

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

POSTED SPEED: 55 MPH

ADT: 5,050 (2019)

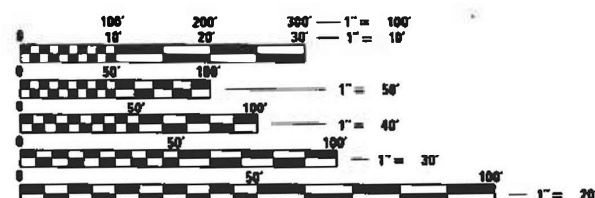
APPLIES TO SHEETS 1-23, 32-33

C. J. Patel
LICENSED CIVIL ENGINEER, STATE OF ILLINOIS
EXPIRES: 11/30/2021

APPLIES TO SHEETS 24-31

Arthur Nowak
LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS
EXPIRES: 11/30/2022

MUNICIPALITIES:
UNINCORPORATED WILTON TOWNSHIP



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

PROJECT ENGINEER: PRAVEEN KAINI, PE (847)-705-4237

PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056

CONTRACT NO. 62N28

FAP ROUTE 852 /US ROUTE 52 (CEDAR ROAD)
OVER DITCH NORTH OF FORKED CREEK (2.9 MILE S OF HOFF ROAD)

SECTION 2020-258-CR
PROJECT NO. STP-N8D8(427)

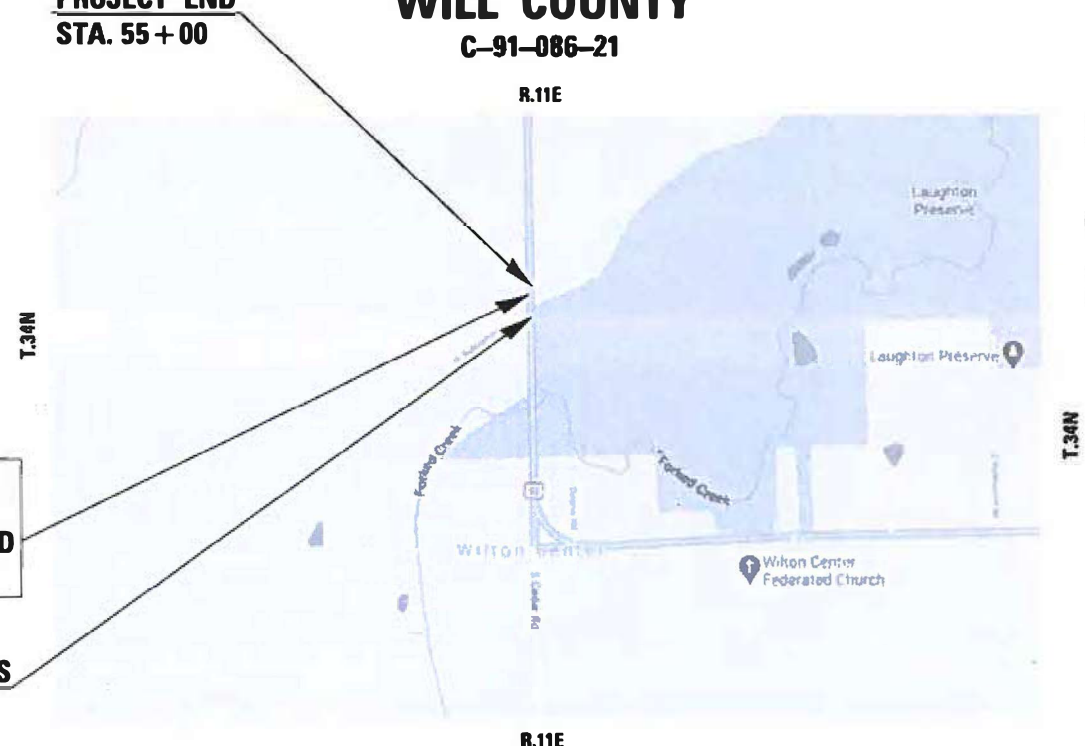
CULVERT REPLACEMENT
WILL COUNTY

C-91-086-21

PROJECT END
STA. 55 + 00

REPLACE EXISTING
SN 099-0922
CONSTRUCT PROPOSED
SN 099-8326

PROJECT BEGINS
STA. 45 + 00

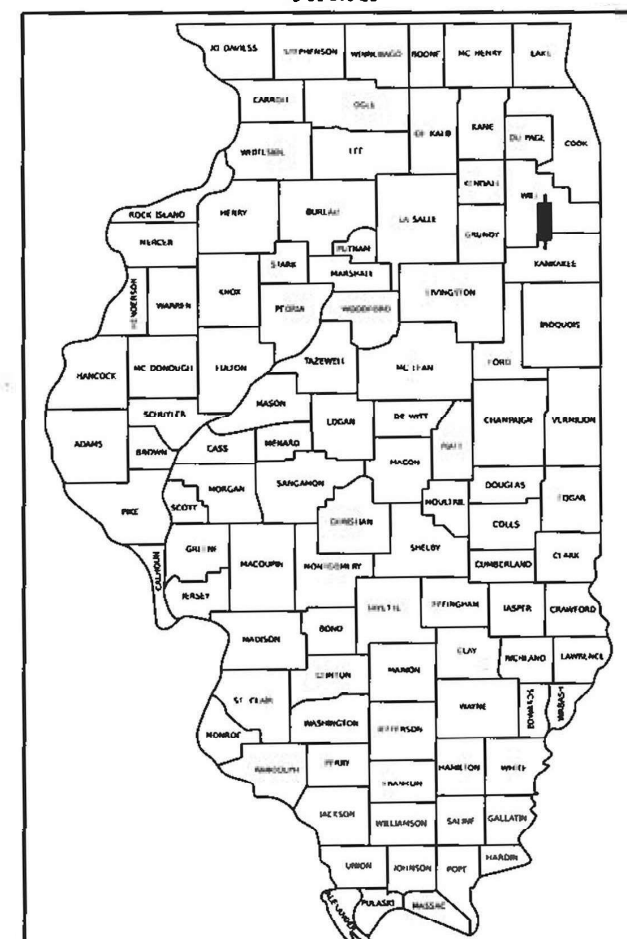


WILTON TOWNSHIP

GROSS LENGTH = 1000 FT. = 0.19 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	2020-258-CR	WILL	42	1
CONTRACT NO. 62N28				

D-91-070-21



LOCATION OF SECTION INDICATED THUS: —■—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18, 2021
Jose Rios REGIONAL ENGINEER
December 10, 2021
Steph M. Faria ENGINEER OF DESIGN AND ENVIRONMENT
December 10, 2021
Steph M. Faria DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

Bowman

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Existing Structure:
The structure is a cast-in-place concrete, single cell 10'x3' box culvert.
This structure carries F.A.P. Route 852 / US 52 over a drainage ditch located 2.9 miles south of Hoff Road. The existing culvert has a length of 62'-0" and is to be removed and replaced with the proposed culvert.

Traffic Control:
Two stages of construction will be implemented where both stages require lane reductions

Precast alternate is allowed.

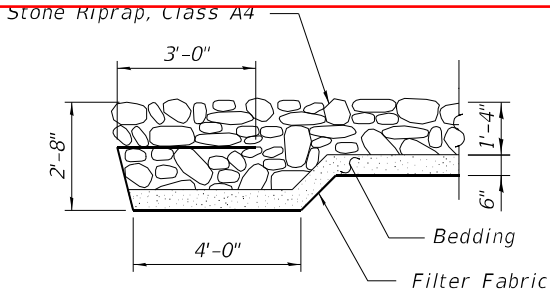
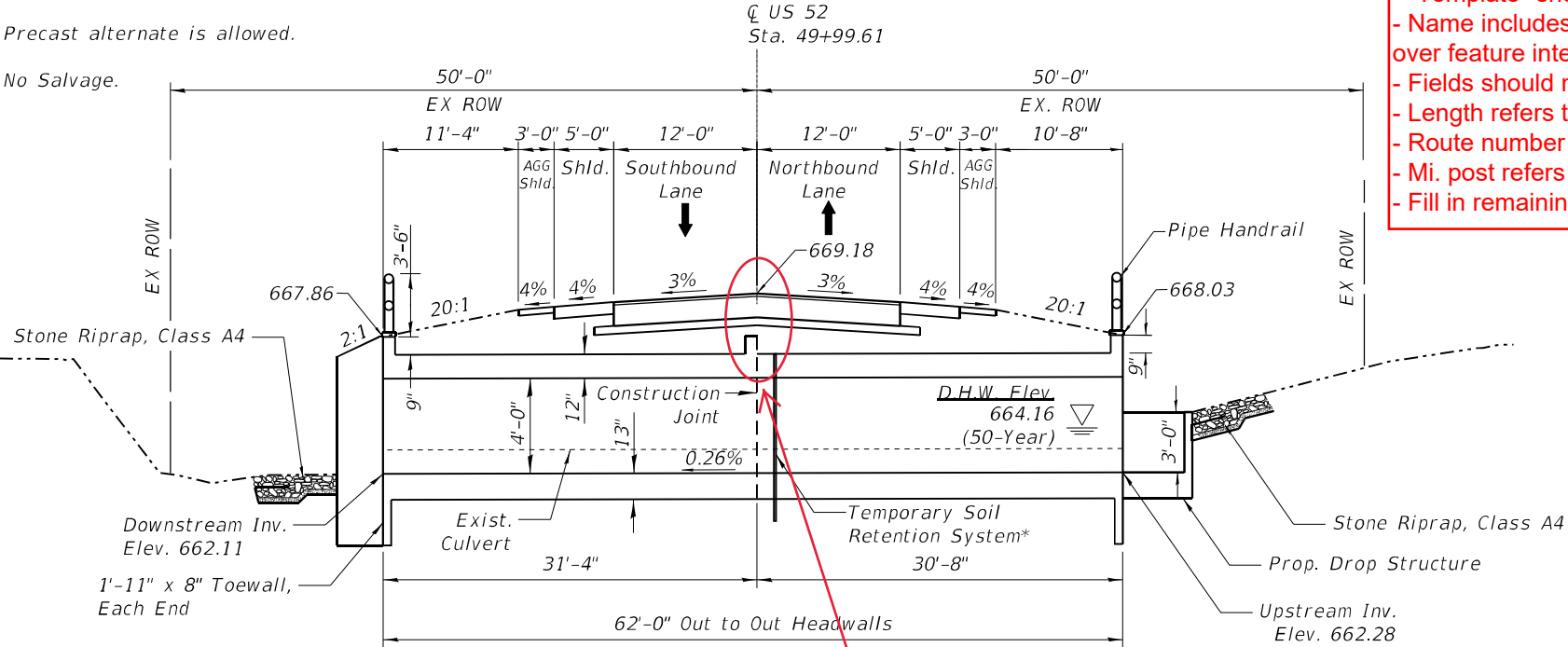
No Salvage.

Benchmark:
Spike with yellow sleeve in power pole west side US 52
±115 South of Existing 10'x3' culvert. Elevation = 667.86

WATERWAY INFORMATION

Drainage Area= 0.24 square miles			Existing Overtopping Elev.=668.36 @ Sta. 49+00 Proposed Overtopping Elev.=668.36 @ Sta. 49+00						
Flood Event	Freq. Yr.	Q C.F.S	Opening - Sq. Ft.		Natural H.W.E.- Ft	Head - Ft		Headwater Elev.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
NBI ID indicates tutorial. unchecked in active models. of creator and latest modifier of model, facility carried and acronym for structure type (see setup guide). Structure Summary Report. TO Bridge Length (clear span). Key Route Number.					663.71	1.53	1.39	665.24	665.10
					664.16	1.87	1.65	666.03	665.81
					664.33	2.08	1.80	666.41	666.13
					664.76	2.73	2.14	667.49	666.90

Main Window:
- "tut" suffix on Bridge & NBI ID indicates tutorial.
- "Template" should be unchecked in active models.
- Name includes initials of creator and latest modifier of model, facility carried over feature intersected, and acronym for structure type (see setup guide).
- Fields should match Structure Summary Report.
- Length refers to AASHTO Bridge Length (clear span).
- Route number refers to Key Route Number.
- Mi. post refers to Station.
- Fill in remaining tabs if info is available.



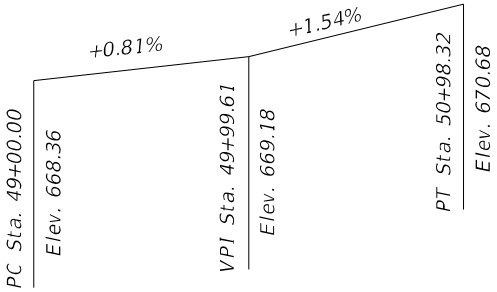
DESIGN STRESSES

FIELD UNITS

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

HIGHWAY CLASSIFICATION

Functional Class: Minor Arterial
ADT: 5,050 (2019)
ADTT: 825 (2019)
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.
Two-Way Traffic (2 Lanes)



PROFILE GRADE

SCOPE OF WORK

Existing 10'x3' box culvert to be replaced with single cell 12'x4' box culvert

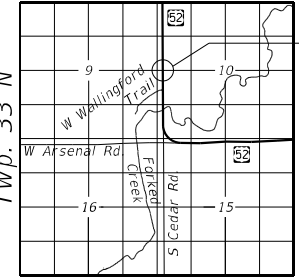
LOADING HL-93

Allow 50#/sq. ft. for Future Wearing Surface.

DESIGN SPECIFICATIONS

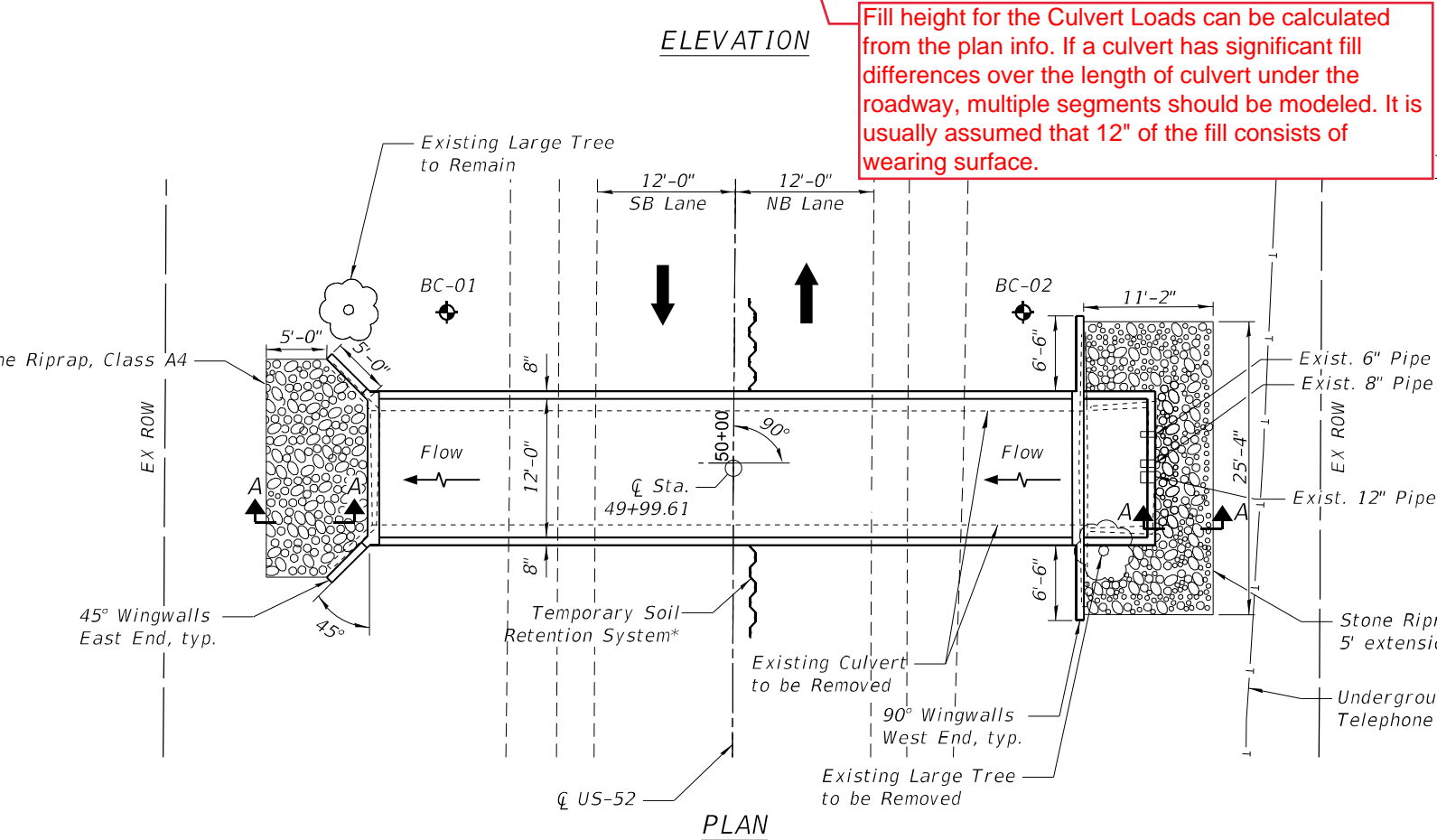
2020 AASHTO LRFD Bridge Design Specifications, 9TH Edition

Range 11 E, 3rd P.M.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
US 52 AT DITCH NORTH OF FORK CREEK
WILL COUNTY
STATION 49+99.61
STRUCTURE NO. 099-8326



*Temporary Soil Retention System is to be designed by the Contractor

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 06 - US 52 Culvert\500 Drawings\502 CADD Sheets\ID 162N28-CPE.dgn
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - CULVERT - SN 099-8326
US 52 OVER DITCH NORTH OF FORKED CREEK

SHEET 1 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	2020-258-CR	WILL	42	24
		CONTRACT NO. 62N28		
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

Cast-In-Place Concrete

1. All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. chamfer on vertical edges shall be continued a minimum of one foot within finished ground level.

Reinforcement Bars

1. Reinforcement bars, including epoxy-coated reinforcement bars, shall conform to the requirements of AASHTO M-31 (ASTM A70), grade 60, deformed bars.
2. Reinforcement bars designated "(E)" shall be epoxy coated.
3. Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315.
4. Reinforcement bar bending dimensions are out to out.
5. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

Construction

1. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
2. Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.
3. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
4. No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by the Engineer.
5. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
6. Temporary Soil Retention System shall be designed by the Contractor.

LEGEND

Existing Telephone Line

STATION 49+99.61
BUILT 202_ BY
STATE OF ILLINOIS
LOADING HL-93
STRUCTURE NO. 099-8326

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
20700220	POROUS GRANULAR EMBANKMENT	CU YD	127
28100107	STONE RIPRAP, CLASS A4	SQ YD	39.3
28200200	FILTER FABRIC	SQ YD	61.3
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	374
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20,660
50800515	BAR SPLICERS	EACH	62
50901760	PIPE HANDRAIL	FOOT	24.5
51500100	NAME PLATES	EACH	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	432
54003000	CONCRETE BOX CULVERTS	CU YD	82.2
X0900064	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	119.5
Z0054400	ROCK FILL	CU YD	19.5

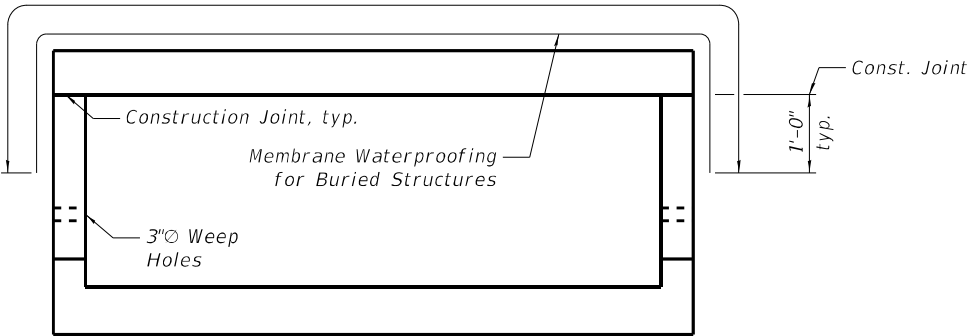
LIST OF ABBREVIATIONS

B	Baseline	B.F.	Back Face
CL	Centerline	cl.	Clearance
const.	Constant	CUL	Culvert
E.F.	Each Face	Ø	Diameter
exist.	Existing	elev.	Elevation
F.F.	Front Face	FL	Flow Line
jt.	Joint	I.F.	Inside Face
max.	Maximum	long.	longitudinal
no.	Number	min.	Minimum
PGL	Profile Grade Line	O.F.	Outside Face
req'd.	Required	prop.	Proposed
sect.	Section	rte.	Route
spec.	Specification	spa.	Spaces
std.	Standard	sta.	Station
typ.	Typical	struct.	Structure

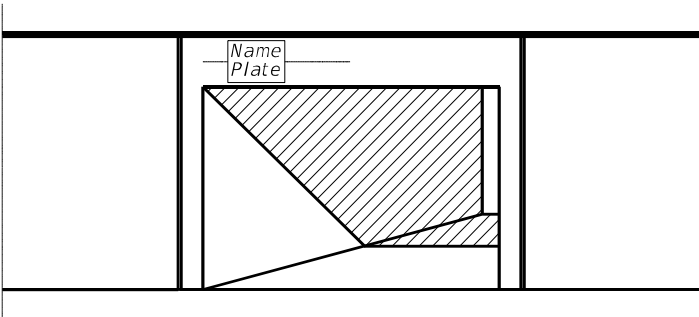
INDEX OF SHEETS

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S-3	Stage Construction
S-4	Culvert Details I
S-5	Culvert Details II
S-6	Handrail Details
S-7	Bar Splicer Assembly Details
S-8	Soil Borings

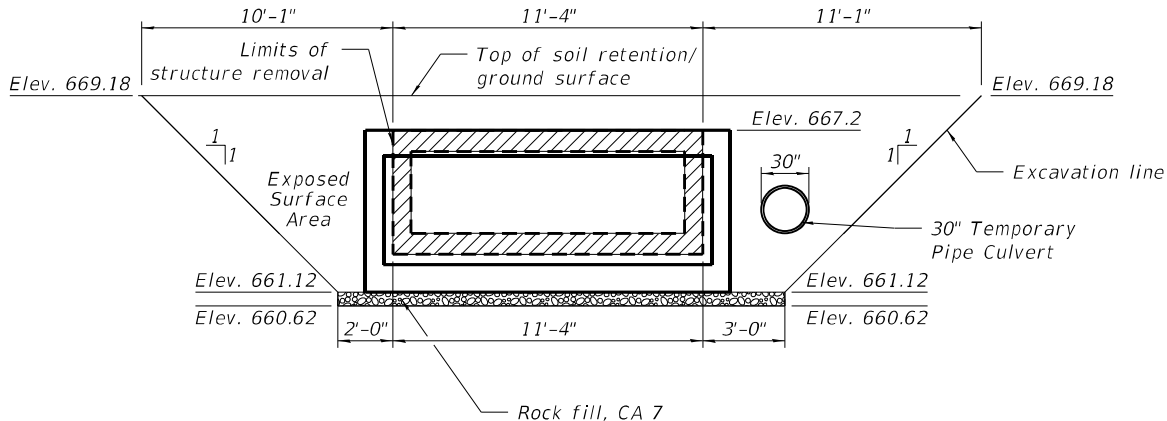
Pay Limits for Membrane Waterproofing for Buried Concrete Structures



MEMBRANE WATERPROOFING DETAIL



NAME PLATE LOCATION



TEMPORARY SOIL RETENTION DETAIL

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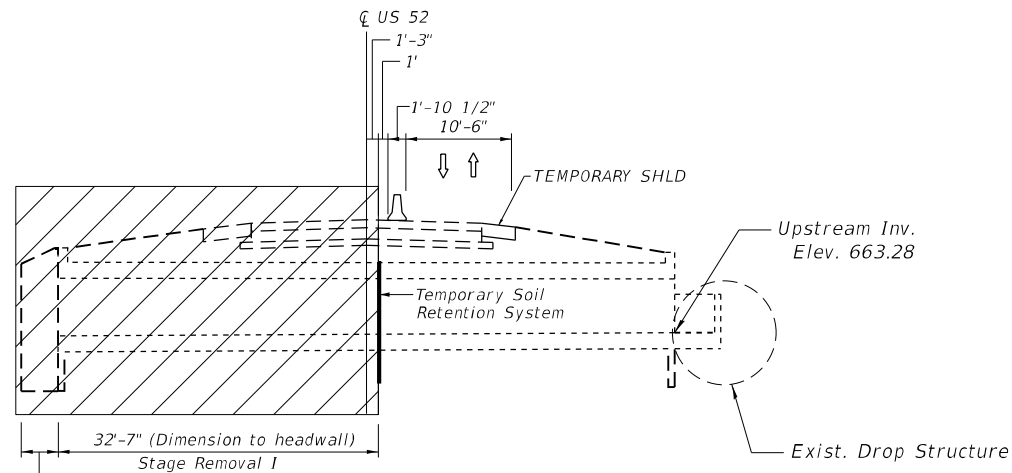
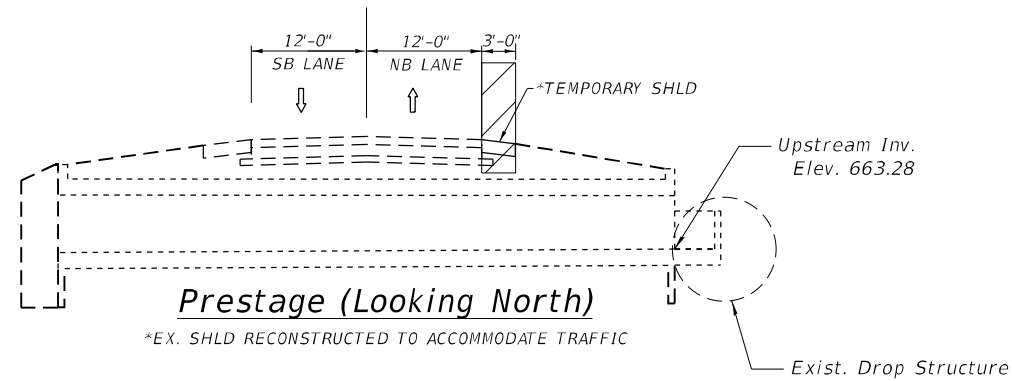
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

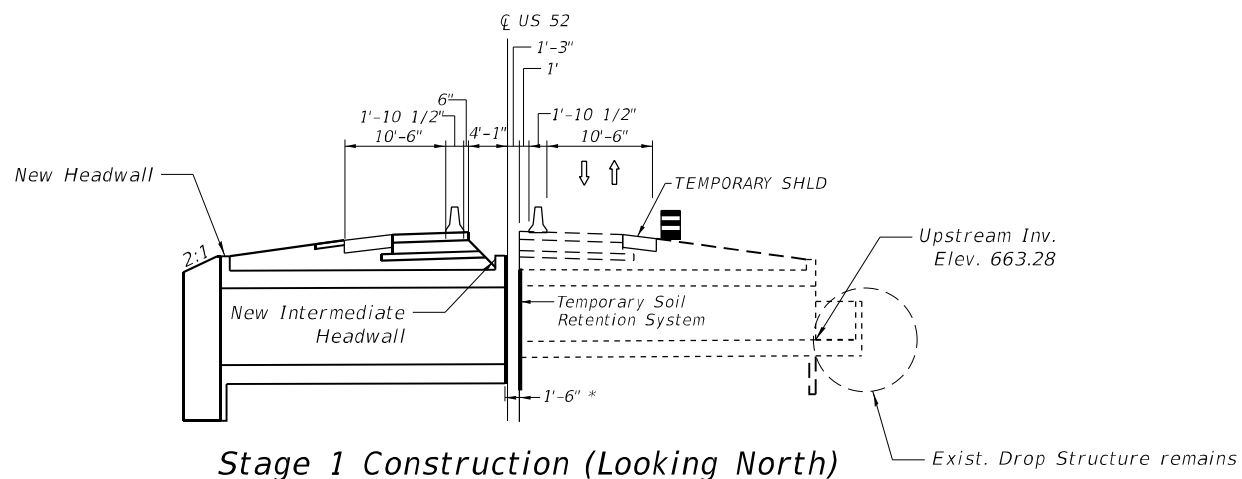
GENERAL NOTES - CULVERT - SN 099-8326
US 52 OVER DITCH NORTH OF FORKED CREEK

SHEET 2 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	2020-258-CR	WILL	42	25
		CONTRACT NO. 62N28		
		ILLINOIS FED. AID PROJECT		

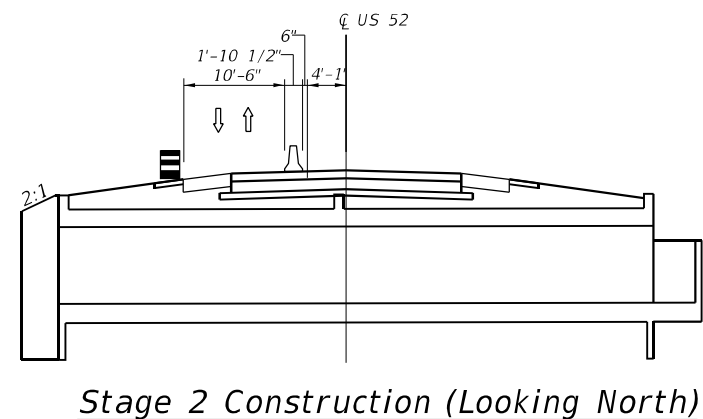
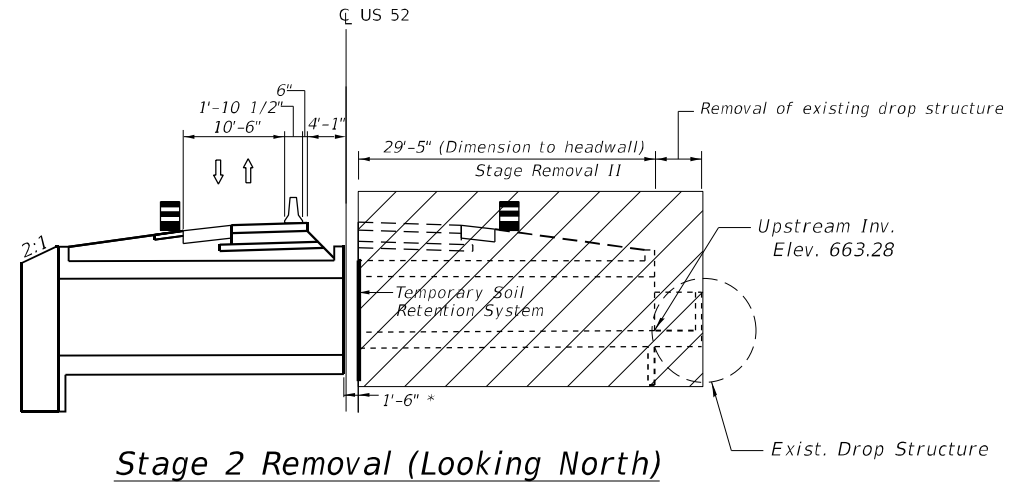


Stage 1 Removal (Looking North)

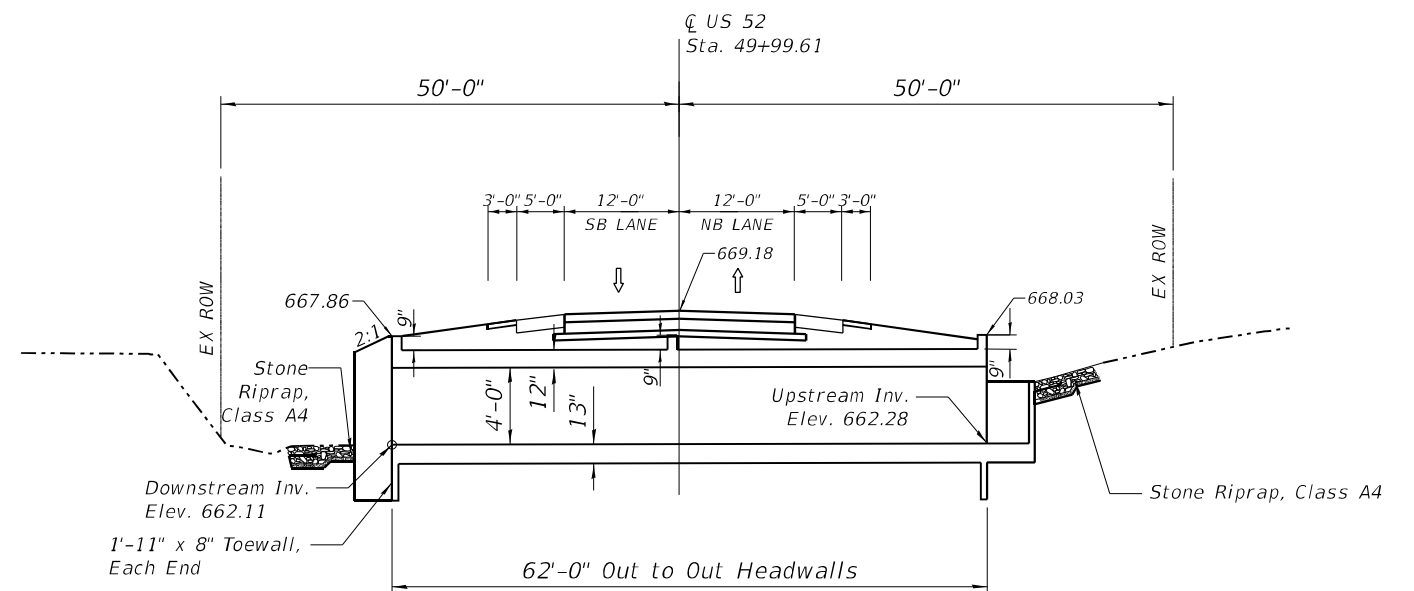


Stage 1 Construction (Looking North)

* Spacing between stage construction line and removal



Stage 2 Construction (Looking North)



Final (Looking North)

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION - CULVERT - SN 099-8326
 US 52 OVER DITCH NORTH OF FORKED CREEK**

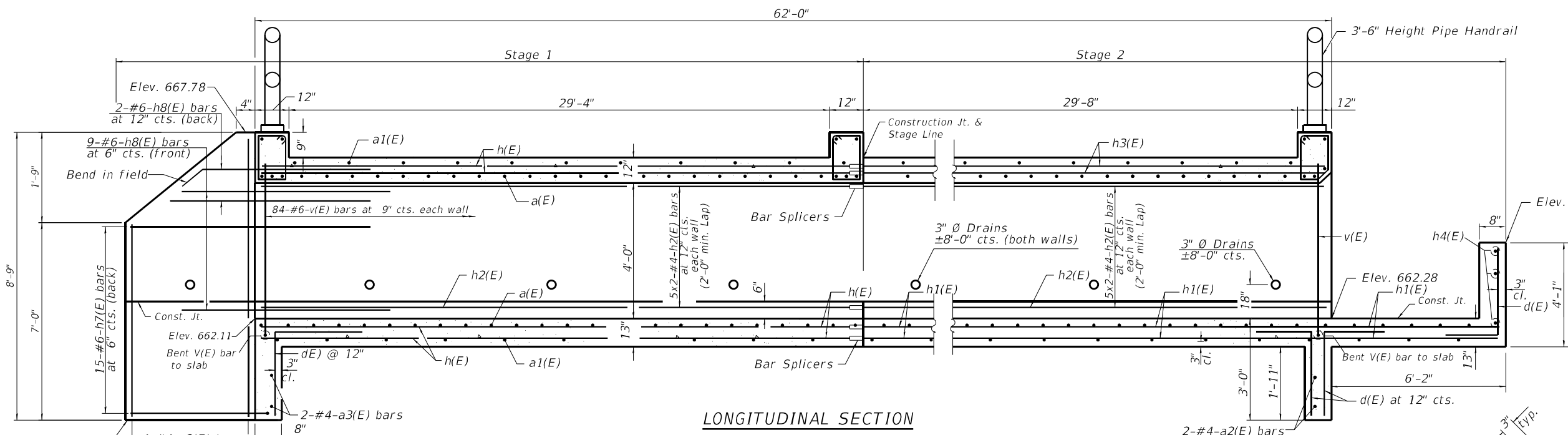
SHEET 3 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	2020-258-CR	WILL	42	26
CONTRACT NO.				62N28
ILLINOIS FED. AID PROJECT				

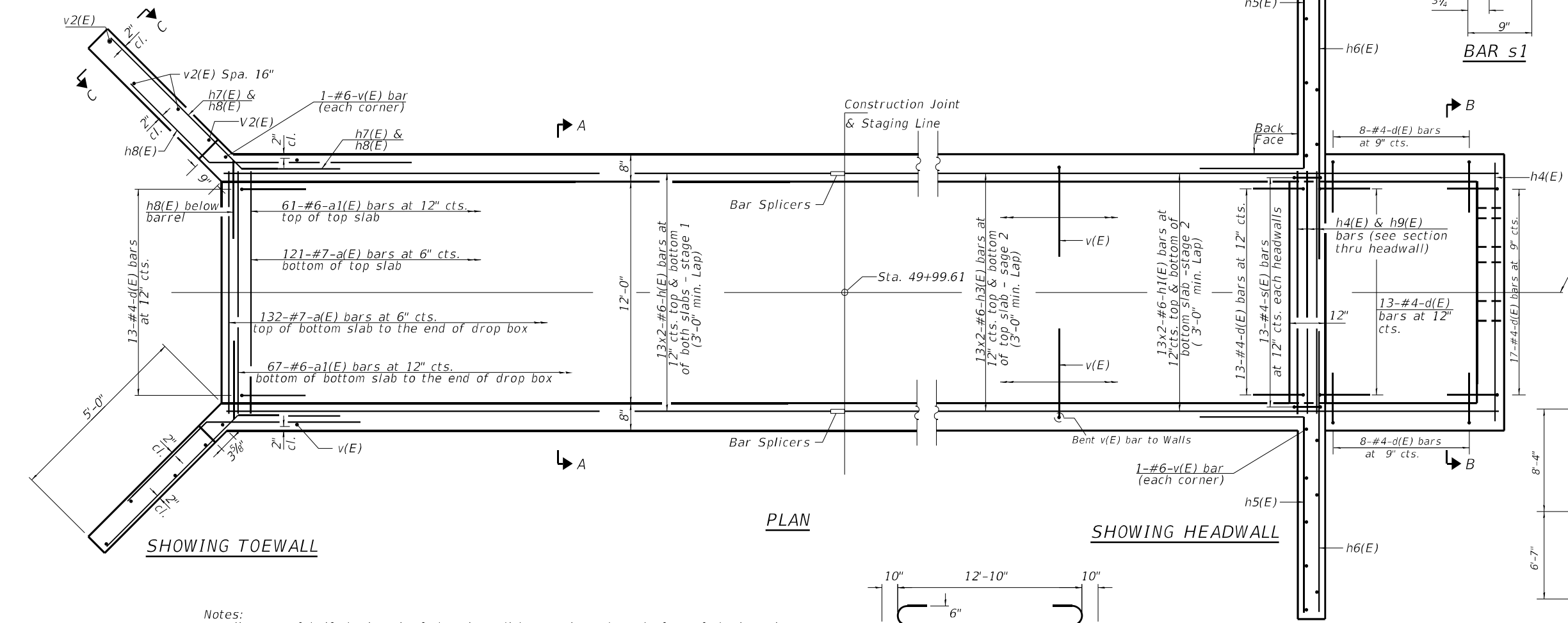
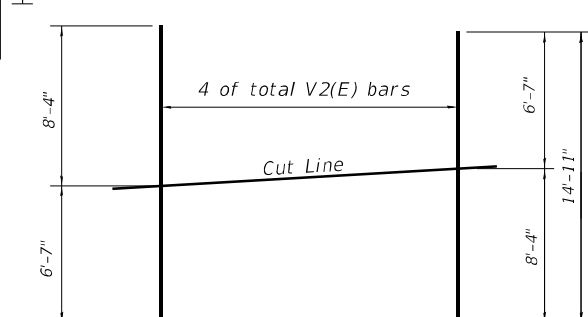
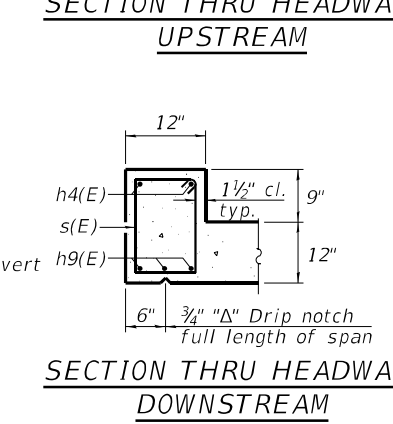
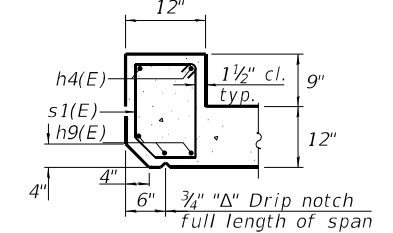
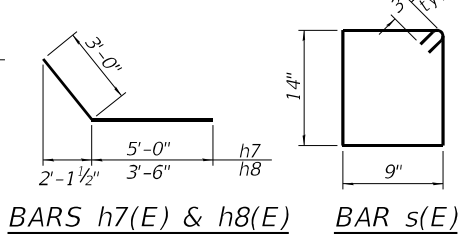
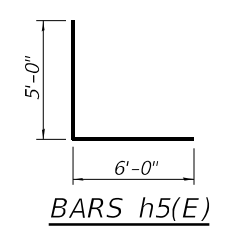
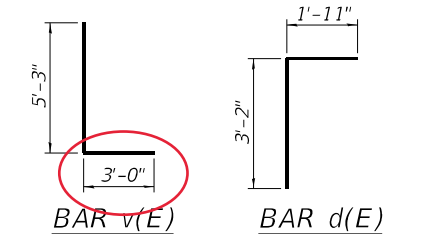
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S-3

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LONGITUDINAL SECTION



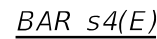
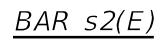
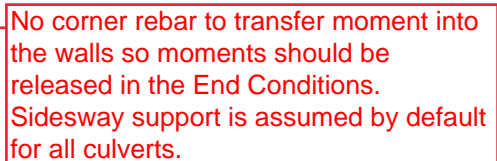
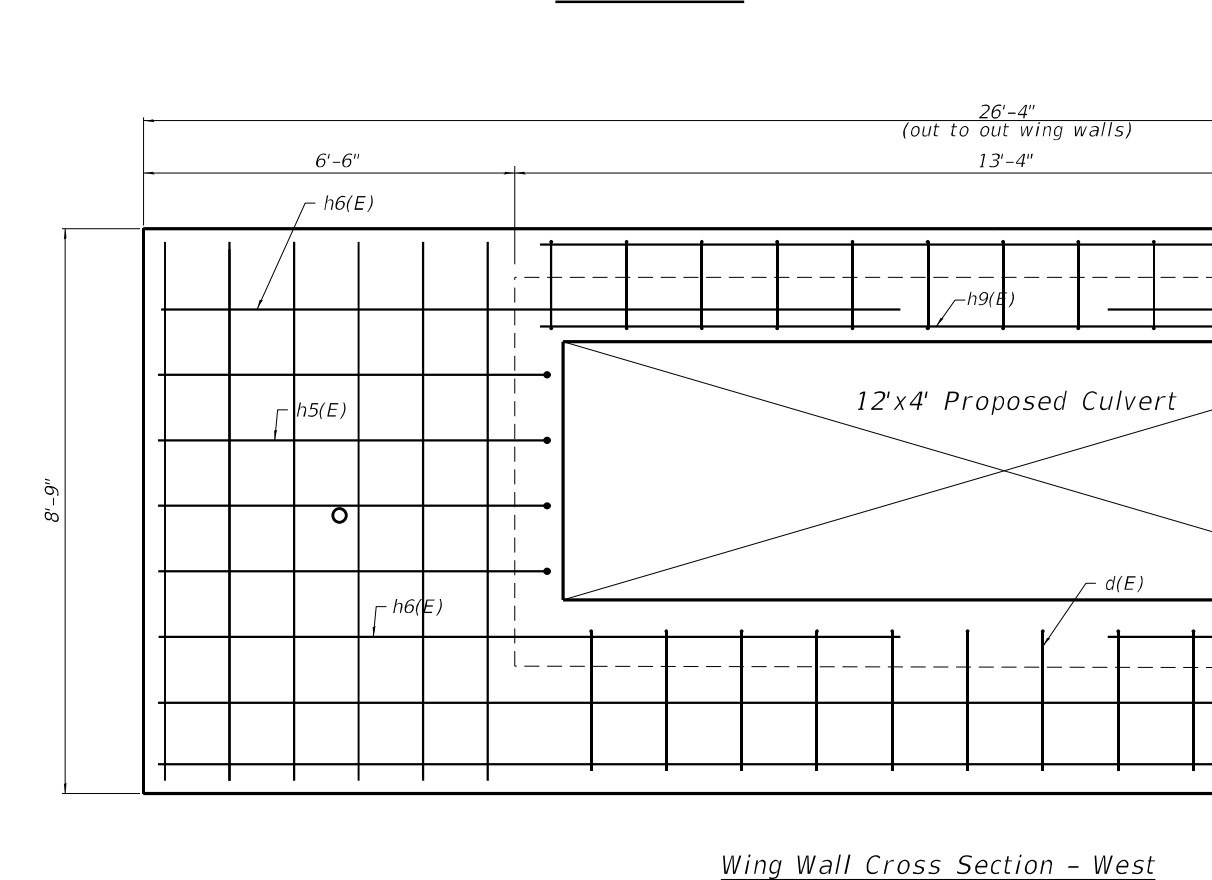
PLAN

SHOWING HEADWALL

SHOWING TOEWALL

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

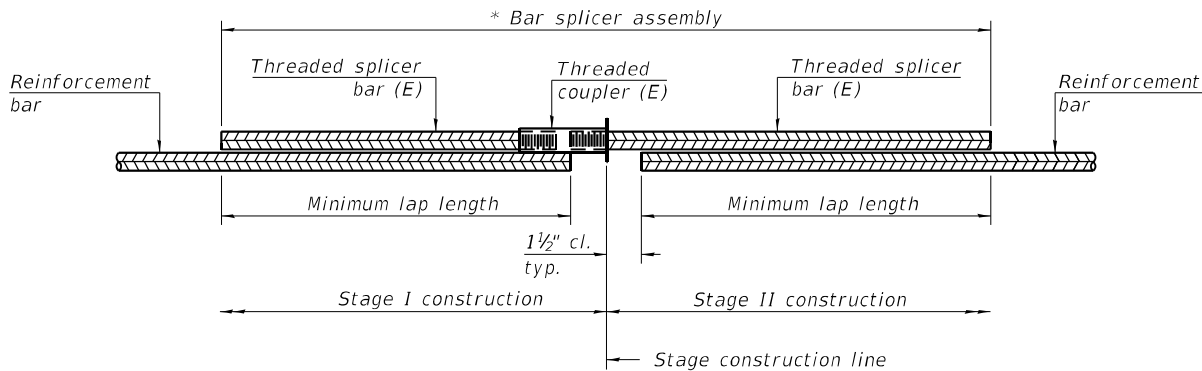
BAR a(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	257	#7	14'-6"	
a1(E)	128	#6	12'-8"	
a2(E)	2	#4	26'-0"	
a3(E)	2	#4	12'-6"	
d(E)	72	#4	5'-1"	
h(E)	104	#6	17'-0"	
h1(E)	52	#6	19'-8"	
h2(E)	40	#4	16'-6"	
h3(E)	52	#6	17'-2"	
h4(E)	9	#6	12'-6"	
h5(E)	8	#6	11'-0"	
h6(E)	4	#6	10'-0"	
h7(E)	30	#6	9'-6"	
h8(E)	22	#6	8'-0"	
h9(E)	9	#6	12'-6"	
s(E)	26	#4	4'-4"	
s1(E)	13	#4	4'-2"	
s2(E)	4	#4	3'-0"	
s3(E)	4	#4	3'-6"	
s4(E)	4	#4	4'-0"	
v(E)	168	#6	8'-3"	
v1(E)	12	#4	8'-4"	
v2(E)	4	#4	14'-11"	
Concrete Box Culverts			Cu. Yd.	
Reinforcement Bars			Pound	20,500

Note: Bars indicate thus 13x2-#5 etc indicates 13 lines of bars with 2 lengths per line.

MODEL: Default
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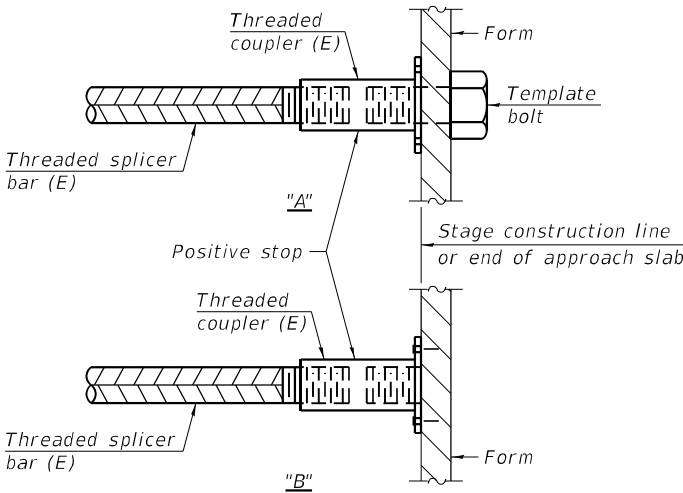


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

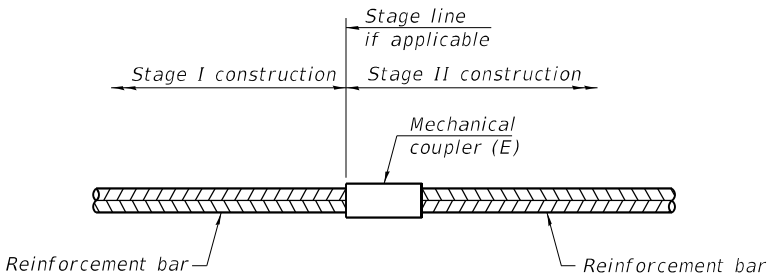
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bottom Slab	#6	26	3'-0"
Top Slab	#6	26	3'-0"
Sidewalls	#4	10	2'-0"



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

BSD-1

1-1-2020



USER NAME	=	atiemann
PLOT SCALE	=	2.0000 ' / in.
PLOT DATE	=	11/15/2021

DESIGNED	-	AS
CHECKED	-	AJN
DRAWN	-	AHT
CHECKED	-	AJN

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS - CULVERT - SN 099-8326
US 52 OVER DITCH NORTH OF FORKED CREEK

SHEET 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	2020-258-CR	WILL	42	30
CONTRACT NO.				62N28
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Page 1 of 1

Date 3/15/21

ROUTE US ROUTE 52 DESCRIPTION US 52 Box Culvert - Ditch over Forked Creek LOGGED BY Eric Slusser

SECTION LOCATION North of Culvert, west side of US 52

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. SN 099-8326	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. B-01	T	W	Qu	S	Groundwater Elev.: _____	H	S		T
Station _____	H	S			First Encounter 655.5 ft ▼				
Offset _____					Upon Completion 655.5 ft ▽	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. 667.50 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft				
Very Stiff, black, brown and gray CLAY LOAM FILL, trace to little large to fine gravel, Moist	4			15.8	WEATHERED BEDROCK (continued) 646.50				
Color change to brown, gray and black at 4.0 feet.	3				Auger refusal at 21.0 feet.				
	5	2.5			Compotent bedrock at 21.0 feet				
	6	P			EOB@ 21.0 feet				
	9				Backfill boring with soil cuttings and bentonite chips,				
Color change to brown and gray at 8.0 feet. Asphalt pieces in sample from 8.0-12.0 feet. Saturated at 12.0 feet.	7			18.1					
	5	2.7							
663.50	8	B							
	5								
Color change to black, yellowish brown and light gray at 12.0 feet.	-5			16.3		-25			
	9								
661.50	8								
Medium Dense, black SANDY LOAM FILL, trace to little large to fine gravel, sand course to fine, Moist	2			25.3					
	2								
	3	2.4							
Very Stiff to Hard, gray and yellowish brown CLAY, trace fine gravel, Moist	3	B							
				21.0					
Stiff, gray SILTY CLAY (A-6(14), trace to little medium to fine, gravel, Moist-Wet, Sd=12.4%, Si=50.3%, Cl=37.3%, LL=35 PL=19 PI=16			1.8						
659.50		P							
	4			17.6					
Hard, gray CLAY LOAM, trace to little medium to fine gravel, Moist-Wet	4								
	5	4.9							
	6	B							
	8								
	10			16.8					
	10	5.8							
	12	B							
	4								
	-15			17.4		-35			
	7								
651.50	9	5.3							
	9	B							
Medium Dense, gray SANDY LOAM, little large to fine gravel, sand course to fine, Saturated	4			12.4					
	5								
	5								
649.50									
WEATHERED BEDROCK	50/3"								
	-20					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

Page 1 of 1

Date 3/15/21

ROUTE US ROUTE 52 DESCRIPTION US 52 Box Culvert - Ditch over Forked Creek LOGGED BY Eric Slusser

SECTION LOCATION North of Culvert, east side of US 52

COUNTY Will County DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. SN 099-8326	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. B-02	T	W	Qu	S	Groundwater Elev.: _____	H	S		T
Station _____	H	S			First Encounter 656.0 ft ▼				
Offset _____					Upon Completion 656.0 ft ▽	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. 666.00 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft				
Loose, black CRUSHED ASPHALT (grindings) 665.00	5			15.8	WEATHERED BEDROCK (continued) 645.50				
	4				Auger refusal at 20.5 feet.				
Very Stiff, black and yellowish brown CLAY LOAM FILL, little large to fine gravel, Moist 664.00	5				Compotent bedrock at 20.5 feet.				
	6				EOB @ 20.5 feet				
Very Stiff, black TOPSOIL (buried)	4				Backfill boring with soil cutting and bentonite chips				
	5			26.9					
	5	2.5							
	8	P							
	4								
	5			34.7		-25			
660.80	-5	6	2.5						
	5	P							
Soft to Very Stiff, yellowish brown and gray SILTY CLAY (A-7(19)), trace fine gravel, Moist				26.5					
			1.0						
Color change to brown, gray and black at 6.0 feet. Shelby tube 6.0-8.0 feet. Sd=14.8%, Si=48.4%, Cl=36.8% LL=41 PL=20 PI=21			P						
	3								
	3			20.3					
	2	2.4							
	3	B							
656.00	-10	8				-30			
Hard, yellowish brown and gray CLAY LOAM, trace to little medium to fine gravel, Moist	1			16.4					
	10	8.7							
	12	B							
	10								
	14			17.2					
	5	9.2							
652.00	6	B							
Very stiff gray CLAY, trace fine gravel, Moist	4			19.1		-35			
	-15	5							
	7	2.4							
650.00	6	B							
Hard, gray CLAY LOAM, trace to little medium to fine gravel Moist	4			20.1					
	6								
	13	4.9							
	19	B							
648.00									
WEATHERED BEDROCK	50/5"								
	-20					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB_195-016 Phase II Var Van\Engineering\WO_06 - US 52 Culvert\500 Drawings\502 CADD Sheets\ID162N28-Borings.dgn
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