

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

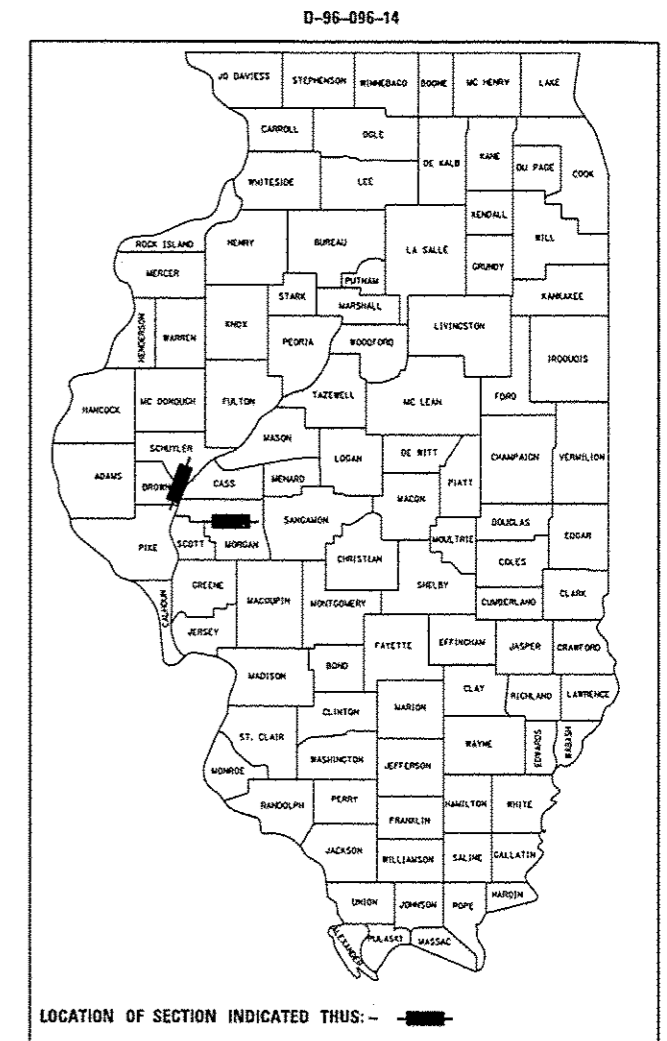
**PROPOSED
CULVERT REPAIR**

FAP 317 (US 24) & FAS 1613 (OLD US 36)
SECTION (25)I-4 & (10)I-2
PROJECT ACNHPP-ACRS-000V(028)
WINGWALL REPAIRS
SCHUYLER & MORGAN COUNTY

C-96-096-14

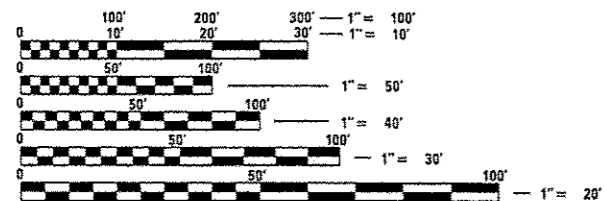
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(25)I-4 & (10)I-2	**	9	1
ILLINOIS CONTRACT NO. 72H25				
* FAP 317 & FAS 1613				
** SCHUYLER & MORGAN				

FOR INDEX OF SHEETS, SEE SHEET NO. 2



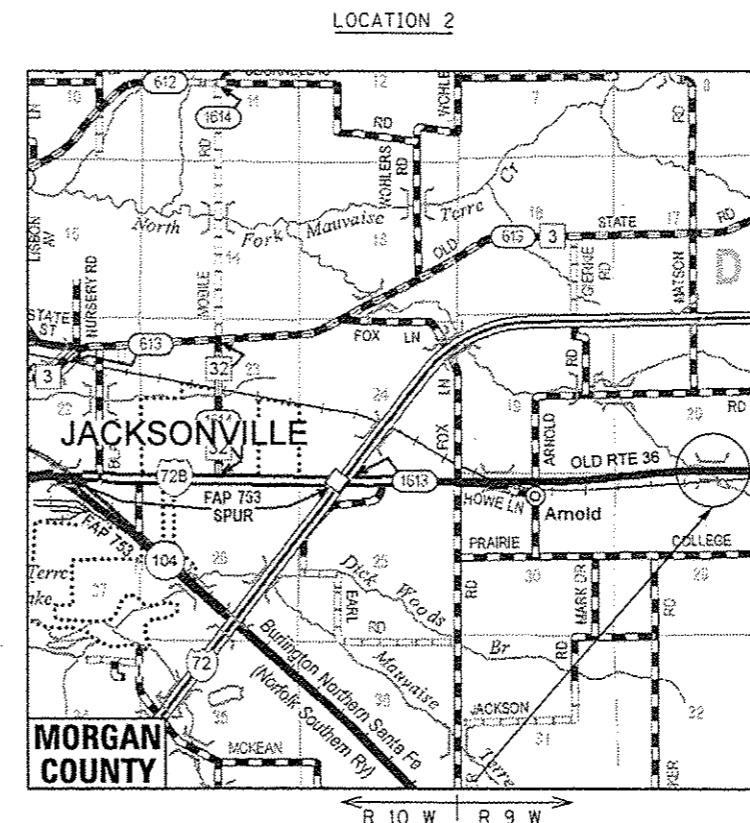
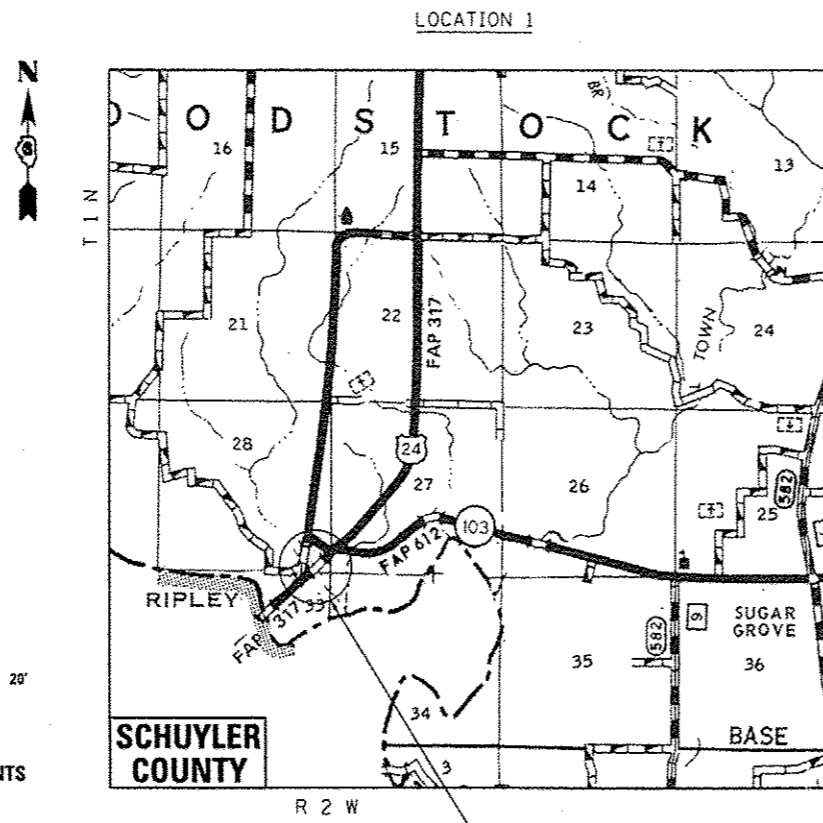
LOCATION 1:
F.A.P. 317 (US 24)
ADT (2013) : 2850
HCV = 15.79% SU = 5.26% MU = 10.53%
SPEED LIMIT: 55 MPH (POSTED)

LOCATION 2:
F.A.S. 1613 (OLD RT 36)
ADT (2008) : 900
HCV = 16.67% SU = 13.33% MU = 3.33%
SPEED LIMIT: 55 MPH (POSTED)



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

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



BRIDGE MAINTENANCE ENGINEER (ACTING): BRANDON DUDLEY (217) 785-9290
BRIDGE INSPECTION ENGINEER: DAVE COPENBARGER (217) 785-5306

LOCATION MAPS

CONTRACT NO. 72H25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 14 20 14
Raja Z. D. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30 20 15
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 20 15
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

2014 8 14 10:11 AM

INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, STANDARDS, GENERAL NOTES SIGNATURES
- 3. SUMMARY OF QUANTITIES
- 4-6. STRUCTURAL PLANS (SN 085-2001)
- 7-9. STRUCTURAL PLANS (SN 069-2000)

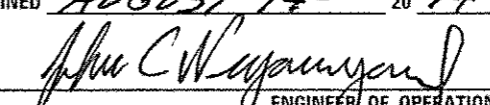

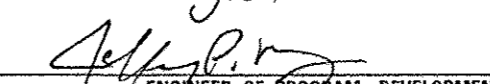
STANDARDS

- 701001-02
- 701006-05
- 701201-04
- 701301-04
- 701901-04

GENERAL NOTES

AFTER INSTALLATION OF HELICAL ANCHORS, THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS AND ALL VOIDS BEHIND THE WINGWALLS WITH EMBANKMENT OR GRANULAR MATERIAL. THIS WORK SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF FURNISHING AND PLACING MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR HELICAL GROUND ANCHORS.

SIGNATURES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	<u>August 14th 20 14</u>  ENGINEER OF OPERATIONS
EXAMINED	<u>August 14 20 14</u>  ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED	<u>August 14 20 14</u>  ENGINEER OF PROGRAM DEVELOPMENT

FILE NAME =	USER NAME = dustieghm	DESIGNED - DMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, SIGNATURES, GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OPERATIONS\Bridgplans_C40\72H25 - S	8852881 SN 0692888 Wingwall Repair 2014\pl	DRAWN - DMS	REVISED -			.	(25)-4 & (10)-2	**	9	2	
Default	PLOT SCALE = 40.0075' / 1" =	CHECKED -	REVISED -			CONTRACT NO. 72H25					
	PLOT DATE = Aug-14-2014 02:17:28PM	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

• FAP 317 & FAS 1613
•• SCHUYLER & MORGAN

SCALE: SHEET OF SHEETS STA. TO STA.

MOE1 M2E2
NHPP STP

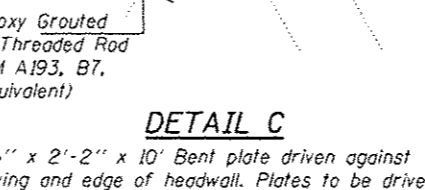
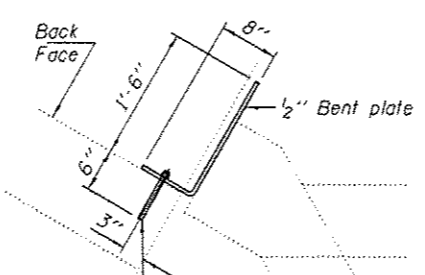
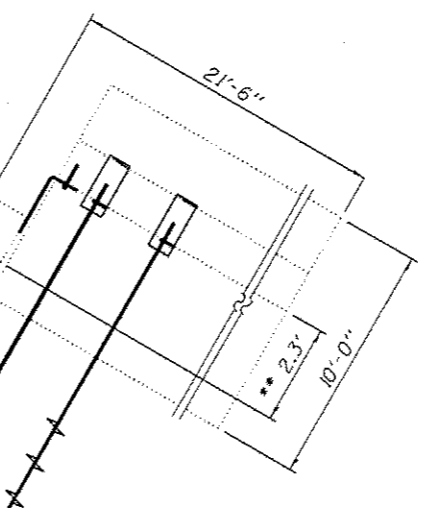
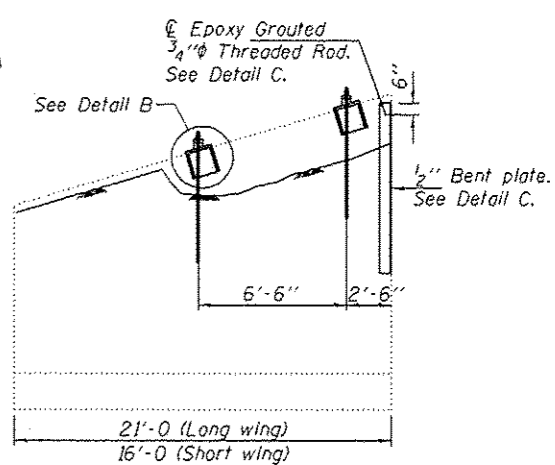
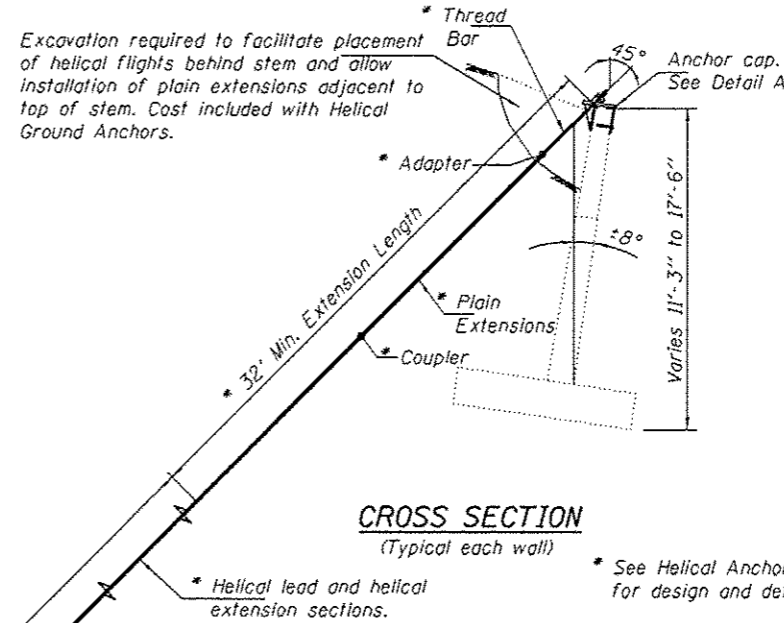
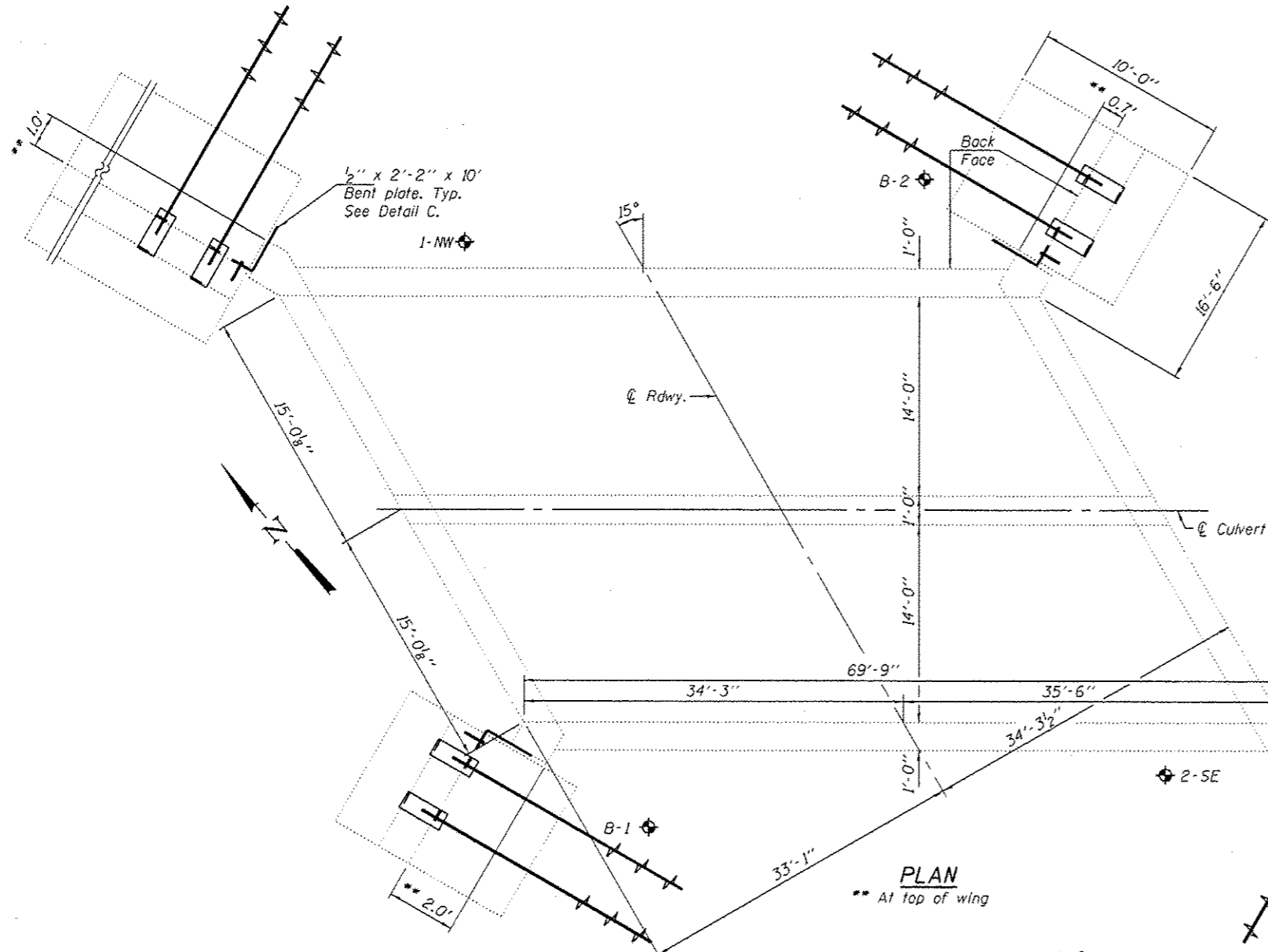
80% FED / 20% STATE	
US 24	OLD US 36
CONSTR. CODE	
SCHUYLER COUNTY	MORGAN COUNTY
ROADWAY	
0014	0014
S.N.	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
67100100	MOBILIZATION	L SUM	1	0.8	0.2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.8	0.2
X0323992	HELICAL GROUND ANCHORS	EACH	10	8	2

3

• FAP 317 & FAS 1613
•• SCHUYLER & MORGAN

FILE NAME *	USER NAME * dudlaybm	DESIGNED - DMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITY				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\plans.CAD\72H25 - S	0852001 SY 0692008 Wingwall Repair 2014.dgn	GRAHAM	DMS						REVISED -	•	(231)-4 & (10H)-2	**	9
Default	PLOT SCALE * 40.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE * Aug-14-2014 01:50:00PM	DATE -	REVISED -		CONTRACT NO. 72H25								



PLAN
** At top of wing

CROSS SECTION
(Typical each wall)

WINGWALL ELEVATION

DETAIL A

DETAIL B

DETAIL C

- NOTES**
1. Helical Anchor shall be designed by manufacturer. (See Special Provisions).
 2. The Contractor shall submit design calculations and shop drawing for the proposed Helical Ground Anchor to the Engineer for review and approval.
 3. Helical anchor design load (Service) = 22 K/Anchor.
 4. Cost of steel plates, washers and nuts included in the cost of Helical Ground Anchors.

Note:
All anchor components shall be galvanized according to Article 509.05 of the Standard Specifications.



**TOTAL BILL OF MATERIAL
4 WINGWALLS**

ITEM	UNIT	QUANTITY
Helical Ground Anchors	Each	8

BORING B-1

Form No. B.O. 137 **FOUNDATION BORINGS**
 Project: Bridge Sta 458+06 Sheet 1 of 2 sheets
 Route: SBT-31 (FH-32) Culvert Date: 3/16/59
 Section: (9, 10, 11) X Borings made by: Hugh Brandy
 County: Basco, Delaware

Will bearing piles be required? Yes
 Can bristle piles be driven? Yes
 Station: 458+30 27 L & R

Ground elevation - 451.7
 Brown sandy loam
 Flow line - 445.7

Blow per ft	Blow per ft	Elevation	Elevation	Blow per ft
4	1.9	450.0	405.0	19
1	0.2			
3	0.7			
4	1.6	442.0		26
2	1.2	440.5		
4	1.2	437.0		13
5	1.8	434.0		
3	1.6	429.0	385.0	30
2.5	0.3	427.0		
1.5		424.0		
2.8		422.0		
2.2		419.0		
2.1				
1.9				
9				
7				
2.0		405.0		

Will bearing piles be required? Yes
 Can bristle piles be driven? Yes
 Station: 458+30 27 L & R

Brown medium coarse sand and gravel (1/2"-1")

BORING B-2

Form No. B.O. 137 **FOUNDATION BORINGS**
 Project: Bridge Sta 458+06 Sheet 2 of 2 sheets
 Route: SBT-36 Date: 3/16/59
 Section: (9, 10, 11) X Borings made by: Hugh Brandy
 County: Basco, Delaware

Will bearing piles be required? Yes
 Can bristle piles be driven? Yes
 Station: 458+96 31 R & L

Ground elevation - 451.4
 Brown sandy loam
 Flow line - 445.7

Blow per ft	Blow per ft	Elevation	Elevation	Blow per ft
2	0.3	450.0	405.0	14
7	3.7	443.0		16
1.6		433.0		20
8	2.9	433.0	385.0	21
2.0	0.3	423.0		
2.4				
1.0				
1.0				
2.6		405.0		

Will bearing piles be required? Yes
 Can bristle piles be driven? Yes
 Station: 458+96 31 R & L

Brown medium sand and gravel (1/2"-1")

BORING 1-NW

Illinois Department of Transportation **SOIL BORING LOG** Page 1 of 2
 Date: 12/12/11

ROUTE: US 24 DESCRIPTION: Court Trls. to Cooked Creek LOGGED BY: M. Toppa
 SECTION: 10CR LOCATION: SE 1/4, SEC. 25, TWP. 1N, R. 6E, ZW. 4 PM
 COUNTY: Schuyler DRILLING METHOD: HSA HAMMER TYPE: 140 # AUTO

STRUCT. NO. 085-2001 D B U M
 Station: 458+04 E L C O
 BORING NO. 1NW H S T S
 Station: 457+97 H S Qu T
 Offset: 18.081
 Ground Surface Elev. 462.0 ft (ft) (ft) (ft) (%)

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev. First Encounter	Groundwater Elev. Upon Completion	Groundwater Elev. After 24 Hours	Washlog #	(ft)	(ft)	(ft)	(ft)
455.2	444.9	425.5							

Soil Description	Depth (ft)	Blow Count	Notes
Brown and Gray Moist SILTY CLAY (F#)	0 - 1.4	23	Gray and Brown Wet LOAM
Brown and Gray Moist SILTY CLAY LOAM (F#)	1.4 - 2.0	18	Light Hidden Brown Moist CLAY
Gray and Brown Moist SILTY CLAY (F#)	2.0 - 2.5	18	
Gray Very Moist SILTY CLAY LOAM (F#)	2.5 - 3.0	18	
Gray Moist LOAM (F#)	3.0 - 3.5	18	
Gray Wet LOAM	3.5 - 4.0	18	
Gray Very Moist SAND LOAM	4.0 - 4.5	18	
Gray Wet SILTY LOAM with 3" Seam Gray Wet Fine SAND	4.5 - 5.1	11	
Gray Moist CLAY with 6" Seam Gray Wet SAND LOAM	5.1 - 5.7	11	

The Unconfined Compressive Strength (UCS) Failure Mode to be indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated).
 Abbreviations W.O.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing.
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) (95% from 137 (Rev. 8-59)).

BORING 1-NW

Illinois Department of Transportation
SOIL BORING LOG Page 2 of 2
 Date 12/15/11

ROUTE US 24 DESCRIPTION Over Trib. to Crooked Creek LOGGED BY M. Tappan
 SECTION 10CR LOCATION SE 1/4, SEC. 28, TWP. 1N, RNG. 2W, 4 PM
 COUNTY Schuyler DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO. 085-2001 Station 498+04
 BORING NO. 1-NW Station 497+97.7
 Offset 18.081 ft
 Ground Surface Elev. 464.0 ft

DEPTH (ft)	SOIL DESCRIPTION	(ft)	(%)	(%)
0	Gray Moist CLAY with 6" Seam Gray Wet SAND LOAM (continued)			
0	Gray Medium SAND with Some Fine GRAVEL Washed			
17	Brown Medium Sandy GRAVEL Washed			
20	Washed			
20	Boring Completed			

Ref. STA. to Centerline of Ex. Structure=458+04 Sta. Increase to East (NE)
 Ref. ELEV. to Centerline of Ex. Structure=464.5

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 Abbreviations W.D.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

BORING 2-SE

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 2
 Date 12/15/11

ROUTE US 24 DESCRIPTION Over Trib. to Crooked Creek LOGGED BY M. Tappan
 SECTION 10CR LOCATION SE 1/4, SEC. 28, TWP. 1N, RNG. 2W, 4 PM
 COUNTY Schuyler DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO. 085-2001 Station 498+04
 BORING NO. 2-SE Station 498+24
 Offset 15.081 ft
 Ground Surface Elev. 464.1 ft

DEPTH (ft)	SOIL DESCRIPTION	(ft)	(%)	(%)
1	Gray and Brown Moist SILTY CLAY LOAM (F3)			
4	Brown and Gray			
5	Gray and Brown Moist SILTY CLAY LOAM (F3) with Brown Moist CLAY LOAM Seams (F3)			
1	Gray and Brown Moist SILTY CLAY (F3)			
1	Brown Moist SILTY CLAY			
1	Brown and Gray Moist CLAY LOAM			
1	Dark Gray			
1	Gray Moist LOAM to SAND LOAM			

Ref. STA. to Centerline of Ex. Structure=458+04 Sta. Increase to East (NE)
 Ref. ELEV. to Centerline of Ex. Structure=464.5

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 Abbreviations W.D.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

BORING 2-SE

Illinois Department of Transportation
SOIL BORING LOG Page 2 of 2
 Date 12/15/11

ROUTE US 24 DESCRIPTION Over Trib. to Crooked Creek LOGGED BY M. Tappan
 SECTION 10CR LOCATION SE 1/4, SEC. 28, TWP. 1N, RNG. 2W, 4 PM
 COUNTY Schuyler DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

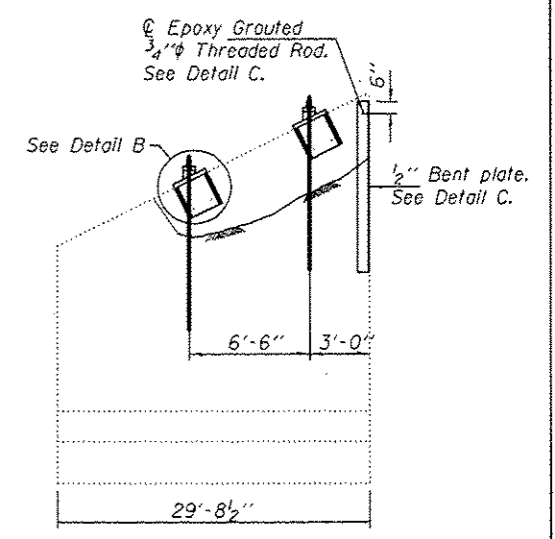
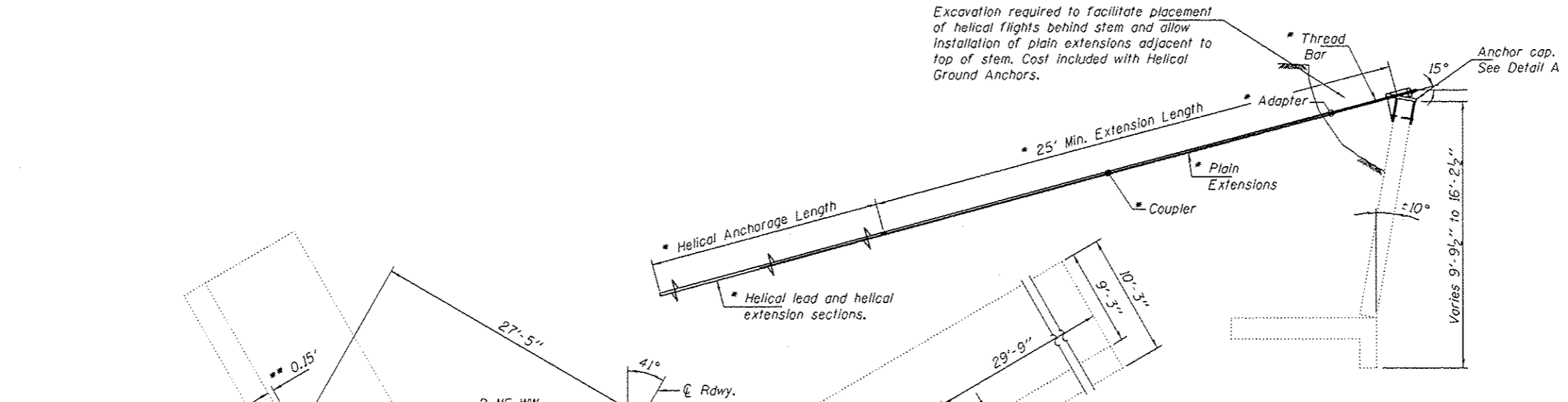
STRUCT. NO. 085-2001 Station 498+04
 BORING NO. 2-SE Station 498+24
 Offset 15.081 ft
 Ground Surface Elev. 464.1 ft

DEPTH (ft)	SOIL DESCRIPTION	(ft)	(%)	(%)
0	Gray Moist LOAM Washed (continued)			
0	Brown Medium SANDY GRAVEL Washed			
3	Washed			
3	Washed			
4	Washed			
4	Boring Completed			

Ref. STA. to Centerline of Ex. Structure=458+04 Sta. Increase to East (NE)
 Ref. ELEV. to Centerline of Ex. Structure=464.5

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 Abbreviations W.D.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

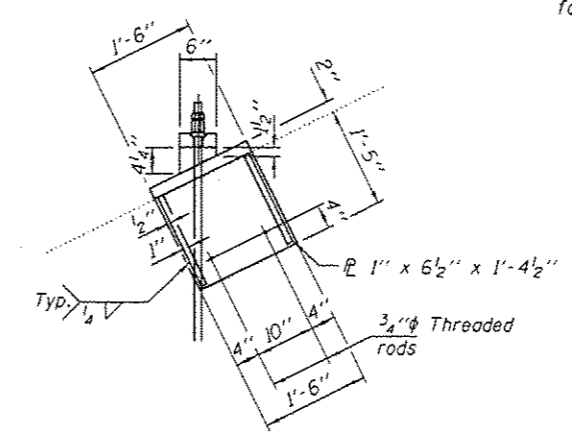
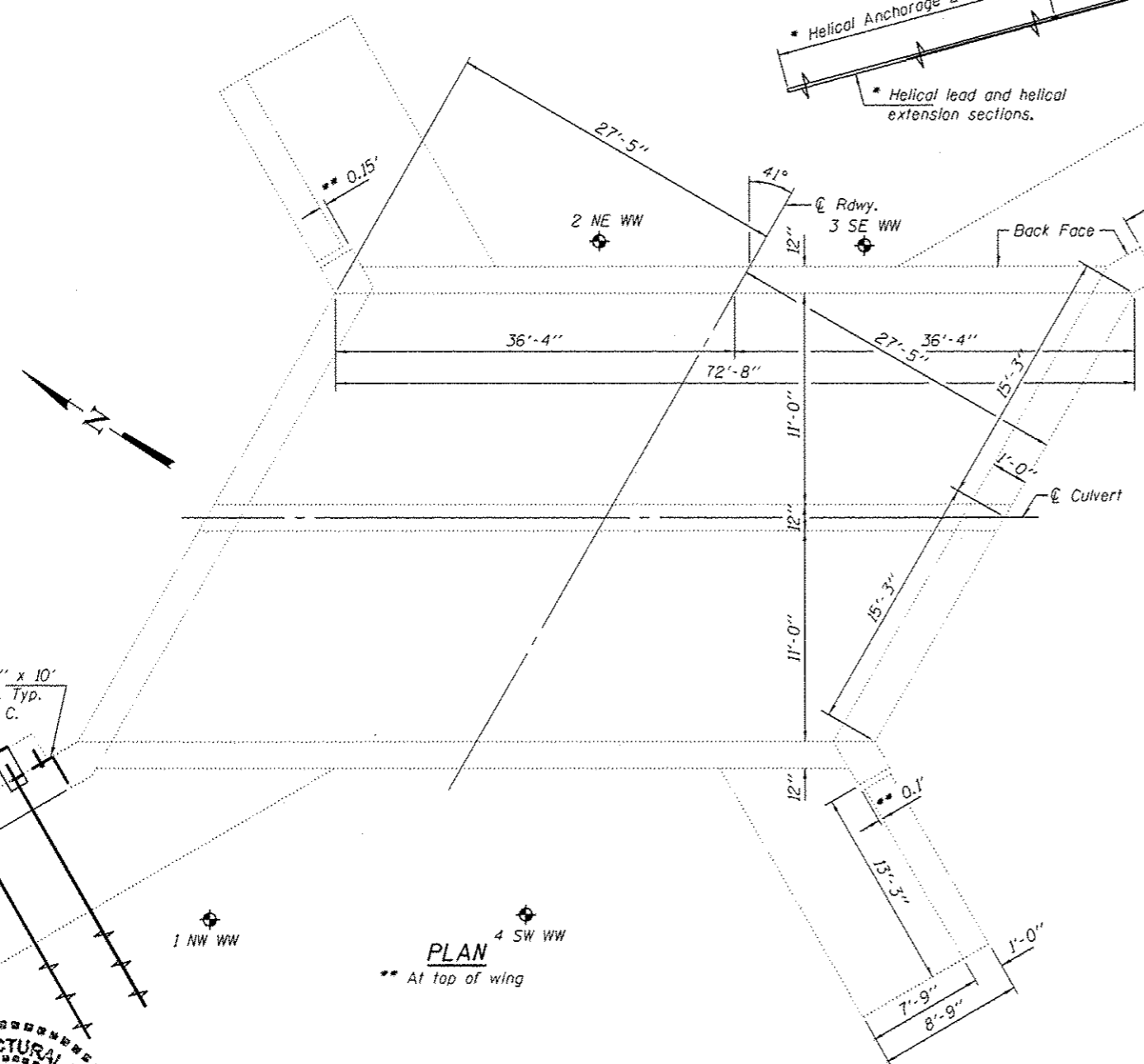
Excavation required to facilitate placement of helical flights behind stem and allow installation of plain extensions adjacent to top of stem. Cost included with Helical Ground Anchors.



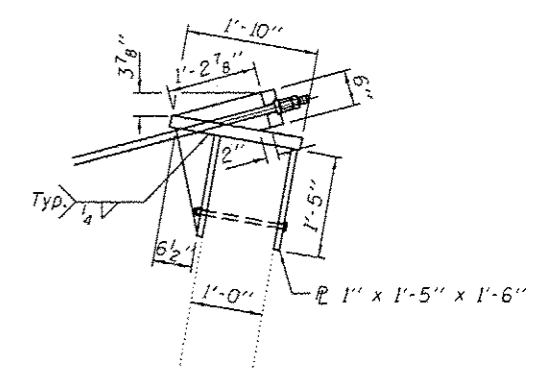
CROSS SECTION
(NW wing only)

WINGWALL ELEVATION

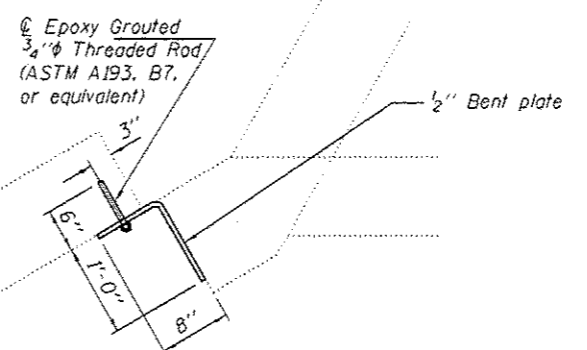
* See Helical Anchor Supplier for design and details.



DETAIL B



DETAIL A



DETAIL C

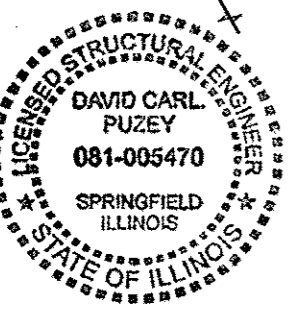
1/2" x 1'-8" x 10' Bent plate driven against wing and edge of headwall. Plates to be driven after anchor system is in place. Furnishing and driving the bent plates shall be included in the cost of the helical anchors.

Note:
All anchor components shall be galvanized according to Article 509.05 of the Standard Specifications.

1/2" x 1'-8" x 10' Bent plate. Typ. See Detail C.

NOTES

1. Helical Anchor shall be designed by manufacturer. (See Special Provisions).
2. The Contractor shall submit design calculations and shop drawing for the proposed Helical Ground Anchor to the Engineer for review and approval.
3. Helical anchor design load (Service) = 17.5 K/Anchor.
4. Cost of steel plates, washers and nuts included in the cost of Helical Ground Anchors.



**TOTAL BILL OF MATERIAL
NW WINGWALL**

ITEM	UNIT	QUANTITY
Helical Ground Anchors	Each	2

BORING 1 NW WW

Page 1 of 1

Date 4/23/14

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

ROUTE OH US 36 DESCRIPTION OH US 36 over Mainville Terra Cr. LOGGED BY M. Tappan

SECTION 7 LOCATION NW 1/4, SEC. 28, TWP. 15N, RNG. 9W, 3 PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 069-2000 Station 99+25

BORING NO. 1 NW WW Station 98+77

Offset 14.03 ft

Ground Surface Elev. 618.3 ft

DEPTH (ft)	B L O W S	U C S Q _u	M O I S T %	Description	DEPTH (ft)	B L O W S	U C S Q _u	M O I S T %
				Surface Water Elev. <u>601.3</u> ft				
				Stream Bed Elev. <u>599.8</u> ft				
				Groundwater Elev. <u>592.8</u> ft				
				First Encounter <u>Plugged</u> ft				
				Upon Completion <u>Plugged</u> ft				
				After <u>hrs.</u>				
0				Over Brown and Gray Moist SILTY CLAY (F#)	1	1.1	25	
1				Brown and Gray	2	B		
2	2.2		24	Brown and Gray Wet SILTY CLAY	3	1	30	30
4	B				4	B		
5				Gray Dety Medium SAND with Reddish Brown Weathered Clayey SHALE at 27.0'	5	1		
6					6	1		
7	2.2		21	Light Reddish Brown and Gray Moist Clayey SHALE	8	4		
9	B				9			
10				Gray Moist SILTY CLAY (F#)	10	0		
11	3	2.2	24		11	20		12
12	5	B			12	74		
13				Black Moist SILTY CLAY	13	5*		
14					14			
15	2		25	Gray Dry Micaceous Fissile Clayey SHALE	15	10		
16					16	43		11
17	1.5		27		17	57		
18	B			Boring Completed	18	5*		
19					19			
20	3	2.5	25	Very Dark Gray Moist SILTY CLAY	20	1	60	29
21					21	2	B	
22	2.2		24		22			
23	B				23			
24					24			
25					25			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T200) BBS, from 137 (Rev. 8-99)

BORING 2 NE WW

Page 1 of 1

Date 4/23/14

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

ROUTE OH US 36 DESCRIPTION OH US 36 over Mainville Terra Cr. LOGGED BY M. Tappan

SECTION 7 LOCATION NW 1/4, SEC. 28, TWP. 15N, RNG. 9W, 3 PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 069-2000 Station 99+25

BORING NO. 2 NE WW Station 99+32


Offset 14.03 ft

Ground Surface Elev. 618.4 ft

DEPTH (ft)	B L O W S	U C S Q _u	M O I S T %	Description	DEPTH (ft)	B L O W S	U C S Q _u	M O I S T %
				Surface Water Elev. <u>601.3</u> ft				
				Stream Bed Elev. <u>599.8</u> ft				
				Groundwater Elev. <u>592.8</u> ft				
				First Encounter <u>Plugged</u> ft				
				Upon Completion <u>Plugged</u> ft				
				After <u>hrs.</u>				
0				Reddish Brown Moist SILTY CLAY (F#)	1	1		
1					2	2.7		15
2					3	B		
3					4	3.3		10
4					5	B		
5					6			
6				Light Olive Gray Moist SILTY CLAY (F#)	7	1.7		25
7					8	B		
8					9			
9					10	1.0		23
10					11	B		
11					12			
12				Gray	13	2.2		20
13					14	B		
14					15			
15				Black Moist SILTY CLAY	16	1.0		26
16					17	B		
17					18			
18					19	1.90		29
19					20	B		
20				Dark Gray	21			
21					22	1	60	29
22					23	B		
23					24			
24				Boring Completed	25			
25					26			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T200) BBS, from 137 (Rev. 8-99)

BORING 3 SE WW



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 4/25/14

ROUTE Old US 36 DESCRIPTION Old US 36 over Maunabo Terra Cr. LOGGED BY M. Tappan

SECTION ? LOCATION NW 1/4, SEC. 29, TWP. 15N, RNG. 9W, 3 PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140# Auto


STRUCT. NO. 069-2000 Station 99+25

BORING NO. 3 SE WW Station 99+25 Offset 13.08 RT Ground Surface Elev. 818.5 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMP.	PH	U.C.S. (psi)	W.P. (psi)	B.P. (psi)	S.P.T. (blows)
0	Surface Water Elev. 601.3 ft							
0	Stream Bed Elev. 599.8 ft							
0	Groundwater Elev.: 583.0 ft							
0	1st Encounter Plugged ft							
0	Upon Completion After Hrs.							
1	Brownish Gray Moist SILTY CLAY (F3)							
3								
3								
2	Olive Gray							
3								
5								
2								
4								
6								
2	Dark Gray Moist SILTY CLAY (F4)							
2								
4								
10								
2								
3								
5								
2	Black Moist SILTY CLAY							
3								
5								
10								
2								
3								
3								
0								
1								
3								
2								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H. - Sampler Advanced By Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-92)

BORING 4 SW WW



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 4/25/14

ROUTE Old US 36 DESCRIPTION Old US 36 over Maunabo Terra Cr. LOGGED BY M. Tappan

SECTION ? LOCATION NW 1/4, SEC. 29, TWP. 15N, RNG. 9W, 3 PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 069-2000 Station 99+25

BORING NO. 4 SW WW Station 99+25 Offset 13.08 RT Ground Surface Elev. 818.4 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMP.	PH	U.C.S. (psi)	W.P. (psi)	B.P. (psi)	S.P.T. (blows)
0	Surface Water Elev. 601.3 ft							
0	Stream Bed Elev. 599.8 ft							
0	Groundwater Elev.: 583.0 ft							
0	1st Encounter Plugged ft							
0	Upon Completion After Hrs.							
1	Brown to Dark Gray Moist SILTY CLAY (F3)							
3								
5								
1	Dark Gray							
3								
3								
1								
3								
3								
1								
3								
1								
2								
3								
0								
2								
2								
1								
2								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H. - Sampler Advanced By Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-92)