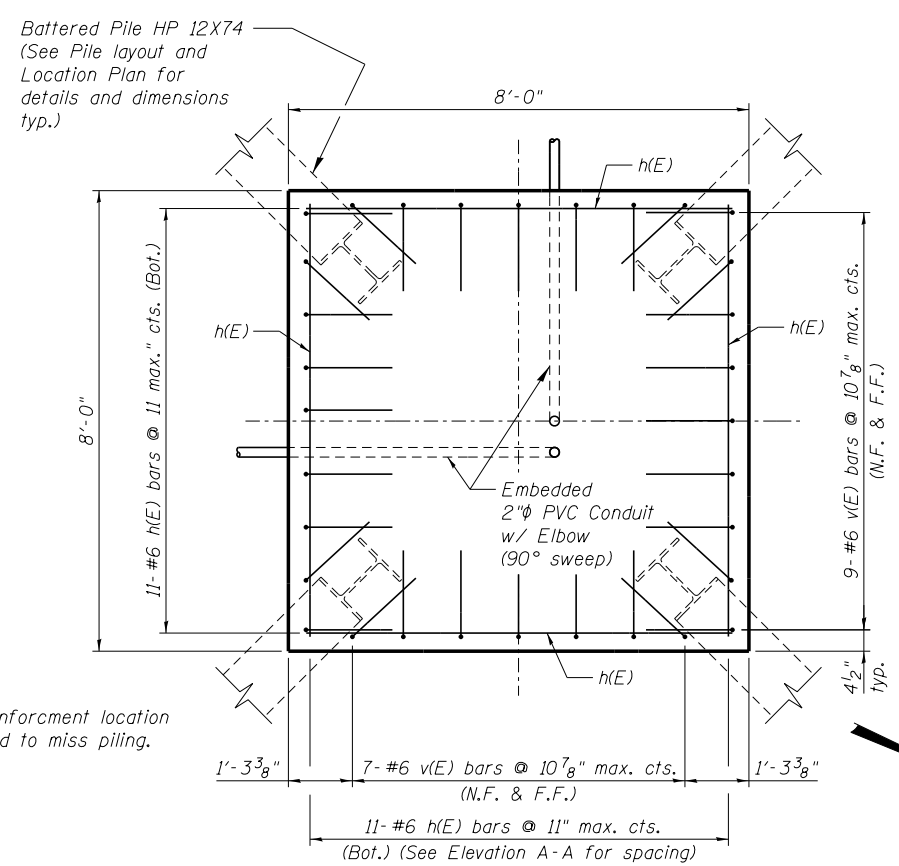
ELEVATION A-A
(Looking East)



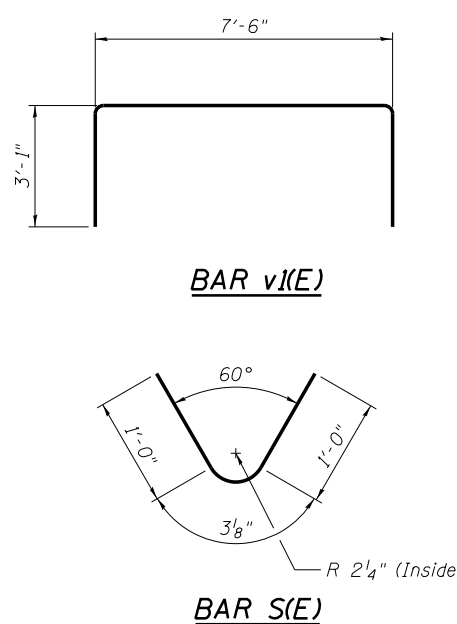
TOP PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#6	7'-6"	—
u(E)	24	#5	7'-2"	⊏
v(E)	32	#6	6'-9"	⊏
v(E)	16	#6	13'-8"	⊏
S(E)	12	#6	2'-4"	∨
Structure Excavation		Cu. Yd.	27	
Concrete Structures		Cu. Yd.	15.4	
Anchor Bolts, 7/8"φ		Each	12	
Reinforcement Bars, Epoxy Coated		Pound	1420	
Pile Shoes		Each	4	
Furnishing Steel Piles HP 12X74		Foot	123	
Driving Piles		Foot	123	
Test Pile Steel HP 12X74		Each	1	

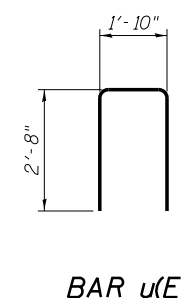


SECTION B-B



BAR v(E)

BAR S(E)



BAR u(E)

PILE DATA

Type: HP 12X74 with pile shoes
 Nominal Required Bearing: 203 kips
 Factored Resistance Available: 123 kips
 Est. Length: 41 feet
 No. Production Piles: 3
 No. Test Piles: 1

NOTES:

- Anchor Bolts shall be 7/8"φ ASTM, F1554, Grade 55. Anchor Bolts, nuts and washers shall conform to the requirements of the Standard Specifications.
- Anchor Bolts, nuts and washers shall be hot dip galvanized according to AASHTO M232, Class C.
- Nuts and washers shall be hand-tightened on Anchor Bolt projections, for future use when Identity Elements are installed.
- The Contractor shall take care to secure Anchor Bolts plumb and in the correct location. The Contractor shall leave the template, used to set the Anchor bolts, in place to protect the Anchor bolts until the Identity Element is installed by Others.
- Work this sheet with Foundation Reinforcement Details sheet.
- Reinforcement bars designated (E) shall be epoxy coated.

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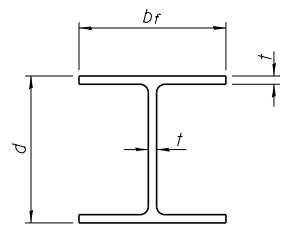
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION REINFORCEMENT DETAILS
NEIGHBORHOOD IDENTITY ELEMENT, RAMP RAC-C

SHEET NO. 6 OF 7 SHEETS

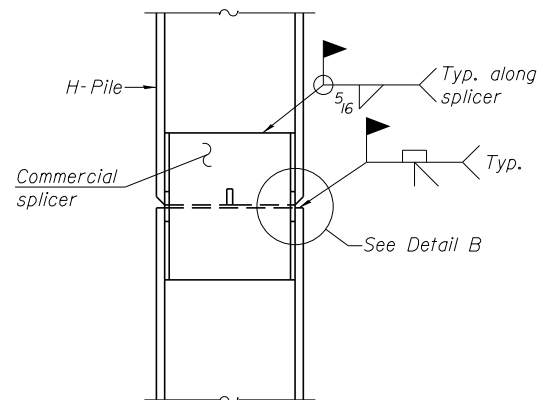
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1)HR, HBR-1, HBR-2)	ROCK ISLAND	2042	1494
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E26	

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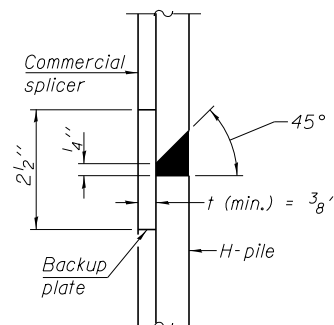


STEEL PILE TABLE

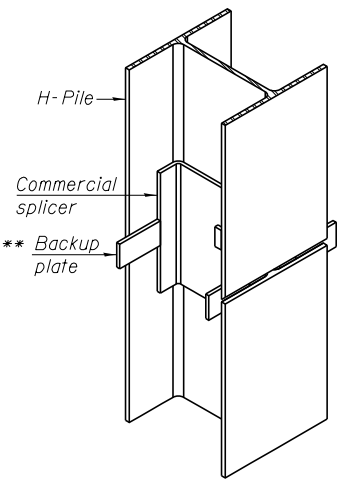
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

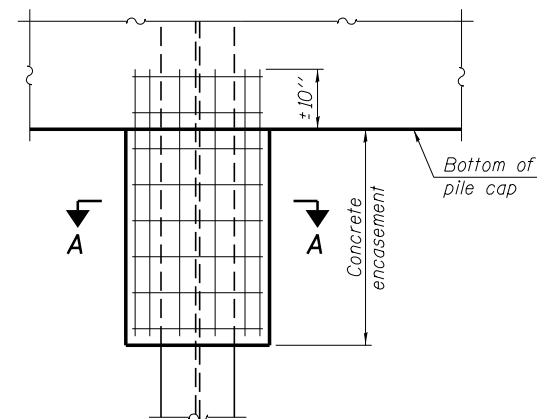


DETAIL "B"



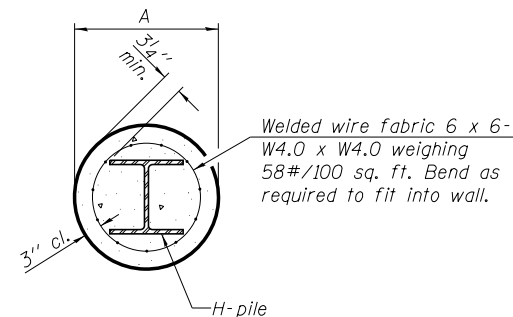
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



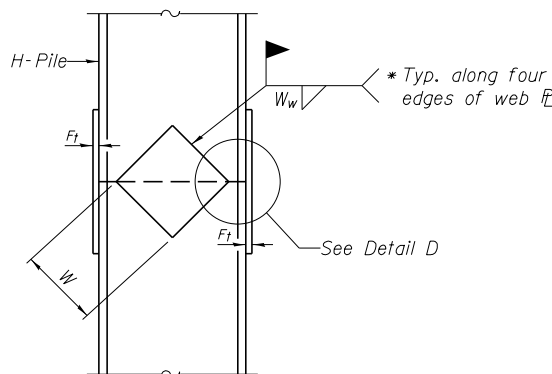
ELEVATION

PILE ENCASEMENT

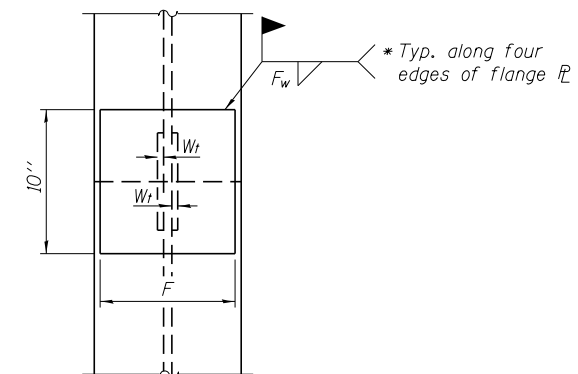


SECTION A-A

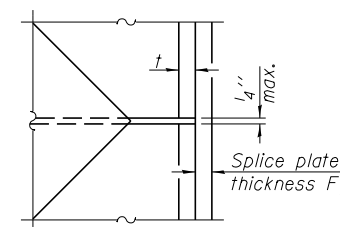
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



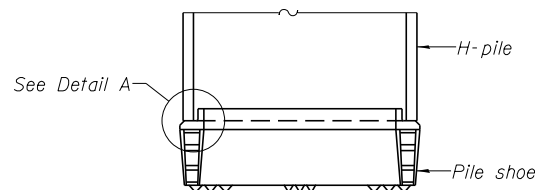
END VIEW



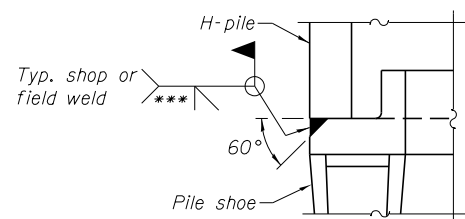
DETAIL D

WELDED PLATE FIELD SPLICE

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

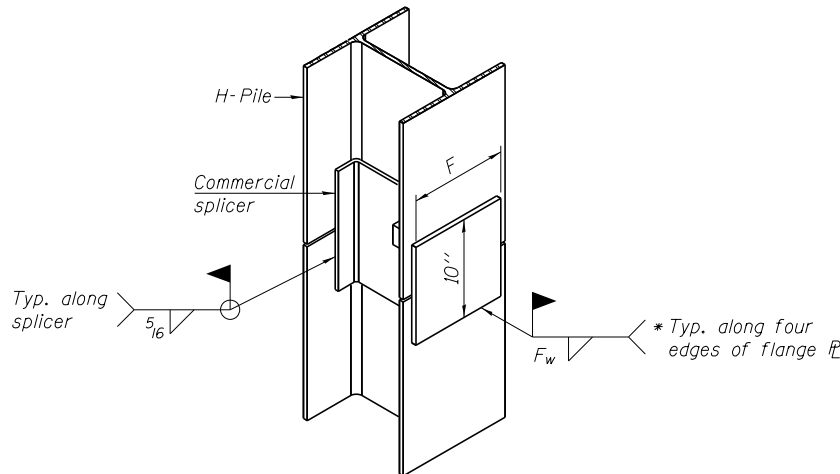


ELEVATION



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.



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F-HP

1-27-12

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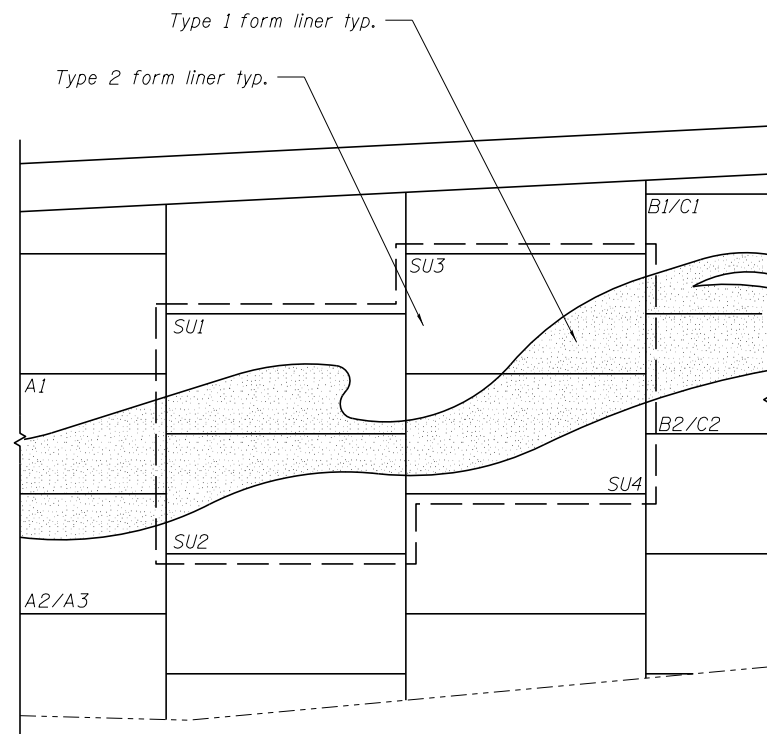
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
RAMPS RAC-A & RAC-C

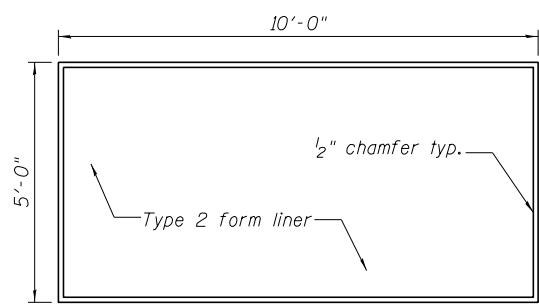
SHEET NO. 7 OF 7 SHEETS

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R1 & 81-1)HR, HBR-1, HBR-2)	ROCK ISLAND	2042	1495
CONTRACT NO. 64E26			ILLINOIS FED. AID PROJECT	

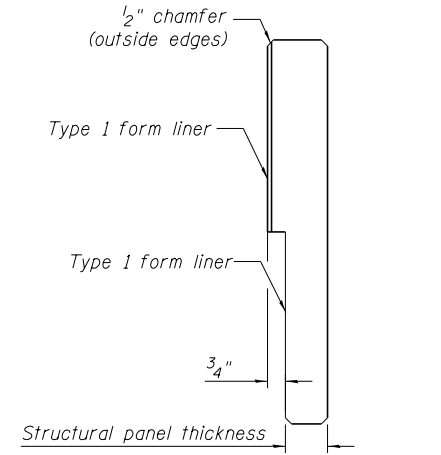
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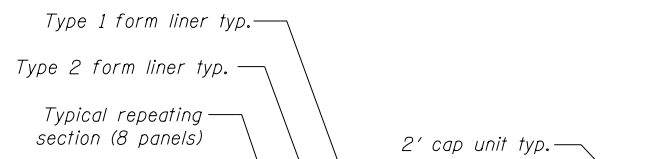
TYPICAL PATTERN STEP UP CONFIGURATION



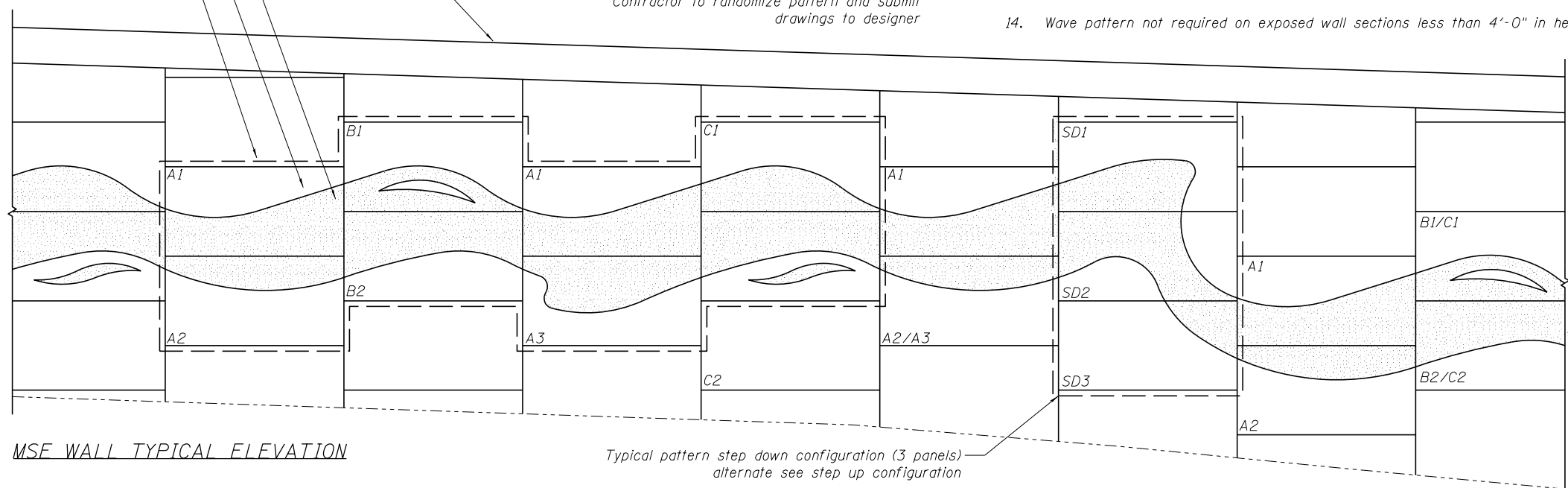
TYPICAL MSE WALL PANEL



TYPICAL MSE WALL PANEL SECTION

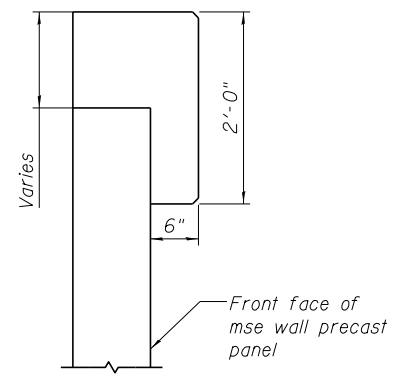


Panels A2 and A3 are interchangeable
Panels B1 and C1 are interchangeable
Panels B2 and C2 are interchangeable
Contractor to randomize pattern and submit drawings to designer



MSE WALL TYPICAL ELEVATION

Typical pattern step down configuration (3 panels)
alternate see step up configuration

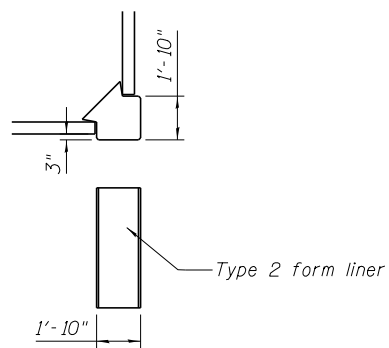


MSE COPING DETAIL

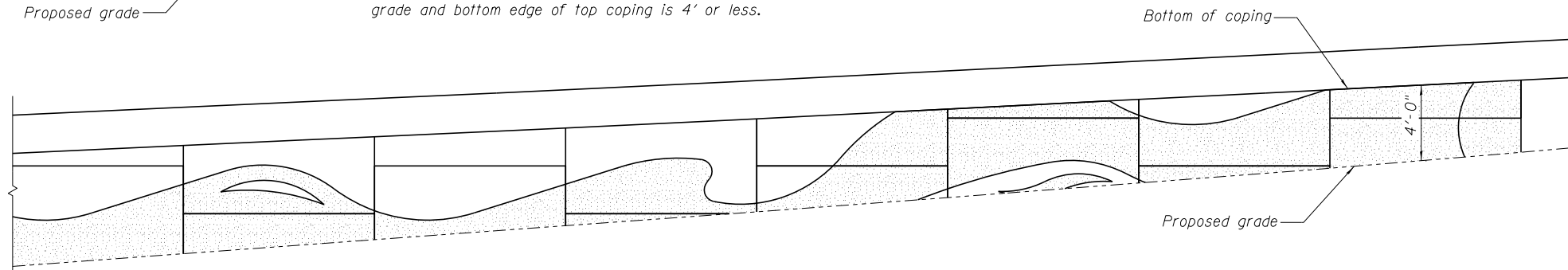
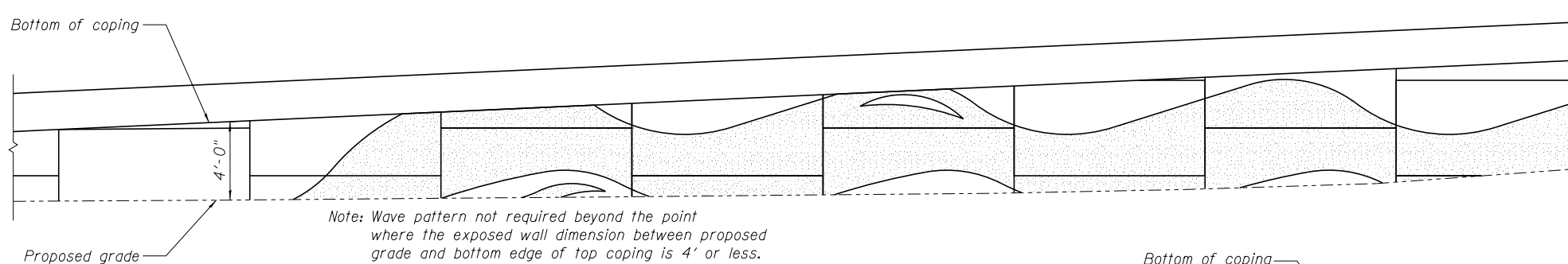
PRECAST CONCRETE MSE WALL PANEL FINISH NOTES

Refer to section 2432. Mechanically stabilized earth (mse) retaining wall with the following additions.

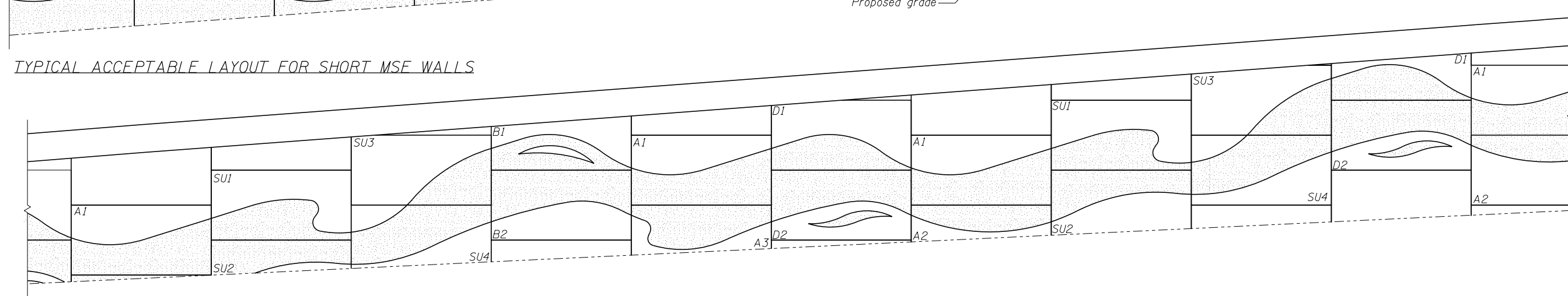
- Submit shop drawings indicating form liner layout and termination details for all panels. Indicate backup, rustication, reveal, and chamfer strip locations. Include jointing, pattern placement and orientation. Contractor responsible for design of formwork and back-up of form liner for structural stability and sufficiency.
 - Submit 12 inch by 12 inch samples of each pattern indicated. Samples may be either actual form liner materials or foam castings from liners proposed for use on the project.
 - Provide full scale sample of each panel type using actual job specific materials, methods and workmanship. These include concrete mix [cement type, aggregate gradation, slump, water/cement ratios, plasticizers and additives], forming system [liner and formwork], form release agents, placement rate, form pressures, formwork and joint sealing, vibrating and stripping practices. In addition, demonstrate patching and repair procedures for spalled concrete, and voids caused by honeycombing or bug holes. Accepted sample panels will be standard by which remaining work will be evaluated for technical and aesthetic merit. Contractor shall store accepted sample panels on site for reference until substantial completion. Accepted sample panels are a prerequisite to beginning job formwork. Submit variations from sample panel materials or techniques for approval prior to use.
 - Cover form liners to protect from oil, dirt and uv exposure.
 - Handle rigid form liner panels with care at temperatures below 25° F.
 - Approved manufacturers of form liners materials and accessories
- | | | |
|---|---|--|
| Basis of Design: | Allowable Alternates: | |
| TYPE 1 -
Scott System Pattern 122 -
striated | Type 1 -
Fitzgerald Formliners pattern 17934 -
dc wave | Type 1 -
American Formliners pattern 1122 -
random striations |
| TYPE 2 -
Scott System Pattern 120 -
sandblast #2 | Type 2 -
Fitzgerald Formliners pattern 16991 -
medium sandblast | Type 2 -
American Formliners pattern 1200 -
light/medium sandblast |
| Scott System, Inc.
10777 East 45TH Avenue
Denver, CO 80239
333-373-2500
WWW.SCOTTSYSTEM.COM | Fitzgerald Formliners, Inc.
1500 East Chestnut Avenue
Santa Ana, CA 92701
800-547-7760
WWW.FORMLINERS.COM | American Formliners, Inc.
1567 Frontenac Road
Naperville, IL 60563
630-615-2170
WWW.AMERICANFORMLINERS.COM |
- On multiple use liners, clean liner before each use. Replace damaged liner whose continued use or repair would negatively impact the aesthetics of the concrete finish
 - Apply form liner compatible release agent at rate recommended by manufacturer. Attempt to schedule concrete pour soon after application of release agent to avoid precipitation, dust, and debris. Protect reinforcing steel from exposure to release agents.
 - Seal form liner joints to prevent mortar leakage.
 - Provide solid backing at form liner butt joints to prevent deflection.
 - Construct form liner and accessories to sizes, shapes, lines and dimensions shown.
 - Install backup strips as required to prevent deflection of the liner due to form pressures.
 - All required precast panels and the associated form liners and aesthetic considerations as shown on the plans are to be included in the contract unit price for item 2432-0000100 mechanically stabilize earth retain wall sf.
 - Wave pattern not required on exposed wall sections less than 4'-0" in height.



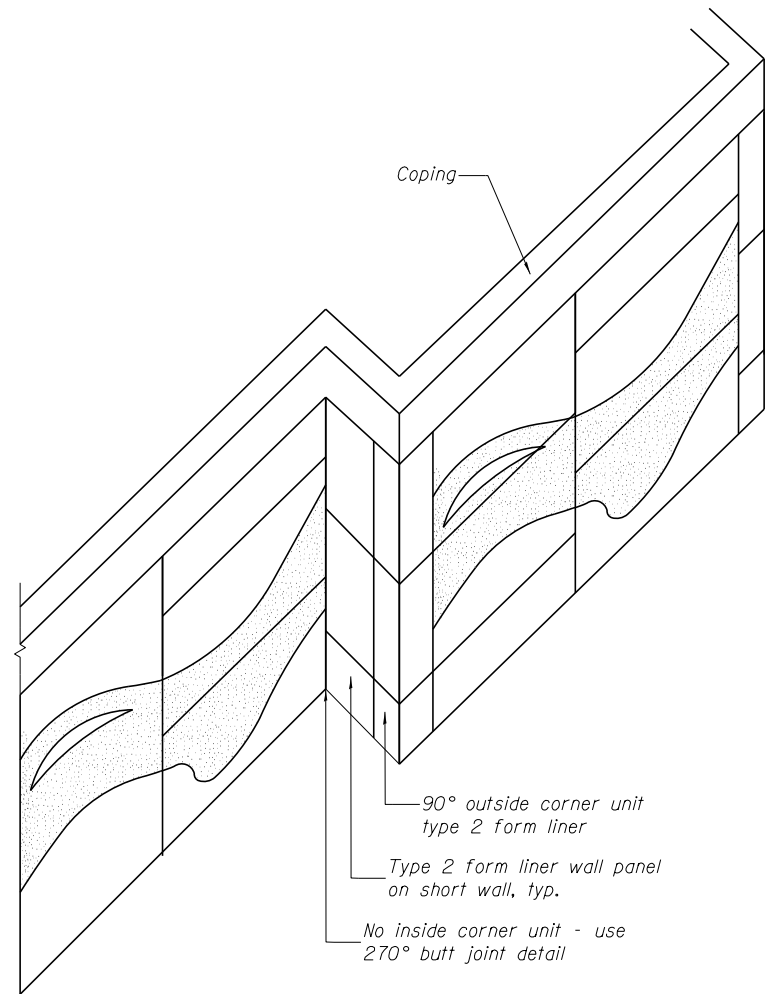
OUTSIDE CORNER DETAIL



TYPICAL ACCEPTABLE LAYOUT FOR SHORT MSE WALLS

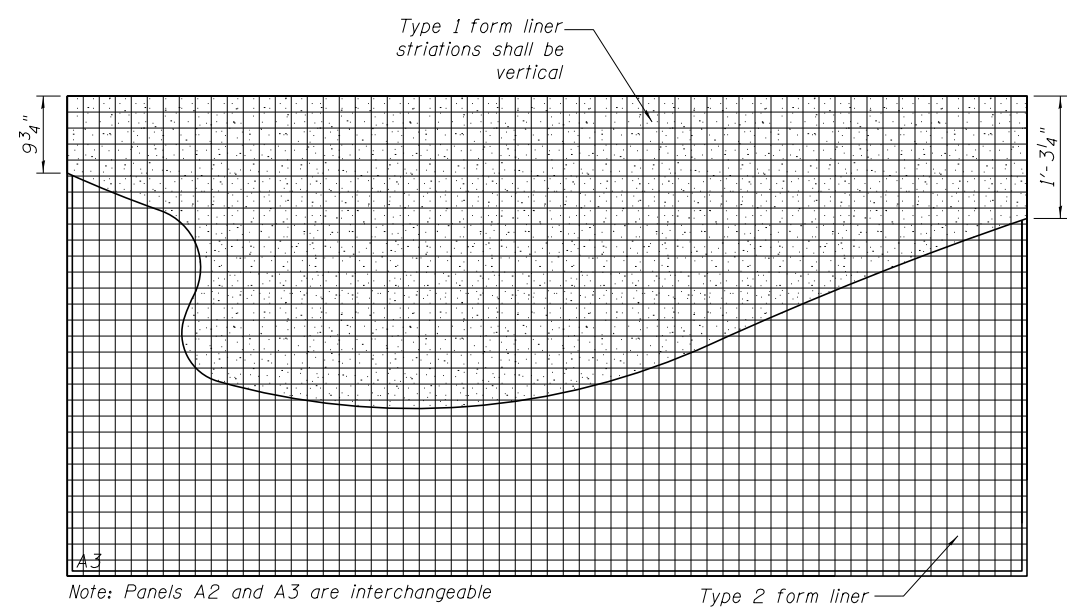
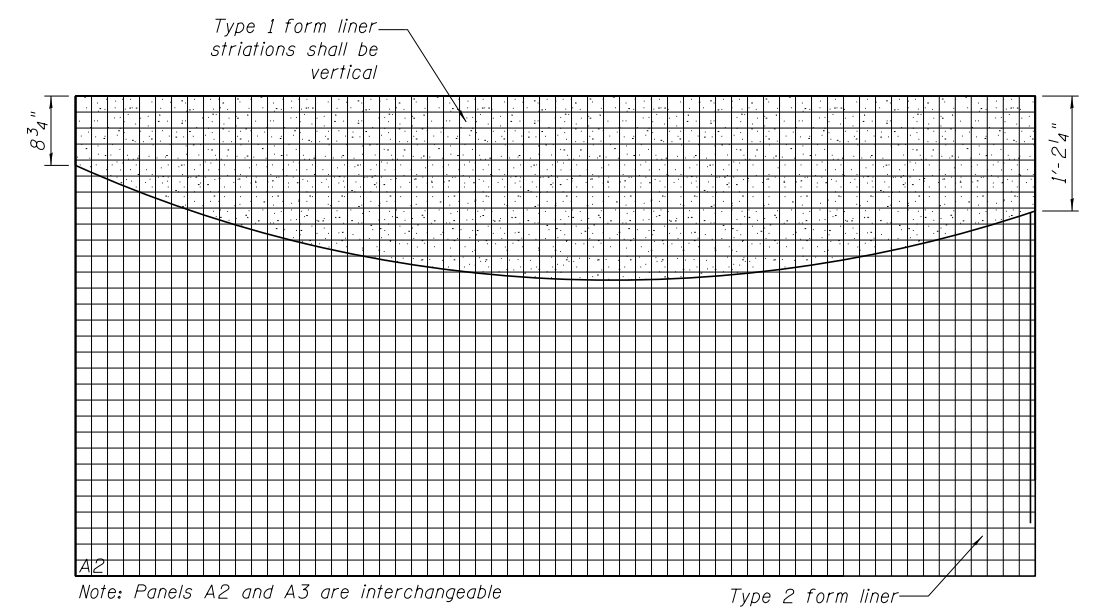
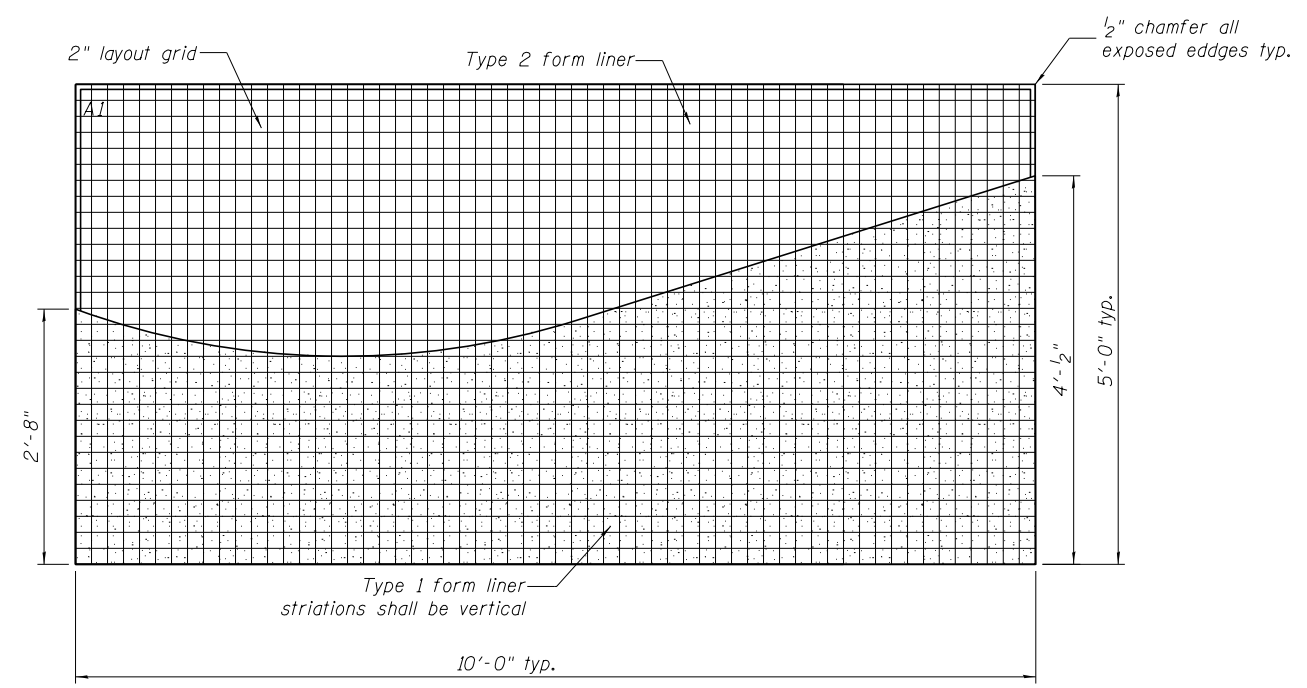


ADDITIONAL PANEL LAYOUT EXAMPLE



MSE BUMPOUT DETAIL

FILE NAME = ILLINOIS MSE WALLS	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MSE WALL AESTHETIC DETAILS MSE WALL ELEVATION	F.A.I. RTE. = 74	SECTION = (81-1)R & 81-IHVBR	COUNTY = ROCK ISLAND	TOTAL SHEETS = 2042	SHEET NO. = 1497
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -			PROJECT NO. 92-032-01	CONTRACT NO. 64C08			
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
	SHEET NO. 2 OF 6 SHEETS									



MSE WALL PANEL ELEVATIONS
(Patterns A1, A2 and A3)

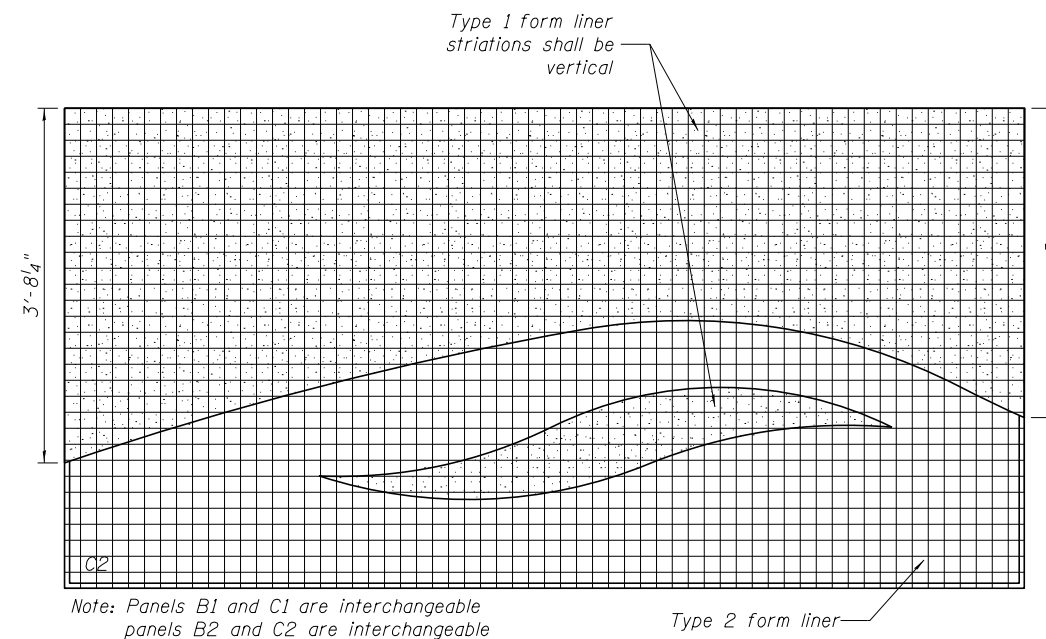
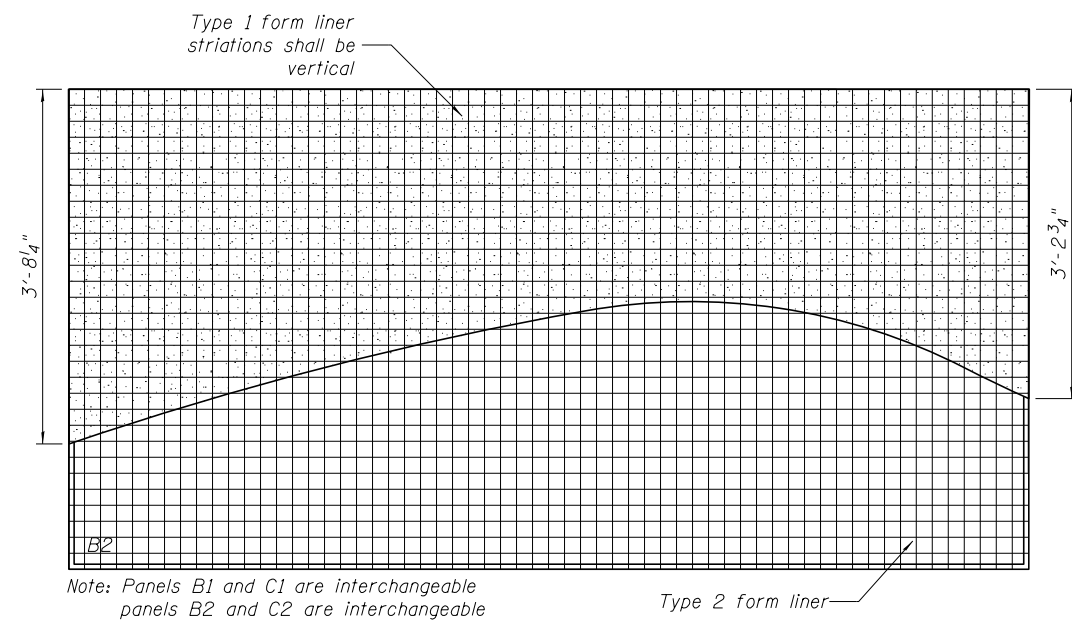
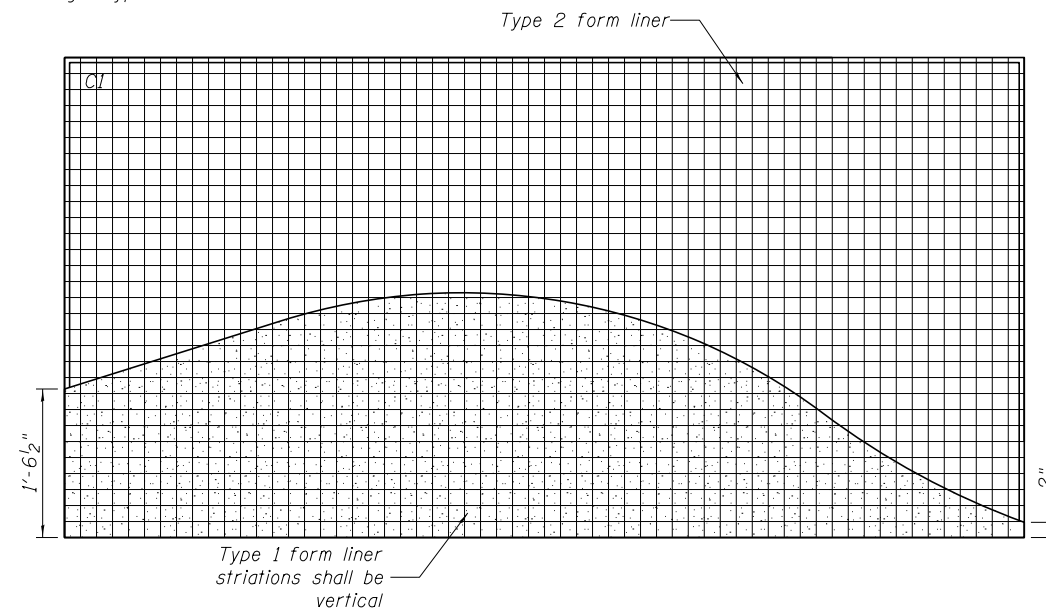
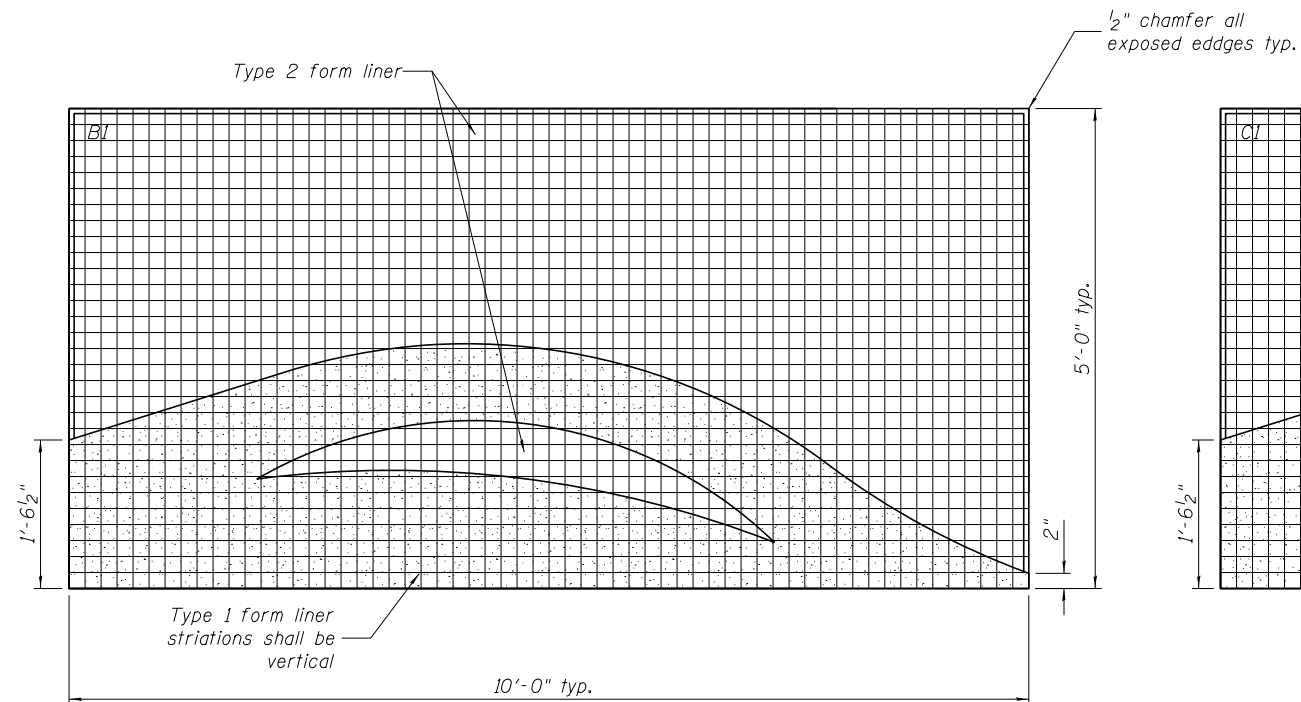
FILE NAME = ILLINOIS MSE WALLS	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -
		CHECKED - B. HANNAH	REVISED -
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL
AESTHETIC DETAILS MSE WALL PANEL ELEVATION

SHEET NO. 3 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	2042	1498
PROJECT NO. 92-032-01		CONTRACT NO. 64C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



TYPICAL MSE WALL PANEL PATTERN
(Patterns B1, B2, C1 and C2)

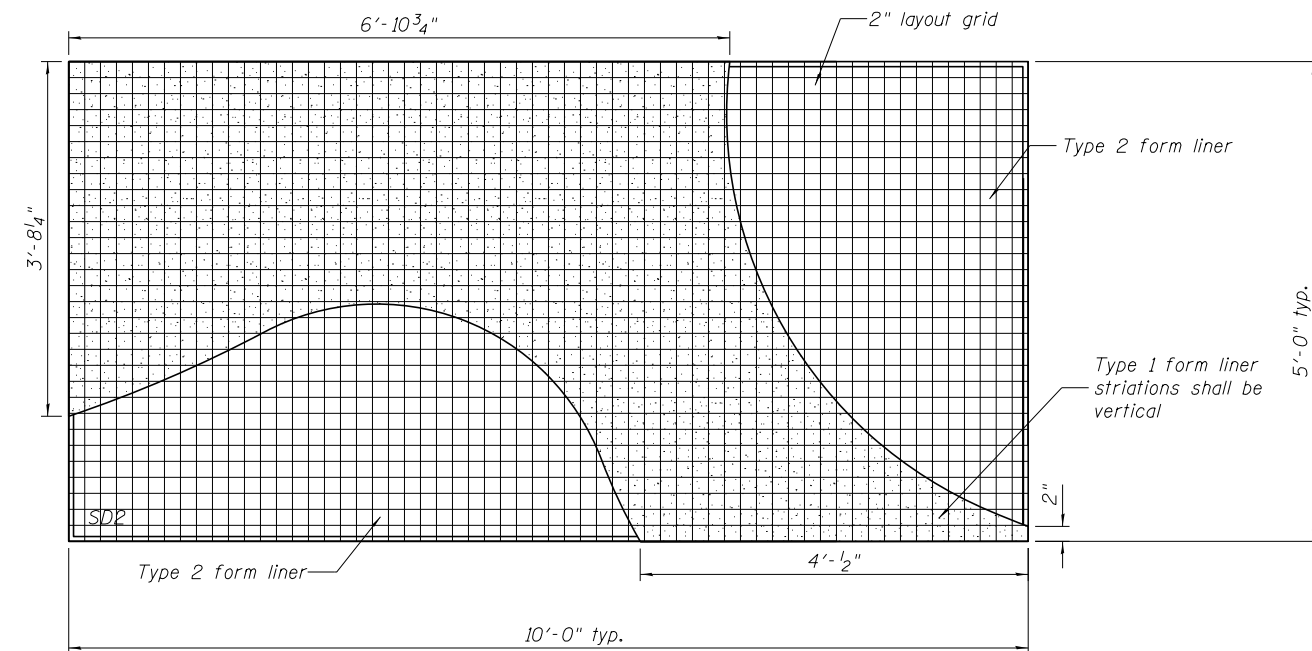
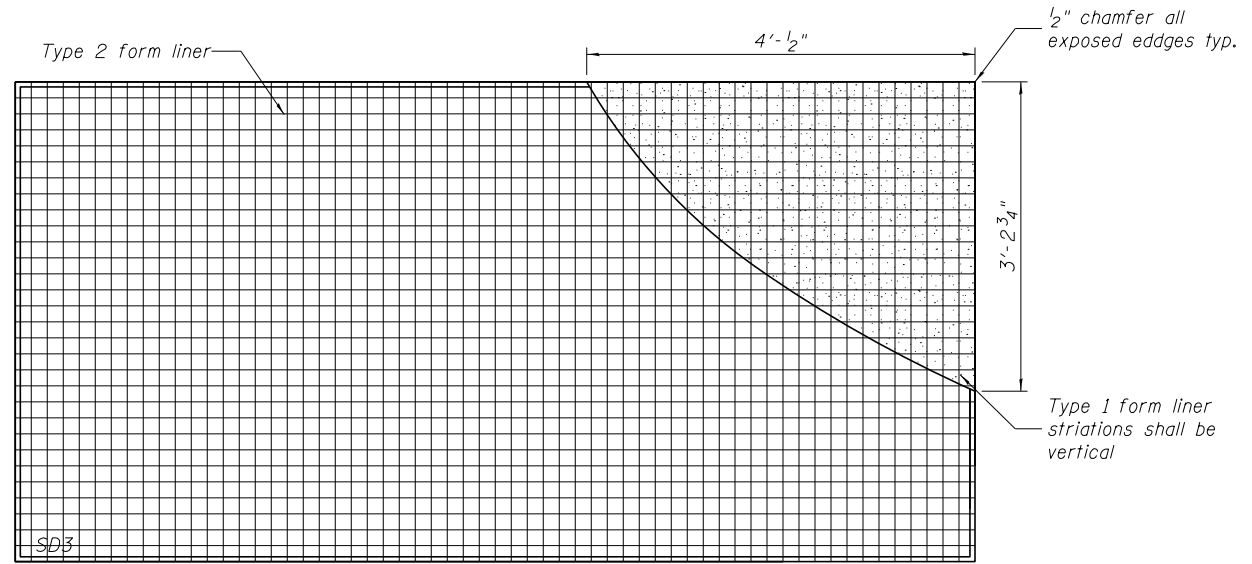
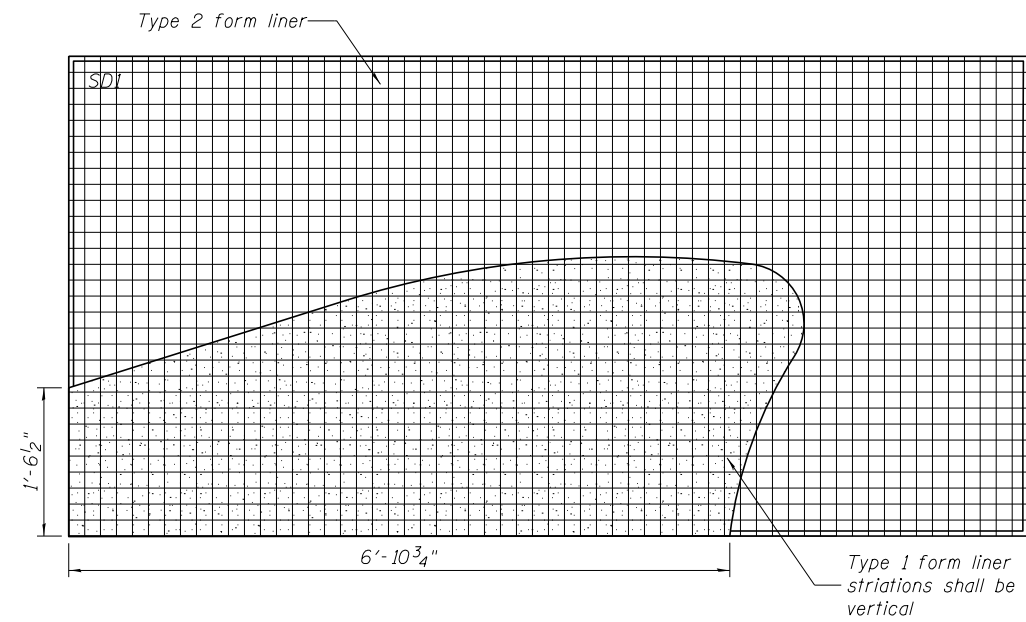
FILE NAME = ILLINOIS MSE WALLS	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -
		CHECKED - B. HANNAH	REVISED -
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL
AESTHETIC DETAILS MSE WALL PANEL ELEVATION

SHEET NO. 4 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	2042	1499
PROJECT NO. 92-032-01		CONTRACT NO. 64C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



TYPICAL MSE WALL PANEL PATTERN
(Patterns SD1, SD2 and SD3)

FILE NAME = ILLINOIS MSE WALLS	USER NAME = SHIVE HATTERY	DESIGNED - B. HANNAH	REVISED -
		CHECKED - B. HANNAH	REVISED -
	PLOT SCALE =	DRAWN - M. ROSS	REVISED -
	PLOT DATE = 3/21/2017	CHECKED - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL
AESTHETIC DETAILS MSE WALL PANEL ELEVATION

SHEET NO. 5 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(81-1)R & 81-IHVBR	ROCK ISLAND	2042	1500
PROJECT NO. 92-032-01		CONTRACT NO. 64C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				