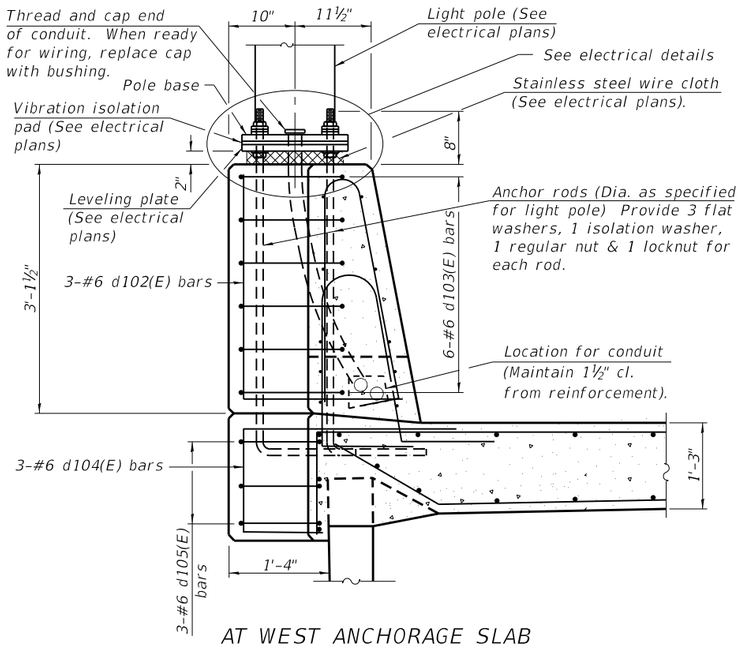
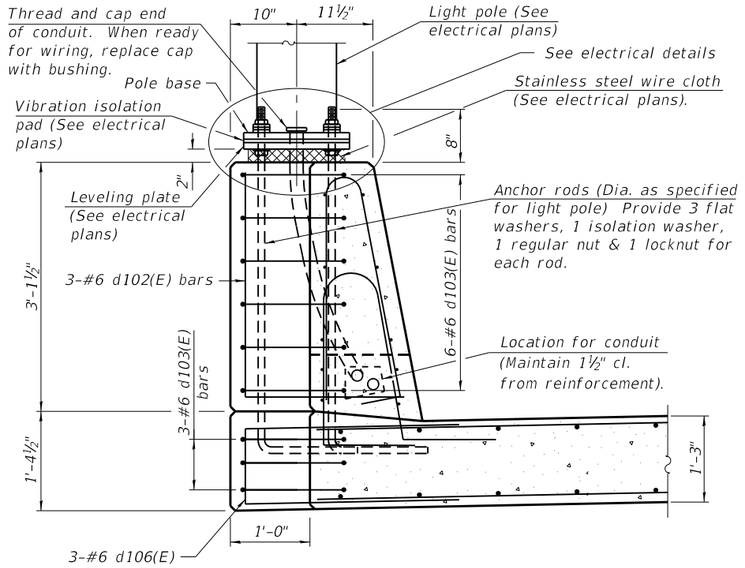
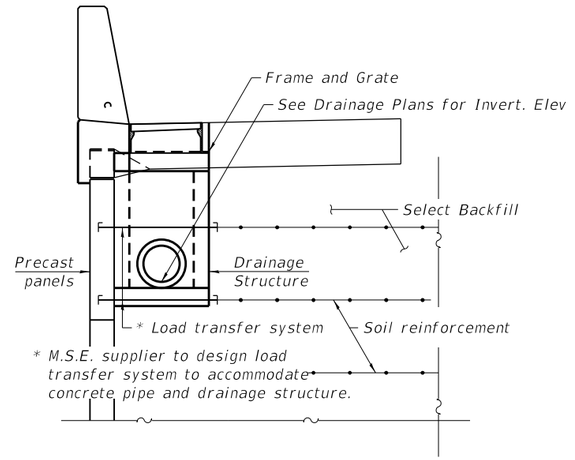


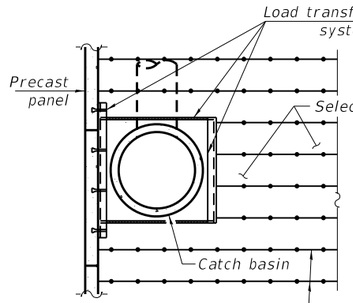
AT WEST ANCHORAGE SLAB



AT EAST ANCHORAGE SLAB

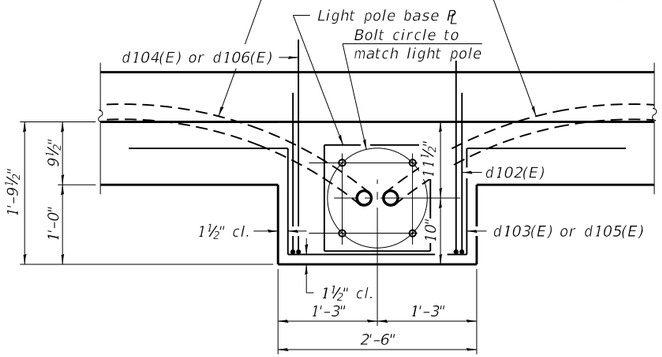


ANCHORAGE SLAB INLET SECTION

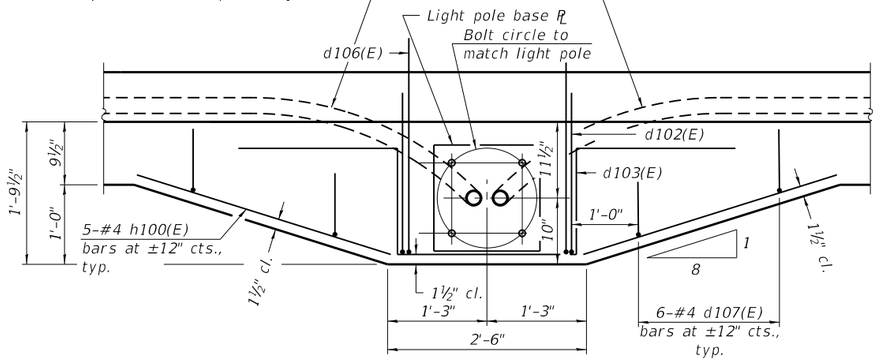


ANCHORAGE SLAB INLET SECTION

Notes:
Cost of anchor rods is included with Concrete Superstructure.
h100(E) bars shall be cut as required as the expansion joints.

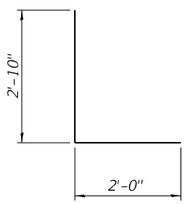


SECTION D-D

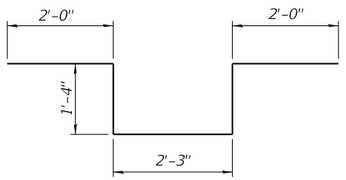


SECTION E-E

LIGHT POLE PEDESTAL DETAILS



BAR d102(E)



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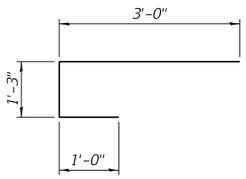

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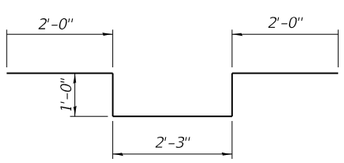
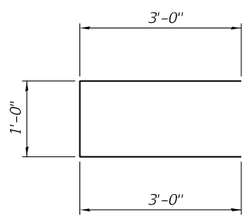


BAR d105(E)



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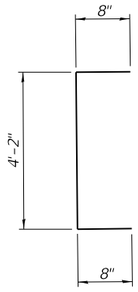

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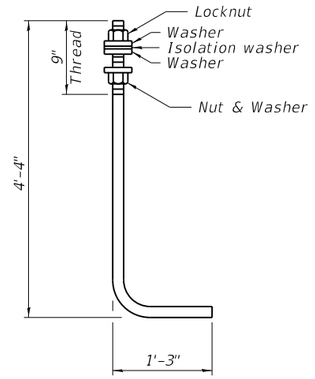

ANCHOR ROD
Diameter as specified for light poles.
(ASTM F 1554 Grade 105) Full length
hot dipped galvanized

QUIGG ENGINEERING INC	USER NAME = lcriscione	DESIGNED - KWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	60603202_058-W004_25_Details - 2.dgn	CHECKED - KFO	REVISED -	ANCHORAGE SLAB & WALL DETAILS (2 OF 3) STRUCTURE NO. 058-W004
	PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -	SHEET SB-25 OF SB-35 SHEETS
	PLOT DATE =	CHECKED - MDC	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	569
		CONTRACT NO. 6WGY(165)		
		ILLINOIS	FED. AID PROJECT	

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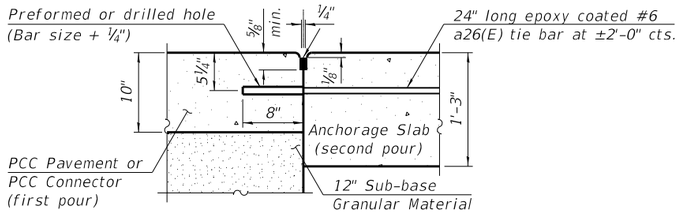
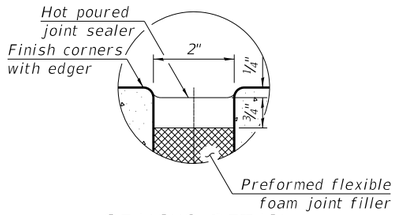
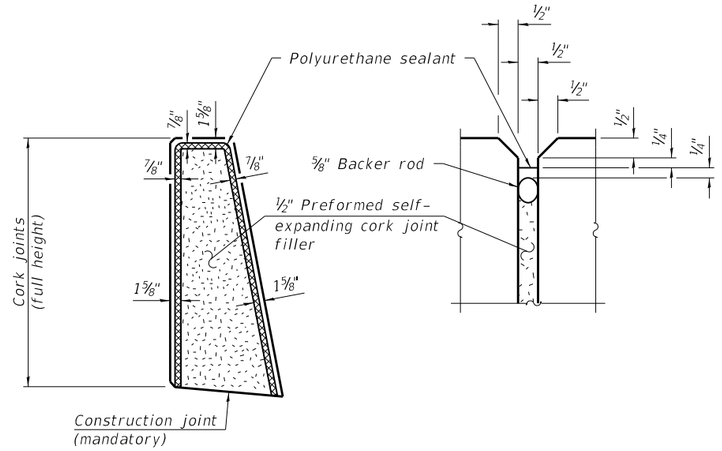


LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR

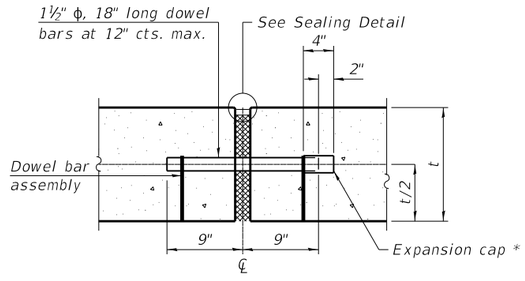


SEALING DETAIL



PARAPET EXPANSION JOINT DETAILS

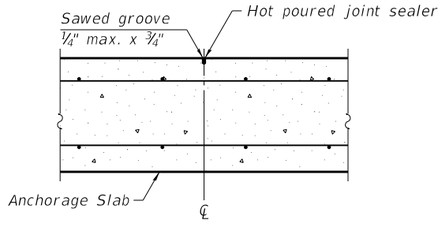
Note:
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.



* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.

ANCHORAGE SLAB EXPANSION JOINT

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



TRANSVERSE CONTRACTION JOINT

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QUIGG ENGINEERING INC

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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB & WALL DETAILS (3 OF 3)
STRUCTURE NO. 058-W004
SHEET SB-26 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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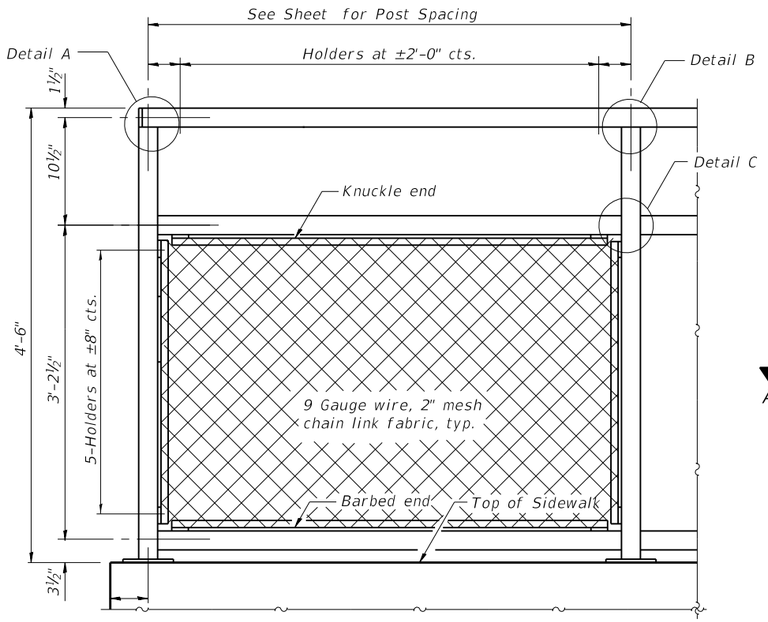
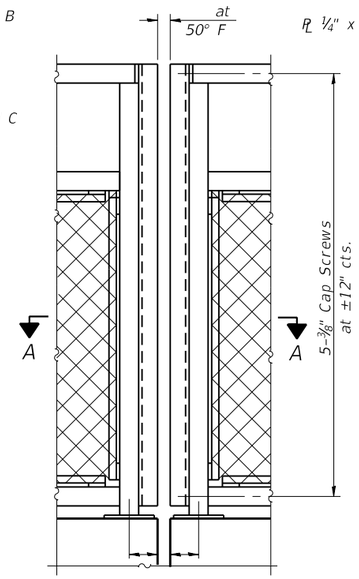
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		



BICYCLE RAILING



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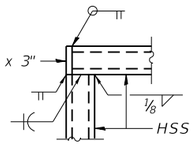
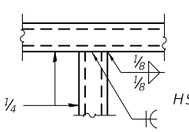
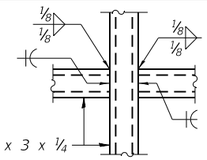


DETAIL A

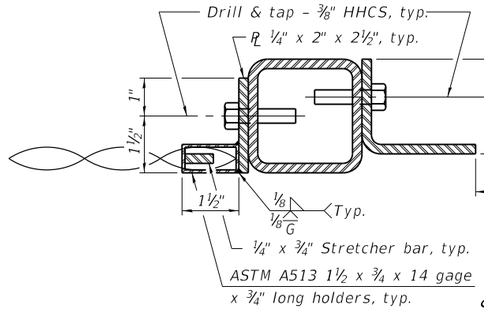


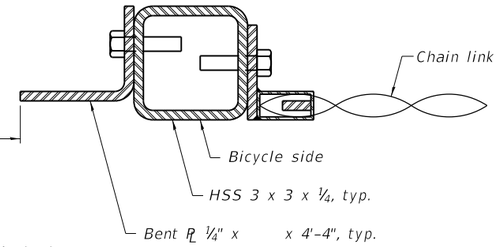
DETAIL B



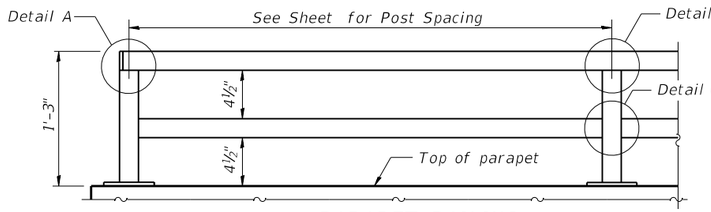
DETAIL C

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

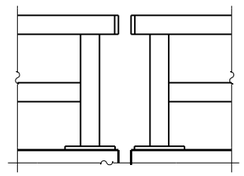




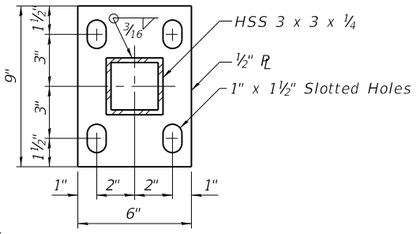
SECTION A-A



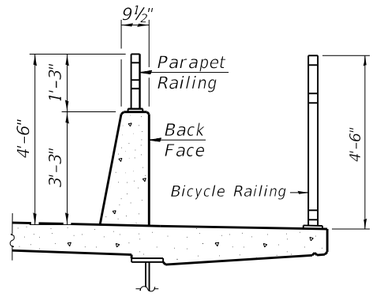
PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)



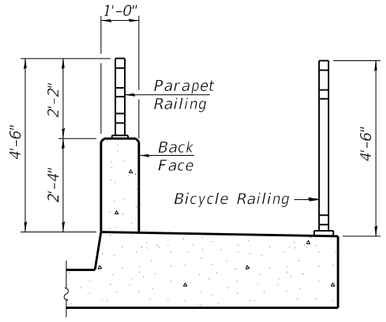
PARAPET RAILING
ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)



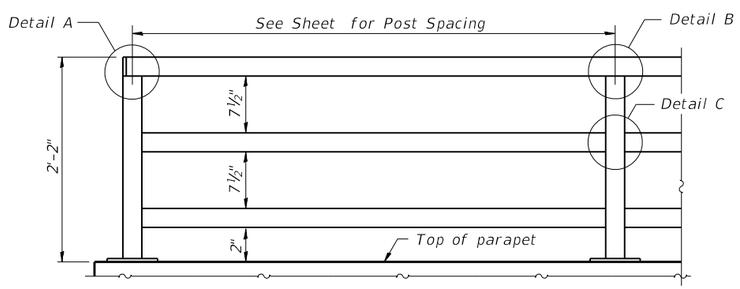
BASE PL



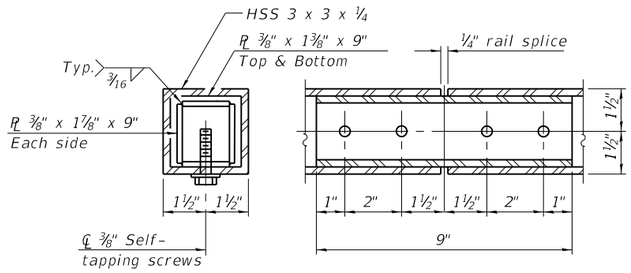
SECTION THRU DECK



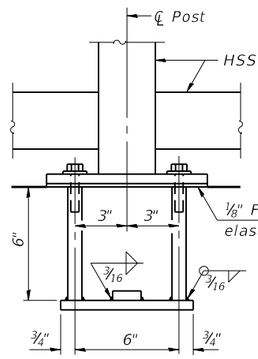
SECTION THRU SIDEWALK

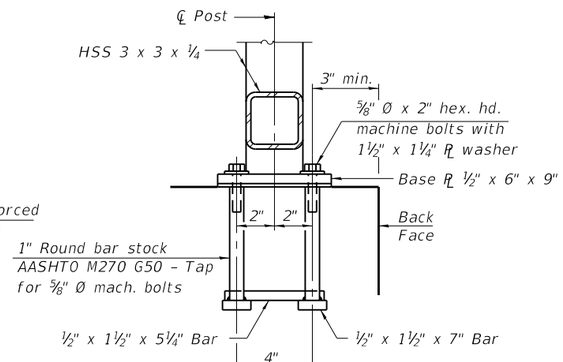


PARAPET RAILING
ELEVATION
(Inside Face of Three Element Rail)



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Notes:
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
CVN testing may be omitted for the Bicycle Railing.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	602.5
Parapet Railing	Foot	584

R-29 1-14-2019 (10'-0" Maximum Post Spacing)

QUIGG ENGINEERING INC

USER NAME = lcriscione		DESIGNED - KWB		REVISED -	
60603202_058-W004_27_R-29.dgn		CHECKED - KFO		REVISED -	
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PLOT DATE =		CHECKED - MDC		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 058-W004
SHEET SB-27 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	571
		CONTRACT NO. 6WGY(165)		
	ILLINOIS FED. AID PROJECT			

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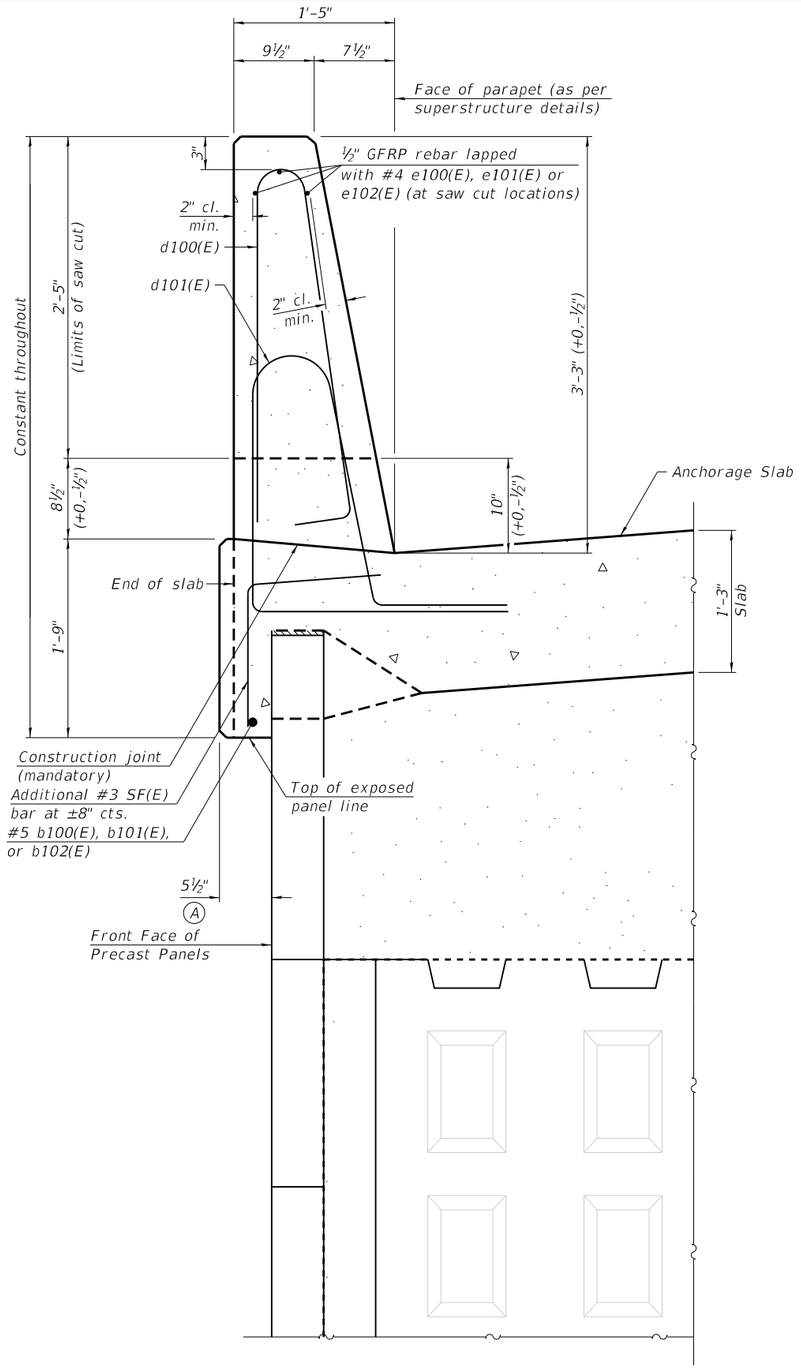
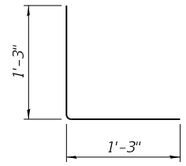
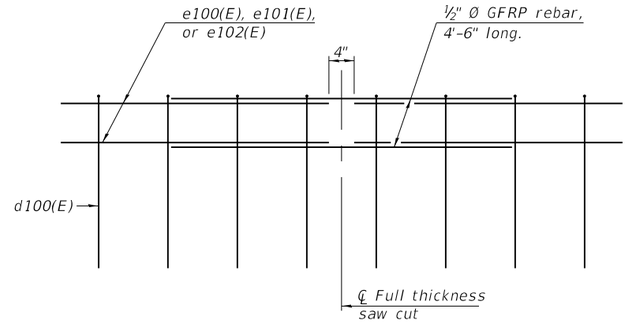


39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d100(E), d101(E) and ½" Ø GFRP rebar)
(Showing reinforcement clearances for slip forming and additional reinforcement)



#3 SF(E) BAR



GFRP REBAR STIFFENING DETAIL

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

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.01 cu. yds./ft.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Slipforming of parapets along the east anchorage slab is not allowed.

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11/2/2020 8:59:47 AM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -
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PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 058-W004

SHEET SB-28 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	572
		CONTRACT NO. 6WGY(165)		
	ILLINOIS FED. AID PROJECT			

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 2
Project #: 313516
Date 04/12/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM,BG,CH,JM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-16 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 675.023 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 26.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
18" CONCRETE					
SAND - A-1-6 Brown, moist, medium dense, fine-medium			14 15 14		
		5			
-very loose			2 1 1	1.7	14.9
SILTY CLAY LOAM - A-4 Brown, moist, stiff-very stiff, low plasticity,little sand, trace gravel		10	5 6 10	4.8	13.3
-very stiff			8 13 16	4.1	13.7
		15	4 11 15	2.9	12.1
SILTY CLAY LOAM - A-6 Gray, moist, hard, low plasticity, trace gravel			13 14 17	3.0	11.8
-very stiff		20	7 11 15	5.3	10.7
			7 11 16	2.6	12.5
(*)free water @ 26.5'		25	2 9 13	17.0	7.6
-hard			22 60		13.3
-very stiff		30	2 2 24	5.6	11.3

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
-hard		35	19 17 35		
		40	16 22 38-5		11.1
		45	13 14 21		10.2
		50	15 20 32	6.1	10.7
SAND - A-1-a Gray, moist, dense, fine-coarse, trace gravel		55	15 21 17		
		60	3 9 21		
-very dense		65	21 40 20-4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 2 of 2
Project #: 313516
Date 04/12/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM,BG,CH,JM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-16 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 675.023 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 26.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		70	22 27 29		
END OF BORING @ 71.0 FT.	604.023				
		75			
		80			
		85			
		90			
		95			
		100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGGMSE Walls Sheets\60603202_058-W004_29_B-16.dgn
11/2/2020 8:59:58 AM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -	
60603202_058-W004_29_B-16.dgn	CHECKED - KFO	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (B-16)
STRUCTURE NO. 058-W004
SHEET SB-29 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	573
		CONTRACT NO. 6WGY(165)		
		ILLINOIS	FED. AID PROJECT	

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Project #: 313516
Date 04/02/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-17 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.566 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 14.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
18" CONCRETE					
SILTY CLAY LOAM - A-6 Brown, moist, stiff, low plasticity, little sand, trace gravel			2 4 5	1.8	18.6
		5	2 5 10	1.1	24.8
A-4 SILT - A-4 Brown, moist, very stiff, low plasticity			7 12 15		22.0
		10	8 10 12		22.7
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity			6 9 11		13.8
		15	9 21 24	2.8	19.9
SILT - A-4 Brown, moist, hard, low plasticity, with organics (*)free water @ 14.5'			6 10 12	2.4	13.8
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, trace sand, trace gravel		20	2 5 8	1.4	0.0
CLAY - A-6 Gray, moist, stiff, low plasticity, little sand, trace gravel			6 6 7	1.3	12.9
-hard		25	10 28 32-3		7.8
-very stiff -sand seam			2 10 14		8.5
SAND - A-1-a Gray, moist, medium dense, fine-coarse, with gravel		30	5 6 7		

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel		35	11 23 37		13.5
		40	14 19 28		10.2
		45	60		16.5
		50	17 22 38	6.2	9.5
SAND - A-1-a Gray, moist, dense, fine-coarse, trace gravel		55	3 17 31		
		60	9 14 17		
-very dense		65	24 24 27		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Project #: 313516
Date 04/02/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-17 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.566 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 14.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel END OF BORING @ 71.0 FT.	603.566	70	4 12 18	.8	18.9
		75			
		80			
		85			
		90			
		95			
		100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CADD\03_SHEETS\03_QUIGGIMSE Walls Sheets\60603202_058-W004_30_B-17.dgn

QUIGG ENGINEERING INC	USER NAME = lcriscione	DESIGNED - KWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	60603202_058-W004_30_B-17.dgn	CHECKED - KFO	REVISED -	
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - LMC	REVISED -	
	PLOT DATE = 11/2/2020 9:00:31 AM	CHECKED - MDC	REVISED -	

SOIL BORING LOGS (B-17)
STRUCTURE NO. 058-W004
SHEET SB-30 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	574
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 2
Project #: 313516
Date 04/04/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM, JM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-18 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.938 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 30.0' (ft.)
Upon Completion 28.2 (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
18" CONCRETE			25		
SILTY CLAY - A-6 Dark Brown, moist, stiff, low plasticity, little sand, with organics		5	6 8 4		16.4
			4 4		13.7
			6		
SAND - A-1-a Brown, moist, stiff-very stiff, fine-coarse, trace gravel		10	7 9		
SANDY LOAM - A-2-6 Brown, moist, fine					21.6
SILTY CLAY LOAM - A-4 Brown, moist, stiff, low plasticity, little sand trace gravel		15	3 6 9 6		13.4
SAND - A-1-a Brown, moist, medium dense, fine-coarse, with gravel			11 12 3		
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, little sand, trace gravel -stiff		20	8 10 3 6 7	3.1 3.0	13.3 13.9
-hard			7 8 25		11.9
		25	13 28 31		10.0
-sand lens			10 18 32		11.3
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel 2" sand seam (*)free water @ 30.0'		30	14 24 33		

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		35	11 14 28	4.8	11.5
		40	6 15 22	5.3	11.3
		45	13 24 36	9.5	10.4
		50	11 21 27	6.9	10.3
SAND - A-1-a Gray, moist, very dense, fine-coarse, with gravel		55	17 38 22-3		
-6" seam of CLAY		60	4 7 16		35.9
SANDY LOAM - A-2-6 Gray, moist, dense, fine-coarse, trace gravel		65	7 18 20		16.1

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 2 of 2
Project #: 313516
Date 04/04/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM, JM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-18 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.938 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 30.0' (ft.)
Upon Completion 28.2 (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel END OF BORING @ 71.0 FT.	602.938	70	21 35 25-5		10.6
		75			
		80			
		85			
		90			
		95			
		100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGGIMSE Walls Sheets\60603202_058-W004_31_B-18.dgn
11/2/2020 9:01:02 AM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -	
60603202_058-W004_31_B-18.dgn	CHECKED - KFO	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (B-18)
STRUCTURE NO. 058-W004
SHEET SB-31 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	575
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

SKS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 03/12/13

ROUTE _____ **DESCRIPTION** BRUSH COLLEGE ROAD **LOGGED BY** CM

SECTION _____ **LOCATION** DECATUR, IL

COUNTY MACON **STRUCTURE NO.** _____ **(Exist)** _____ **(Prop.)** _____

BORING NO. B-19 **DRILLING METHOD** HOLLOW STEM **HAMMER TYPE** 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.357 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 20.5 (ft.)
Upon Completion DRY (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
15" CONCRETE					
SILTY CLAY - A-6 Dark Brown, moist, very stiff, low plasticity, trace sand, trace gravel, with organics -stiff		5	6 10 11 4 5 8		30.6 28.8
SILTY CLAY LOAM - A-4 Gray-Mottled-Brown, moist, very stiff, low plasticity		10	6 9 13 5 8 8		22.4 17.1
SILTY CLAY LOAM - A-4 Brown, moist, stiff, low plasticity, little sand, trace gravel		15	6 7 8 4 16 23	4.9	19.1 16.5
SILTY CLAY LOAM - A-4 Reddish-Brown, moist, hard, low plasticity, little sand, trace gravel				3.1	14.7
SILTY CLAY LOAM - A-4 Gray, moist, low plasticity, little sand, trace gravel		20	9 18 19 5 8 14	3.9	17.2 13.0
SILT - A-4 Gray, moist, hard, low plasticity (*)free water @ 20.5					
CLAY - A-6 Gray, moist, very stiff, low plasticity, little sand, trace gravel		25	14 26		10.6
END OF BORING @ 26.0 FT.	647.357		24-3		
		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 2
Project #: 916780
Date 3/11/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY _____
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-25 DRILLING METHOD _____ HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 674.997 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 658.00 (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
16" CONCRETE					
SILTY CLAY A-6 Brown, very moist, very stiff, low plasticity, trace sand -shelby tube		5	7 7 12	2.0	28.6
SAND A-1-a Brown, very moist, loose, fine-medium, trace silt		10	3 3 5		15.5
CLAY LOAM A-6 Brown, moist, stiff, low plasticity, little sand, trace gravel -hard		15	6 8 9 16 35	1.6	14.6 13.8
(*)free water @ 17.0' CLAY LOAM A-6 Gray, moist, very stiff, low plasticity, with sand, trace gravel		20	10 26 34 4 7 12 5 8 12	4.7 1.9 2.4	15.2 12.7 10.5
-hard		25	7 8 16 18 24 25	1.1 1.4	14.0 11.8
-very stiff -2 attempts no recovery -begin mud rotary drilling -hard		30	10 12 14 34 60-3		
SAND A-1-a Gray, saturated, very dense, fine-coarse, trace gravel		35	34 60-5		11.5
		40	30 60-6	4.6	10.4
		45	7 18 28		10.5
		50	21 25 35-6		12.9
		55	34 40 20-3		
		60	29 33 27-5		
		65	32 40 20-3		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 2 of 2
Project #: 916780
Date 3/11/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY _____
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-25 DRILLING METHOD _____ HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 674.997 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 658.00 (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
-dense		70	34 60-6		
		75	27 20 23		
		80	33 25 24		
SAND A-3 Gray, saturated, very dense, fine		85	60-6		
		90	60-2		
		95	60-5		
		100			
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		105	60-5		14.3
		110	60-2		9.4
		115	60-3		14.8
		120	60-2		12.4
SHALE Gray, moist, very dense, weathered		125	60-5		
	544.997	130	60-1		
END OF BORING @ 130.0 FT.			60-1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGGIMSE Walls Sheets\60603202_058-W004_33_B-25.dgn
11/2/2020 9:01:57 AM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -	
60603202_058-W004_33_B-25.dgn	CHECKED - KFO	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (B-25)
STRUCTURE NO. 058-W004
SHEET SB-33 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	577
		CONTRACT NO. 6WGY(165)		
	ILLINOIS FED. AID PROJECT			

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/18/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-26 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 673.794 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter DRY (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
17" CONCRETE			3		
CLAY A-6 Dark Brown, moist, stiff, low plasticity, trace sand, trace gravel		5	6 6 2		15.7
CLAY A-6 Brown, very moist, firm, medium plasticity, trace sand			3 4 2		27.5
SAND A-1-a Brown, moist, medium dense, fine-medium, trace silt -Shelby Tube		10	5 6		16.7
			4 9 11		14.0
		15	4 9 16	1.24	
CLAY LOAM A-6 Brown, moist, very stiff, low plasticity, with sand trace gravel			5 8 10	2.89	14.9
		20	4 7 13	1.65	15.5
-hard			8 10 23	4.36	15.0
	647.794	25	16 23 24	5.36	13.3
END OF BORING @ 26.0 FT.		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/12/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-27 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 673.567 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter DRY (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
15" CONCRETE			11		
CLAY A-6 Dark Brown, very moist, very stiff, low plasticity, trace sand		5	12 12 2	4.0	18.6
SILTY CLAY A-4 Gray-Mottled-Brown, very moist, firm, low plasticity, trace sand			2 5 3	1.03	25.3
CLAY A-6 Gray-Mottled-Brown, very moist, stiff, low plasticity, trace sand		10	5 8 2	2.27	22.1
CLAY A-6 Mottled Brown, very moist, stiff, medium plasticity, little sand (*)free water @ 12.0'			3 6 4	0.87	28.5
CLAY LOAM A-6 Mottled Brown, very moist, stiff, low plasticity, some sand, trace gravel -Shelby Tube		15	6 8 4	1.90	17.3
			7 7	3.92	15.0
CLAY LOAM A-6 Gray, moist, very stiff, low plasticity, with sand trace gravel		20	5 9 10	2.27	12.9
			15 50 10-2	3.92	10.7
SAND A-1-a Brown, moist, very dense, fine-medium, trace gravel, trace clay	647.567	25	17 33 26		
END OF BORING @ 26.0 FT.		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NAIDocuments\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGGIMSE Walls Sheets\60603202_058-W004_34_B-26 and B-27.dgn
11/2/2020 9:02:32 AM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -
60603202_058-W004_34_B-26 and B-27.dgn	CHECKED - KFO	REVISED -
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (B-26 & B-27)
STRUCTURE NO. 058-W004
SHEET SB-34 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	578
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/11/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-28 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station
Offset
Ground Surface Elev. 673.092 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 653.59 (ft.)
Upon Completion 655.39 (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
18" CONCRETE			8		
CLAY LOAM A-6 Dark Brown, moist, hard, low plasticity, with sand trace gravel		5	15 20		11.2
SILTY CLAY A-4 Dark Brown, very moist, stiff, low plasticity, trace sand			4 5 6	1.24	29.5
SILTY CLAY A-4 Gray-Mottled-Brown, very moist, stiff, low plasticity, trace sand -firm		10	2 4 7	0.41	26.5
-very moist, soft-firm			2 3 4	0.41	18.6
SILTY CLAY LOAM A-4 Brown, very moist, very stiff, low plasticity, little sand		15	2 2 2	0.41	26.0
SILT A-4 Brown, very moist, hard, low plasticity, little sand		20	4 7 14	0.82	18.7
(*)free water @ 19.5'			17 31 23		19.8
CLAY LOAM A-6 Gray, moist, very stiff, low plasticity, with sand trace gravel			10 11 15	1.24	14.9
CLAY LOAM A-6 Brownish Gray, moist, hard, low plasticity, with sand trace gravel	647.092	25	8 12 20	3.50	14.3
END OF BORING @ 26.0 FT.		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/12/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-29 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station
Offset
Ground Surface Elev. 672.128 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 651.13 (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

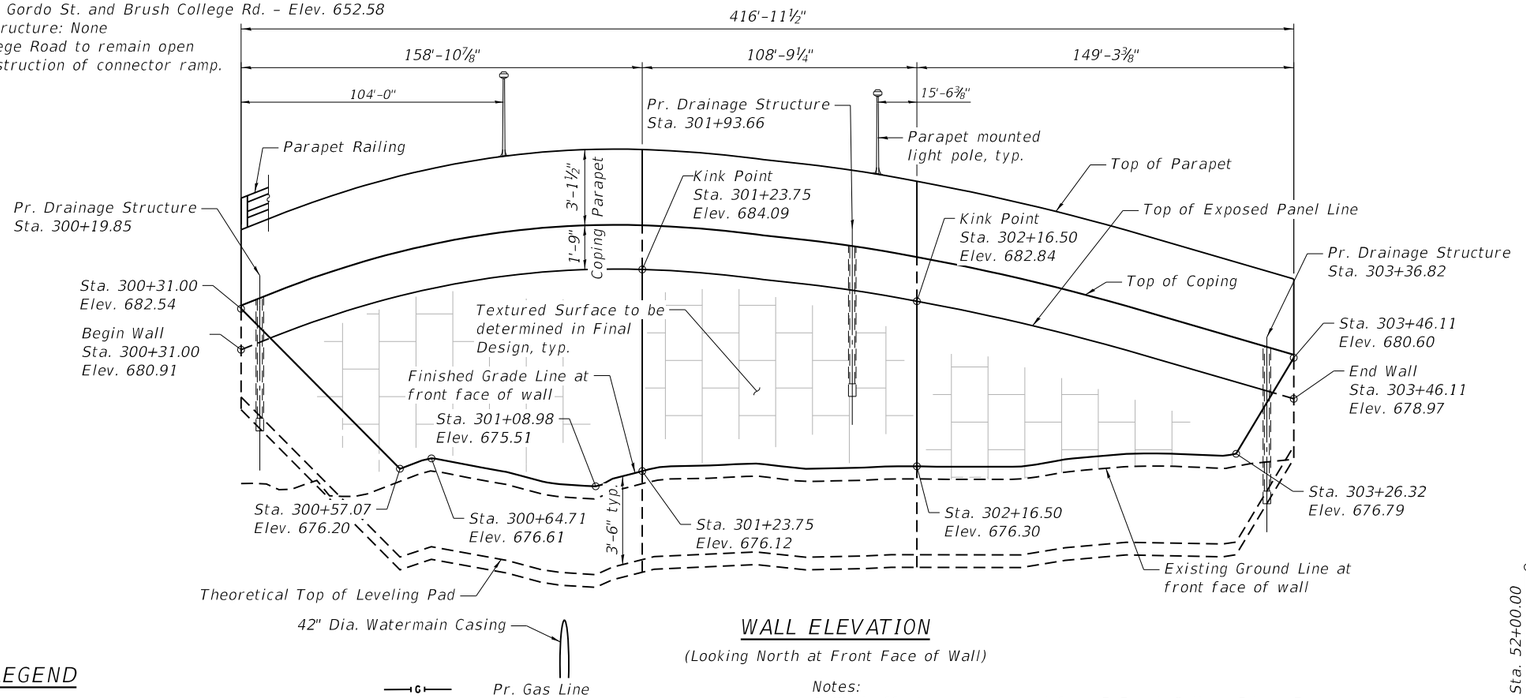
SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
13" CONCRETE			4		
CLAY A-6 Dark Brown, very moist, stiff, low plasticity, trace sand, trace gravel -firm		5	4 7 2	1.0	24.2
-stiff			2 4 3	0.62	25.8
SILTY CLAY A-6 Brown-Mottled-Gray, very moist, soft, medium plasticity, trace sand -Shelby Tube		10	3 6 1	0.6	21.5
-firm-stiff		15	2 1 2	0.4	31.6
SILTY CLAY A-6 Brown, very moist, very stiff, low plasticity, trace sand		20	3 5 4	1.07	24.7
SAND A-1-a Brown, wet, medium dense, fine-medium, trace gravel (*)free water @ 21.0' -dense			5 12 22	1.98	20.3
SAND A-3 Gray, saturated, dense, fine, trace silt	646.128	25	16 11 15 29 21 21 25 25	1.31	18.0
END OF BORING @ 26.0 FT.		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

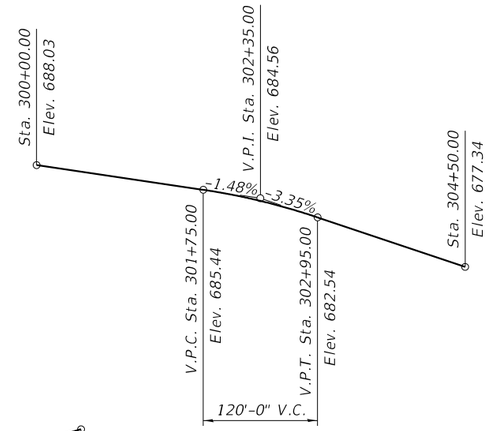
Benchmark: "M" in Mueller on fire hydrant at Southeast corner of Cerro Gordo St. and Brush College Rd. – Elev. 652.58
Existing Structure: None
Brush College Road to remain open during construction of connector ramp.



WALL ELEVATION

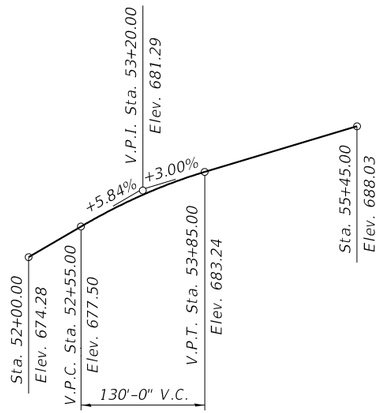
(Looking North at Front Face of Wall)

Notes:
1. Wall offsets are measured from ℄ Brush College Rd. or ℄ Jug Handle Connector Rd to the front face of precast panels.
2. Existing drainage and utilities in conflict with proposed construction will be abandoned or relocated.



PROFILE GRADE

(Along ℄ Jug Handle Connector Road)



PROFILE GRADE

(Along ℄ Brush College Road)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

LEGEND

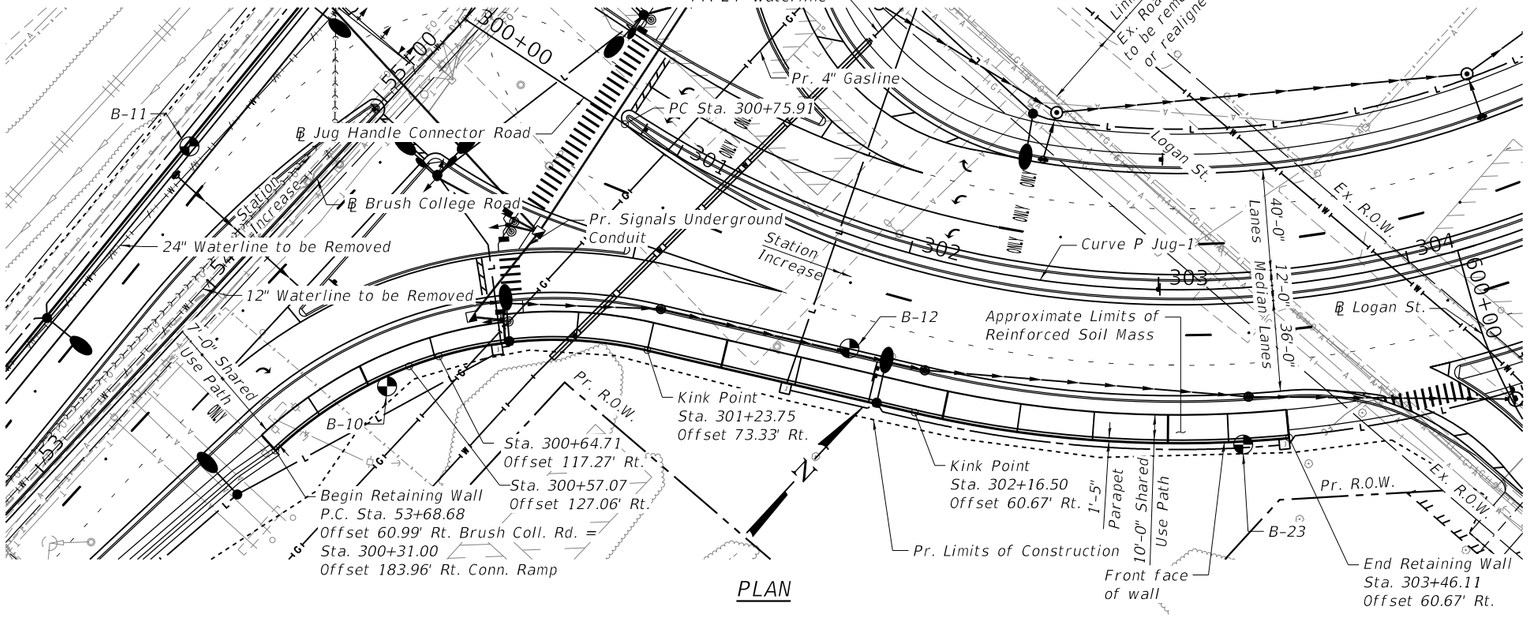
- Ex. Gas Line
- Ex. Water Line
- Ex. Underground Telephone Line
- Ex. Aerial Line
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- Ex. Easement
- Ex. RR Track
- Pr. Gas Line
- Pr. Water Line
- Pr. Temporary Easement
- PR. Buried Lighting Cable
- Pr. Storm Sewer
- Pr. Above Ground Lighting
- Approximate Limits of Reinforced Soil Mass

PROP. CURVE P JUG-1

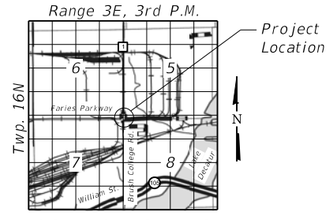
P.I. Sta. = 304+26.10
Δ = 82° 24' 11" (LT)
D = 14° 19' 26"
R = 400.00'
T = 350.19'
L = 575.28'
E = 131.63'
e = NC (30 MPH)
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 300+75.91
P.T. Sta. = 306+51.19

HIGHWAY CLASSIFICATION

F.A.U. Rte. 7448 – Brush College Road
Functional Class: Urban Minor Arterial
ADT:13,900 (2010); 18,950 (2035)
ADTT: 1,029 (2010); 1,402 (2035)
DHV: 1,900 (2035)
Design Speed: 40 m.p.h.
Posted Speed: 35 m.p.h.
Two-Way Traffic
Directional Distribution: 50:50



PLAN



LOCATION SKETCH

GENERAL PLAN & ELEVATION
JUG HANDLE CONNECTOR ROAD
F.A.U. 7448 – SECTION 09-00933-01-BR
MACON COUNTY
STA. 300+31.00 TO STA. 303+46.11
STRUCTURE NO. 058-W006

QUIGG ENGINEERING INC	USER NAME = lcriscione	DESIGNED - KWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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	PLOT SCALE = 60.000 ' / in.	DRAWN - LMC	REVISED -	
	PLOT DATE =	CHECKED - MDC	REVISED -	

SHEET SC-1 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	580
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

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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 the Ramp E baseline, except as noted. FF of the wall is to be considered edge of panel or form liner.
3. Slipforming of the parapet will not be allowed.
4. Protective coat shall be applied to top of Anchorage Slab and top and traffic face of barrier rail.

INDEX OF SHEETS

SC-1. General Plan & Elevation
SC-2. General Notes & Bill of Material
SC-3. Typical Section
SC-4. Anchorage Slab (1 of 4)
SC-5. Anchorage Slab (2 of 4)
SC-6. Anchorage Slab (3 of 4)
SC-7. Anchorage Slab (4 of 4)
SC-8. Anchorage Slab & Wall Details (1 of 2)
SC-9. Anchorage Slab & Wall Details (2 of 2)
SC-10. Parapet Railing
SC-11. Soil Boring Logs (B-10 & B-11)
SC-12. Soil Boring Logs (B-23)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	471
Concrete Superstructure	Cu. Yd.	264.4
Protective Coat	Sq. Yd.	621
Reinforcement Bars, Epoxy Coated	Pound	42,520
Parapet Railing	Foot	417
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,756

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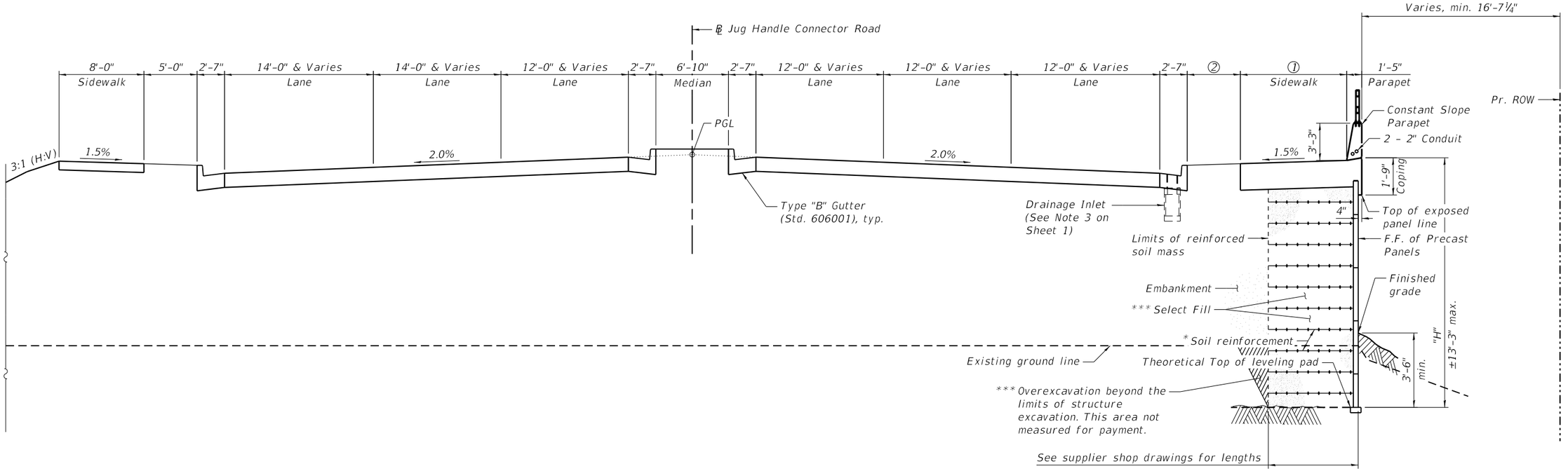

TYPICAL SECTION

(Looking East)

ROADWAY DIMENSION TABLE

Start Station	End Station	①	②
300+31.00	300+77.02	7'-0"	8'-0"
300+77.02	301+61.89	10'-0"	5'-0"

* The MSE Wall supplier's interval stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.67 kips/ft. of wall.

** Limits of Select Fill will be determined in final design.

*** Backfill overexcavation with same material as used for select fill.

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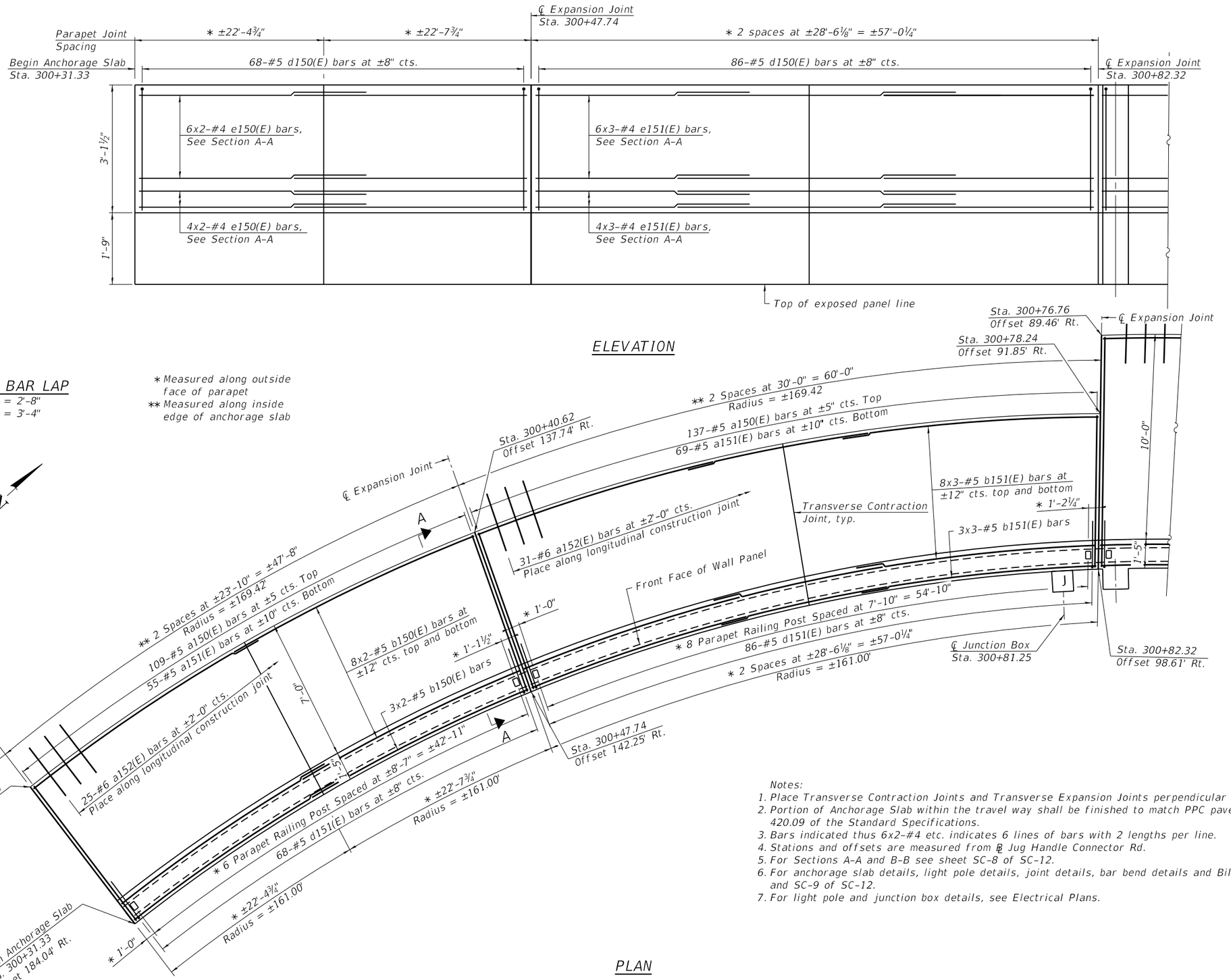

PLAN

MINIMUM BAR LAP

#4 Bar = 2'-8"
#5 Bar = 3'-4"

∗ Measured along outside face of parapet
∗∗ Measured along inside edge of anchorage slab

Notes:
1. Place Transverse Contraction Joints and Transverse Expansion Joints perpendicular to outside face of parapet.
2. Portion of Anchorage Slab within the travel way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
3. Bars indicated thus 6x2-#4 etc. indicates 6 lines of bars with 2 lengths per line.
4. Stations and offsets are measured from ℄ Jug Handle Connector Rd.
5. For Sections A-A and B-B see sheet SC-8 of SC-12.
6. For anchorage slab details, light pole details, joint details, bar bend details and Bill of Material, see sheets SC-8 and SC-9 of SC-12.
7. For light pole and junction box details, see Electrical Plans.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB (1 OF 4)
STRUCTURE NO. 058-W006
SHEET SC-4 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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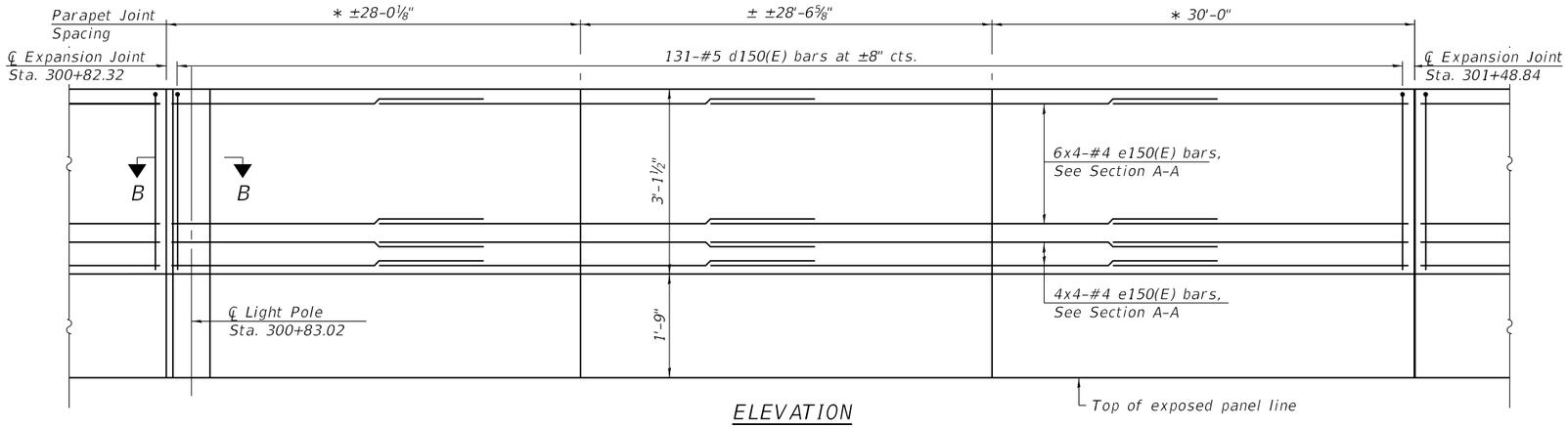
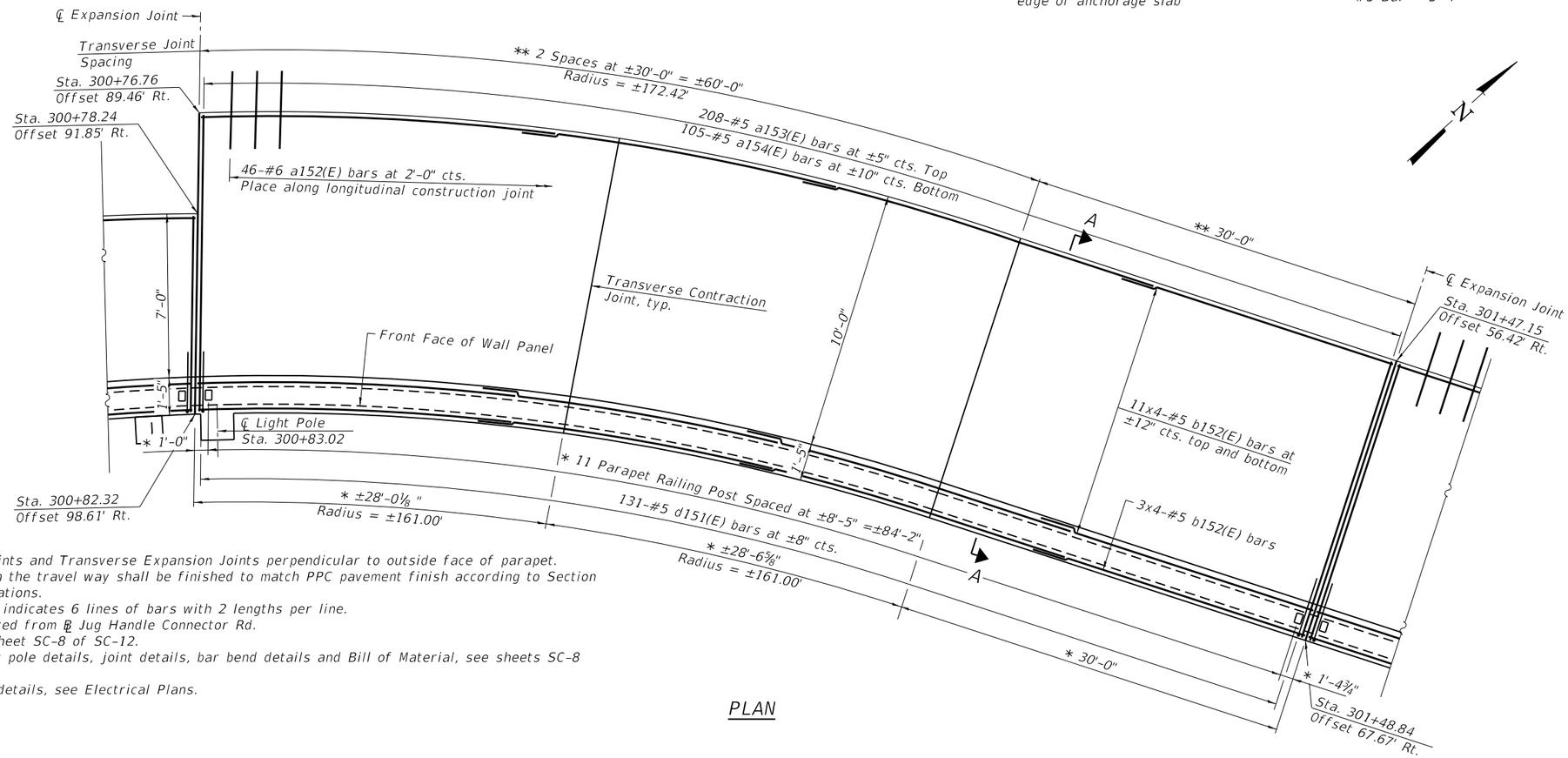


ELEVATION

* Measured along outside face of parapet
** Measured along inside edge of anchorage slab

MINIMUM BAR LAP
#4 Bar = 2'-8"
#5 Bar = 3'-4"



PLAN

Notes:

1. *Place Transverse Contraction Joints and Transverse Expansion Joints perpendicular to outside face of parapet.*
2. *Portion of Anchorage Slab within the travel way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.*
3. *Bars indicated thus 6x2-#4 etc. indicates 6 lines of bars with 2 lengths per line.*
4. *Stations and offsets are measured from ℄ Jug Handle Connector Rd.*
5. *For Sections A-A and B-B see sheet SC-8 of SC-12.*
6. *For anchorage slab details, light pole details, joint details, bar bend details and Bill of Material, see sheets SC-8 and SC-9 of SC-12.*
7. *For light pole and junction box details, see Electrical Plans.*

QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB (2 OF 4)
STRUCTURE NO. 058-W006
SHEET SC-5 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	584
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	ILLINOIS	FED. AID PROJECT		

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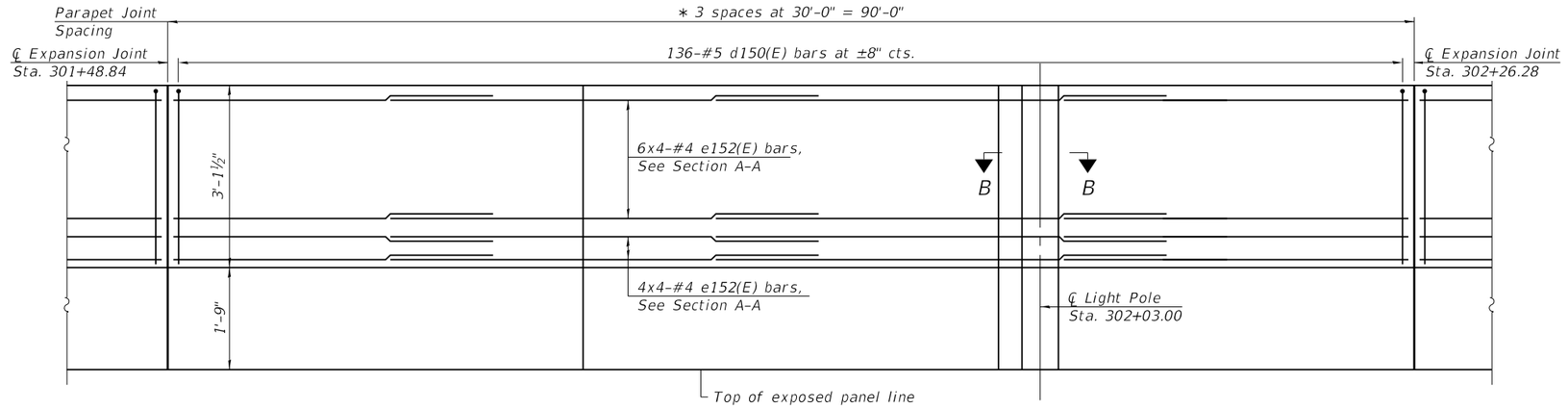
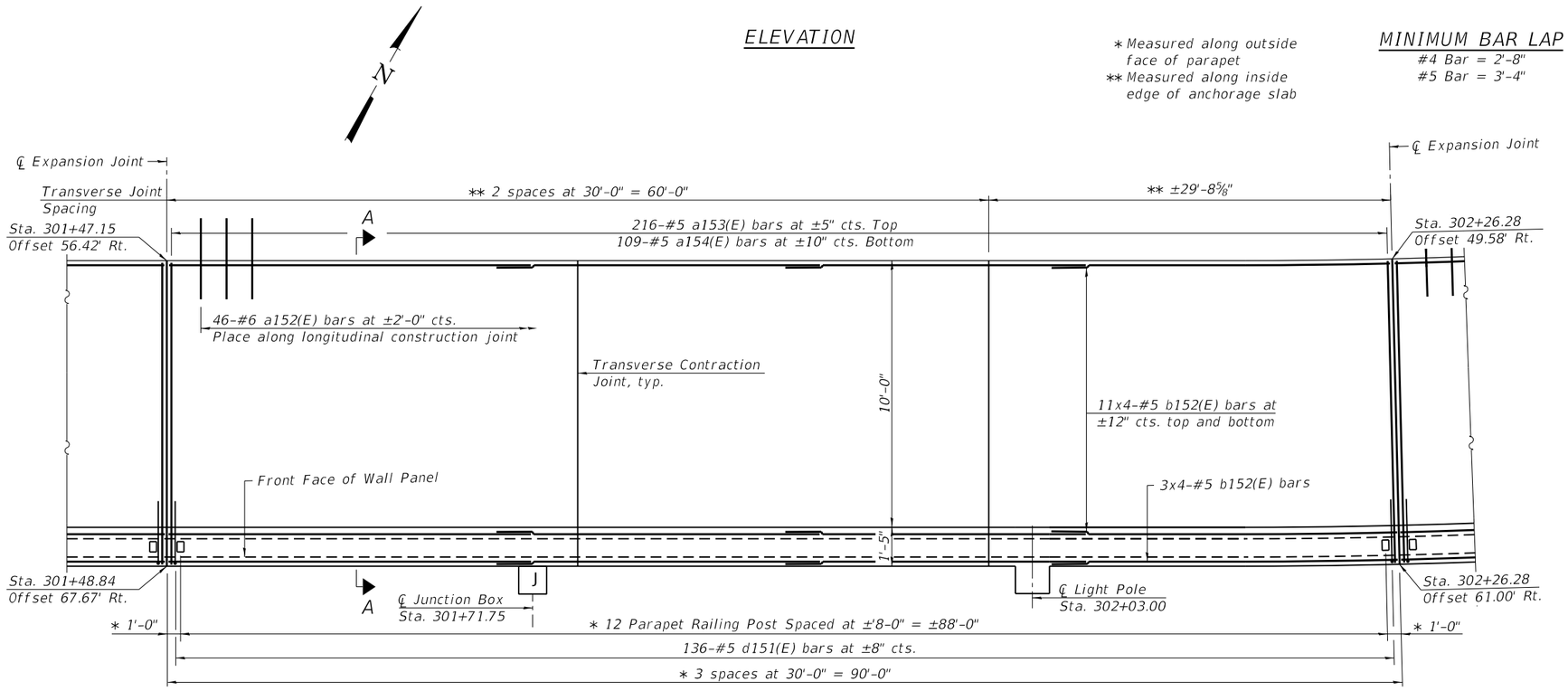


ELEVATION

∗ Measured along outside face of parapet
∗∗ Measured along inside edge of anchorage slab

MINIMUM BAR LAP
#4 Bar = 2'-8"
#5 Bar = 3'-4"



PLAN

Notes:
1. Place Transverse Contraction Joints and Transverse Expansion Joints perpendicular to outside face of parapet.
2. Portion of Anchorage Slab within the travel way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
3. Bars indicated thus 6x2-#4 etc. indicates 6 lines of bars with 2 lengths per line.
4. Stations and offsets are measured from ℄ Jug Handle Connector Rd.
5. For Sections A-A and B-B see sheet SC-8 of SC-12.
6. For anchorage slab details, light pole details, joint details, bar bend details and Bill of Material, see sheets SC-8 and SC-9 of SC-12.
7. For light pole and junction box details, see Electrical Plans.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB (3 OF 4)
STRUCTURE NO. 058-W006
SHEET SC-6 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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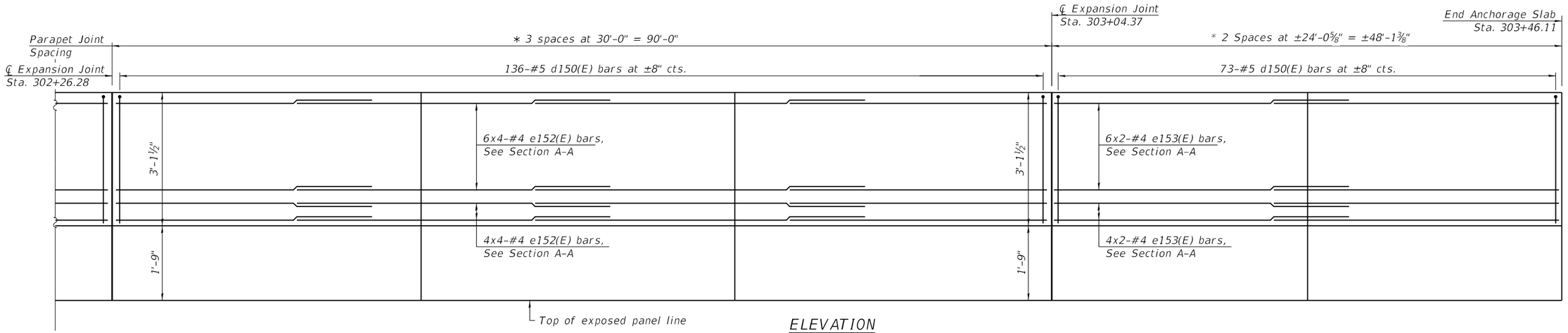
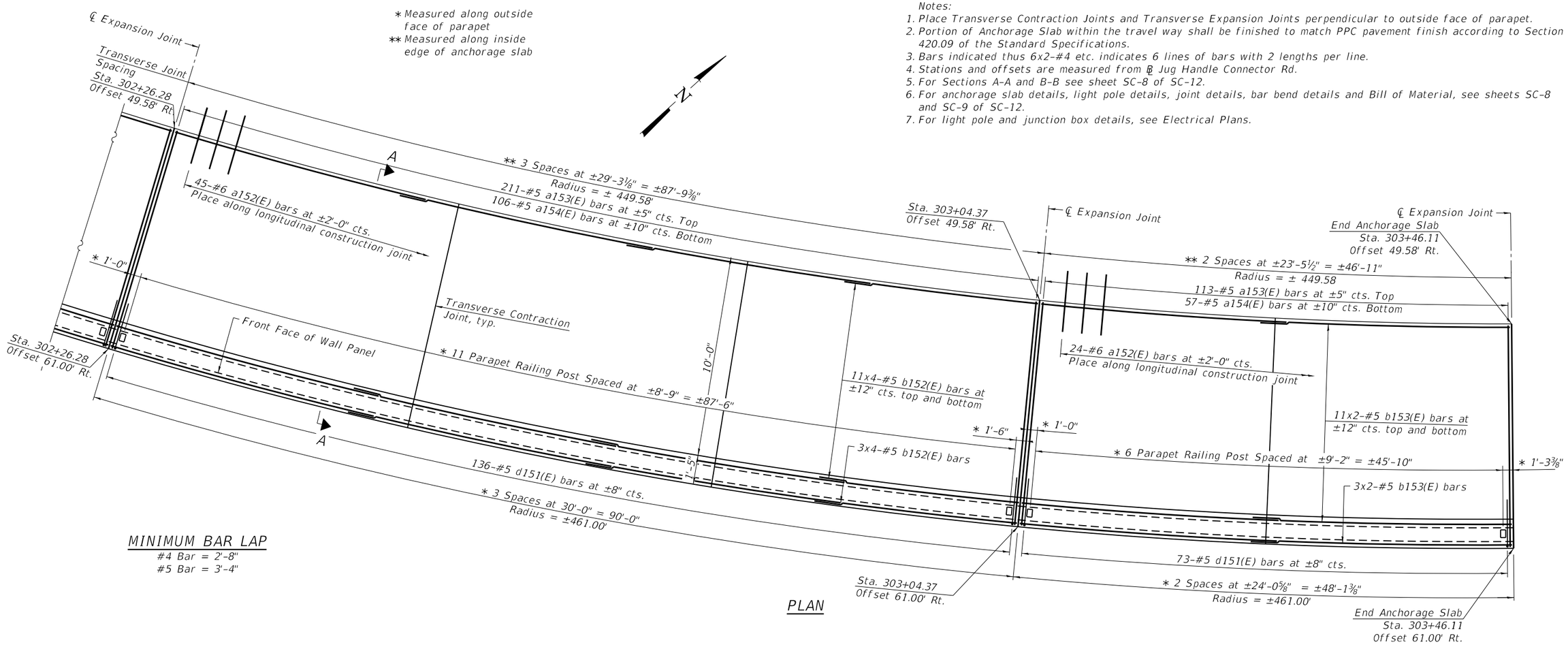
		CONTRACT NO. 6WGY(165)		
		ILLINOIS	FED. AID PROJECT	



ELEVATION

∗ Measured along outside face of parapet
∗∗ Measured along inside edge of anchorage slab



PLAN

MINIMUM BAR LAP

#4 Bar = 2'-8"
#5 Bar = 3'-4"

Notes:
1. Place Transverse Contraction Joints and Transverse Expansion Joints perpendicular to outside face of parapet.
2. Portion of Anchorage Slab within the travel way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
3. Bars indicated thus 6x2-#4 etc. indicates 6 lines of bars with 2 lengths per line.
4. Stations and offsets are measured from ℄ Jug Handle Connector Rd.
5. For Sections A-A and B-B see sheet SC-8 of SC-12.
6. For anchorage slab details, light pole details, joint details, bar bend details and Bill of Material, see sheets SC-8 and SC-9 of SC-12.
7. For light pole and junction box details, see Electrical Plans.

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QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB (4 OF 4)
STRUCTURE NO. 058-W006
SHEET SC-7 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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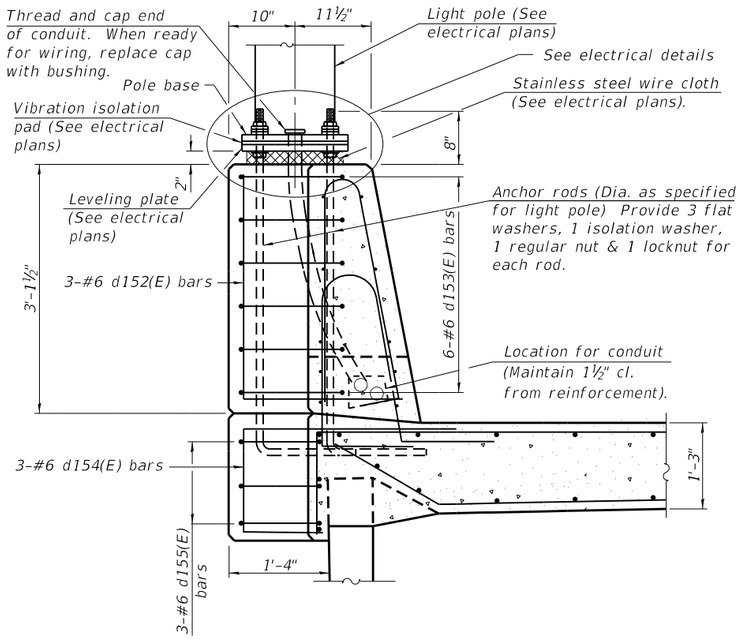
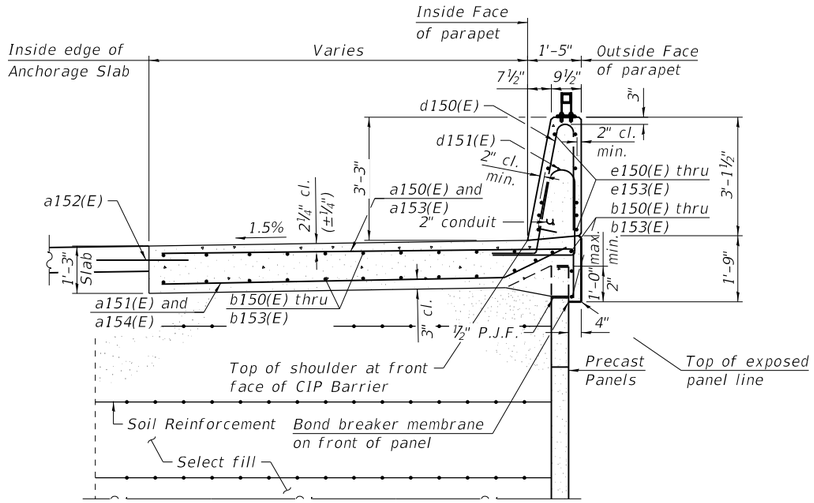
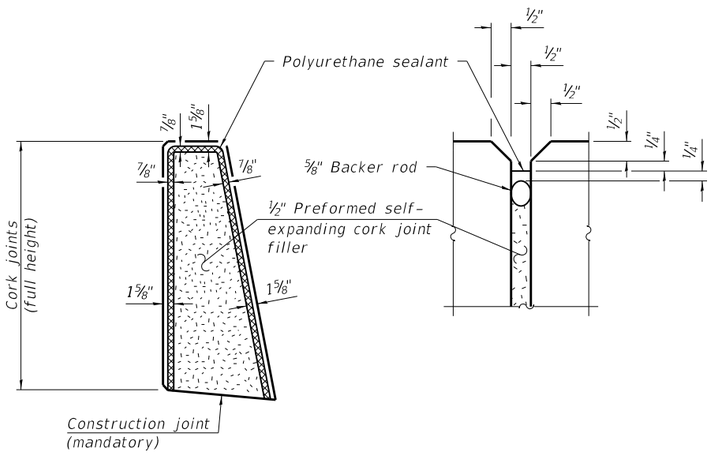
		CONTRACT NO. 6WGY(165)		
		ILLINOIS	FED. AID PROJECT	



LIGHT POLE PEDESTAL SECTION



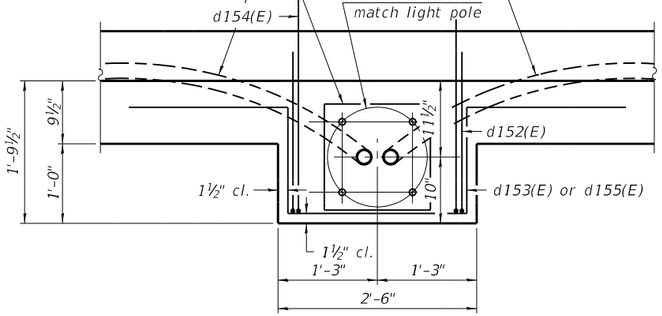
SECTION A-A



PARAPET EXPANSION JOINT DETAILS

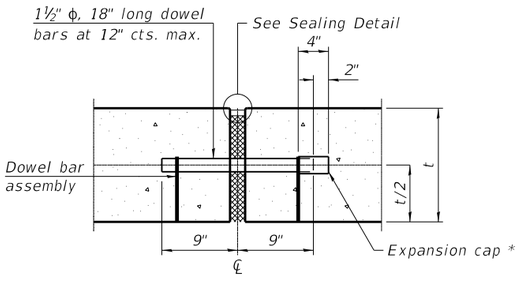
Note:
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.

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



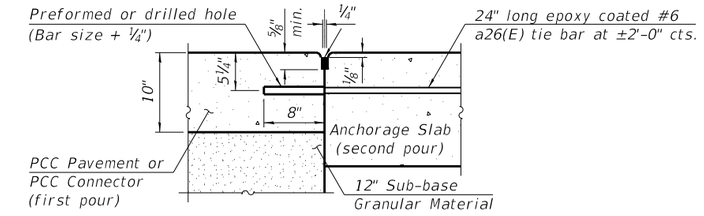
SECTION B-B

* *Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.*

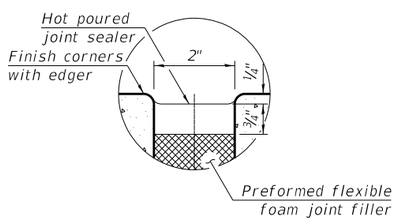


ANCHORAGE SLAB EXPANSION JOINT

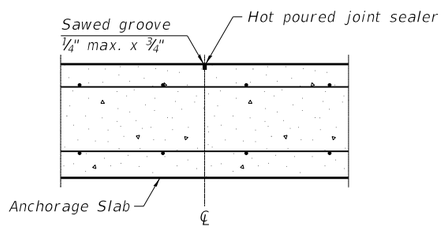
Expansion joint and dowel bars included in the cost of Concrete Superstructure



LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR



SEALING DETAIL



TRANSVERSE CONTRACTION JOINT

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	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB & WALL DETAILS (1 OF 2)
STRUCTURE NO. 058-W006
SHEET SC-8 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	587
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

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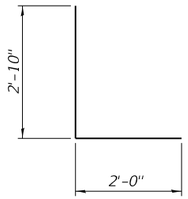
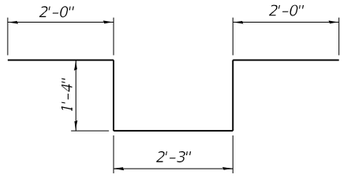


BAR d152(E)



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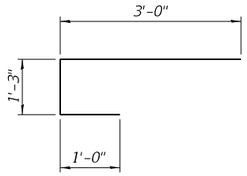

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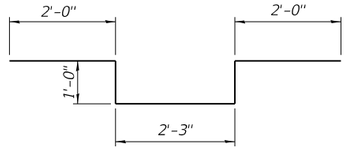

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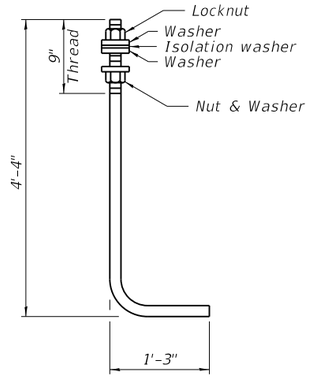
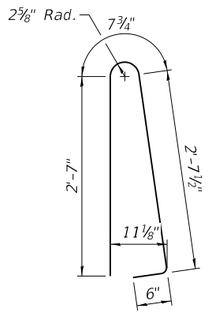
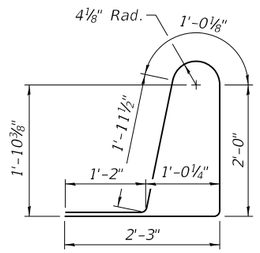


ANCHOR ROD

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



BAR d150(E)



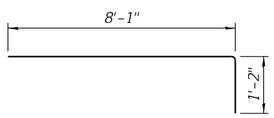
BAR d151(E)

Note:
Cost of concrete and reinforcing steel required for coping shall be included in the cost of Concrete Superstructure and Reinforcement Bars, Epoxy Coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a150(E)	246	#5	9'-3"	
a151(E)	124	#5	8'-1"	
a152(E)	217	#6	2'-0"	
a153(E)	748	#5	12'-3"	
a154(E)	377	#5	11'-1"	
b150(E)	38	#5	25'-4"	
b151(E)	57	#5	22'-2"	
b152(E)	300	#5	24'-11"	
b153(E)	50	#5	25'-7"	
d150(E)	630	#5	6'-5"	
d151(E)	630	#5	8'-5"	
d152(E)	6	#6	4'-10"	
d153(E)	12	#6	8'-11"	
d154(E)	6	#6	5'-3"	
d155(E)	6	#6	8'-3"	
e150(E)	60	#4	23'-9"	
e151(E)	30	#4	20'-8"	
e152(E)	80	#4	24'-5"	
e153(E)	20	#4	25'-3"	

Item	Unit	Total
Reinforcement Bars, Epoxy Coated	Pound	42,520
Concrete Superstructure	Cu. Yd.	264.4
Protective Coat	Sq. Yd.	621



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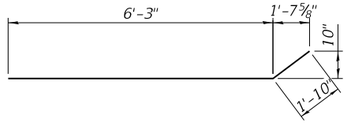

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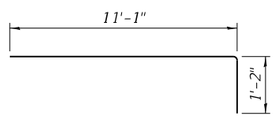

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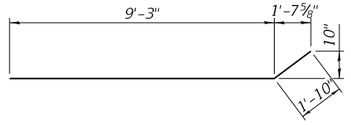

BAR a154(E)

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QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB & WALL DETAILS (2 OF 2)
STRUCTURE NO. 058-W006

SHEET SC-9 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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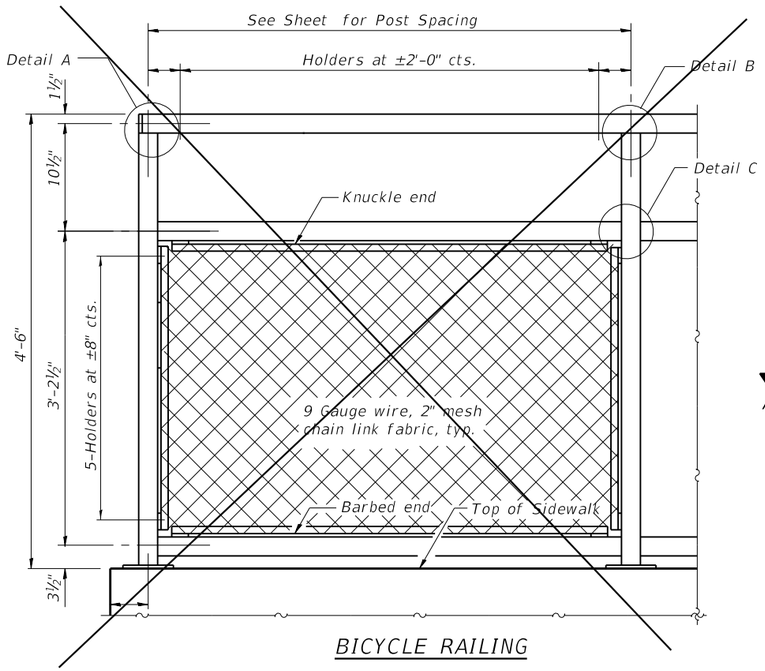
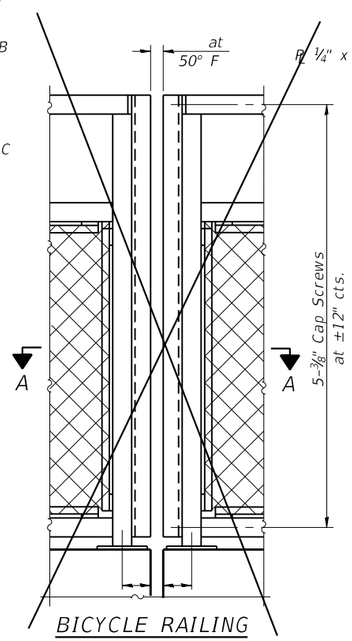
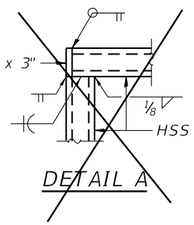
		CONTRACT NO. 6WGY(165)		
	ILLINOIS FED. AID PROJECT			



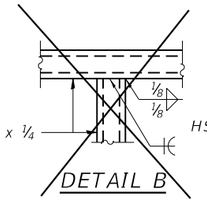
BICYCLE RAILING



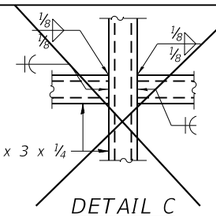
BICYCLE RAILING



DETAIL A

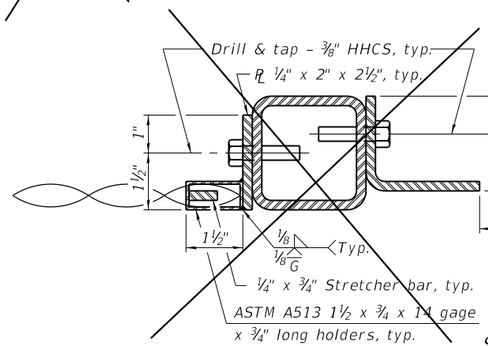


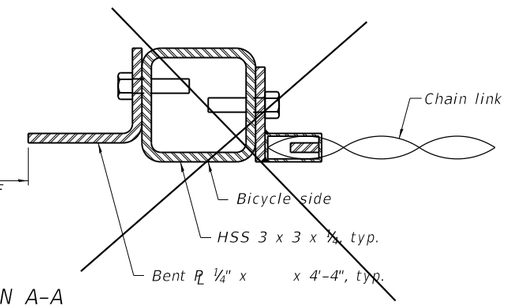
DETAIL B



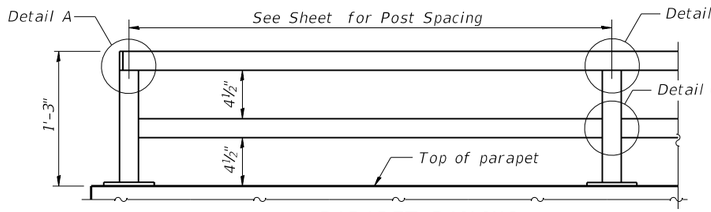
DETAIL C

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

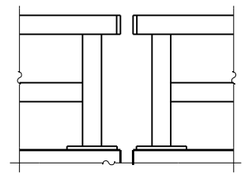




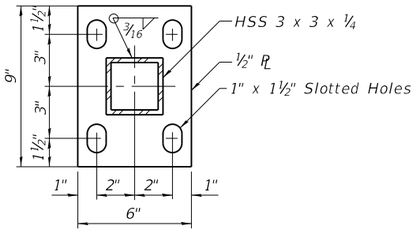
SECTION A-A



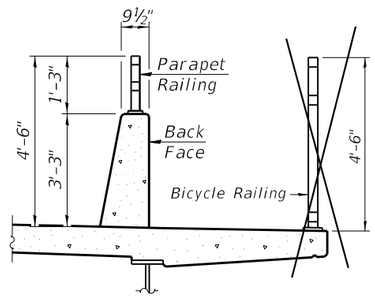
PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)



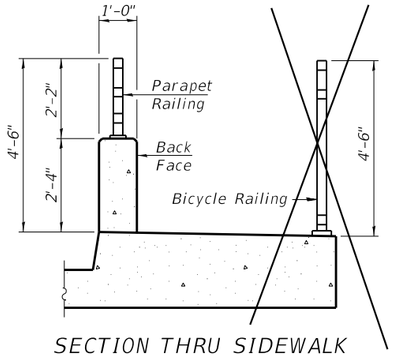
PARAPET RAILING
ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)



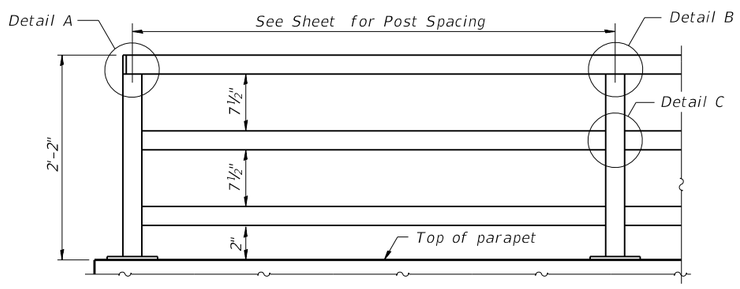
BASE PL



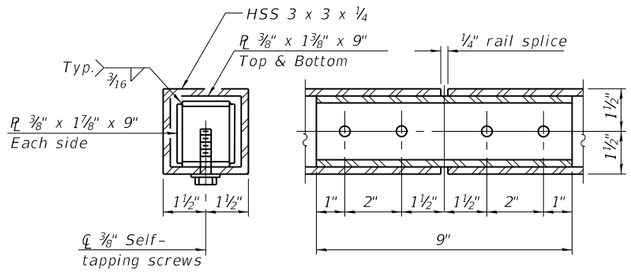
SECTION THRU DECK



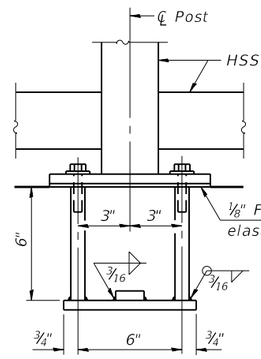
SECTION THRU SIDEWALK

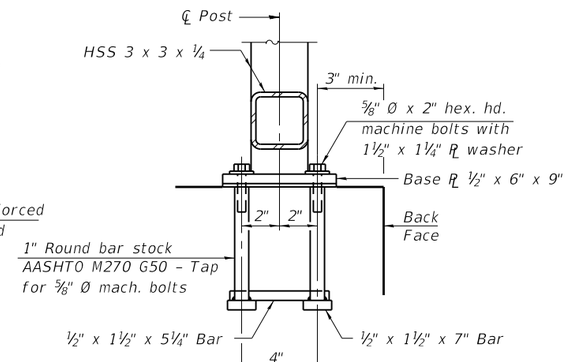


PARAPET RAILING
ELEVATION
(Inside Face of Three Element Rail)



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
~~Bicycle Railing~~	~~Foot~~	
Parapet Railing	Foot	417

Notes:
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
CVN testing may be omitted for the Bicycle Railing.

R-29

1-14-2019 (10'-0" Maximum Post Spacing)

QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET RAILING
STRUCTURE NO. 058-W006
SHEET SC-10 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	589
		CONTRACT NO. 6WGY(165)		
	ILLINOIS FED. AID PROJECT			

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10/30/2020 8:40:17 PM

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 03/13/13

ROUTE _____ **DESCRIPTION** BRUSH COLLEGE ROAD **LOGGED BY** CH, CM

SECTION _____ **LOCATION** DECATUR, IL

COUNTY MACON **STRUCTURE NO.** _____ **(Exist)** _____ **(Prop.)** _____

BORING NO. B-10 **DRILLING METHOD** HOLLOW STEM **HAMMER TYPE** 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.992 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 18.5' (ft.)
Upon Completion DRY (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILTY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, low plasticity			6 6 8		31.6
CLAY LOAM - A-4 Brown, moist, low plasticity		5		1.5	14.7
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, trace gravel			6 9 10	1.5	15.2
		10	8 10 12	1.8	13.6
			6 11 13	1.3	14.1
		15	6 12 13	2.3	12.5
-hard 13" seam SAND- Brown, fine-coarse (*)free water @ 18.5' -hard			23 38 22-4		
		20	30 27 23	6.6	12.2
SILT - A-4 Gray, moist, hard, low plasticity, trace sand, trace gravel			14 26 21	2.1	14.3
		25	8 11 14	2.5	
CLAY - A-6 Gray, moist, very stiff, low plasticity, trace sand, trace gravel END OF BORING @ 26.0 FT.	648.992				
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 04/05/13

ROUTE _____ **DESCRIPTION** BRUSH COLLEGE ROAD **LOGGED BY** CM, JM

SECTION _____ **LOCATION** DECATUR, IL

COUNTY MACON **STRUCTURE NO.** _____ **(Exist)** _____ **(Prop.)** _____

BORING NO. B-11 **DRILLING METHOD** HOLLOW STEM **HAMMER TYPE** 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.629 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter - (ft.)
Upon Completion DRY (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
12" CONCRETE			3		
SLITY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, medium plasticity			3 6	1.9	30.7
		5	2 4 5		23.4
SLTY CLAY LOAM - A-4 Brown, moist, low plasticity, little sand, trace gravel -stiff				1.3	18.0
		10	2 5 7	1.2	15.7
-very stiff			6 10 11	2.6	14.6
		15	8 11 15	3.2	13.5
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel			21 33 27	12.0	9.8
		20	20 15 21		9.7
			15 18 23		10.5
		25	15 19 22	7.1	10.5
END OF BORING @ 26.0 FT.	648.629				
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

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QUIGG ENGINEERING INC

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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS (B-10 & B-11)
STRUCTURE NO. 058-W006
SHEET SC-11 OF SC-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	590
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 52526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 03/13/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CH, CM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-12 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 675.845 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 17.0' (ft.)
Upon Completion 10.2' (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILTY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, low plasticity			6 7 8	1.5	26.2
SILTY CLAY - A-6 Brown, moist, hard, low plasticity, trace gravel		5	13 14 17		12.5
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, little sand			8 10 14		15.1
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, little sand		10	8	2.3	12.5
-hard		15	13 16 10 15 29	2.0 3.6	14.3 14.1
SAND - A-1-a Brown, moist, very dense, fine-coarse (*)free water @ 17.0'		20	60 21 36		11.4
SILTY CLAY LOAM - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel			24-5 60		
SAND - A-1-a Brown, moist, very dense, fine-coarse, trace gravel		25	60		10.8
CLAY - A-6 Gray, moist, hard, low plasticity END OF BORING @ 26.0 FT.	649.845	30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/12/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-23 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 675.958 (ft.)

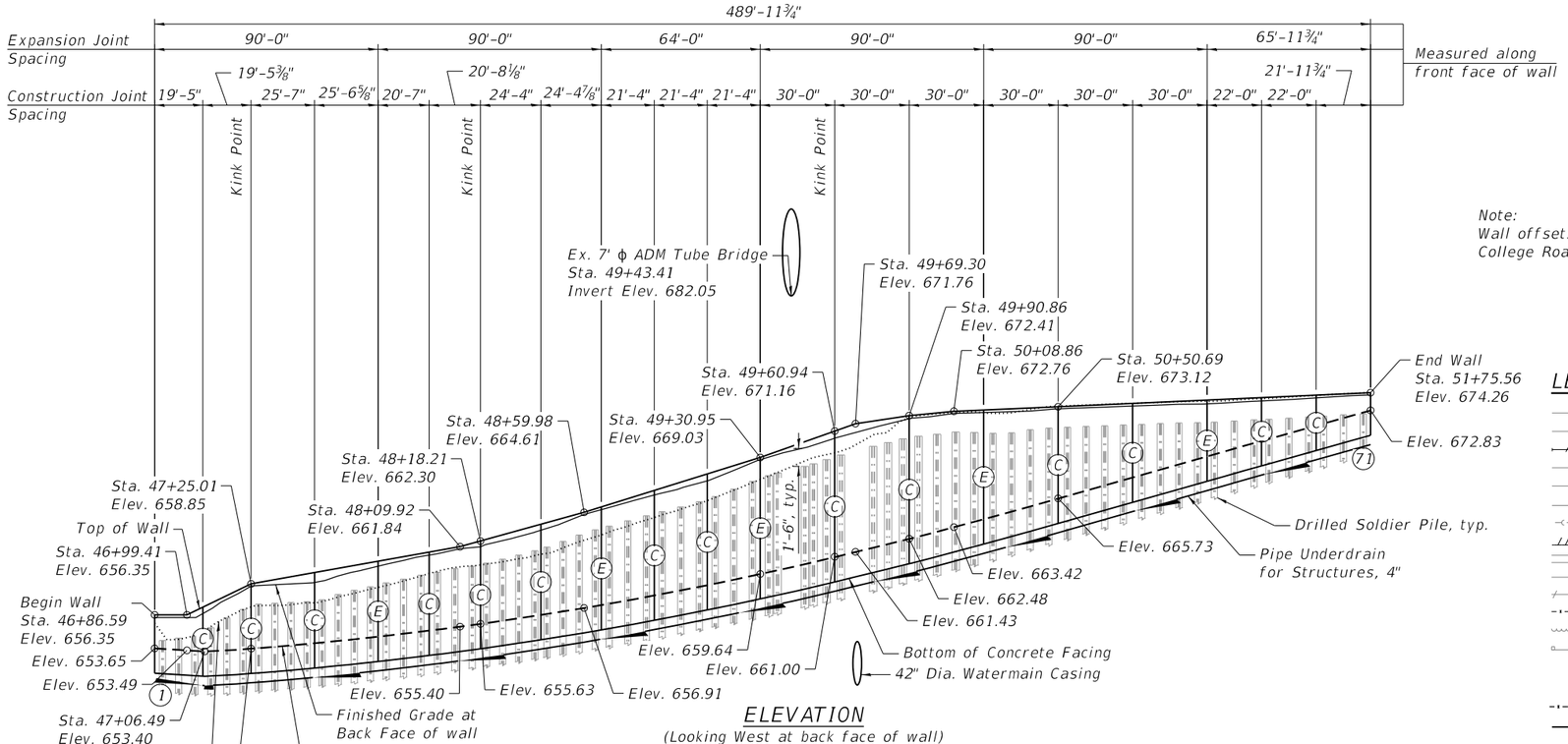
Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 668.46 (ft.)
Upon Completion - (ft.)
After _____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILTY CLAY A-4 Brown, very moist, stiff, low plasticity, trace sand			4 6 6 2	1.1	15.9
SILTY CLAY A-6 Brown, very moist, firm, low plasticity, trace gravel		5	2 3 1	0.6	22.5
SILTY CLAY A-6 Mottled Brown, very moist, soft-firm, low plasticity, trace sand			2 2 2	0.6	26.8
(*)free water @ 7.5'		10	2 3 3	0.4	18.3
CLAY LOAM A-6 Brown, moist, stiff, low plasticity, with sand trace gravel			3 7 4	0.99	12.9
SILT A-4 Brown, very moist, stiff-very stiff, low plasticity, trace sand		15	6 10	0.95	23.7
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel		20	60-6 46		13.7
SILT A-4 Gray, very moist, hard, low plasticity, trace sand			60-3 36	0.44	21.5
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel	649.958	25	40 20-2 26 23 31	8.66 6.1	10.3 10.7
END OF BORING @ 26.0 FT.		30			

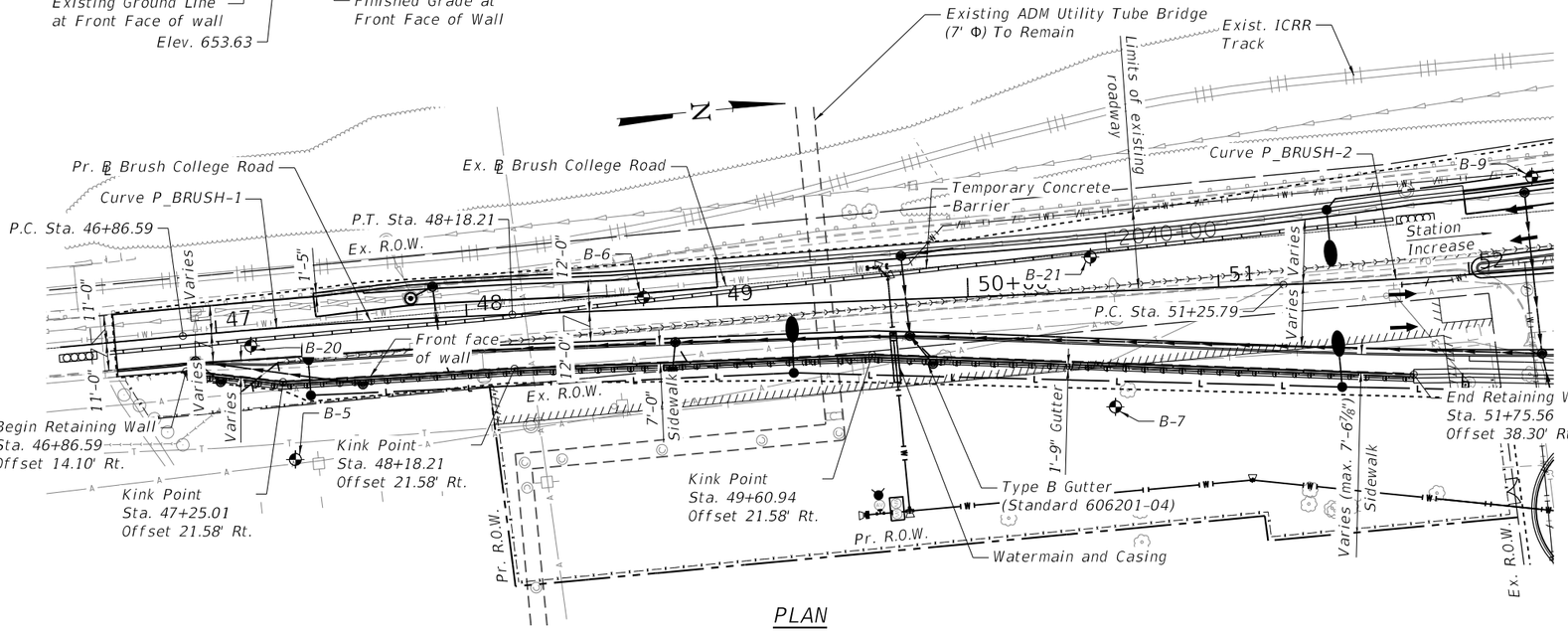
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

Benchmark: "M" in Mueller on fire hydrant at Southeast corner of
Cerro Gordo St. and Brush College Rd. – Elev. 652.58
Existing Structure: None
New soldier pile retaining wall to be constructed to support existing embankment.
NB lane of Brush College Road to be closed during construction of retaining wall.

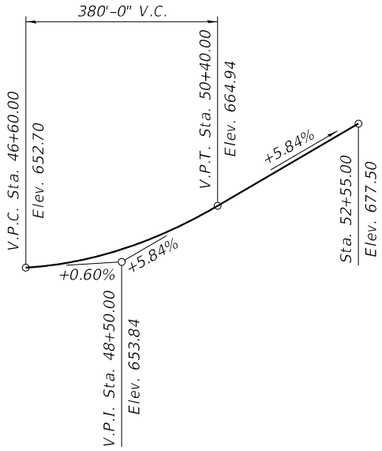


ELEVATION
(Looking West at back face of wall)



PLAN

Note:
Wall offsets are measured from ℄ Brush College Road to the front face of wall.



PROFILE GRADE
(Along ℄ Brush College Road)

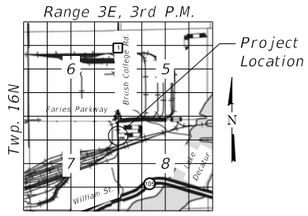
LEGEND

- Ex. Gas Line
- Ex. Water Line
- Ab. Water Line
- Ex. Underground Telephone Line
- Ex. Aerial Line
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- Ex. Easement
- Ex. RR Track
- Ex. Underground Transmission Line
- Abandoned Underground Fiber Optic Line
- Ex. Fence
- Ex. Vegetation Line
- Ex. Guardrail
- Ex. Manhole
- Ex. Inlet
- Pr. Fence
- Pr. Buried Lighting Cable
- Pr. Water Line
- Pr. Storm Sewer
- Pr. Above Ground Lighting
- Pr. Sign
- Soil Boring Location
- Pr. Inlet
- Pr. Catch Basin
- Construction, Expansion Joints

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi
(M270 Grade 50, Soldier Pile)



LOCATION SKETCH

CURVE P BRUSH-1

P.I. Sta. = 47+52.41
Δ = 3° 00' 59" (RT)
D = 2° 17' 31"
R = 2,500.00'
T = 65.82'
L = 131.62'
E = 0.87'
e = NC (40 MPH)
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 46+86.59
P.T. Sta. = 48+18.21

CURVE P BRUSH-2

P.I. Sta. = 51+91.51
Δ = 3° 00' 41" (LT)
D = 2° 17' 31"
R = 2,500.00'
T = 65.72'
L = 131.40'
E = 0.86'
e = NC (40 MPH)
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 51+25.79
P.T. Sta. = 52+57.19

GENERAL PLAN & ELEVATION
BRUSH COLLEGE ROAD
F.A.U. 7448 – SECTION 09-00933-01-BR
MACON COUNTY
STA. 46+86.59 TO STA. 51+75.56
STRUCTURE NO. 058-W007

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NAIDocuments\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGGIMSE Walls Sheets\60603202_058-W007_01_GPE.dgn

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
60603202_058-W007_01_GPE.dgn	CHECKED - RPW	REVISED -			
PLOT SCALE = 0.1667 ' / in.	DRAWN - LMC	REVISED -			
PLOT DATE =	CHECKED - MDC	REVISED -		SHEET SD-1 OF SD-20 SHEETS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	592
		CONTRACT NO. 6WGY(165)		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Wall stations and offsets are measured from ℄ Brush College Road to the front face of the cast in place concrete facing.
3. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
4. All construction joints shall be bonded.
5. Concrete Sealer shall be applied to all exposed areas of the concrete facing.
6. All exposed concrete edges shall have a ¾"x45 degrees chamfer, U.N.O. The chamfer on vertical edges shall continue a minimum of 1'-0" below finished grade.

INDEX OF SHEETS

SD-1. General Plan & Elevation
SD-2. General Data & Bill of Material
SD-3. Plan & Elevation - 1
SD-4. Plan & Elevation - 2
SD-5. Plan & Elevation - 3
SD-6. Plan & Elevation - 4
SD-7. Plan & Elevation - 5
SD-8. Plan & Elevation - 6
SD-9. Concrete Facing - 1
SD-10. Concrete Facing - 2
SD-11. Concrete Facing - 3
SD-12. Concrete Facing - 4
SD-13. Typical Section
SD-14. Wall Details
SD-15. Soil Boring Logs (B-5)
SD-16. Soil Boring Logs (B-6)
SD-17. Soil Boring Logs (B-7)
SD-18. Soil Boring Logs (B-20)
SD-19. Soil Boring Logs (B-21)
SD-20. Soil Boring Logs (B-22)

PILE SUMMARY TABLE

Pile No.	Pile Size	Station	Offset (ft.)	Top of Pile Elev.	Btm of Pile Elev.	Pile Length (ft.)	Shaft Dia. (in.)	Shear Studs	Pile No.	Pile Size	Station	Offset (ft.)	Top of Pile Elev.	Btm of Pile Elev.	Pile Length (ft.)	Shaft Dia. (in.)	Shear Studs
1	W21x44	46+89.38	16.57	654.68	638.81	15.87	30.00	4	37	W24x84	49+27.78	23.59	667.16	631.77	35.39	30.00	10
2	W21x44	46+95.80	17.85	654.68	638.59	16.09	30.00	4	38	W24x117	49+34.43	23.60	667.61	625.55	42.06	36.00	10
3	W21x44	47+02.22	19.12	654.99	637.68	17.31	30.00	4	39	W24x117	49+37.93	23.60	667.86	630.60	37.27	36.00	11
4	W21x44	47+08.58	20.36	655.61	636.36	19.25	30.00	5	40	W24x117	49+48.93	23.60	668.64	630.51	38.14	36.00	11
5	W21x44	47+15.01	21.59	656.24	635.33	20.92	30.00	5	41	W24x117	49+52.43	23.60	668.89	624.65	44.24	36.00	11
6	W21x44	47+21.46	22.81	656.87	634.26	22.61	30.00	6	42	W24x117	49+58.18	23.60	669.30	627.54	41.77	36.00	11
7	W21x44	47+28.04	23.50	657.29	633.57	23.72	30.00	6	43	W24x131	49+63.28	23.79	669.67	632.23	37.45	36.00	11
8	W21x44	47+34.60	23.60	657.52	633.68	23.85	30.00	6	44	W24x131	49+76.25	24.76	670.30	632.25	38.05	36.00	11
9	W21x44	47+41.16	23.69	657.75	633.63	24.12	30.00	6	45	W24x131	49+82.23	25.21	670.48	629.41	41.07	36.00	11
10	W21x44	47+47.72	23.76	657.98	633.37	24.61	30.00	7	46	W24x131	49+88.21	25.66	670.66	628.73	41.93	36.00	11
11	W21x44	47+53.85	23.81	658.20	633.32	24.88	30.00	7	47	W24x117	49+94.45	26.12	670.81	633.05	37.76	36.00	11
12	W21x44	47+60.42	23.85	658.43	633.46	24.98	30.00	7	48	W24x117	50+01.93	26.69	670.96	633.97	37.00	36.00	11
13	W21x44	47+66.98	23.87	658.66	633.41	25.25	30.00	7	49	W24x117	50+09.41	27.25	671.10	634.88	36.23	36.00	10
14	W21x44	47+73.54	23.87	658.89	633.12	25.77	30.00	7	50	W24x117	50+16.89	27.81	671.16	636.01	35.15	36.00	10
15	W21x44	47+79.91	23.86	659.11	633.53	25.58	30.00	7	51	W24x84	50+24.37	28.37	671.22	638.43	32.79	30.00	10
16	W21x44	47+86.98	23.83	659.36	633.65	25.72	30.00	7	52	W24x84	50+31.85	28.93	671.29	639.54	31.75	30.00	9
17	W21x44	47+94.05	23.77	659.61	633.43	26.19	30.00	7	53	W24x84	50+39.32	29.49	671.35	640.64	30.71	30.00	9
18	W21x68	48+00.74	23.73	659.85	633.41	26.45	30.00	7	54	W24x84	50+46.80	30.06	671.42	641.75	29.67	30.00	9
19	W21x68	48+07.81	23.63	660.09	633.47	26.62	30.00	7	55	W24x84	50+54.28	30.62	671.48	642.88	28.60	30.00	8
20	W21x68	48+14.87	23.52	660.44	633.24	27.20	30.00	8	56	W24x84	50+61.76	31.18	671.55	643.99	27.57	30.00	8
21	W21x68	48+20.33	23.46	660.76	631.82	28.95	30.00	8	57	W24x84	50+69.24	31.75	671.62	645.13	26.50	30.00	7
22	W21x68	48+27.13	23.46	661.12	632.67	28.45	30.00	8	58	W24x84	50+76.72	32.31	671.69	646.24	25.46	30.00	7
23	W21x68	48+33.63	23.46	661.48	632.51	28.97	30.00	8	59	W24x84	50+84.20	32.87	671.76	647.37	24.39	30.00	7
24	W21x68	48+40.13	23.46	661.84	631.35	30.49	30.00	8	60	W24x84	50+91.68	33.43	671.82	648.47	23.35	30.00	6
25	W21x68	48+45.00	23.46	662.11	631.30	30.81	30.00	8	61	W24x84	50+99.16	34.00	671.89	649.61	22.28	30.00	6
26	W21x68	48+51.50	23.46	662.47	632.13	30.35	30.00	8	62	W24x84	51+06.63	34.56	671.96	650.72	21.24	30.00	6
27	W21x68	48+58.00	23.46	662.83	632.00	30.83	30.00	9	63	W21x44	51+13.38	34.92	672.02	651.45	20.58	30.00	5
28	W21x68	48+64.50	23.46	663.22	630.87	32.35	30.00	9	64	W21x44	51+21.35	35.53	672.09	652.58	19.51	30.00	5
29	W24x84	48+70.12	23.59	663.57	632.27	31.30	30.00	9	65	W21x44	51+29.28	36.13	672.17	653.88	18.29	30.00	5
30	W24x84	48+77.62	23.59	664.04	632.71	31.33	30.00	9	66	W21x44	51+35.18	36.59	672.22	654.77	17.45	30.00	4
31	W24x84	48+85.12	23.59	664.51	632.16	32.36	30.00	9	67	W21x44	51+43.03	37.24	672.29	655.92	16.37	30.00	4
32	W24x84	48+90.95	23.59	664.90	632.09	32.81	30.00	9	68	W21x44	51+50.89	37.90	672.37	657.21	15.17	30.00	4
33	W24x84	48+98.95	23.59	665.37	632.56	32.82	30.00	10	69	W21x44	51+56.77	38.42	672.42	658.09	14.33	30.00	3
34	W24x84	49+06.95	23.59	665.83	631.94	33.89	30.00	10	70	W21x44	51+64.61	39.13	672.49	659.26	13.24	30.00	3
35	W24x84	49+12.78	23.59	666.23	631.90	34.34	30.00	10	71	W21x44	51+72.46	39.87	672.56	660.52	12.04	30.00	3
36	W24x84	49+20.28	23.59	666.70	632.37	34.33	30.00	10									

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	399
Stud Shear Connectors	Each	544
Reinforcement Bars, Epoxy Coated	Pound	14,900
Name Plates	Each	1
Furnishing Soldier Piles (W Sections)	Foot	1,987
Drilling and Setting Soldier Piles (In Soil)	Foot	10,848
Untreated Timber Lagging	Sq. Ft.	3,240
Concrete Structures (Retaining Wall)	Cu. Yd.	159.4
Concrete Sealer	Sq. Ft.	3,773
Geocomposite Wall Drain	Sq. Yd.	252
Pipe Underdrains for Structures 4"	Foot	494

STATION 46+86.59
BUILT BY
CITY OF DECATUR
F.A.U. 7448
SEC. 09-00933-01-BR
STR. NO. 058-W007

NAME PLATE

See Std. 515001

Note:
The pile station is to the center of the pile and shaft measured along the proposed ℄ of Brush College Road.
The pile offset is to the center of the pile and shaft from the proposed ℄ of Brush College Road.

MODEL: Sheet
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\03_QUIGG\MSE Walls Sheets\60603202_058-W007_02_General Data and BOM.dgn
10/30/2020 11:35:58 PM

QUIGG ENGINEERING INC

USER NAME = lcriscione	DESIGNED - KWB	REVISED -	
60603202_058-W007_02_General Data and BOM.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - LMC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA & BILL OF MATERIAL
STRUCTURE NO. 058-W007
SHEET SD-2 OF SD-20 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	996	593
		CONTRACT NO. 6WGY(165)		
	ILLINOIS	FED. AID PROJECT		