

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	32	1
WHA# 1201D10		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRS-9003(162)				

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

INDEX OF SHEETS

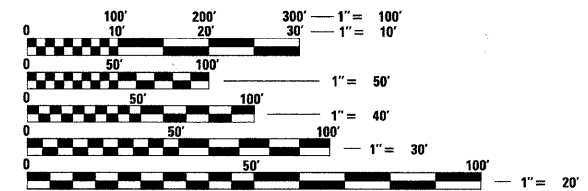
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STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
285001-02	FABRIC FORMED CONCRETE REVETMENT MATS
424001-05	CURB RAMP FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
602401-03	MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729011-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

DESIGN DESIGNATION

DESIGN SPEED: 40 MPH POSTED SPEED: 30 MPH			
FUNCTIONAL CLASSIFICATION	ROUTE	ADT (2031)	% TRUCKS
COLLECTOR	BARNEY DRIVE	5440	8



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

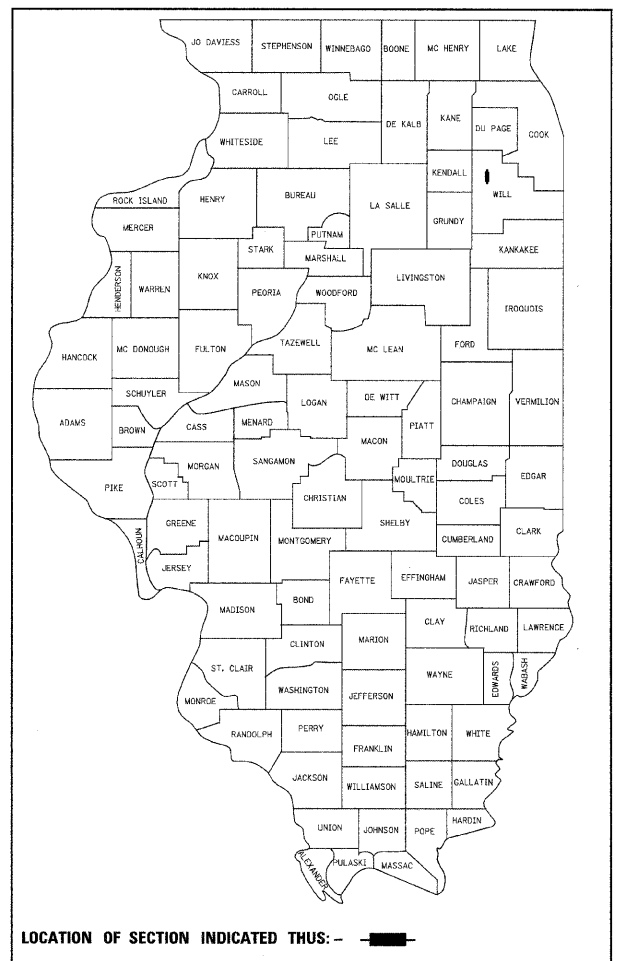
CONTRACT NO. 63571

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

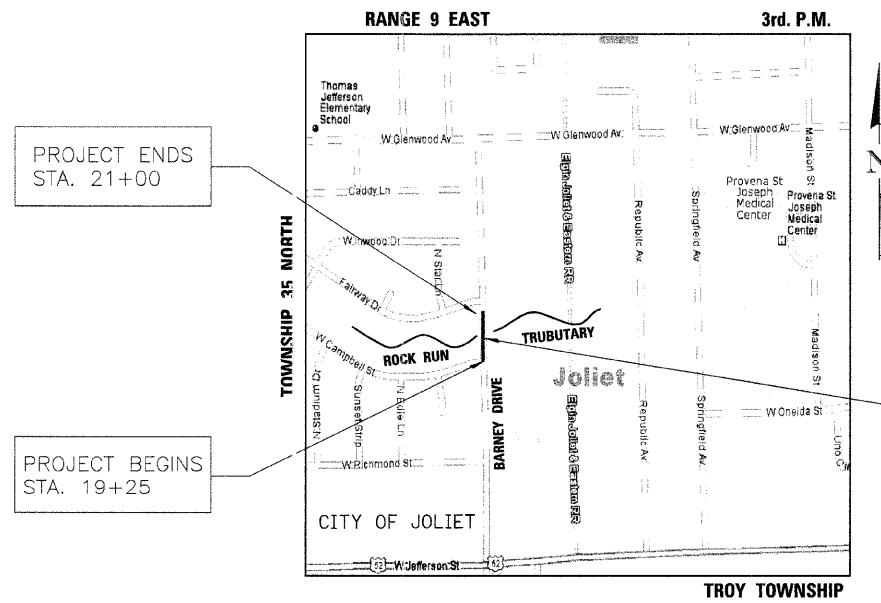
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A.U. ROUTE 0330 (BARNEY DRIVE)
OVER ROCK RUN TRIBUTARY NO. 3
BRIDGE REPLACEMENT
SECTION 08-00413-00-BR
PROJECT NO. BRS-9003(162)
COUNTY OF WILL
CITY OF JOLIET

C-91-174-09



LOCATION MAP



PROJECT ENDS
STA. 21+00

PROJECT BEGINS
STA. 19+25

PROPOSED STRUCTURE
S.N. 099-6474 DOUBLE BARREL
(10'-0" X 5'-6") REINFORCED
CONCRETE BOX CULVERT
AT STATION 20+00. SKEWED 35'
RIGHT AHEAD

GROSS LENGTH = 175 FT. = 0.03 MILE
NET LENGTH = 175 FT. = 0.03 MILE

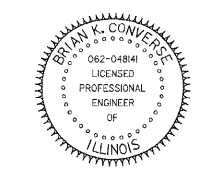
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: 3/22/11 2011
James J. Jans
CITY OF JOLIET, DIRECTOR OF PUBLIC WORKS

PASSED: APRIL 11 2011
Chet Chasinski
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: APRIL 11, 2011
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION I ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



Brian K. Conner
DATE: March 24, 2011
EXPIRES 11/30/11



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Design Firm #184-000918
www.willetthofmann.com

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GENERAL NOTES

GENERAL NOTES

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS ENCOUNTERED, UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL REMOVE ALL STRUCTURES OTHER THAN THE EXISTING TRIPLE BARREL CMP CULVERT WITHIN THE EXISTING RIGHT OF WAY AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS. COST SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

BITUMINOUS MATERIALS (PRIME COAT) SHALL BE RC-70 OR SS-1 ON BITUMINOUS AND MC-30 OR P.E.P. ON AGGREGATE AND SHALL BE APPLIED AT THE RATE OF 0.10-0.40 GALLONS PER SQUARE YARD, OR AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT SHALL BE CLEANED AND "FRESH OIL" SIGNS SHALL BE PLACED AT ALL INTERSECTIONS OF THE STREETS PRIOR TO APPLYING BITUMINOUS MATERIALS (PRIME COAT).

AGGREGATE (PRIME COAT) SHALL BE APPLIED AT THE RATE OF 3 POUNDS SQUARE YARD OR AS DIRECTED BY THE ENGINEER.

THE FINAL TOP 4" OF SOIL IN ANY AREA DISTURBED BY THE CONTRACTOR MUST BE ABLE TO SUPPORT VEGETATION.

EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING IS TO BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

ANY TEMPORARY SEEDING THAT IS DIRECTED BY THE ENGINEER SHALL BE PAID AS TEMPORARY EROSION CONTROL SEEDING.

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USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - L.G.N. CHECKED - G.F.S. DRAWN - L.G.N. CHECKED - G.F.S.	REVISED - REVISED - REVISED - REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN STATION 20+00	GENERAL NOTES STRUCTURE NO. 099-6474	F.A.J. RTE. 0330	SECTION 08-00413-00-BR WHA* 1201010	COUNTY WILL	TOTAL SHEETS 33	SHEET NO. 2	CONTRACT NO. 63571 <small>ILLINOIS FED. AID PROJECT BRM-90031621</small>
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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0011		
				ROADWAY	BOX CULVERT	UTILITIES
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	16	16		
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	16	16		
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	16	16		
20200100	EARTH EXCAVATION	CU YD	229	229		
20300100	CHANNEL EXCAVATION	CU YD	160		160	
20700220*	POROUS GRANULAR EMBANKMENT	CU YD	168		168	
20800150	TRENCH BACKFILL	CU YD	12	9		3
25100630	EROSION CONTROL BLANKET	SQ YD	1,239	1,239		
25200110	SODDING, SALT TOLERANT	SQ YD	852	852		
25200200	SUPPLEMENTAL WATERING	UNIT	26	26		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100		
28000400	PERIMETER EROSION BARRIER	FOOT	370	370		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SQ YD	64		64	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	393	393		
40600300	AGGREGATE (PRIME COAT)	TON	2	2		
40701866	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/4"	SQ YD	656	656		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,843	1,843		
42400800	DETECTABLE WARNINGS	SQ FT	24	24		
44000100	PAVEMENT REMOVAL	SQ YD	656	656		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	350	350		
44000600	SIDEWALK REMOVAL	SQ FT	1,819	1,819		
50100100*	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	33,480		33,480	
50800515	BAR SPLICERS	EACH	140		140	
50900105+	ALUMINUM RAILING, TYPE L	FOOT	50		50	
50901760+	PIPE HANDRAIL	FOOT	95		95	
51500100	NAME PLATES	EACH	1		1	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0011		
				ROADWAY	BOX CULVERT	UTILITIES
54003000*	CONCRETE BOX CULVERTS	CU YD	200.8		200.8	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	38	38		
55100500	STORM SEWER REMOVAL 12"	FOOT	40	40		
55100700	STORM SEWER REMOVAL 15"	FOOT	40	40		
55100900	STORM SEWER REMOVAL 18"	FOOT	19	19		
56103900**	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 8"	FOOT	133			133
56105000**	WATER VALVES 8"	EACH	1			1
56400820**	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1			1
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3		
60248700**	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1
60500040	REMOVING MANHOLES	EACH	1	1		
60500060	REMOVING INLETS	EACH	2	2		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	350	350		
67100100	MOBILIZATION	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		
72000100	SIGN PANEL - TYPE 1	SQ FT	8.25	8.25		
72900100	METAL POST - TYPE A	FOOT	12	12		
78001110+	PAINT PAVEMENT MARKING - LINE 4"	FOOT	328	328		
78001130+	PAINT PAVEMENT MARKING - LINE 6"	FOOT	68	68		
K1005421*	SEEDING (SPECIAL)	ACRE	0.08	0.08		
X6024240*	INLETS, SPECIAL	EACH	2	2		
X7010216*	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Z0001050*	AGGREGATE SUBGRADE 12"	SQ YD	736	736		
Z0056610*	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	53	53		
Z0056612*	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	18	18		
Z0067500**	STEEL CASINGS 16"	FOOT	70			70

* Special Provision
+ Specialty Item

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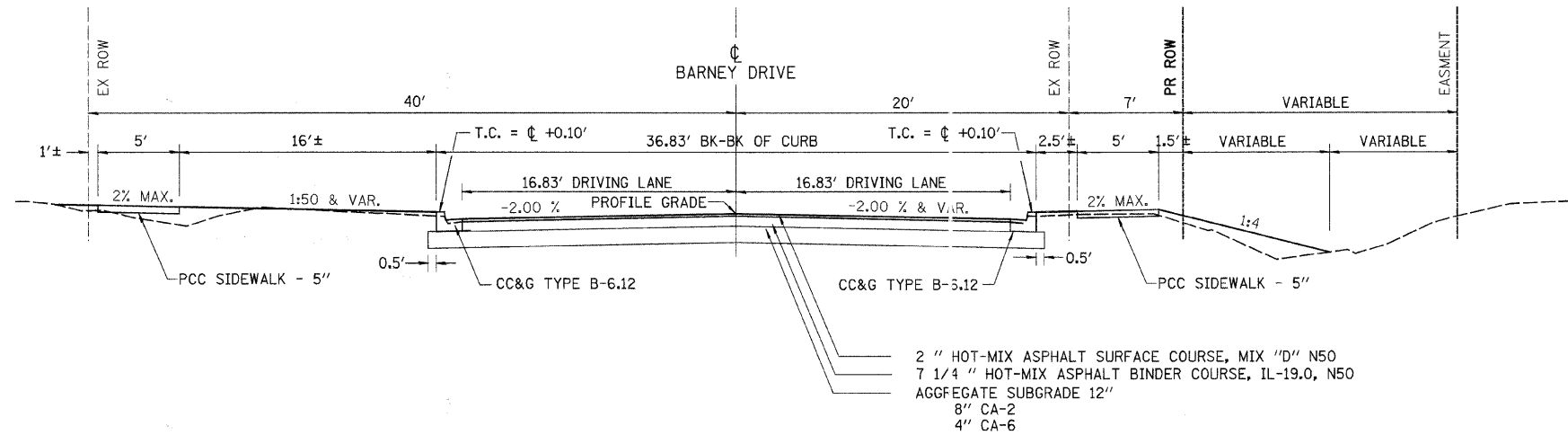
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00**

**SUMMARY OF QUANTITIES
STRUCTURE NO. 099-6474**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	3
WHA* 1201010		CONTRACT NO. 63571		
<small>ILLINOIS FED. AID PROJECT BRM-90031062</small>				

TYPICAL SECTIONS



PROPOSED TYPICAL SECTION
19+25.00 TO 21+00.00, BARNEY DRIVE

PAVEMENT STRUCTURAL DESIGN
BARNEY DRIVE

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2021
CLASS II STREET
80,000* TRUCK DESIGN

P.V. 4,106
S.U. 268
M.U. 89 } 4,463 ADT

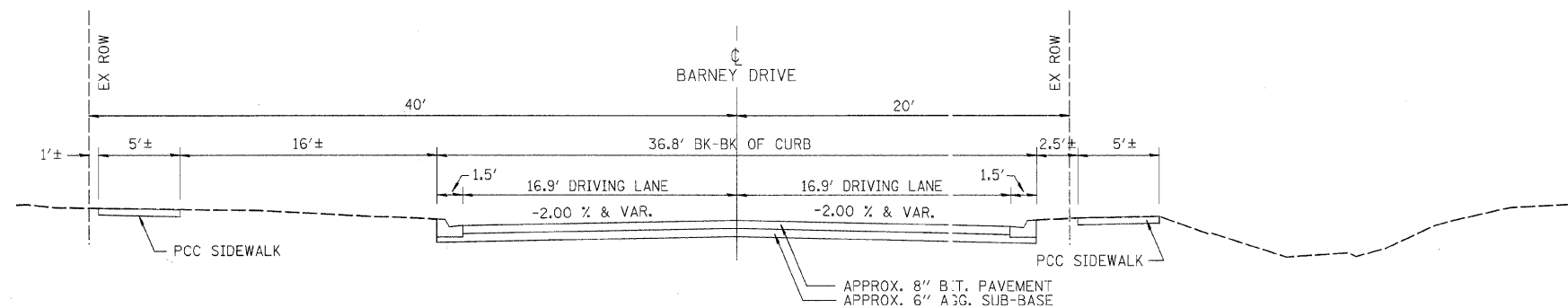
E_{RI} : (ASSUMED) 2 ksi
TF = 0.65
HMA MIX TEMP. 78°F
HMA E_{AC} = 600 ksi
HMA DESIGN STRAIN 120 microstrain

USE
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
7 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
12" AGGREGATE BASE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 7 1/4" (IN 3 LIFTS)	4% @ 50 Gyr.

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG-70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



EXISTING TYPICAL SECTION
19+25.00 TO 21+00.00, BARNEY DRIVE

JOLIET - BARNEY DRIVE - HORIZONTAL CONTROL POINTS					
POINT #	STATION	O/S	NORTH	EAST	DESCRIPTION
1	18+44.25	24.04'	1,769,872.77	1,036,314.96	5/8" IRON PIN
2	19+53.76	-23.39'	1,769,980.70	1,036,264.01	CHIS. "X"
3	21+97.01	23.54'	1,770,225.33	1,036,303.05	5/8" IRON PIN

JOLIET - BARNEY DRIVE - VERTICAL BENCH MARKS				
STATION	O/S	ROAD	ELEV.	DESCRIPTION
17+86.76	-54.21'	BARNEY	634.68	"0" IN OPEN ON FH @ NW COR. OF BARNEY DR. & CAMPBELL ST.
21+18.97	-61.43'	BARNEY	633.10	"0" IN OPEN ON FH @ SW COR. OF BARNEY DR. & FAIRWAY DR.

DATUM: NAD83 1997, ILLINOIS STATE PLANE EAST 1201

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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00

TYPICAL SECTIONS & GENERAL NOTES
STRUCTURE NO. 099-6474

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	4
WHA# 1201D10		CONTRACT NO. 63571		
[ILLINOIS] FED. AID PROJECT BRN-9003(162)				

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
BARNEY DRIVE STA. 19+25.00 TO 21+00.00	229	172	44	128

NITROGEN FERTILIZER NUTRIENT

STATION	POUND	REMARKS
BARNEY DRIVE		
LT 19+25 TO 19+44	1	0.01 ACRE @ 90 LB / ACRE
LT 19+25 TO 21+00	6	0.06 ACRE @ 90 LB / ACRE
RT 19+25 TO 21+00	1	0.01 ACRE @ 90 LB / ACRE
RT 20+00	6	0.07 ACRE @ 90 LB / ACRE
RT 20+50	2	0.02 ACRE @ 90 LB / ACRE
PROJECT TOTAL	16	

PHOSPHORUS FERTILIZER NUTRIENT

STATION	POUND	REMARKS
BARNEY DRIVE		
LT 19+25 TO 19+44	1	0.01 ACRE @ 90 LB / ACRE
LT 19+25 TO 21+00	6	0.06 ACRE @ 90 LB / ACRE
RT 19+25 TO 21+00	1	0.01 ACRE @ 90 LB / ACRE
RT 20+00	6	0.07 ACRE @ 90 LB / ACRE
RT 20+50	2	0.02 ACRE @ 90 LB / ACRE
PROJECT TOTAL	16	

POTASSIUM FERTILIZER NUTRIENT

STATION	POUND	REMARKS
BARNEY DRIVE		
LT 19+25 TO 19+44	1	0.01 ACRE @ 90 LB / ACRE
LT 19+25 TO 21+00	6	0.06 ACRE @ 90 LB / ACRE
RT 19+25 TO 21+00	1	0.01 ACRE @ 90 LB / ACRE
RT 20+00	6	0.07 ACRE @ 90 LB / ACRE
RT 20+50	2	0.02 ACRE @ 90 LB / ACRE
PROJECT TOTAL	16	

TRENCH BACKFILL

STATION	CU YD	REMARKS
BARNEY DRIVE		
RT TO LT 20+34	5	PIPE REMOVAL
RT TO LT 20+38	4	PIPE-4
LT 19+60 TO 19+97	3	WATERMAIN
PROJECT TOTAL	12	

EROSION CONTROL BLANKET

STATION	SQ YD	REMARKS
BARNEY DRIVE		
LT 19+25 TO 19+44	40	
LT 19+25 TO 21+00	310	
RT 19+25 TO 21+00	50	
RT 20+00	341	
RT 20+25	387	
RT 20+50	111	
PROJECT TOTAL	1,239	

SODDING, SALT TOLERANT

STATION	SQ YD	REMARKS
BARNEY DRIVE		
LT 19+25 TO 19+44	40	
LT 19+25 TO 21+00	310	
RT 19+25 TO 21+00	50	
RT 20+00	341	
RT 20+50	111	
PROJECT TOTAL	852	

SUPPLEMENTAL WATERING

STATION	UNIT	REMARKS
BARNEY DRIVE		
CONTINGENCY ITEM	26	10 APPLICATIONS @ 3 GAL/SQ YD
PROJECT TOTAL	26	

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
BARNEY DRIVE		
LT 19+25 TO 21+00	50	
RT 19+25 TO 21+00	50	
PROJECT TOTAL	100	

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+40	45	
LT 20+00	60	
RT 20+13	145	
RT 20+38	120	
PROJECT TOTAL	370	

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
BARNEY DRIVE		
RT & LT 20+38	2	S-1 AND S-2
PROJECT TOTAL	2	

BITUMINOUS MATERIALS (PRIME COAT)

STATION	GALLON	REMARKS
BARNEY DRIVE		
19+25 TO 21+00	262	1 APPL @ .4 GAL/SY ON AGG
19+25 TO 21+00	131	2 APPL @ .1 GAL/SY ON BIT
PROJECT TOTAL	393	

AGGREGATE (PRIME COAT)

STATION	TON	REMARKS
BARNEY DRIVE		
19+25 TO 21+00	2	2 APPL @ 3 LBS/SY
PROJECT TOTAL	2	

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/4"

STATION	SQ YD	REMARKS
BARNEY DRIVE		
19+25 TO 21+00	656	7 1/4" BINDER & 2" SURFACE
PROJECT TOTAL	656	

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STATION	SQ FT	REMARKS
BARNEY DRIVE		
RT 19+25 TO 21+00	875	
LT 19+25 TO 21+00	875	
RT 20+93	13	CROSSWALK RAMP
LT 20+93	80	CROSSWALK RAMP
PROJECT TOTAL	1,843	

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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00**

**SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-6474**

SHEET NO. 1 OF 3 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	5
WHA* 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				

SCHEDULE OF QUANTITIES

DETECTABLE WARNINGS		
STATION	SQ FT	REMARKS
BARNEY DRIVE		
19+26 RT 24'	8	2' X 4'
RT 20+93	8	2' X 4'
LT 20+93	8	2' X 4'
PROJECT TOTAL	24	
42400800		

STORM SEWER REMOVAL 12"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
RT TO LT 20+34	34	
LT 20+34	6	
PROJECT TOTAL	40	
55100300		

MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	EACH	REMARKS
BARNEY DRIVE		
19+44 LT 27'	1	
20+10 LT 25'	1	
20+38 LT 25'	1	
PROJECT TOTAL	3	
60218400		

PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
BARNEY DRIVE		
19+25 TO 21+00	656	
PROJECT TOTAL	656	
44000100		

STORM SEWER REMOVAL 15"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+97 TO 20+36	40	
PROJECT TOTAL	40	
55100700		

VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	EACH	REMARKS
BARNEY DRIVE		
20+57 LT 28'	1	
PROJECT TOTAL	1	
60248700*		

COMBINATION CURB AND GUTTER REMOVAL		
STATION	FOOT	REMARKS
BARNEY DRIVE		
RT 19+25 TO 21+00	175	
LT 19+25 TO 21+00	175	
PROJECT TOTAL	350	
44000500		

STORM SEWER REMOVAL 18"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+42 TO 19+60	19	
PROJECT TOTAL	19	
55100300		

REMOVING MANHOLES		
STATION	EACH	REMARKS
BARNEY DRIVE		
LT 20+37	1	
PROJECT TOTAL	1	
60500040		

SIDEWALK REMOVAL		
STATION	SQ FT	REMARKS
BARNEY DRIVE		
RT 19+25 TO 21+00	890	
LT 19+25 TO 21+00	930	
PROJECT TOTAL	1,819	
44000600		

DUCTILE IRON WATER MAIN, MECHANICAL JOINT 8"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+26 TO 20+57	133	
PROJECT TOTAL	133	
56103300*		

REMOVING INLETS		
STATION	EACH	REMARKS
BARNEY DRIVE		
RT 20+33	1	
LT 20+35	1	
PROJECT TOTAL	2	
60500060		

STORM SEWERS, CLASS A, TYPE 1 12"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
RT TO LT 20+38	33	PIPE-1
LT 20+38	5	PIPE-2
PROJECT TOTAL	38	
550A0050		

WATER VALVES 8"		
STATION	EACH	REMARKS
BARNEY DRIVE		
19+26 LT 28'	1	
PROJECT TOTAL	1	
56105300*		

COMBINATION CONCRETE CURB & GUTTER, TYPE B - 6.12		
STATION	FOOT	REMARKS
BARNEY DRIVE		
RT 19+25 TO 21+00	175	
LT 19+25 TO 21+00	175	
PROJECT TOTAL	350	
606038090		

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX		
STATION	EACH	REMARKS
BARNEY DRIVE		
20+53 LT 28'	1	
PROJECT TOTAL	1	
56400820*		

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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00**

**SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-6474**

SHEET NO. 2 OF 3 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	6
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1		
STATION	SQ FT	REMARKS
BARNEY DRIVE		
20+10 LT 22'	6.25	W11-2 PEDESTRIAN SIGN 30" X 30"
20+10 LT 22'	2.00	W16-9P AHEAD PLAQUE 24" X 12"
PROJECT TOTAL	8.25	
T2000100		

INLETS, SPECIAL		
STATION	EACH	REMARKS
BARNEY DRIVE		
RT 20+38	1	S-1
LT 20+38	1	S-2
PROJECT TOTAL	2	
K602 240*		

METAL POST - TYPE A		
STATION	FOOT	REMARKS
BARNEY DRIVE		
20+10 LT 22'	12	PEDESTRIAN SIGN
PROJECT TOTAL	12	
T2900100		

AGGREGATE SUBGRADE 12"		
STATION	SQ YD	REMARKS
BARNEY DRIVE		
19+25 TO 21+00	736	
PROJECT TOTAL	736	
Z000 050*		

PAINT PAVEMENT MARKING - LINE 4"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
19+25 TO 20+89	328	CENTERLINE (OBL. YLW)
PROJECT TOTAL	328	
T8001110		

STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+85 TO 20+10	24	PIPE-3
LT 20+10 TO 20+36	29	PIPE-4
PROJECT TOTAL	53	
Z005 610*		

PAINT PAVEMENT MARKING - LINE 6"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
RT TO LT 20+92	68	CROSSWALK (WHT)
PROJECT TOTAL	68	
T8001130		

STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+45 TO 19+54	18	PIPE-5
PROJECT TOTAL	18	
Z005 612*		

SEEDING (SPECIAL)		
STATION	ACRE	REMARKS
BARNEY DRIVE		
RT 20+25	0.08	CHANNEL AREA
PROJECT TOTAL	0.08	
K1005421*		

STEEL CASINGS 16"		
STATION	FOOT	REMARKS
BARNEY DRIVE		
LT 19+42 TO 20+12	70	
PROJECT TOTAL	70	
Z006 500*		

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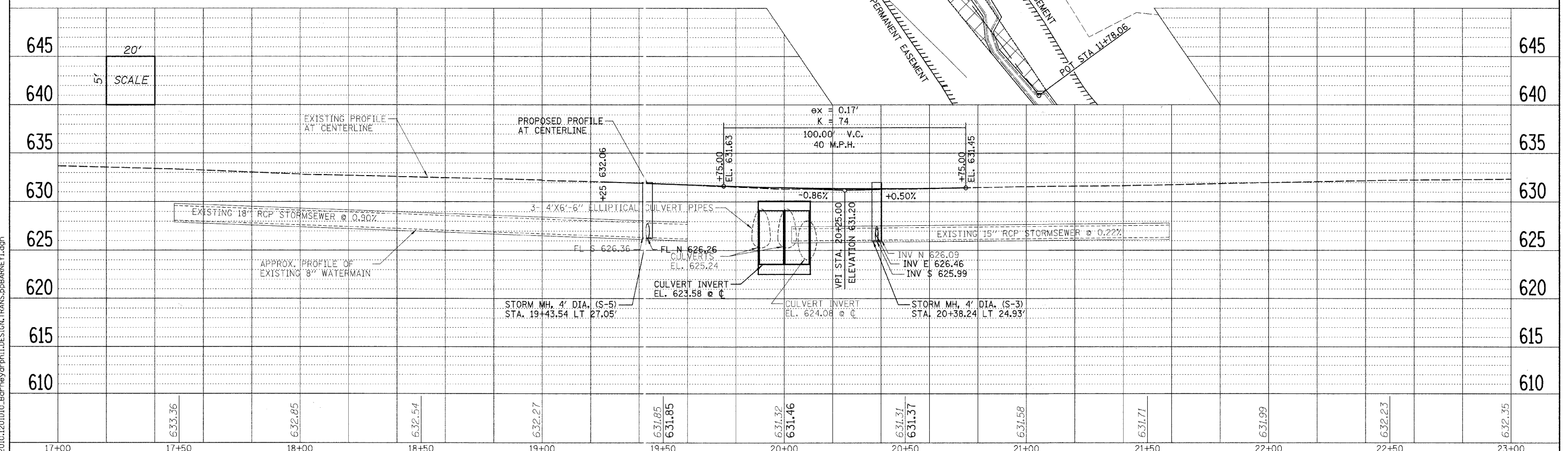
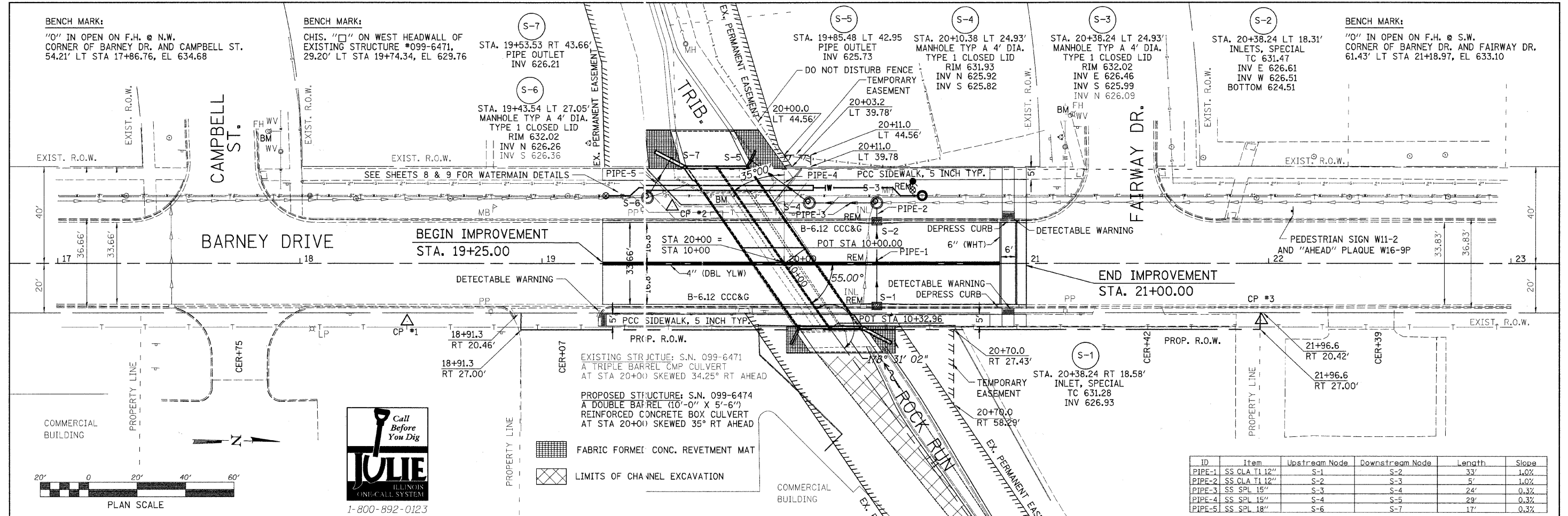
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00**

**SCHEDULE OF QUANTITIES
STRUCTURE NO. 099-6474**

SHEET NO. 3 OF 3 SHEETS

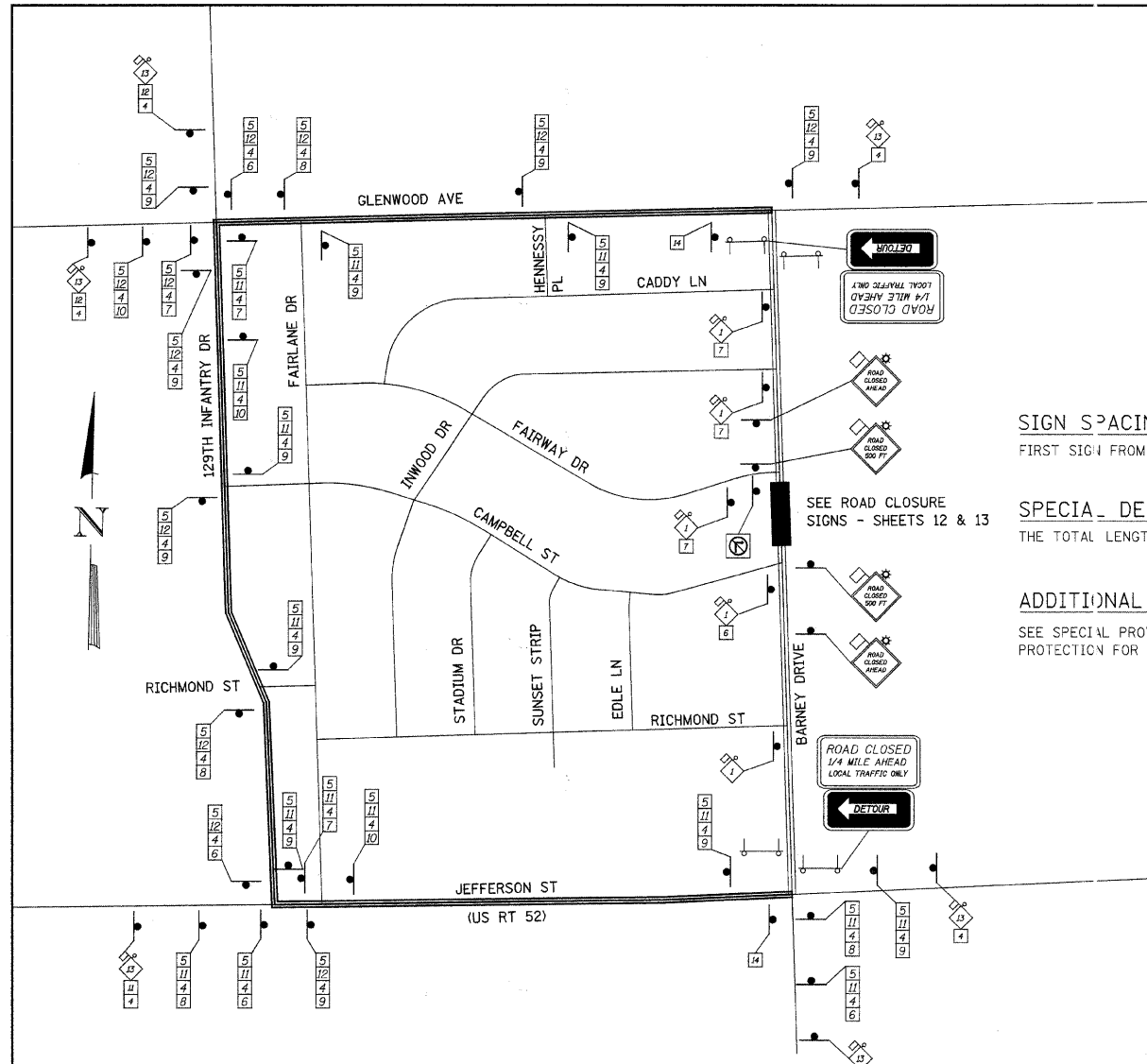
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	7
WHA# 1201010			CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-9003162				



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PLOT SCALE =	CHECKED - G.F.S.	REVISED -			0330	08-00413-00-BR	WILL	33	8
PLOT DATE =	DRAWN - L.G.N.	REVISED -			WHA# 1201D10		CONTRACT NO. 63571		
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DETOUR SIGNING



SIGN SPACING

FIRST SIGN FROM INTERSECTION 25'±.

SPECIAL DETOUR NOTES

THE TOTAL LENGTH OF THE DETOUR IS 1.3 MILES.

ADDITIONAL SIGNS

SEE SPECIAL PROVISIONS TRAFFIC CONTROL AND PROTECTION FOR ROAD CLOSED AND OTHER SIGNING REQUIREMENTS

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTIONS ADOPTED JAN. 1, 2007", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES, LATEST EDITION", THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. ENGINEER WILL CONTACT THE JOLIET POLICE DEPARTMENT (815-726-2491) AND IDOT.
- IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES FOR THE DETOUR SIGNING PRIOR TO THE START OF WORK.
- IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS. EXISTING SIGNS SHALL BE PROTECTED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- LONGITUDINAL DIMENSIONS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- THE CONTRACTOR SHALL MAKE ALL CHANGES IN SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION AND ACCEPTANCE OF THE SIGNS.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THE PLANS ARE 18" X 18".
- THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 12'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.11 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING. BRUSHING BACK VEGETATION IF DEEMED BY THE ENGINEER.
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE JOLIET POLICE DEPARTMENT (815-726-2491) AND IDOT.
- THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO PLACING ANY SIGNS OR TRAFFIC CONTROL DEVICES, INCLUDING DETOUR SIGNING.

LEGEND

- DETOUR ROUTE
- ROAD CLOSURE OPEN TO LOCAL TRAFFIC ONLY (NOT THRU)
- PROJECT LOCATION
- 36" X 36" CONSTRUCTION SIGN WITH AMBER FLASHING LIGHT AND ORANGE WARNING FLAG (OPTIONAL) NUMBER DENOTES SIGN TYPE
- TYPE III BARRICADE W/ FLASHING LIGHTS
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE

SIGN LEGEND

- ① ROAD CLOSED AHEAD W20-3, 36" X 36" WITH AMBER FLASHING LIGHTS AND FLAG. (5 REQ'D)
- ② ROAD CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a, 60" X 30" (2 REQ'D)
- ③ DETOUR M4-10, 48" X 18" (2 REQ'D)
- ④ Barney Dr ROUTE MARKER 24" X 12" (31 REQ'D)
- ⑤ DETOUR M4-8, 24" X 12" (27 REQ'D)
- ⑥ M6-1 L, 21" X 15" (4 REQ'D)
- ⑦ M6-1 R, 21" X 15" (5 REQ'D)
- ⑧ M5-1 L, 21" X 15" (4 REQ'D)
- ⑨ M6-3, 21" X 15" (13 REQ'D)
- ⑩ M5-1 R, 21" X 15" (3 REQ'D)
- ⑪ NORTH M3-1, 24" X 12" (16 REQ'D)
- ⑫ SOUTH M3-3, 24" X 12" (14 REQ'D)
- ⑬ DETOUR AHEAD W20-2, 36" X 36" WITH AMBER FLASHING LIGHTS AND FLAG. (6 REQ'D)
- ⑭ END DETOUR M4-8a, 24" X 18" (2 REQ'D)

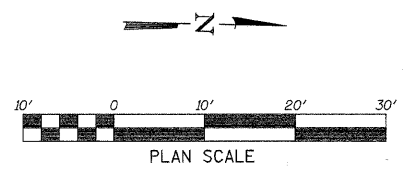
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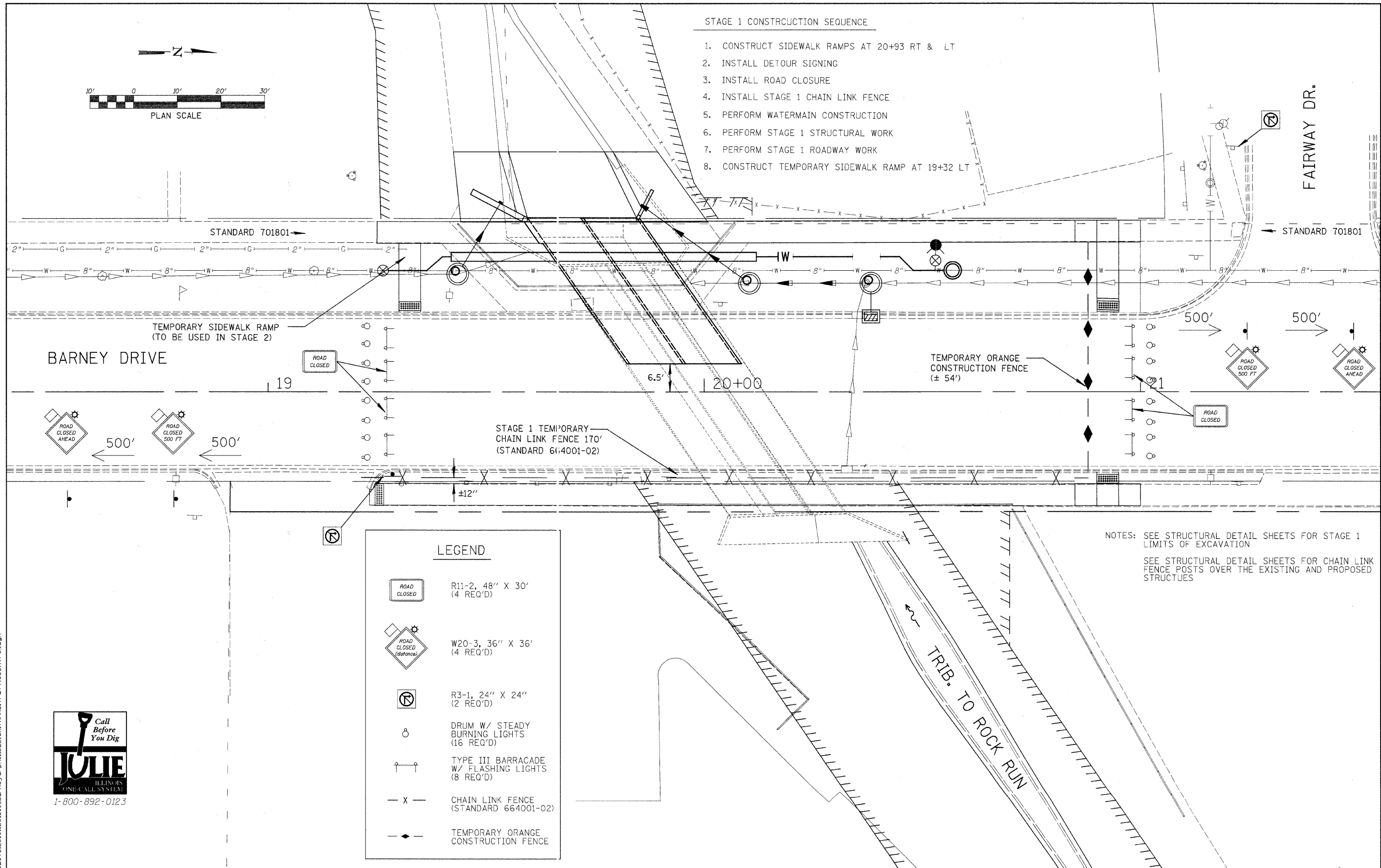
ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

DETOUR SIGNING
STRUCTURE NO. 099-6474

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	9
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-9003162				



- STAGE 1 CONSTRUCTION SEQUENCE**
1. CONSTRUCT SIDEWALK RAMPS AT 20+93 RT & LT
 2. INSTALL DETOUR SIGNING
 3. INSTALL ROAD CLOSURE
 4. INSTALL STAGE 1 CHAIN LINK FENCE
 5. PERFORM WATERMAIN CONSTRUCTION
 6. PERFORM STAGE 1 STRUCTURAL WORK
 7. PERFORM STAGE 1 ROADWAY WORK
 8. CONSTRUCT TEMPORARY SIDEWALK RAMP AT 19+32 LT



BARNEY DRIVE

FAIRWAY DR.

STAGE 1 TEMPORARY CHAIN LINK FENCE 170' (STANDARD 664001-02)

TEMPORARY ORANGE CONSTRUCTION FENCE (± 54')

TEMPORARY SIDEWALK RAMP (TO BE USED IN STAGE 2)

LEGEND

- R11-2, 48" X 30' (4 REQ'D)
- W20-3, 36" X 36' (4 REQ'D)
- R3-1, 24" X 24" (2 REQ'D)
- DRUM W/ STEADY BURNING LIGHTS (16 REQ'D)
- TYPE III BARRICADE W/ FLASHING LIGHTS (8 REQ'D)
- CHAIN LINK FENCE (STANDARD 664001-02)
- TEMPORARY ORANGE CONSTRUCTION FENCE

NOTES: SEE STRUCTURAL DETAIL SHEETS FOR STAGE 1 LIMITS OF EXCAVATION
SEE STRUCTURAL DETAIL SHEETS FOR CHAIN LINK FENCE POSTS OVER THE EXISTING AND PROPOSED STRUCTURES



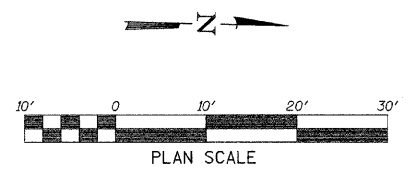
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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

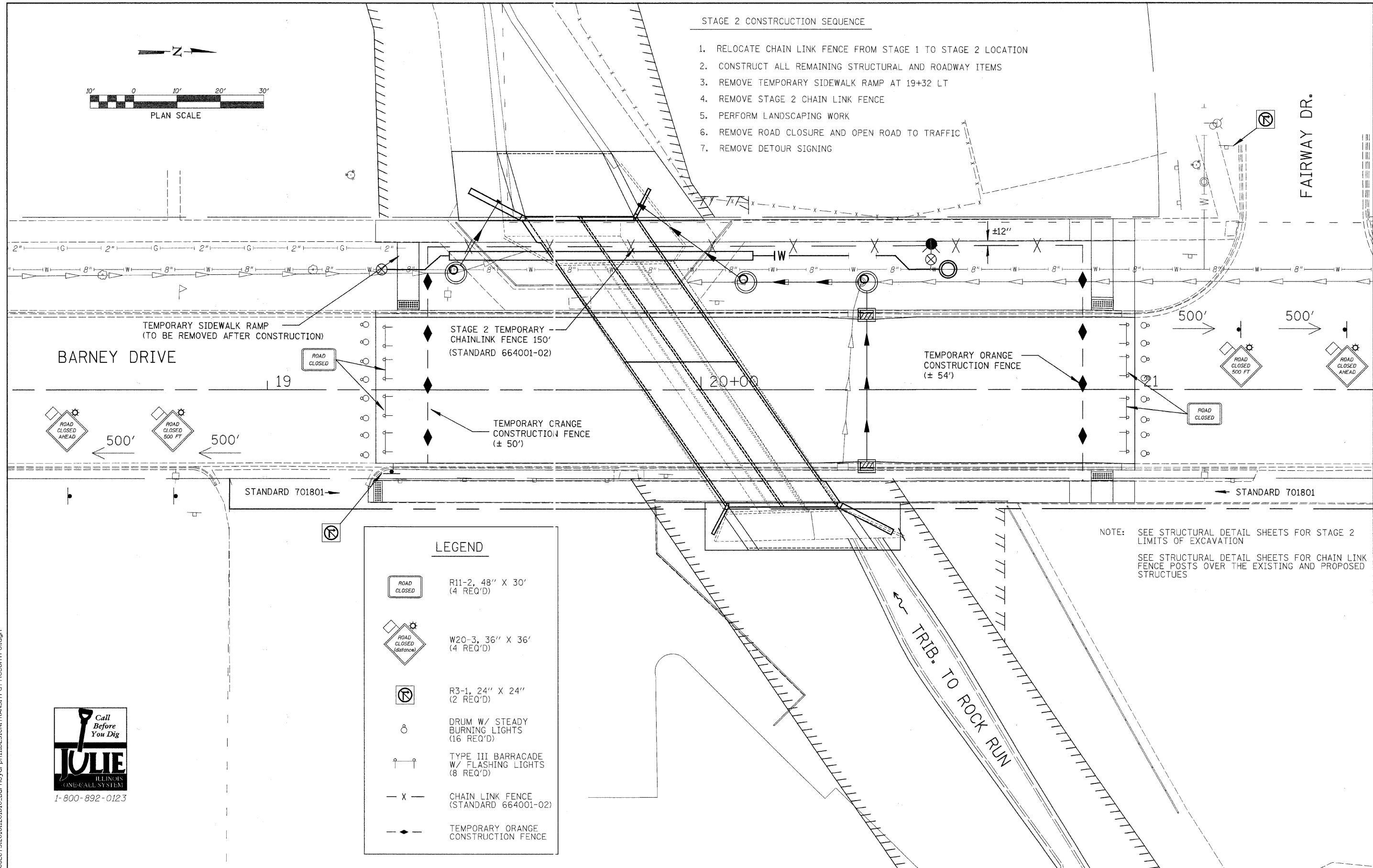
STAGE 1 PEDESTRIAN CONTROL
STRUCTURE NO. 099-6474
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	10
	WHA# 1201D10		CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-9003162				



STAGE 2 CONSTRUCTION SEQUENCE

1. RELOCATE CHAIN LINK FENCE FROM STAGE 1 TO STAGE 2 LOCATION
2. CONSTRUCT ALL REMAINING STRUCTURAL AND ROADWAY ITEMS
3. REMOVE TEMPORARY SIDEWALK RAMP AT 19+32 LT
4. REMOVE STAGE 2 CHAIN LINK FENCE
5. PERFORM LANDSCAPING WORK
6. REMOVE ROAD CLOSURE AND OPEN ROAD TO TRAFFIC
7. REMOVE DETOUR SIGNING



LEGEND

	R11-2, 48" X 30' (4 REQ'D)
	W20-3, 36" X 36' (4 REQ'D)
	R3-1, 24" X 24" (2 REQ'D)
	DRUM W/ STEADY BURNING LIGHTS (16 REQ'D)
	TYPE III BARRICADE W/ FLASHING LIGHTS (8 REQ'D)
	CHAIN LINK FENCE (STANDARD 664001-02)
	TEMPORARY ORANGE CONSTRUCTION FENCE

NOTE: SEE STRUCTURAL DETAIL SHEETS FOR STAGE 2 LIMITS OF EXCAVATION
SEE STRUCTURAL DETAIL SHEETS FOR CHAIN LINK FENCE POSTS OVER THE EXISTING AND PROPOSED STRUCTURES

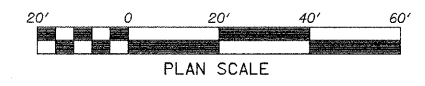
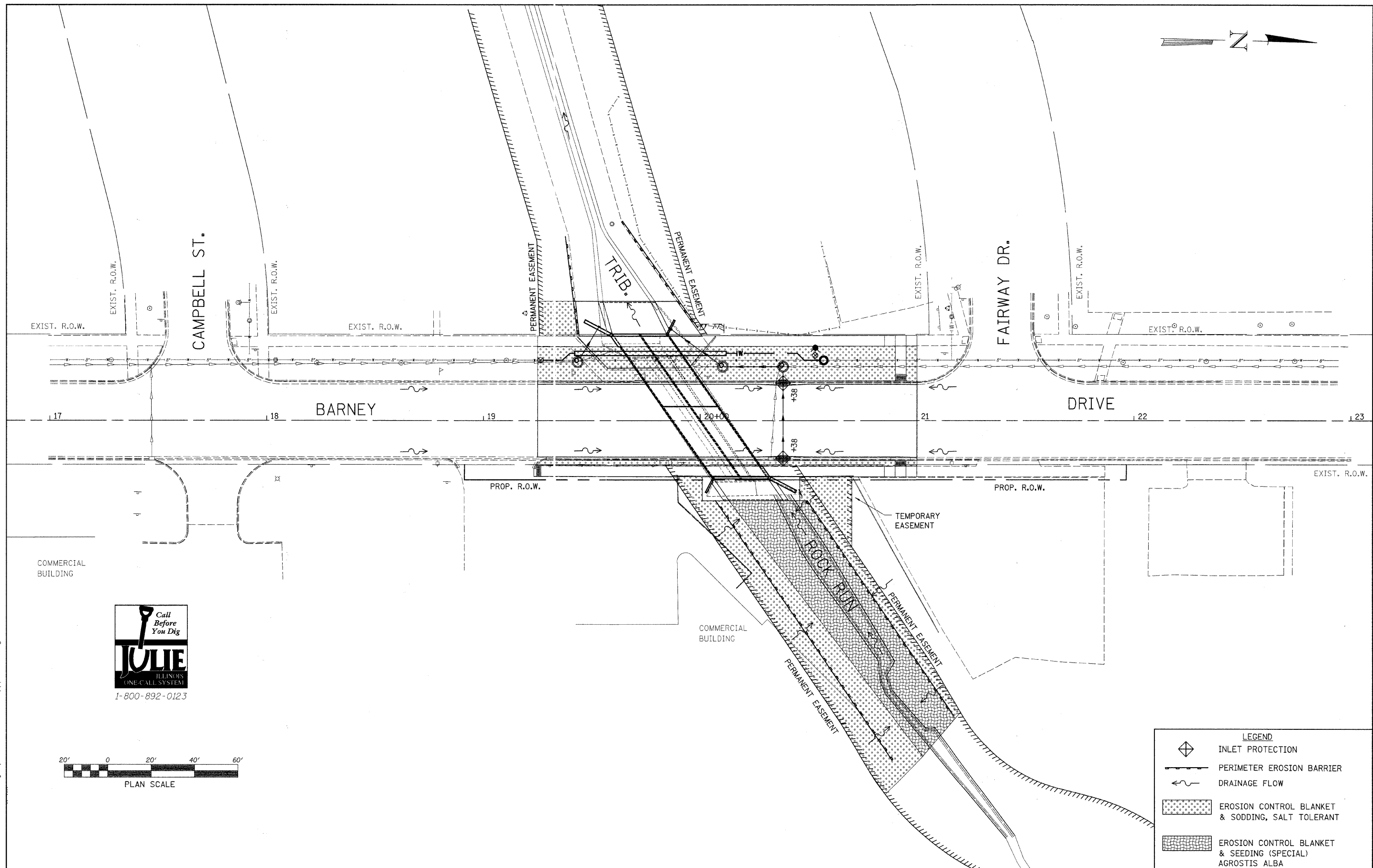
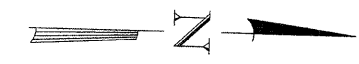
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00**

**STAGE 2 PEDESTRIAN CONTROL
STRUCTURE NO. 099-6474**
SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	11
WHA# 1201D10			CONTRACT NO. 63571	
[ILLINOIS] FED. AID PROJECT BRM-9003(162)				



LEGEND				
	INLET PROTECTION			
	PERIMETER EROSION BARRIER			
	DRAINAGE FLOW			
	EROSION CONTROL BLANKET & SODDING, SALT TOLERANT			
	EROSION CONTROL BLANKET & SEEDING (SPECIAL) AGROSTIS ALBA			

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**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20+00**

**EROSION CONTROL PLAN
 STRUCTURE NO. 099-6474**
 SHEET NO. 1 OF 2 SHEETS

F.A.J. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	12
	WHA* 1201D10		CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-9003162				

EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION:

DESCRIPTION OF CONSTRUCTION ACTIVITY: THIS PROJECT CONSISTS OF REMOVAL OF EXISTING CULVERT, CONSTRUCTION OF PROPOSED CULVERT, AND ROADWAY CONSTRUCTION

THIS PROJECT CONSISTS OF EARTH EXCAVATION, STRUCTURE EXCAVATION, CONCRETE STRUCTURES CURB AND GUTTER, NEW STORM SEWER AND INLETS, PAVEMENT ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOWS: EARTH EXCAVATION, STORM SEWER INSTALLATION, INSTALLATION OF INLET AND PIPE PROTECTION, STRUCTURE EXCAVATION, CONCRETE STRUCTURES, AGGREGATE BASE, BITUMINOUS SURFACE AND RELATED APPURTENANCES, PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 0.47 ACRES
 PROPOSED WORK PERMIT AND PERMANENT EASEMENT AREA 0.21 ACRES
 SEED AREA 0.25 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS: USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS AND THE ILLINOIS URBAN MANUAL

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE:
TRIBUTARY OF ROCK RUN

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES
 STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
PERIMETER EROSION BARRIER & INLET PROTECTION

STABILIZATION PRACTICES DURING CONSTRUCTION:

- (d) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- (b) STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER EROSION BARRIER). STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
- (c) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
- (d) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
- (e) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- (f) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
- (g) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.
- (h) ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITIES. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.
- (i) EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 1V:5H AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING
- (j) ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- (k) THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.
- (l) THE USE OF ASPHALT AS A BINDER IS NOT ACCEPTABLE.
- (m) MULCH SHALL BE PLACED OVER THE ENTIRE SEEDED REGION.
- (n) EROSION CONTROL BLANKET SHALL BE PLACED AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (o) SEE SPECIAL PROVISIONS FOR SEEDING AND SODDING.

THE CONTRACTOR SHALL CONTACT THE CORPS OF ENGINEERS WITH A PROPOSED COFFERDAM PLAN MEETING THE STANDARDS LISTED BELOW. MEANS AND METHODS FOR COMPLETING WORK WITHIN A WATERWAY MUST BE APPROVED BY THE CORPS PRIOR TO COMMENCEMENT OF WORK. THE CORPS WILL APPROVE THE COFFERDAM PLAN TO ENSURE IT MEETS EROSION AND SEDIMENT CONTROL STANDARDS. HOWEVER, IT IS INCUMBENT UPON THE CONTRACTOR TO ENSURE THAT ALL COFFERDAMS ARE CONSTRUCTED TO WITHSTAND EXPECTED FLOWS.

WORK WITHIN THE WATERWAY MUST MEET THE FOLLOWING STANDARDS:

- (a) WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- (b) WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A NON-ERODIBLE COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- (c) WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND BUFFER AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- (d) IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS OTHERWISE REQUIRED.
- (e) DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- (f) THE SIDE SLOPES SHALL BE RESEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND STABLE ENOUGH TO ACCEPT FLOWS.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND.

FILE = S:\PROJECTS\2010\1201D1010_Barnney-dr-ph11.DESIGN\TRANS\wpppBARNEY1.dgn

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	CHECKED - G.F.S.	REVISED -
PLOT SCALE =	DRAWN - L.G.N.	REVISED -
PLOT DATE =	CHECKED - G.F.S.	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20 + 00**

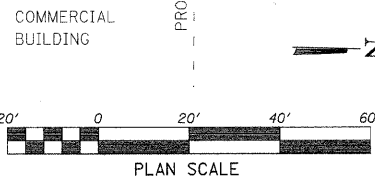
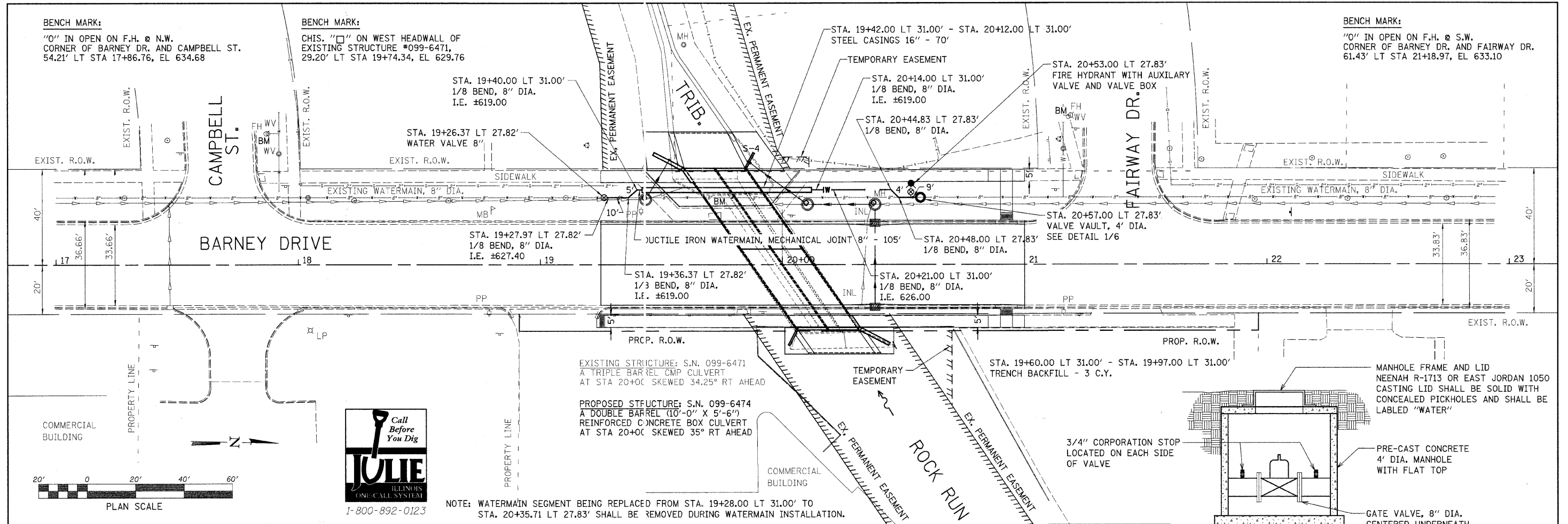
**EROSION CONTROL PLAN
 STRUCTURE NO. 099-6474**
 SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	13
CONTRACT NO. 63571			ILLINOIS FED. AID PROJECT BRM-9003162	

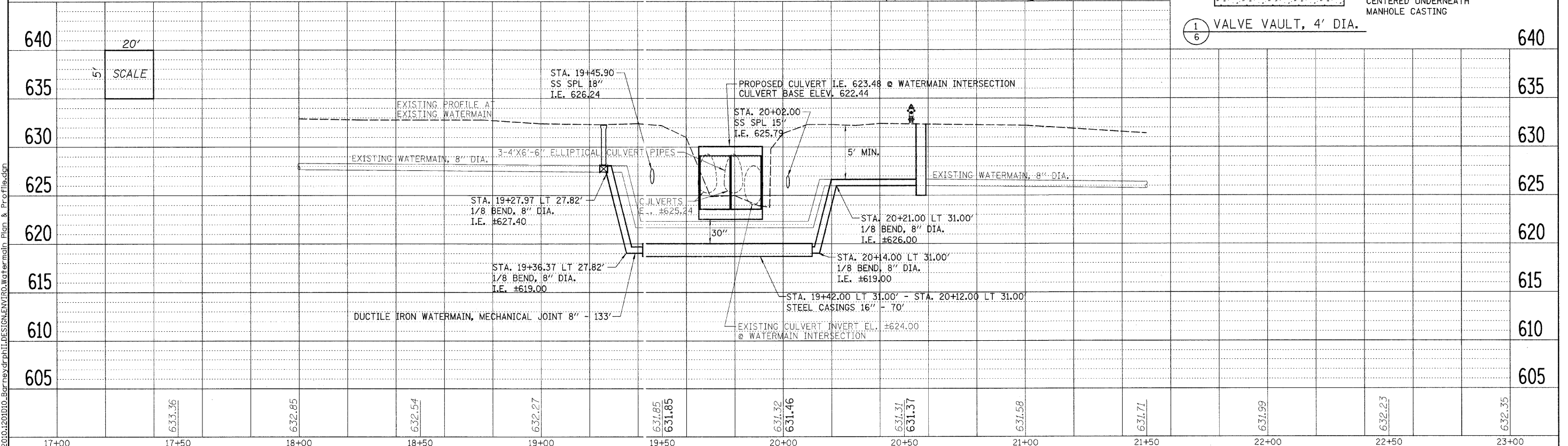
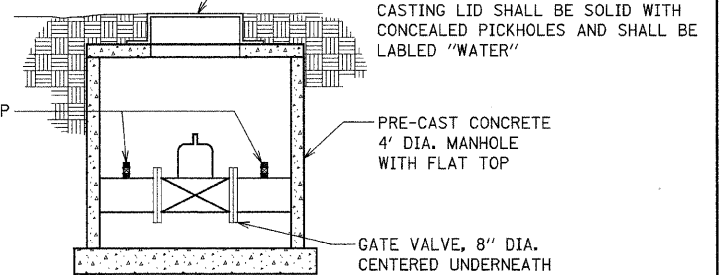
BENCH MARK:
"0" IN OPEN ON F.H. @ N.W.
CORNER OF BARNEY DR. AND CAMPBELL ST.
54.21' LT STA 17+86.76, EL 634.68

BENCH MARK:
CHIS. "0" ON WEST HEADWALL OF
EXISTING STRUCTURE #099-6471,
29.20' LT STA 19+74.34, EL 629.76

BENCH MARK:
"0" IN OPEN ON F.H. @ S.W.
CORNER OF BARNEY DR. AND FAIRWAY DR.
61.43' LT STA 21+18.97, EL 633.10



NOTE: WATERMAIN SEGMENT BEING REPLACED FROM STA. 19+28.00 LT 31.00' TO STA. 20+35.71 LT 27.83' SHALL BE REMOVED DURING WATERMAIN INSTALLATION.



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USER NAME =	DESIGNED - D.B.L.	REVISED -
PLOT SCALE =	CHECKED - G.M.H.	REVISED -
PLOT DATE =	DRAWN - D.B.L.	REVISED -
	CHECKED - G.M.H.	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00**

**WATERMAIN PLAN AND PROFILE
STRUCTURE NO. 099-6474**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	14
WHA# 1201D10			CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRW-9003162				

EXISTING STRUCTURE: S.N. 099-6471

Originally constructed in 1980 as the Armory Drive Extension, City Sec. 166-CS at Station 14+90, as a double barrel (72"x44") corrugated metal pipe arch culvert 69' long. In 1986 the structure was reconstructed under Project No. 85-0003-DR-CO-MS now called Barney Drive. The existing two culverts remained in place while a third (77"x52") corrugated metal elliptical pipe arch culvert 70' long was added.

To be Removed, No Salvage.

Road will be closed to traffic during construction & staged for pedestrians.
Stage I Construction

BENCH MARK: Chis. "□" on west headwall of existing structure #099-6471 over Trib. of Rock Run, El. 629.76

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2-4 Construction Staging Details
- 5-7 Culvert Reinforcement Details
- 8 Bar Splicer Assembly and Mechanical Splicer Details
- 9 Aluminum Railing, Type L
- 10 Boring Logs
- 11 Pipe Handrail

BILL OF MATERIAL - CULVERT

ITEM	ITEM	TOTAL
Channel Excavation	Cu. Yds.	160
Porous Granular Embankment	Cu. Yds.	168
Fabric Formed Concrete Revetment Mat	Sq. Yds.	64
Removal of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Lbs.	33,480
Bar Splicers	Each	140
Aluminum Railing, Type L	Foot	50
Pipe Handrail	Foot	95
Name Plates	Each	1
Concrete Box Culverts	Cu. Yds.	200.8

GENERAL NOTES:

* See Special Provisions.

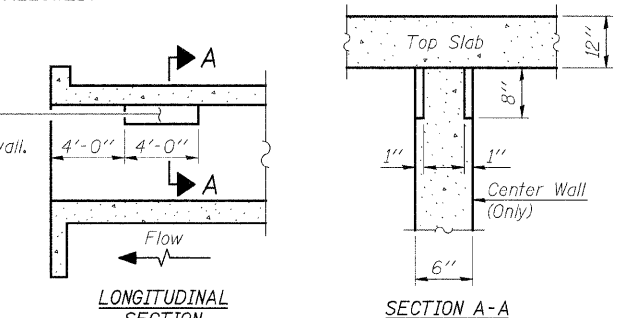
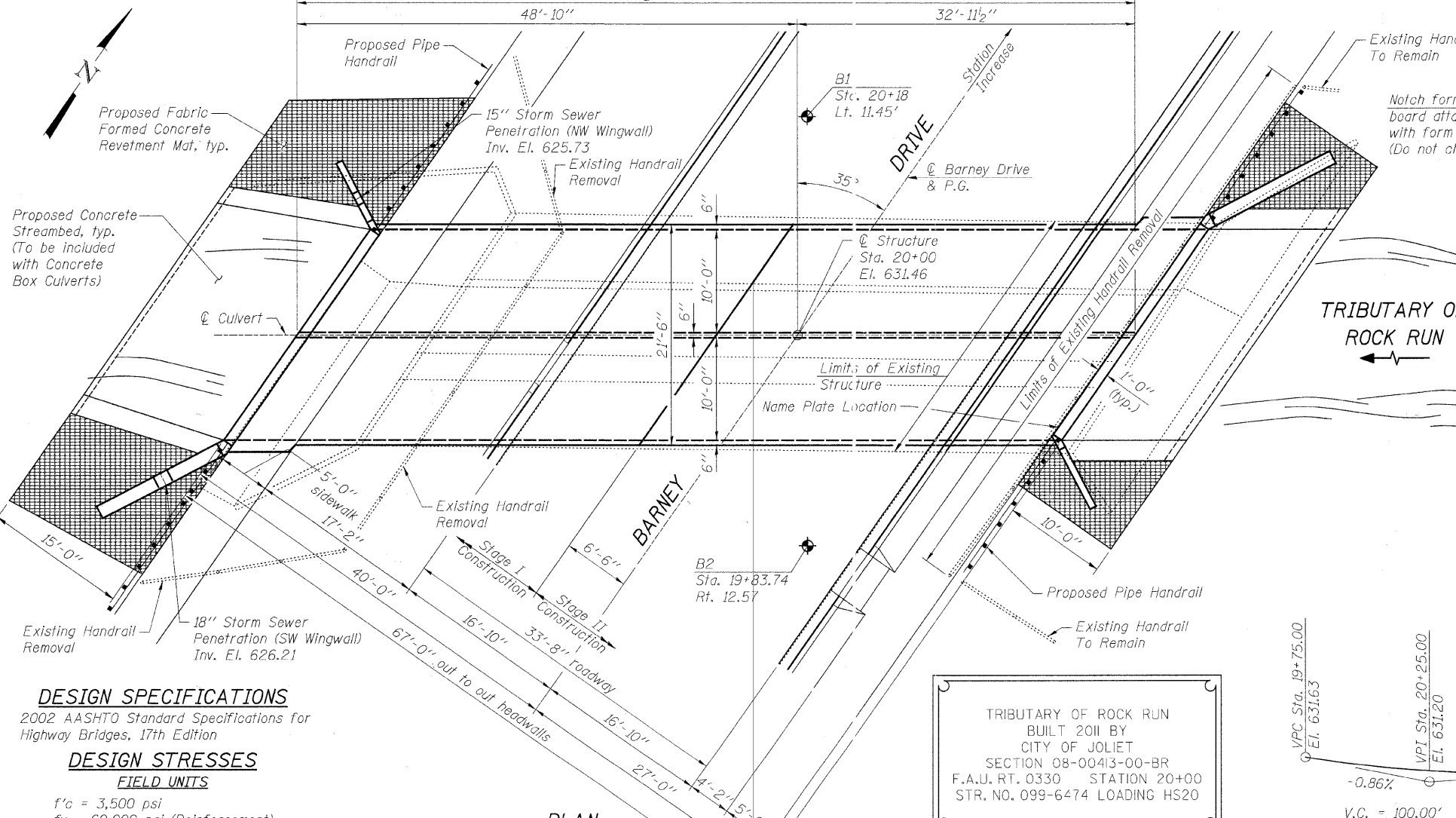
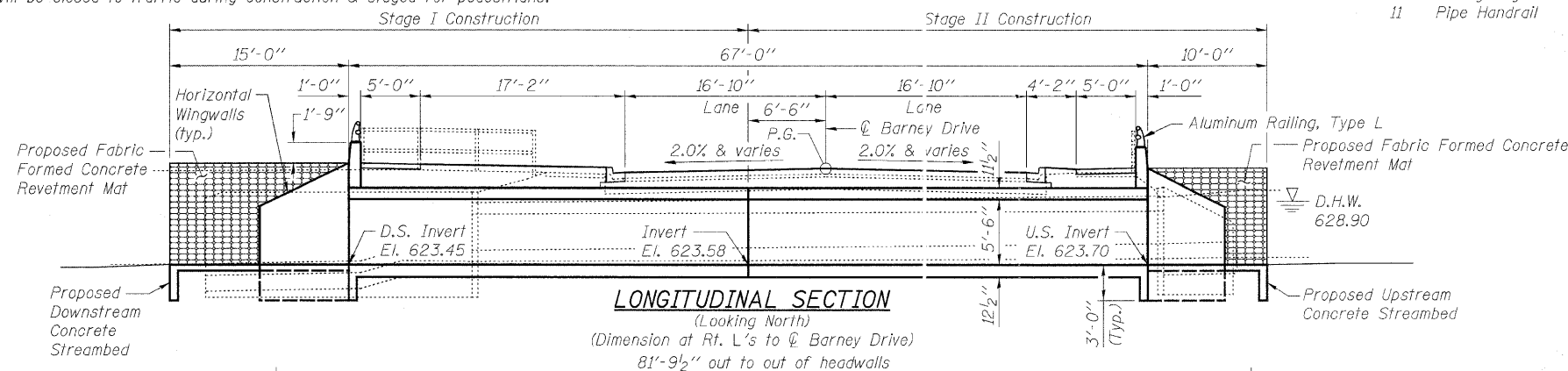
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

It shall be the responsibility of the Contractor to divert the storm flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to approval of the Engineer and the cost shall be included in the unit bid price of "Concrete Box Culverts."

NO PRECAST ALLOWED.



PHOEBE NESTING SITE DETAILS
(Downstream End Only)

WATERWAY INFORMATION

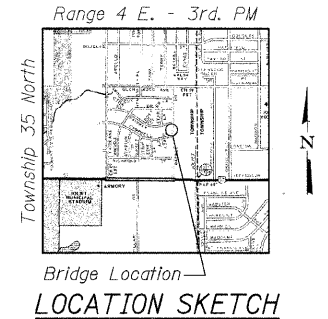
Drainage Area = 0.88 sq. mi. Low Grade Elev. 631.36 @ Sta. 20+38.24

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
10	465	-	-	628.74	2.26	-0.08	631.00	628.66	
Design	30	505	59	109	628.90	2.60	-0.05	631.50	628.85
Base	100	580	61	110	629.19	2.80	0.05	631.99	629.24
Overtopping									



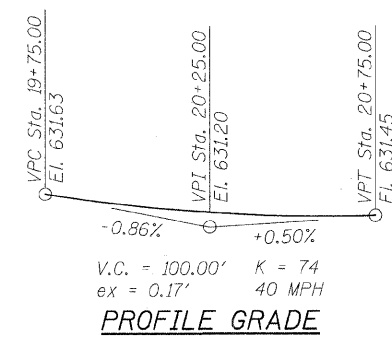
Brian K. Converse
DATE: March 24, 2011
EXPIRES 11/30/12

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE COMPLYING WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES'."



TRIBUTARY OF ROCK RUN
BUILT 2011 BY
CITY OF JOLIET
SECTION 08-00413-00-BR
F.A.U. RT. 0330 STATION 20+00
STR. NO. 099-6474 LOADING HS20

NAME PLATE
See Std. 515001



DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES
FIELD UNITS

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

LOADING HS20-44

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

USER NAME =	DESIGNED - PETER PASCUA	REVISED -
PLOT SCALE =	CHECKED - BRIAN CONVERSE	REVISED -
PLOT DATE =	DRAWN - RON ALLEN	REVISED -
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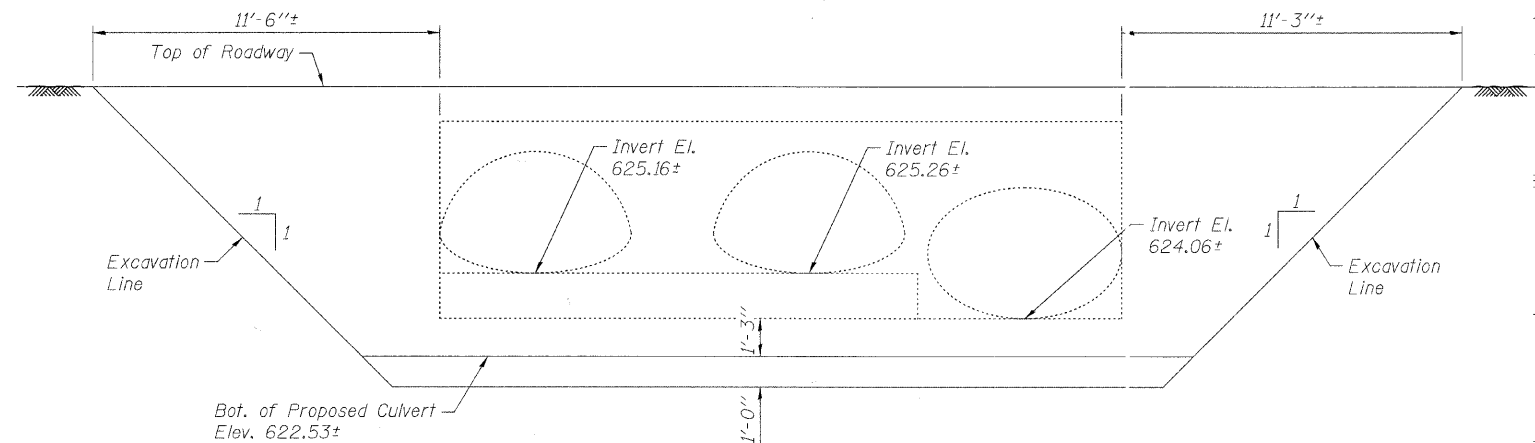
ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 099-6474
STRUCTURAL SHEET NO. 1 OF 11 SHEETS

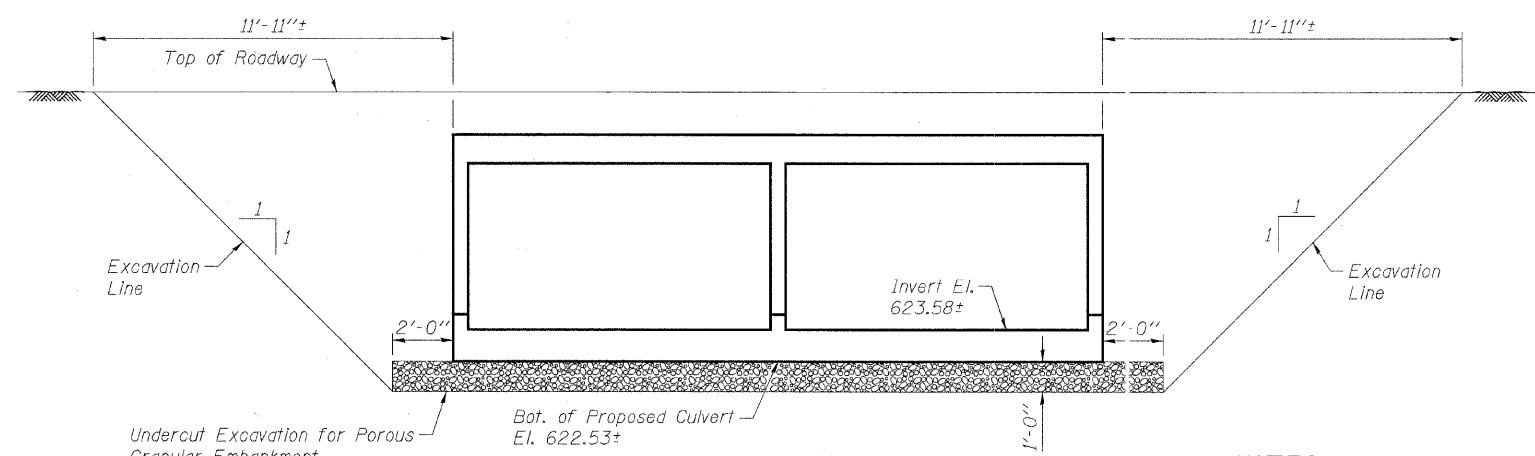
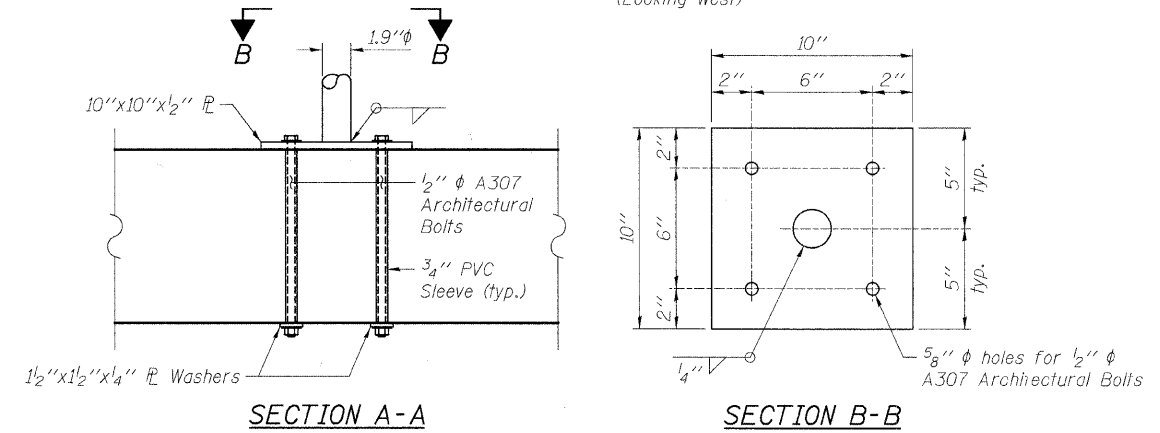
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WHA* 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				

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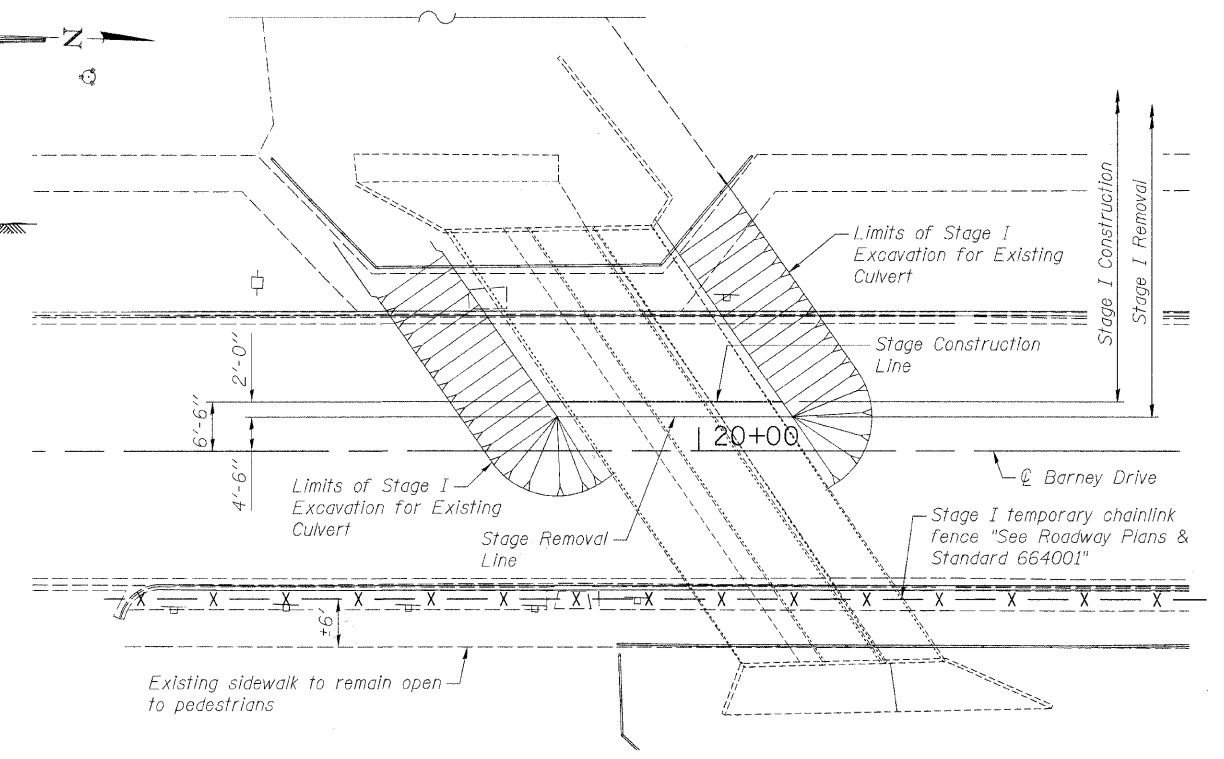


SECTION - STAGE I REMOVAL
Dimensions at Rt. Angles to Barrel Walls
(Looking West)

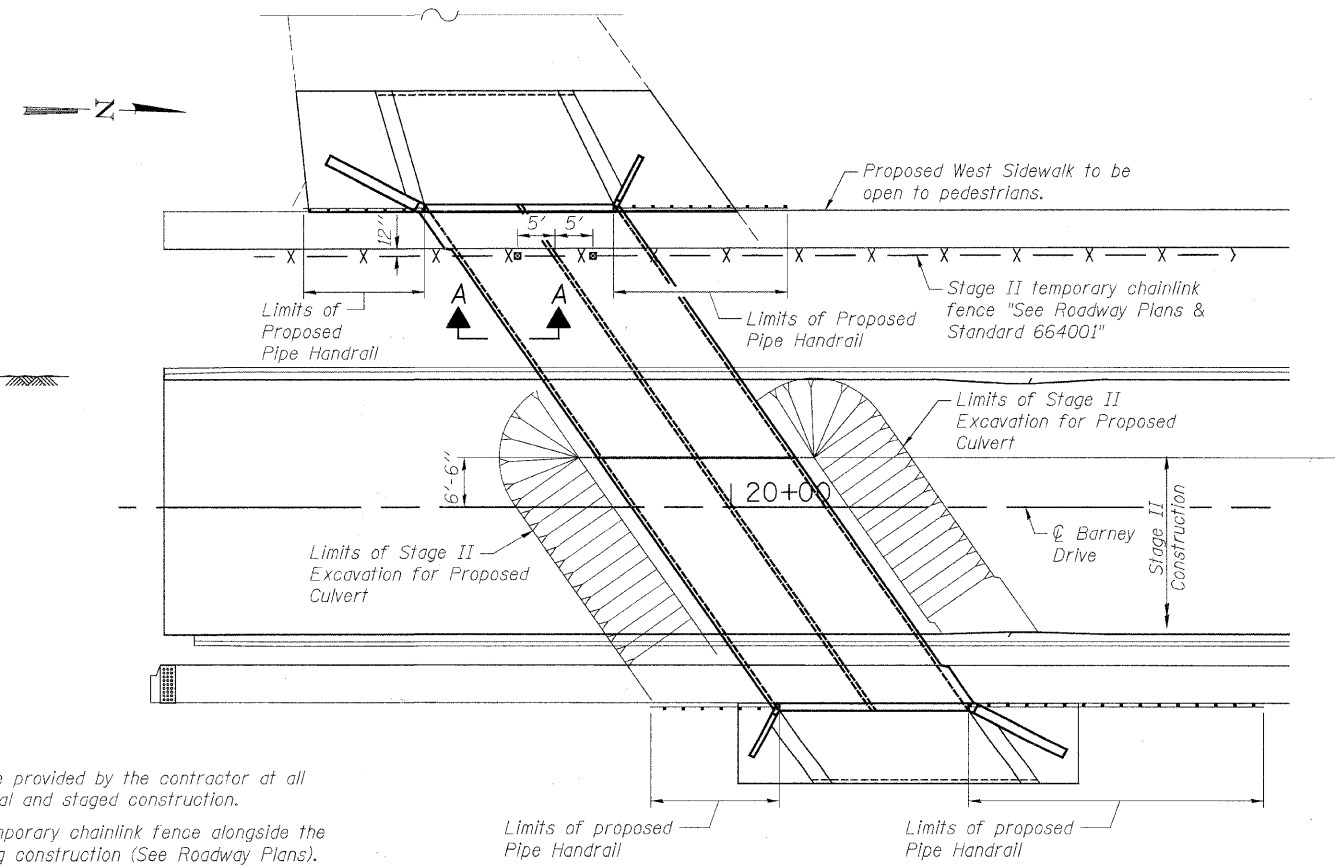


SECTION - STAGE II CONSTRUCTION
Dimensions at Rt. Angles to Barrel Walls
(Looking West)

NOTES:
Pedestrian access shall be provided by the contractor at all times during staged removal and staged construction.
Contractor shall install temporary chainlink fence alongside the sidewalk to be open during construction (See Roadway Plans).



PLAN - STAGE I REMOVAL



PLAN - STAGE II CONSTRUCTION

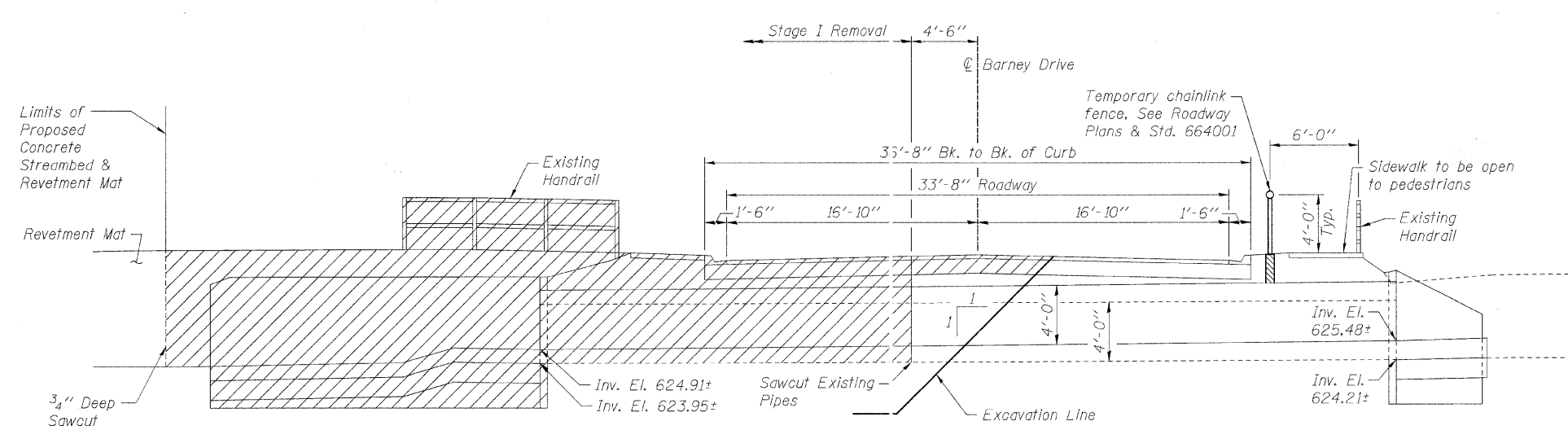
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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

CONSTRUCTION STAGING DETAILS
STRUCTURE NO. 099-6474
STRUCTURAL SHEET NO. 2 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	WHA# 1201010		CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-90031621				

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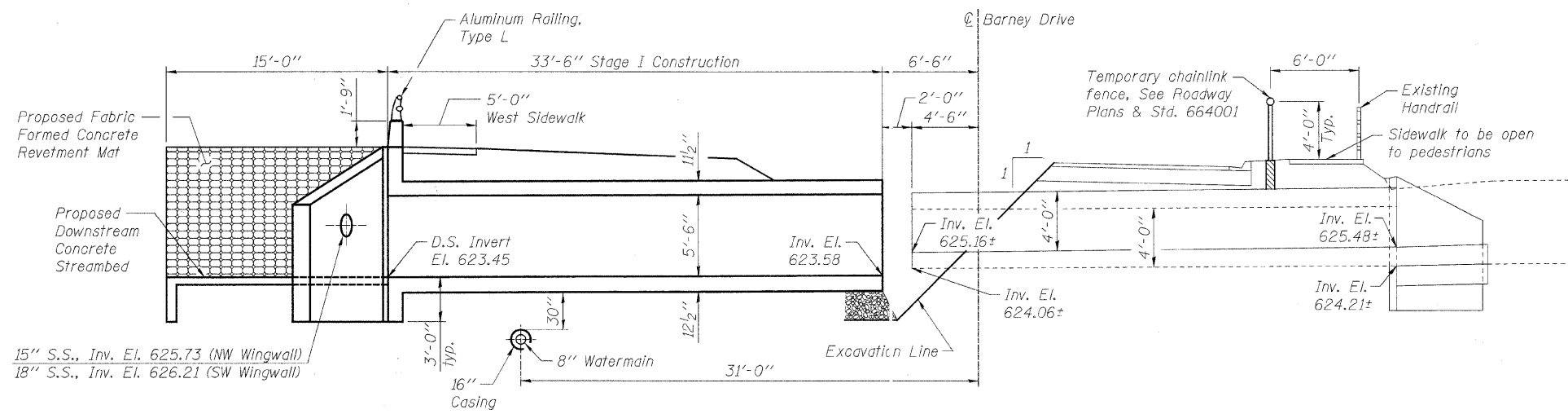
STAGE I REMOVAL
Looking North
Dimensions at Rt. Angls to \odot Barney Drive

STAGE CONSTRUCTION SEQUENCE

- 1.) Install required traffic control items & close roadway. See Roadway Plans.
- 2.) Install temporary pedestrian safety fence alongside East Sidewalk.
- 3.) Excavate behind existing Stage I box culvert per cross-section; provide sawcut per Structural Sheet 6 of 11 at limits of proposed downstream channel end treatment.
- 4.) Remove existing box culvert, pavement, sidewalk, handrail, and curb & gutter within the Stage I Removal Limits.
- 5.) Relocate/Construct/Install any necessary utility items (e.g. watermain & storm sewer pipes) within the Stage I Construction limits.
- 6.) Construct proposed Stage I box culvert and aluminum railing as shown per plans.
- 7.) Backfill around sides of proposed Stage I box culvert.
- 8.) Construct downstream revetment mat, concrete streambed, sidewalk, and pipe handrail.
- 9.) Relocate temporary pedestrian safety fence and install alongside West Sidewalk.
- 10.) See Structural Sheet 4 of 11.

NOTES:

Hatched area indicates existing structure removal.
Temporary chainlink fence shall be provided for Stage Construction. See Roadway Plans.



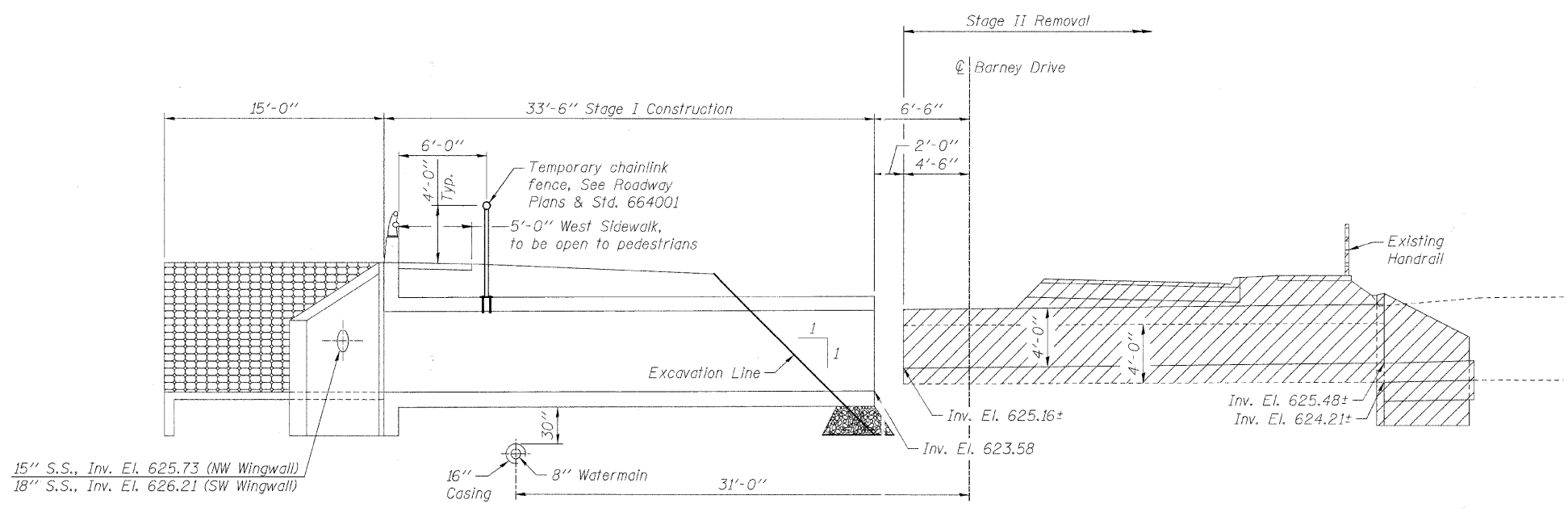
STAGE I CONSTRUCTION
Looking North
Dimensions at Rt. Angls to \odot Barney Drive

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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

CONSTRUCTION STAGING DETAILS - STAGE I
STRUCTURE NO. 099-6474
STRUCTURAL SHEET NO. 3 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	17
WHA* 1201D10		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				



STAGE II REMOVAL

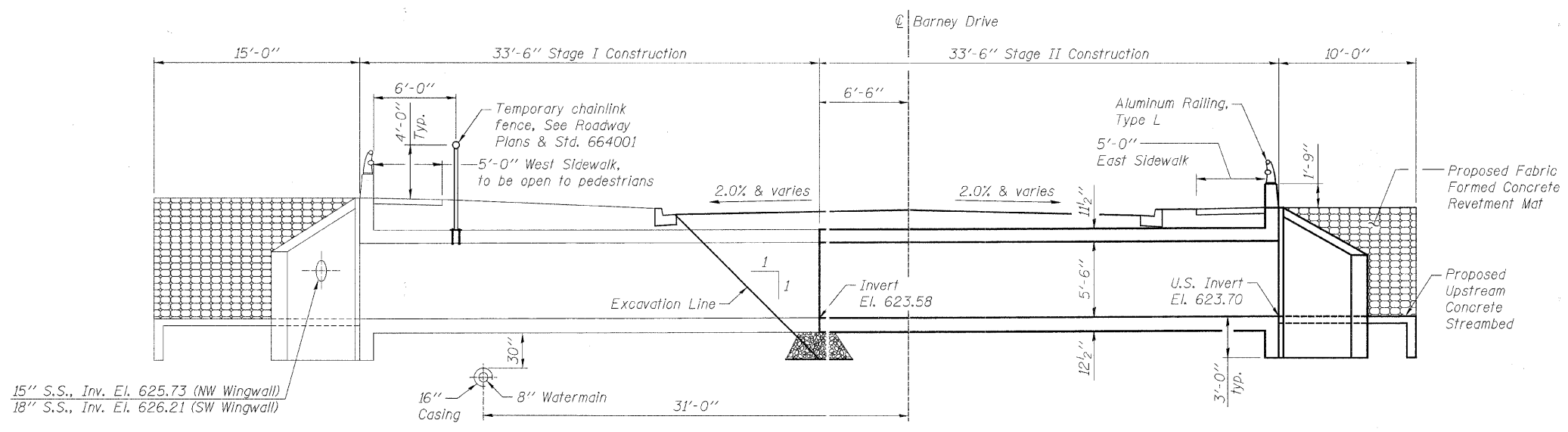
Looking North
Dimensions at Rt. Angles to C Barney Drive

STAGE CONSTRUCTION SEQUENCE

- 1.) Excavate behind existing Stage II box culvert per cross-section.
- 2.) Remove existing box culvert, pavement, sidewalk, and curb & gutter within the Stage II Removal Limits.
- 3.) Relocate/Construct/Install any necessary utility items (e.g. watermain & storm sewer pipes) within the Stage II construction limits.
- 4.) Construct proposed Stage II box culvert and aluminum railing as shown per plans.
- 5.) Backfill around sides of proposed Stage II box culvert.
- 6.) Construct proposed upstream revetment mat, streambed concrete, sidewalk, and pipe handrail.
- 7.) Construct proposed roadway pavement/traffic lane and curb & gutter.
- 8.) Remove temporary pedestrian safety fence.

NOTES:

Hatched area indicates existing structure removal.
Temporary chainlink fence shall be provided for Stage Construction. See Roadway Plans.



STAGE II CONSTRUCTION

Looking North
Dimensions at Rt. Angles to C Barney Drive

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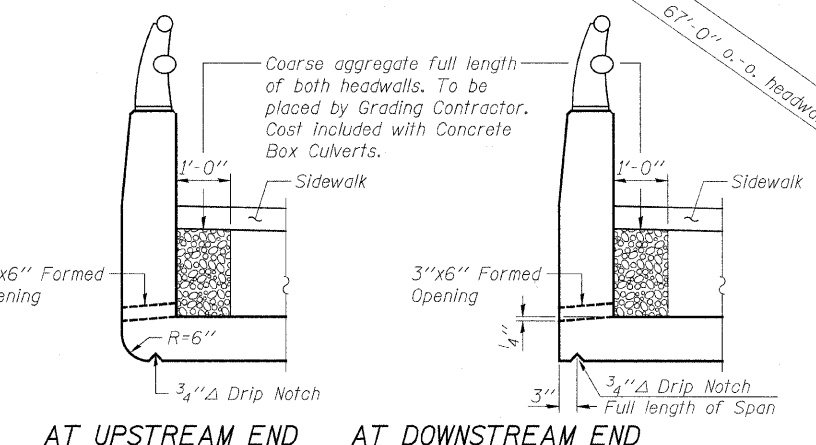
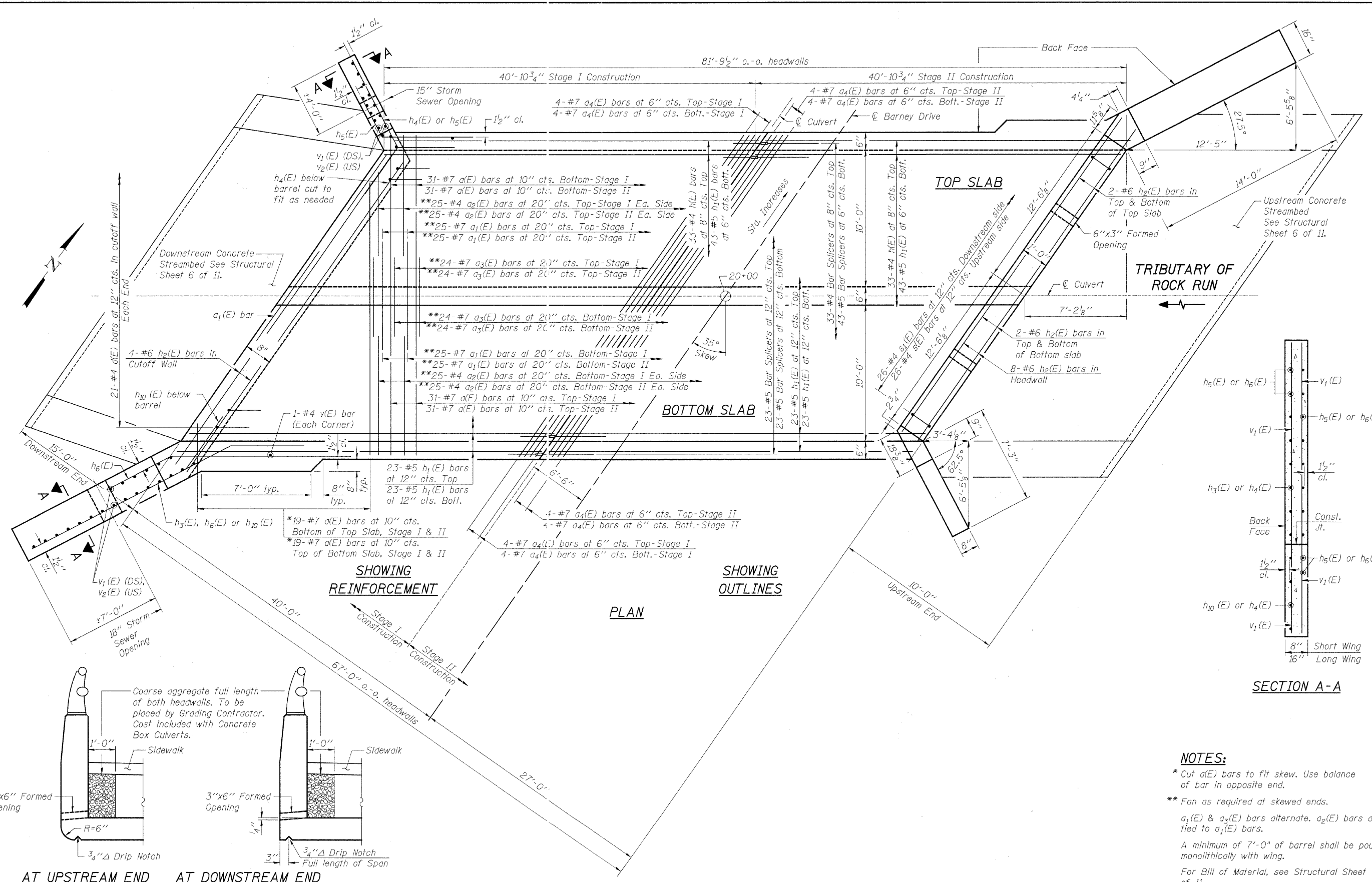
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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00

CONSTRUCTION STAGING DETAILS - STAGE II
STRUCTURE NO. 099-6474
STRUCTURAL SHEET NO. 4 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-99031621				

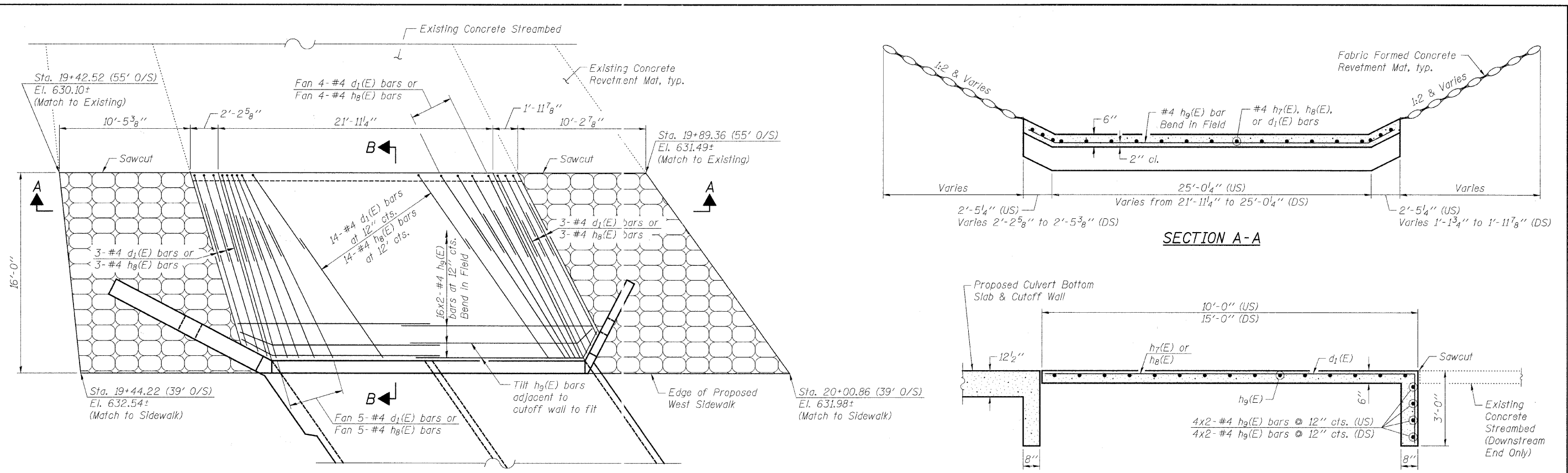
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NOTES:
 * Cut a(E) bars to fit skew. Use balance of bar in opposite end.
 ** Fan as required at skewed ends.
 a₁(E) & a₃(E) bars alternate. a₂(E) bars are tied to a₁(E) bars.
 A minimum of 7'-0" of barrel shall be poured monolithically with wing.
 For Bill of Material, see Structural Sheet 7 of 11.

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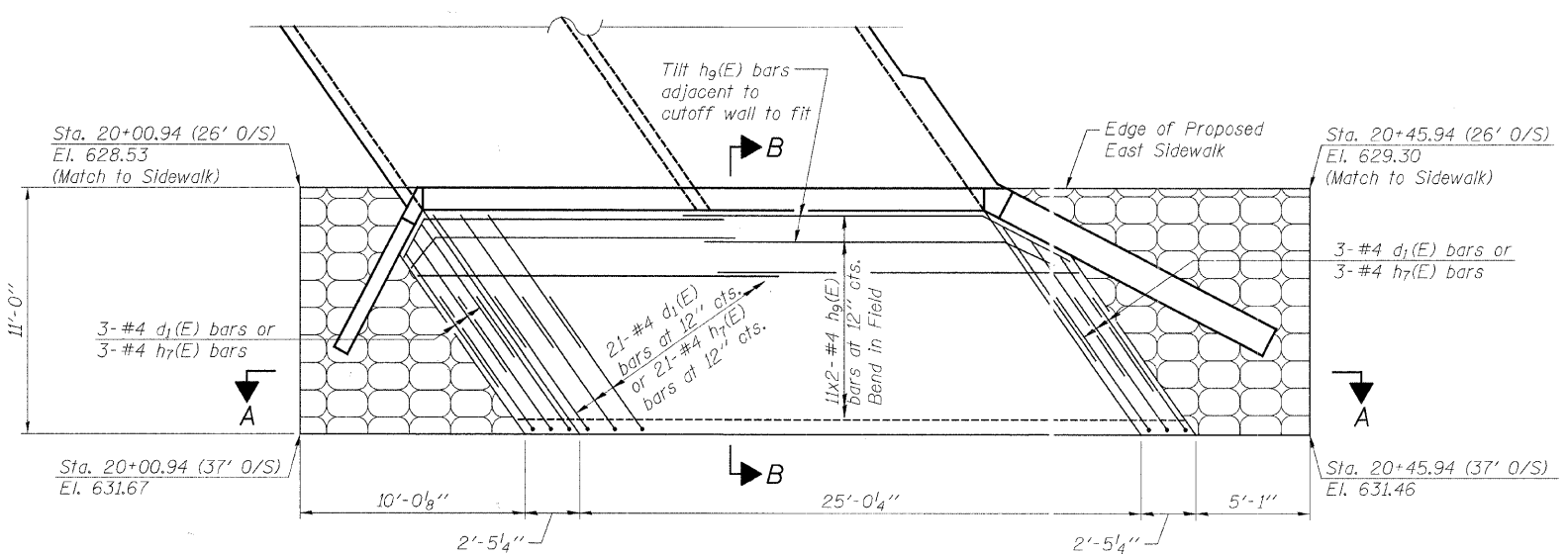
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PLAN - DOWNSTREAM END

SECTION A-A

SECTION B-B



PLAN - UPSTREAM END

NOTE:

Reinforcement mat of #4 bars shall be placed in the middle of the slab cross-section.
 Min. lap for #4 bars shall be 1'-8".
 Prior to removal of applicable existing streambed concrete, contractor shall provide a 3/4" deep sawcut along the boundaries of removal areas adjacent to areas to remain in place.
 Bars indicated thus 4x2-#4 etc. indicates 4 lines of bars with 2 lengths per line.
 The concrete for the streambeds are included in the cost of Concrete Box Culverts.
 For Bill of Material, see Structural Sheet 7 of 11.

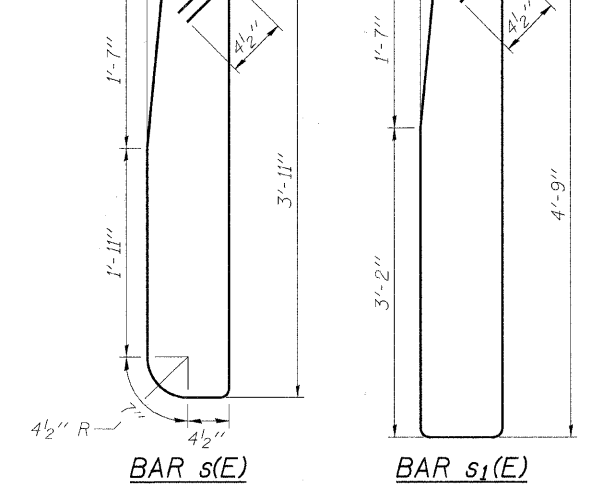
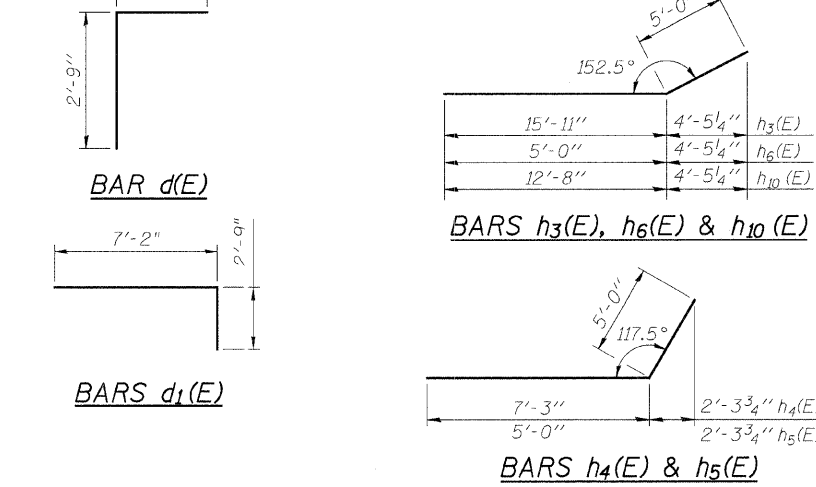
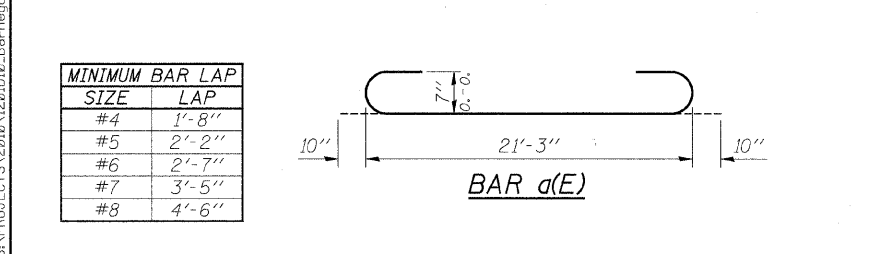
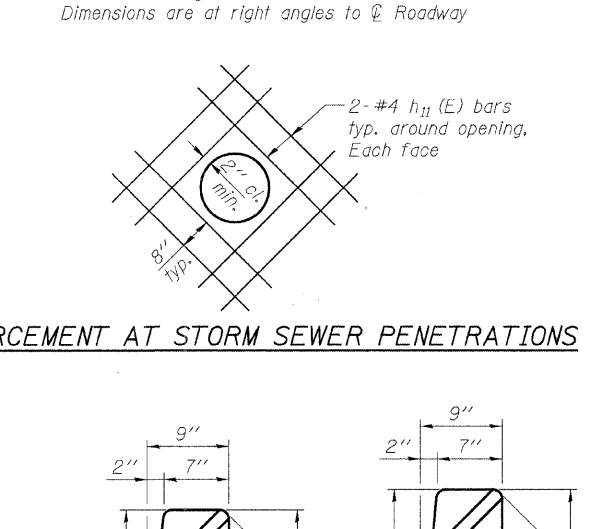
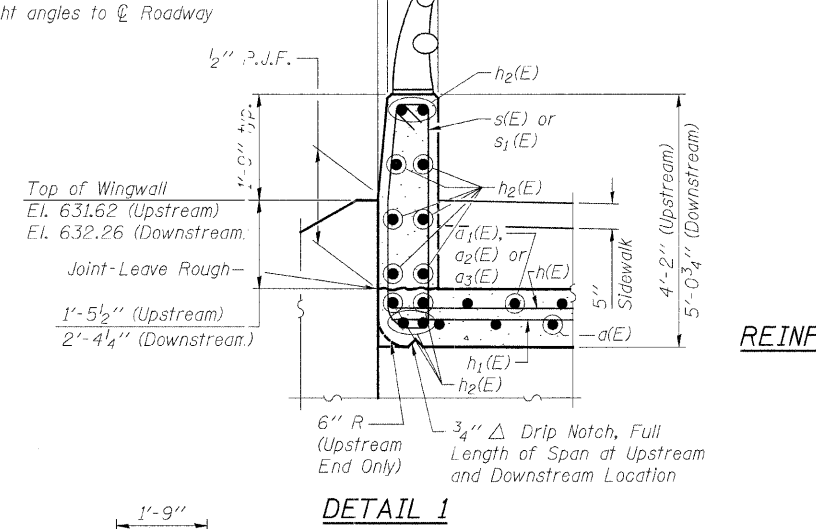
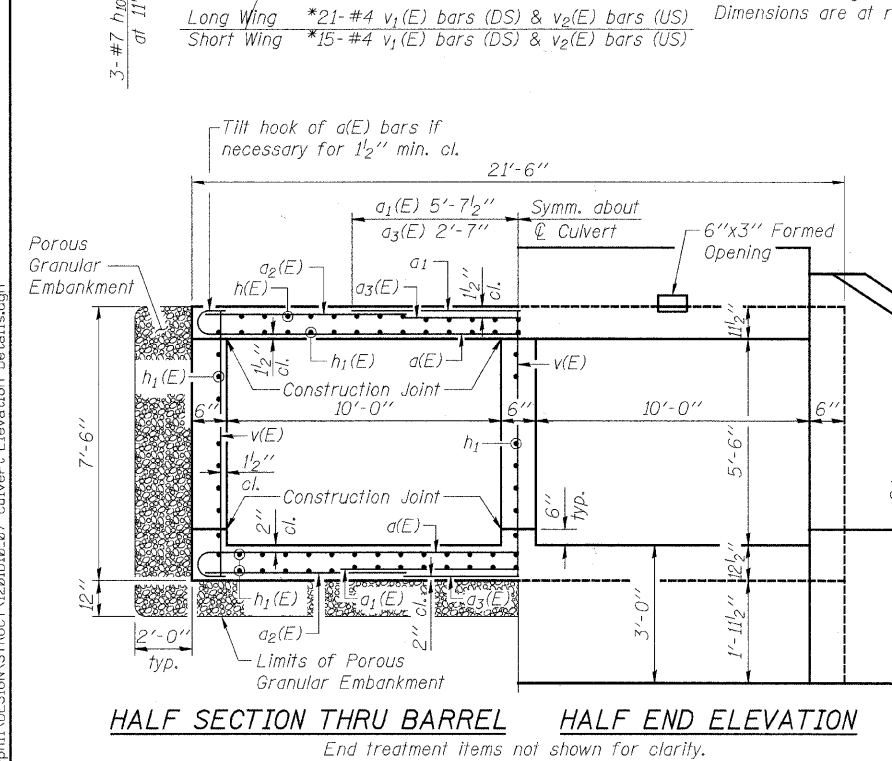
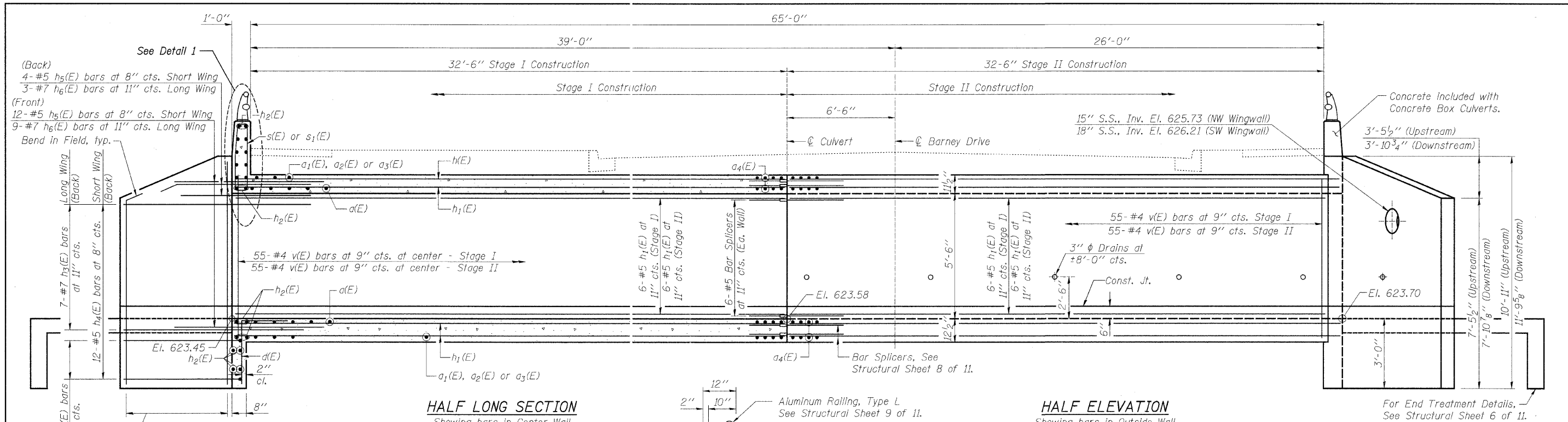
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PLOT SCALE =	CHECKED - BRIAN CONVERSE	REVISED -
PLOT DATE =	DRAWN - RON ALLEN	REVISED -
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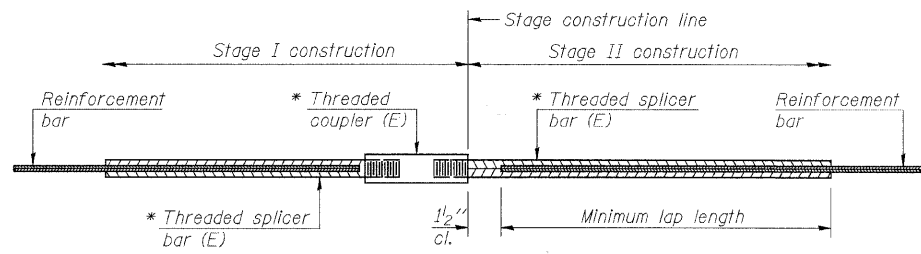
**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20+00**

**REVEMENT MAT & CONCRETE STREAMBED DETAILS
 STRUCTURE NO. 099-6474**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	20
WHA* 1201D10		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-9003162				

STRUCTURAL SHEET NO. 6 OF 11 SHEETS





STANDARD BAR SPLICER ASSEMBLY

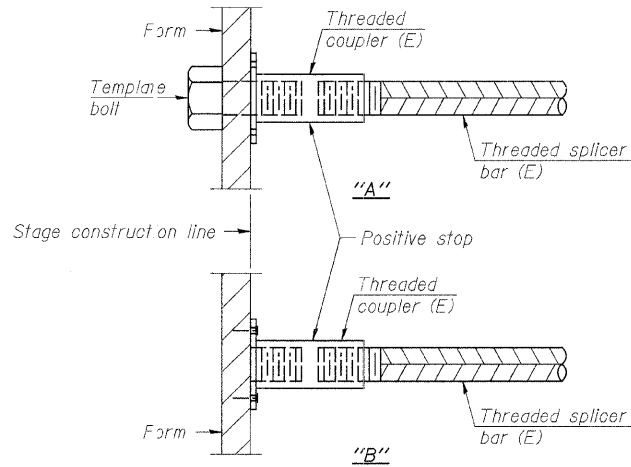
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

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

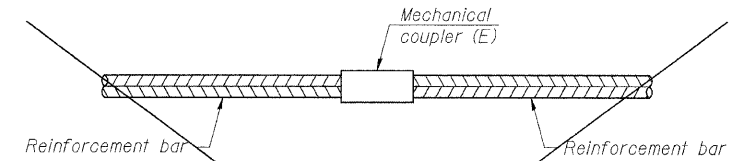
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#4	33	Table 3
Top & Bot. Slab & Int. & Ext. Walls	#5	107	Table 3



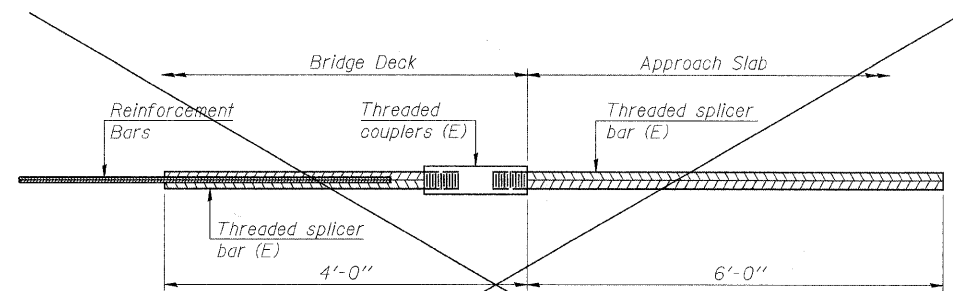
INSTALLATION AND SETTING METHODS

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



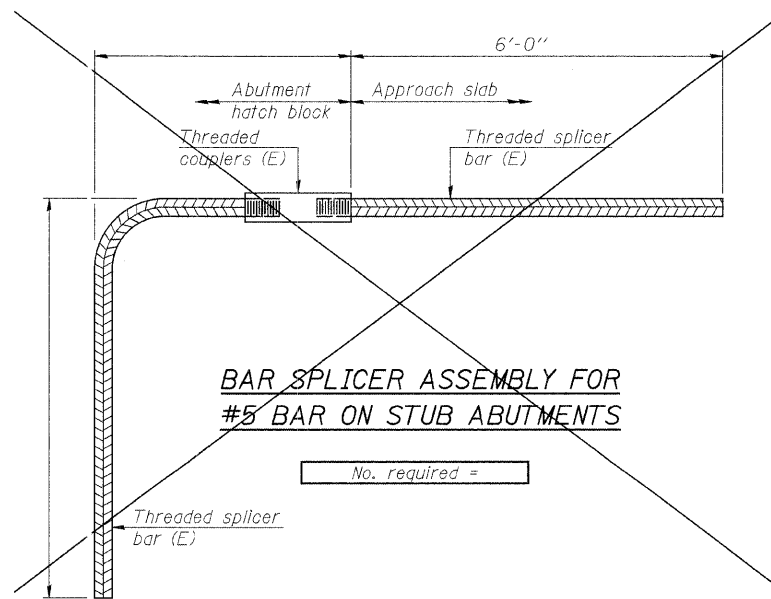
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES:

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

FILE NAME = S:\PROJECTS\2010\1201010\Barneid-rp\DESIGN\STRUCT\1201010_08 Bar Splicers.dgn

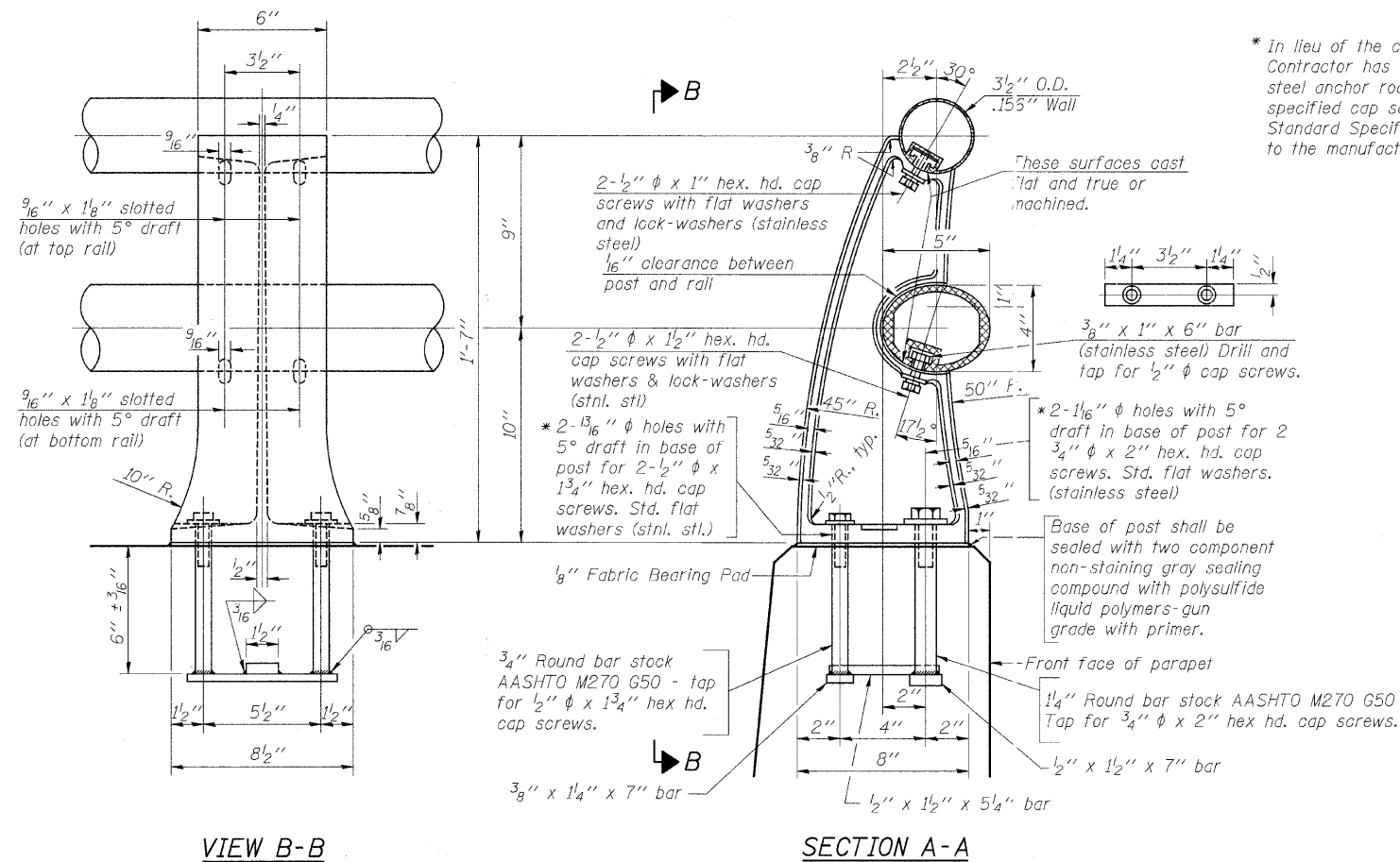
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PLOT SCALE =	CHECKED - BRIAN CONVERSE	REVISED -
PLOT DATE =	DRAWN - RON ALLEN	REVISED -
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20+00**

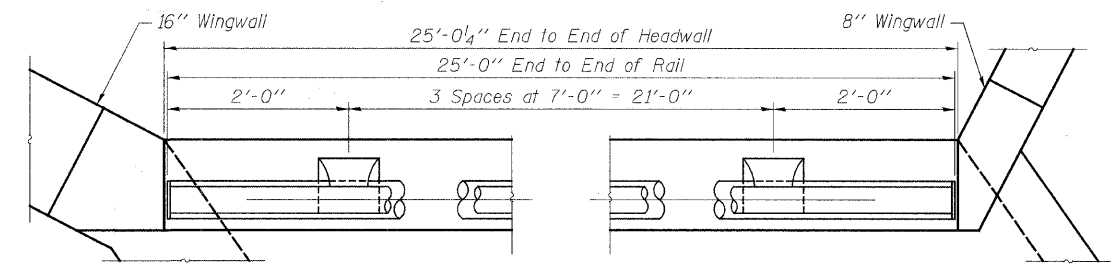
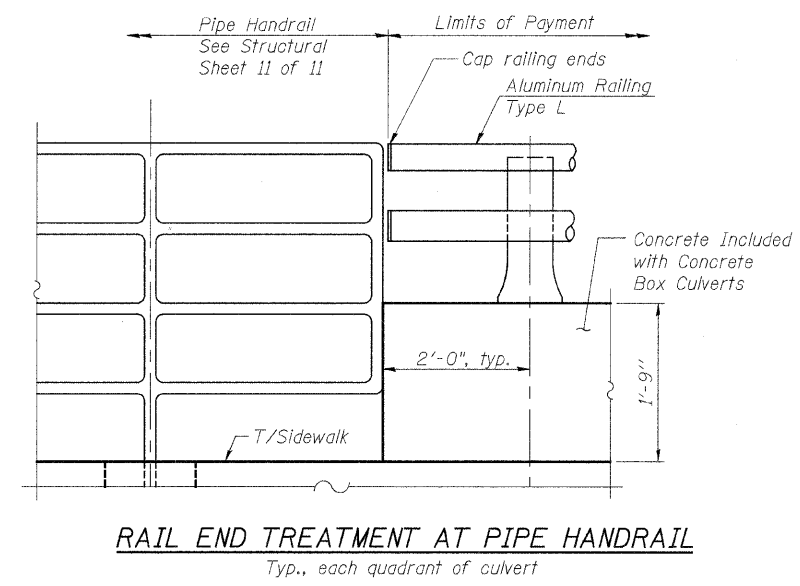
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 099-6474**

STRUCTURAL SHEET NO. 8 OF 11 SHEETS

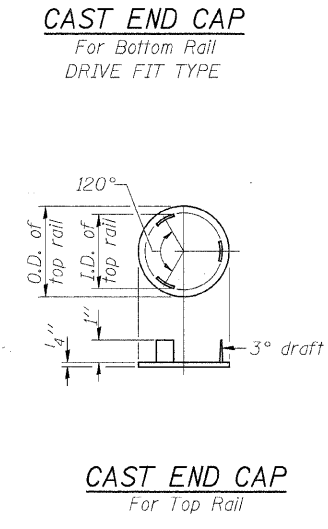
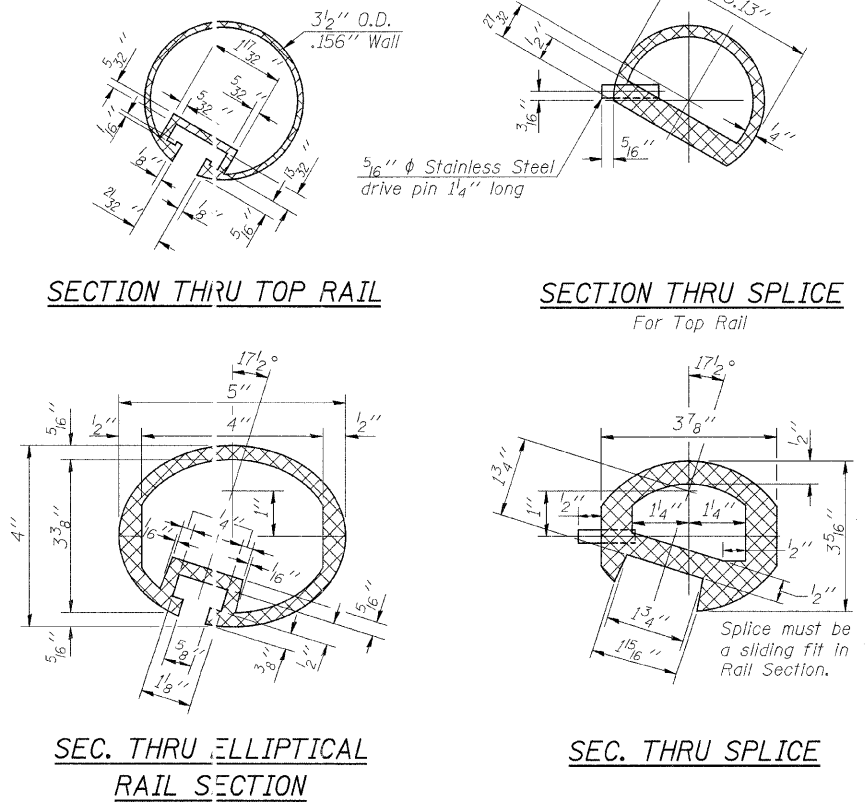
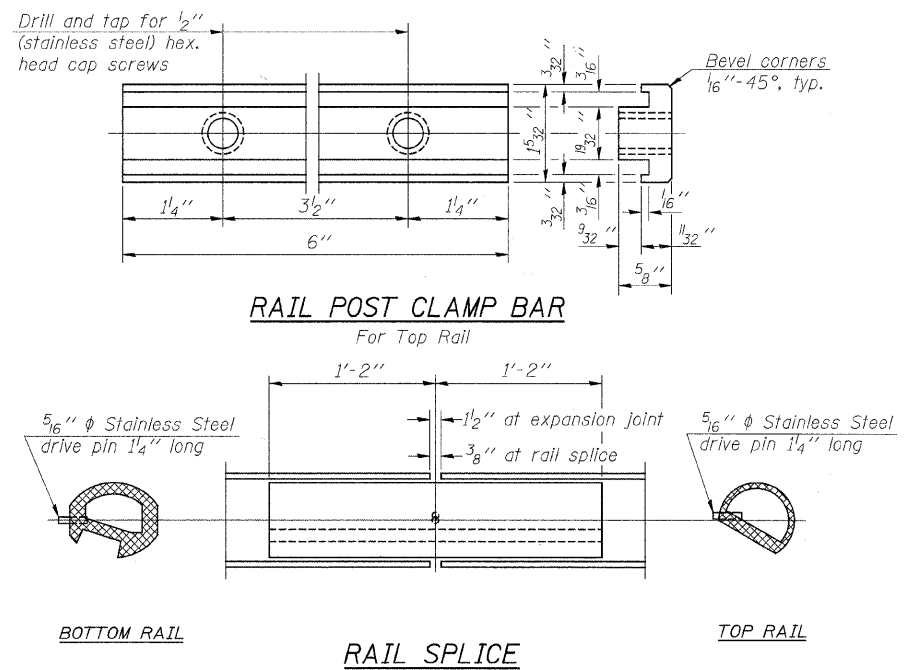
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	22
	WHA# 1201010	CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-9003(162)				



* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



NOTE:
 Materials, construction, and installation shall be in accordance with Section 509 of the Standard Specifications for Road and Bridge Construction. All Posts shall be normal to parapet. All joints in rail shall be spliced per detail. All exposed rail ends shall be capped per detail. Provide 1-1/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.



BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	50

FILE NAME = SANPROJECTS\2010\1201010_B Barney Drive Over Tributary of Rock Run.dgn

USER NAME =	DESIGNED - PETER PASCUA	REVISED -
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PLOT DATE =	DRAWN - RON ALLEN	REVISED -
	CHECKED - BRIAN CONVERSE	REVISED -

ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00

ALUMINUM RAILING, TYPE L
STRUCTURE NO. 099-6474
 STRUCTURAL SHEET NO. 9 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	23
	WHA* 1201010		CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRV-90031621				

PROJECT **Barney Drive Box Culvert**

CLIENT **Willett, Hofmann and Associates**

BORING **1** DATE STARTED **10-29-09** DATE COMPLETED **10-29-09** JOB **L-74,316**



ELEVATIONS

GROUND SURFACE **631.1**

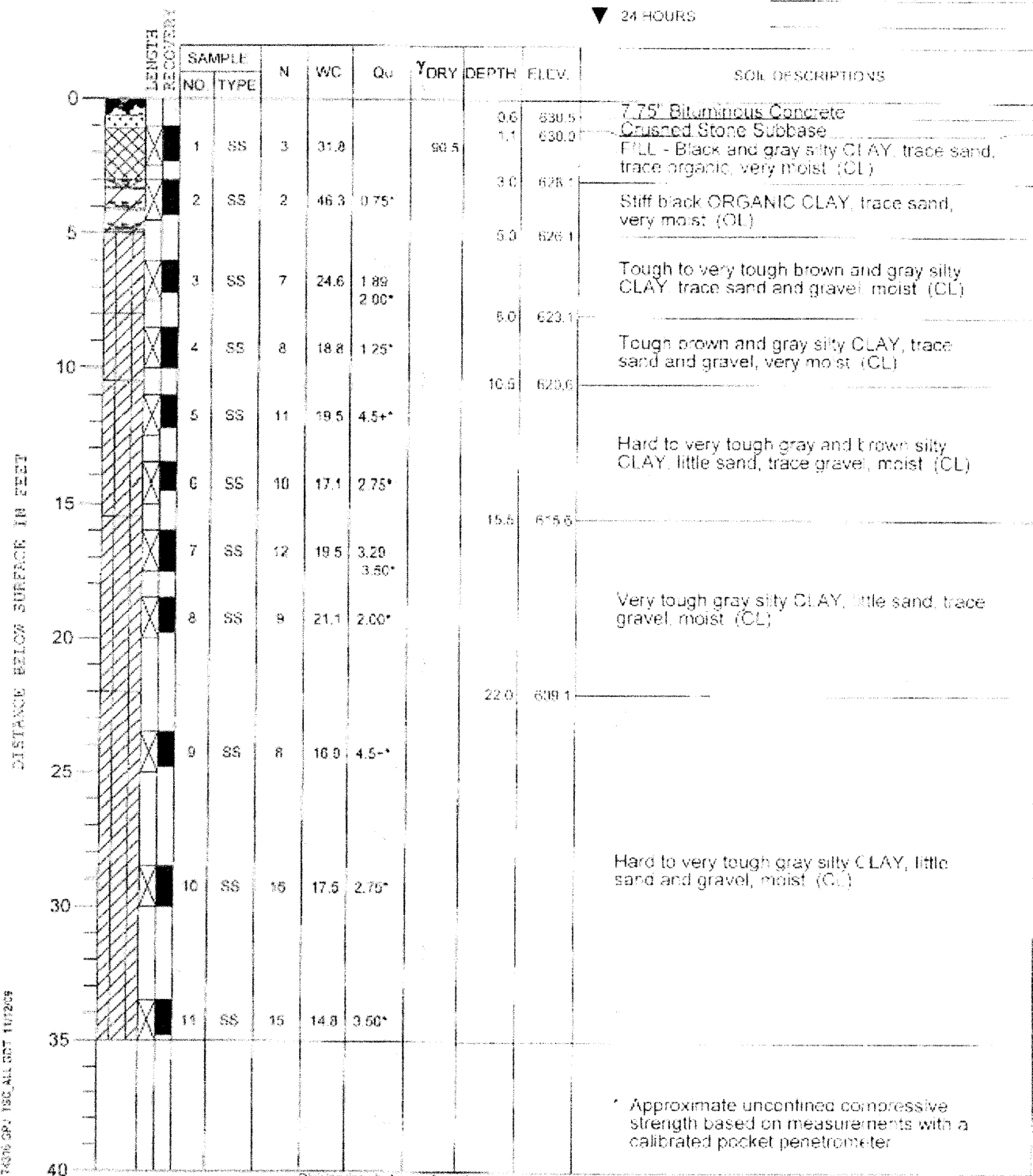
END OF BORING **596.1**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **Dry**

▽ AT END OF BORING **Dry**

▽ 24 HOURS



DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

PROJECT **Barney Drive Box Culvert**

CLIENT **Willett, Hofmann and Associates**

BORING **2** DATE STARTED **10-29-09** DATE COMPLETED **10-29-09** JOB **L-74,316**



ELEVATIONS

GROUND SURFACE **631.3**

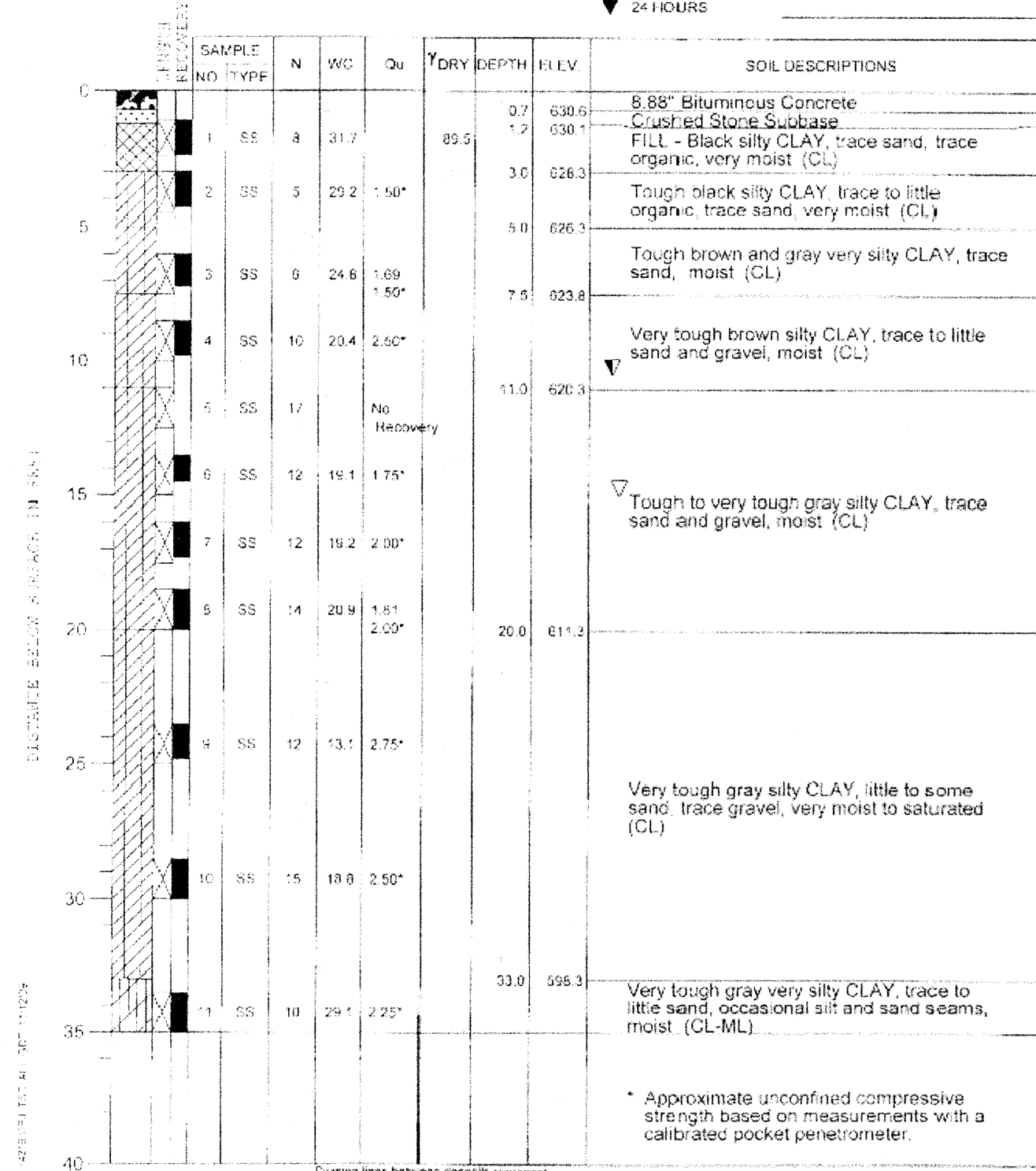
END OF BORING **596.3**

WATER LEVEL OBSERVATIONS

▽ WHILE DRILLING **10.5'**

▽ AT END OF BORING **15.0'**

▽ 24 HOURS



DRILL RIG NO. **262**

Division lines between deposits represent approximate boundaries between soil types. In-situ, the transition may be gradual.

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

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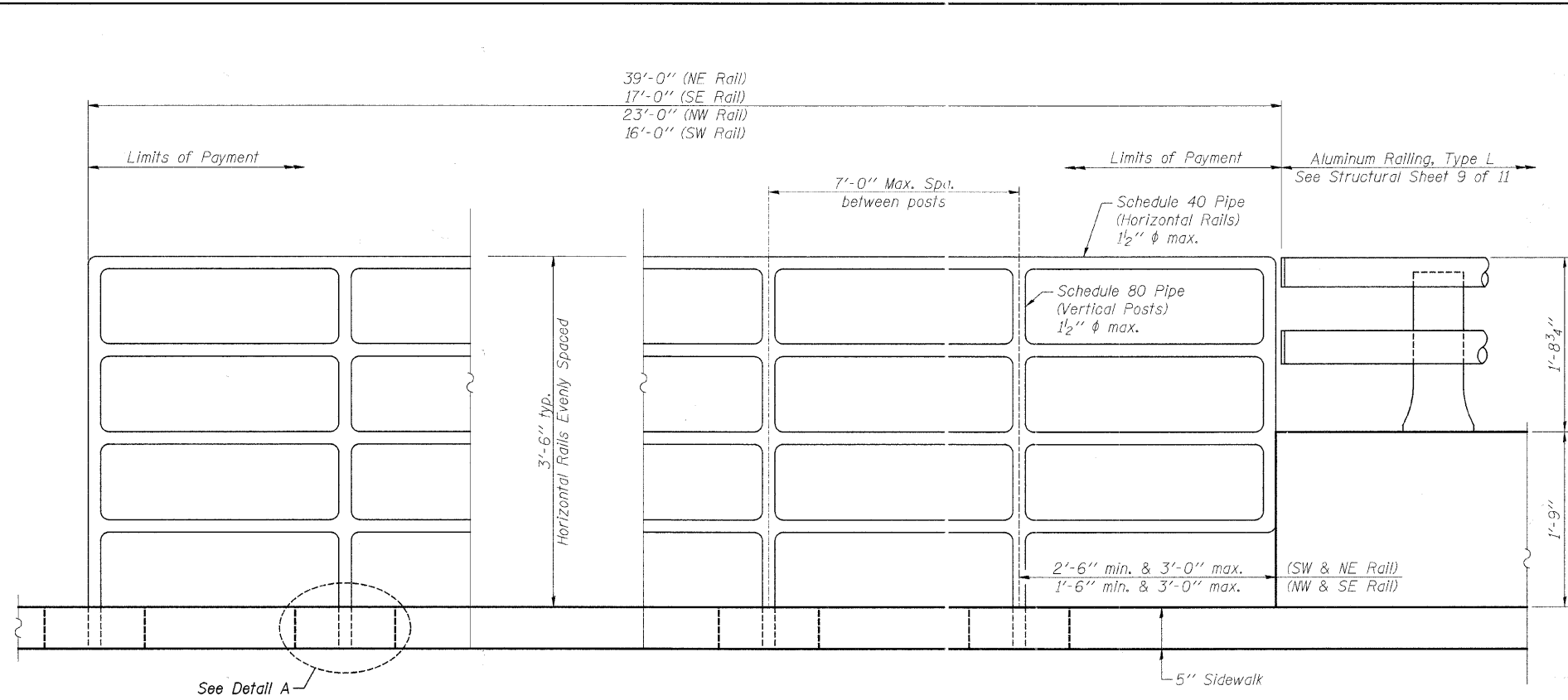
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PLOT DATE =	DRAWN - RON ALLEN	REVISED -
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00**

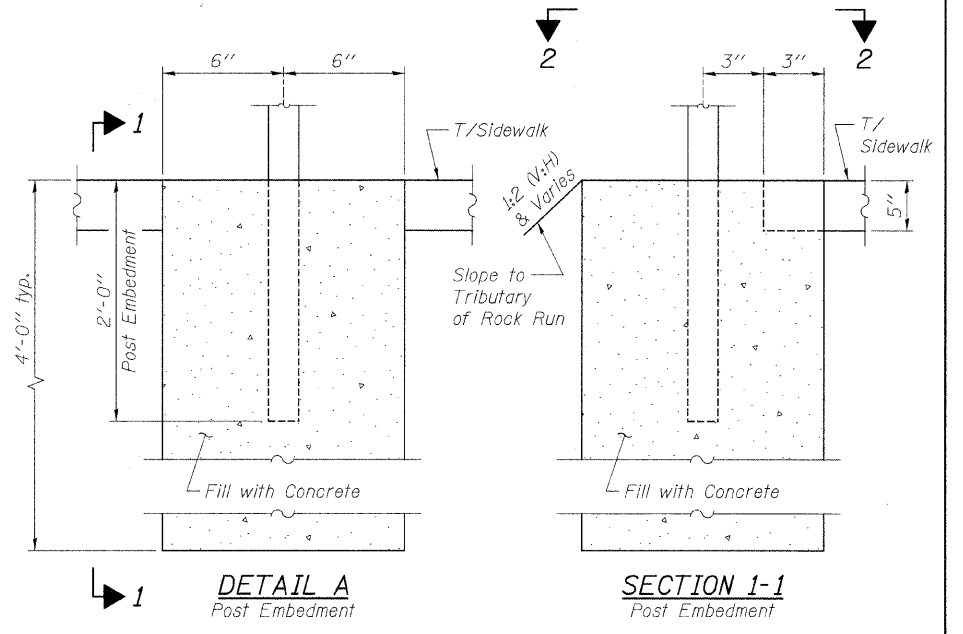
**BORING LOGS
STRUCTURE NO. 099-6474**

STRUCTURAL SHEET NO. 10 OF 11 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	24
WHA# 1201D10		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				

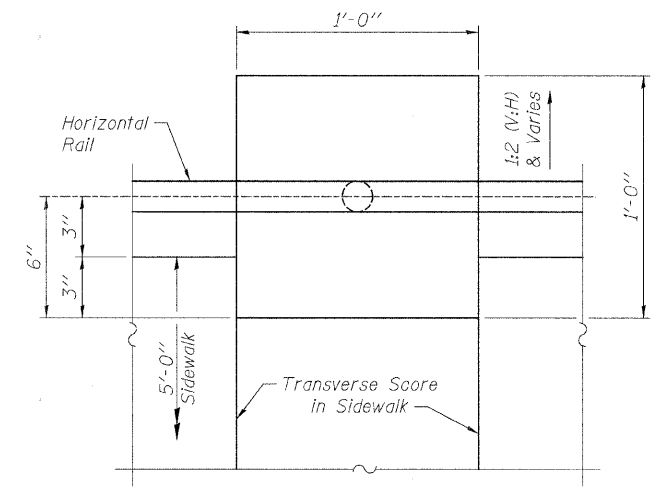


ELEVATION - PIPE HANDRAIL
Typ, Ea. Quadrant of Culvert



DETAIL A
Post Embedment

SECTION 1-1
Post Embedment



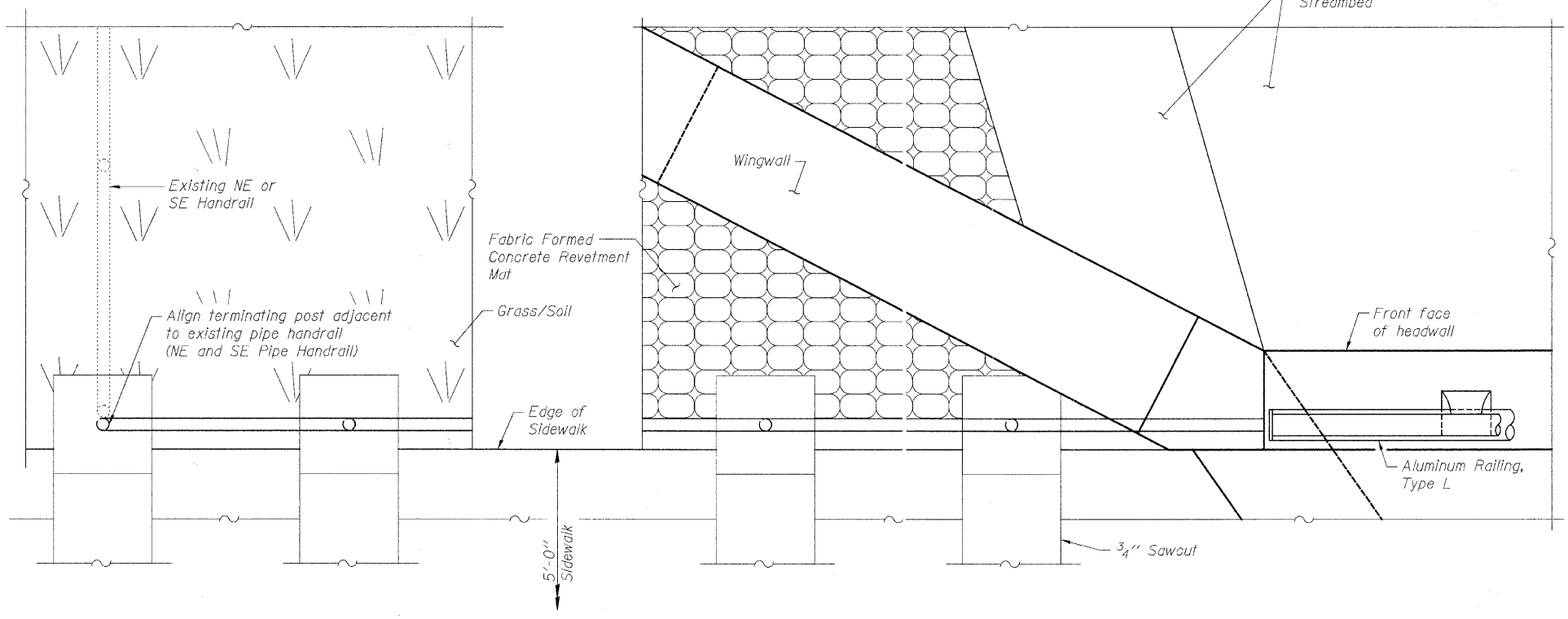
SECTION 2-2
Post Embedment

NOTES:

Pipe Handrail shall be in accordance with Section 509 of the Standard Specifications for Road and Bridge Construction.
Diameter of proposed horizontal rails & vertical posts shall be 1 1/2" max.
All Pipe Handrail shall be painted to match the color of the existing handrail remaining in place.

BILL OF MATERIAL

Item	Unit	Quantity
Pipe Handrail	Foot	95



PLAN - PIPE HANDRAIL
Typ, Ea. Quadrant of Culvert

FILE NAME = S:\PROJECTS\2010\12010102_Bornegud\PH\DESIGN\STRUCT\12010102_IPedestrian_Rail.dgn

USER NAME =	DESIGNED - PETER PASCUA	REVISED -
PLOT SCALE =	CHECKED - BRIAN CONVERSE	REVISED -
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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00

PIPE HANDRAIL
STRUCTURE NO. 099-6474
STRUCTURAL SHEET NO. 11 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	25
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRN-90031621				

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ROUTE MARKERS

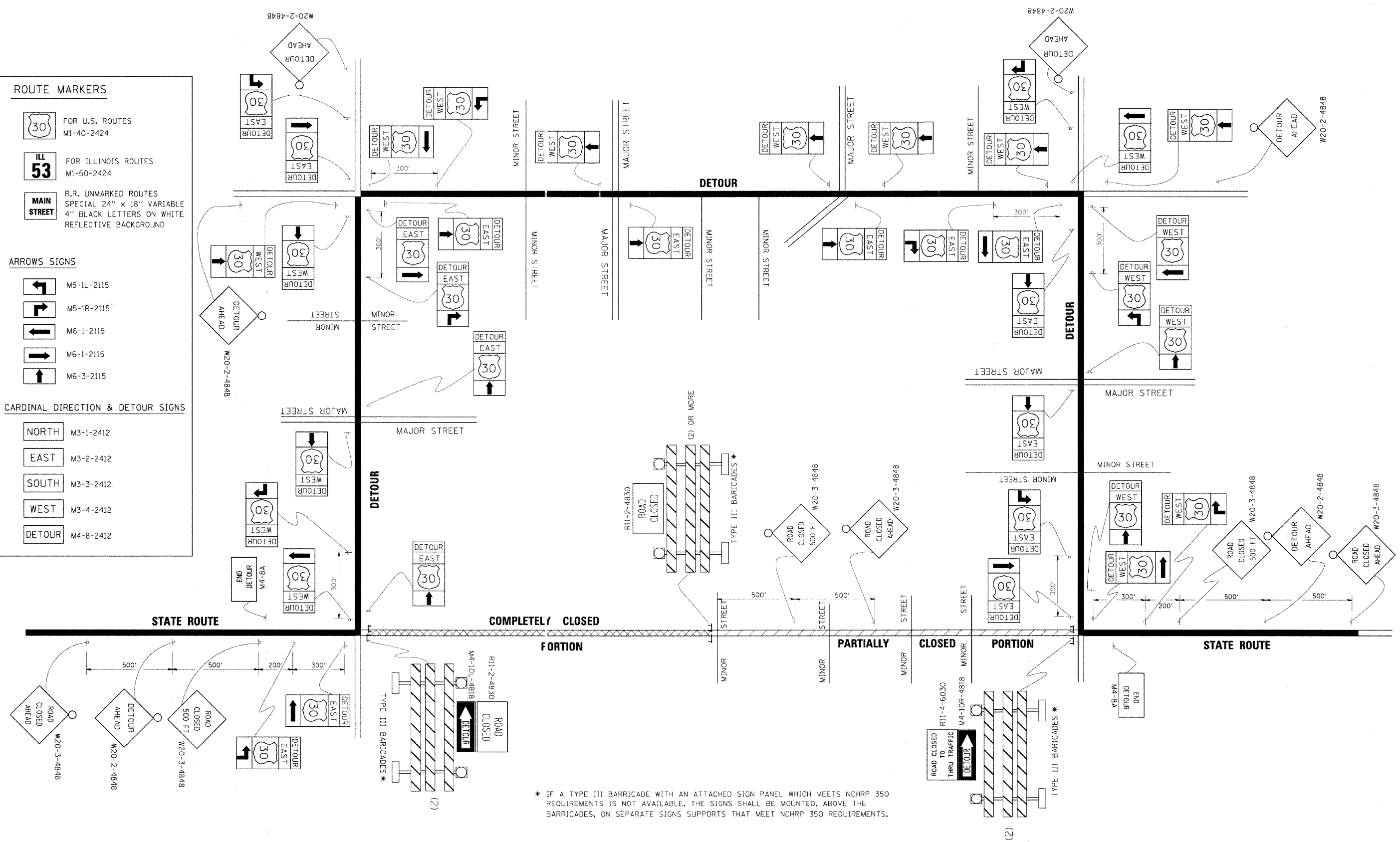
- FOR U.S. ROUTES MI-40-2424
- FOR ILLINOIS ROUTES MI-50-2424
- R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME =	DESIGNED - PETER PASCUA	REVISED -
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PLOT DATE =	DRAWN - RON ALLEN	REVISED -
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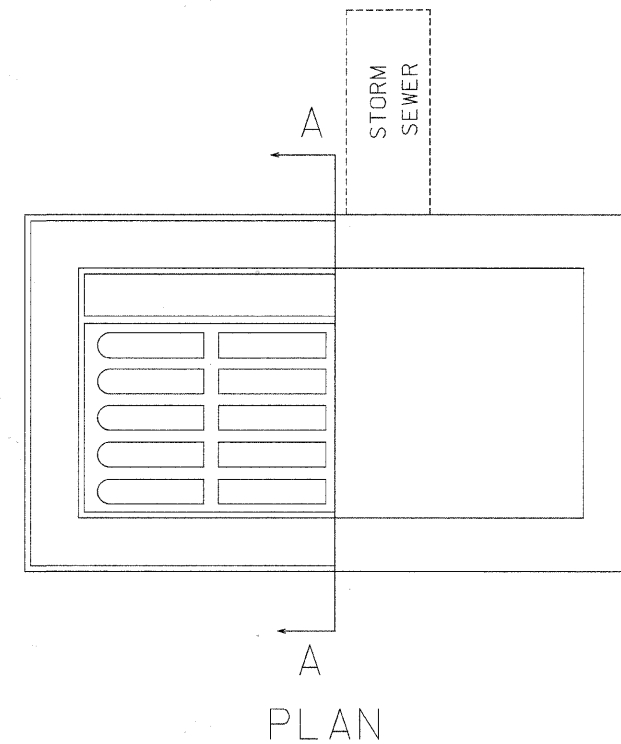
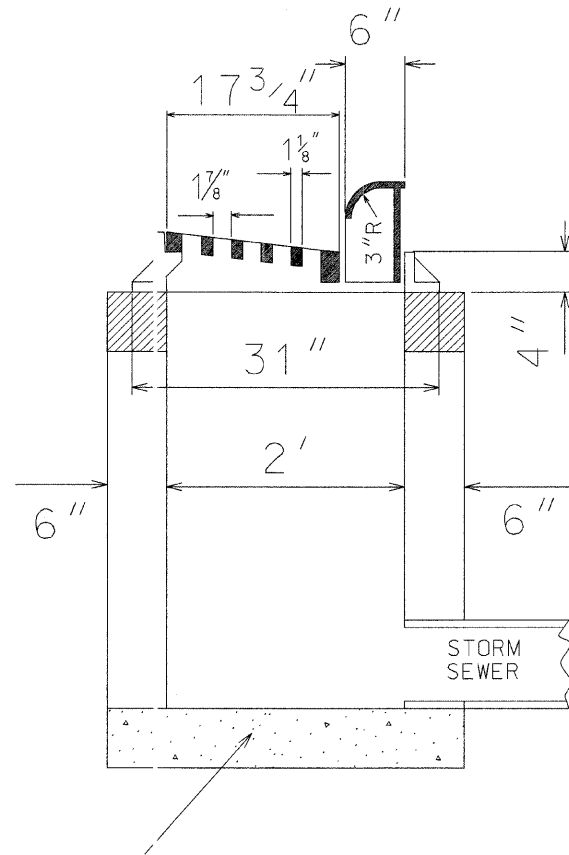
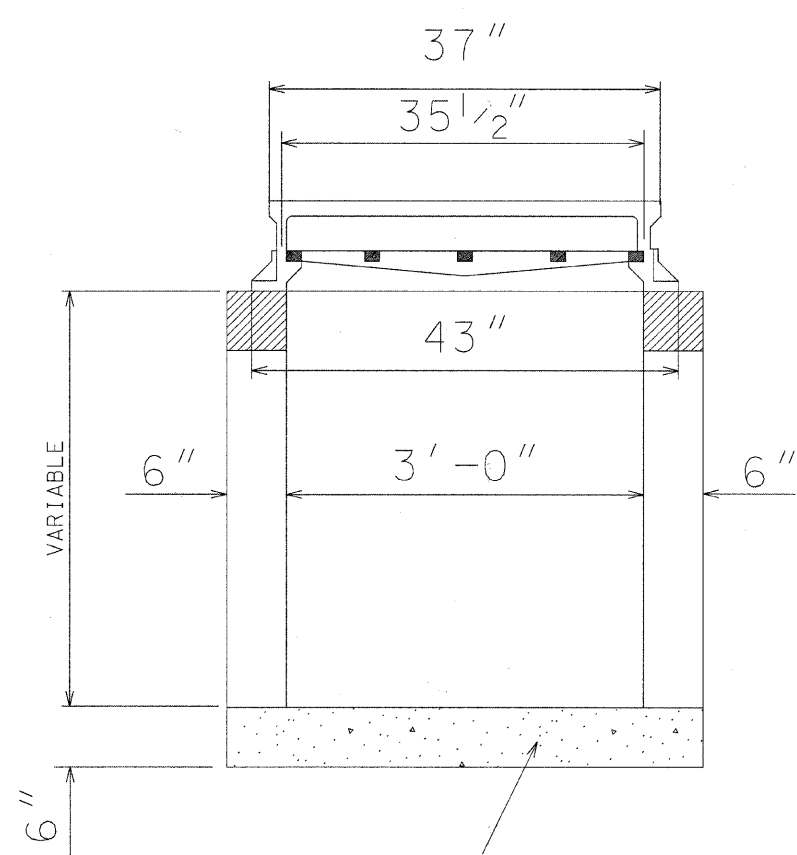
ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00

DISTRICT ONE DETAIL TC-21
STRUCTURE NO. 099-6474

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	26
WHA# 1201D10			CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-90031621				

INLETS, SPECIAL

RT STA 20+38



6" CLASS SI CONCRETE OR
4" PRECAST REINF. CONC.
SLAB ON 3" SAND CUSHION

LONGITUDINAL SECTION

SECTION A-A

NOTES:

THE INLET SHALL BE CAST IN PLACE OR PRECAST, EXCEPT AS NOTED HERE, ON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE INLET WITH SAND CUSHION IF REQUIRED. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE SIDEWALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS. THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS. THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

FRAME AND GRATE TC WEIGHT APPROXIMATELY 525 LBS.

(NEENAH R-3246 W/TYPE C GRATE OR EQUAL)

FILE NAME = S:\PROJECTS\2010\201012\BarneyDriveOverTributaryOfRockRun\InletSpecialDetail.dgn

USER NAME =	DESIGNED - L.G.N.	REVISED -
	CHECKED - G.F.S.	REVISED -
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ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

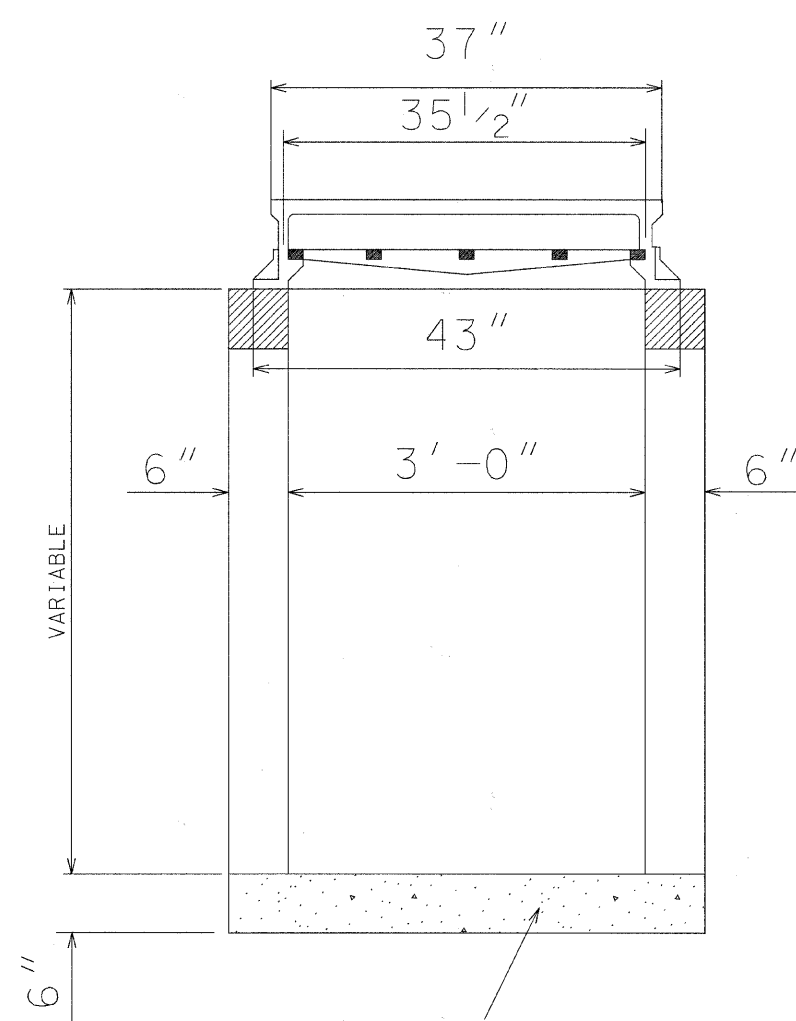
INLETS, SPECIAL DETAIL
STRUCTURE NO. 099-6474

SHEET NO. 1 OF 2 SHEETS

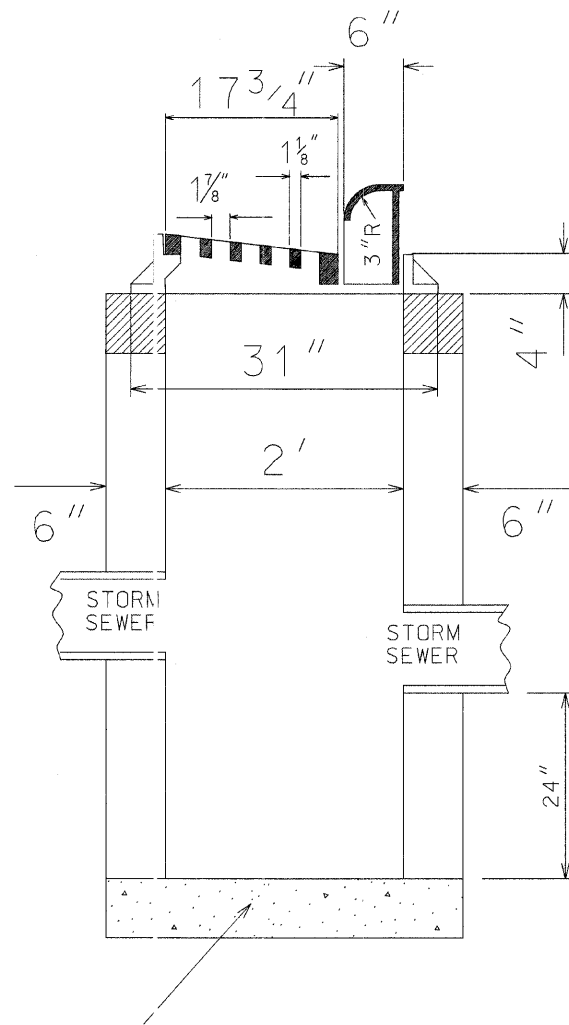
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0330	08-00413-00-BR	WILL	33	27
WHA* 1201D10			CONTRACT NO. 63571	
ILLINOIS/FED. AID PROJECT BRM-9003162)				

INLETS, SPECIAL

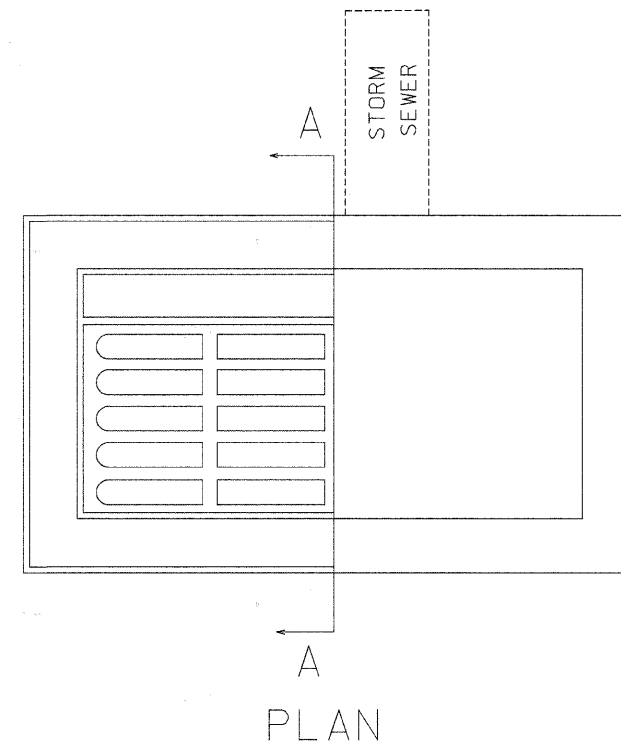
LT STA 20+38



LONGITUDINAL SECTION



SECTION A-A



PLAN

6" CLASS SI CONCRETE OR
4" PRECAST REINF. CONC.
SLAB ON 3" SAND CUSHION

NOTES:

THE INLET SHALL BE CAST IN PLACE OR PRECAST, EXCEPT AS NOTED HEREIN, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE INLET WITH SAND CUSHION IF REQUIRED. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE SIDEWALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS. THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS. THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

FRAME AND GRATE TO WEIGHT APPROXIMATELY 525 LBS.

(NEENAH R-3246 W/TYPE C GRATE OR EQUAL)

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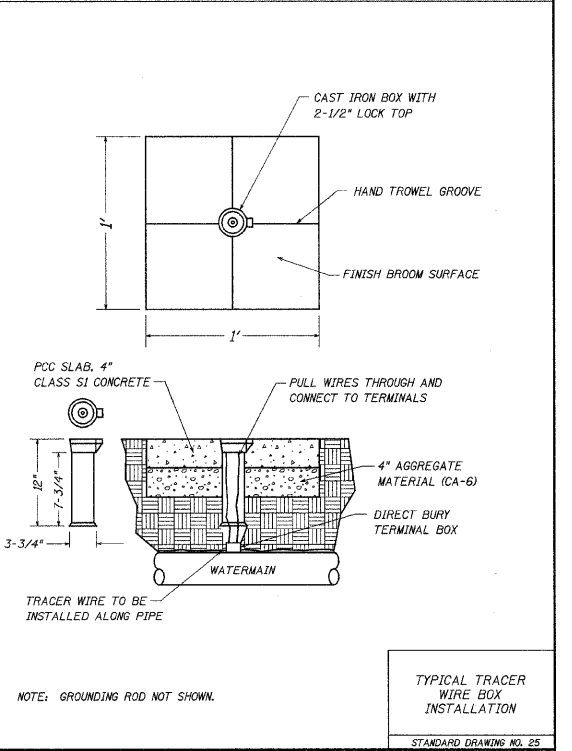
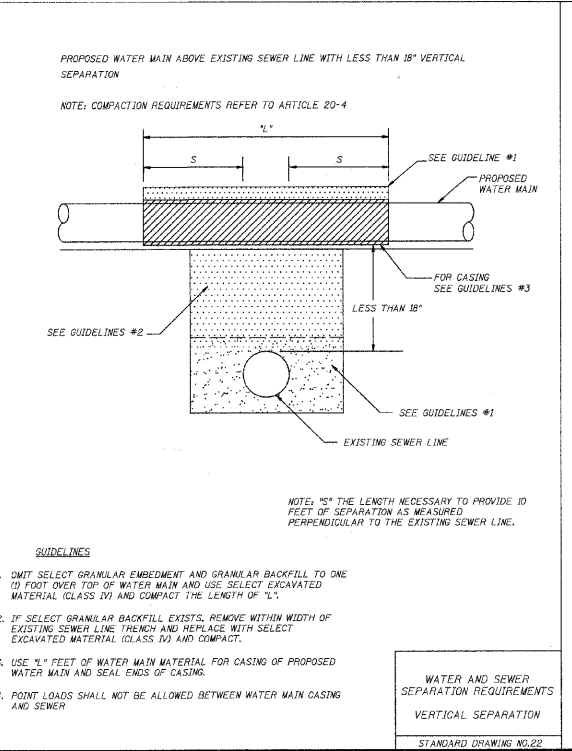
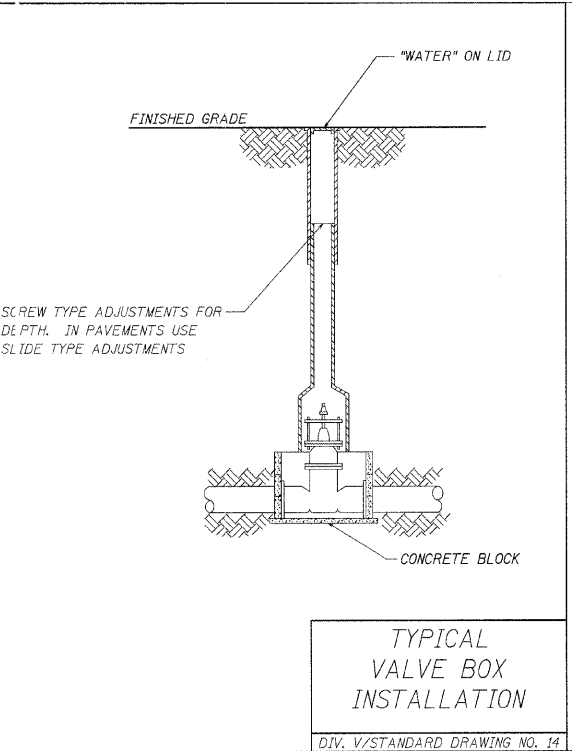
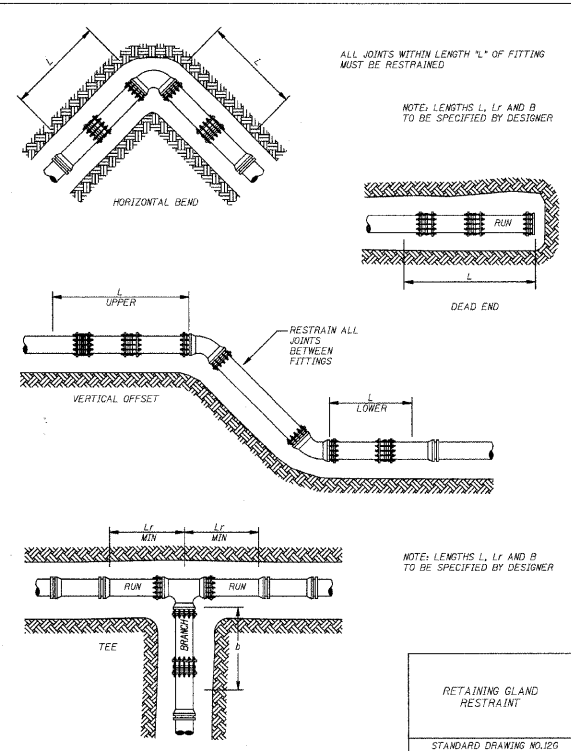
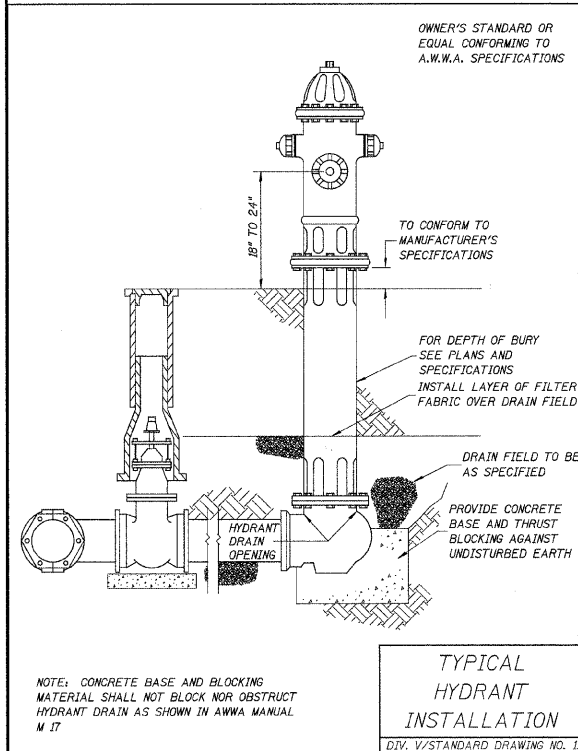
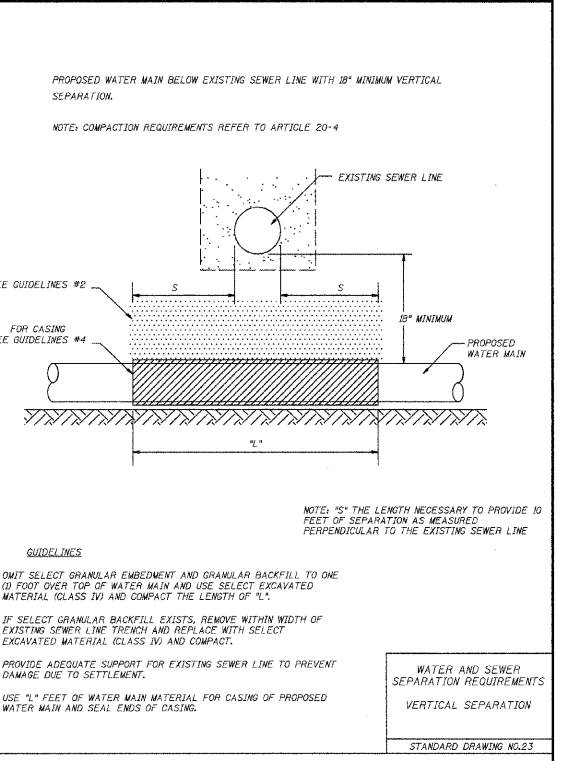
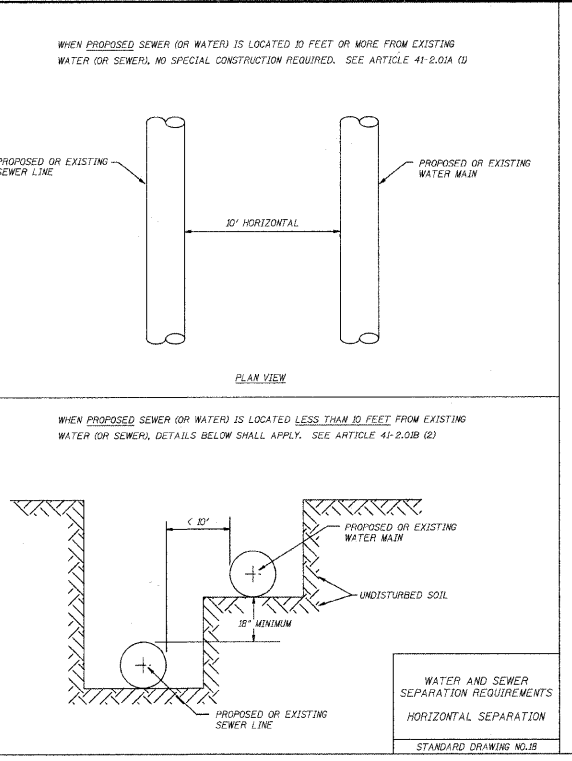
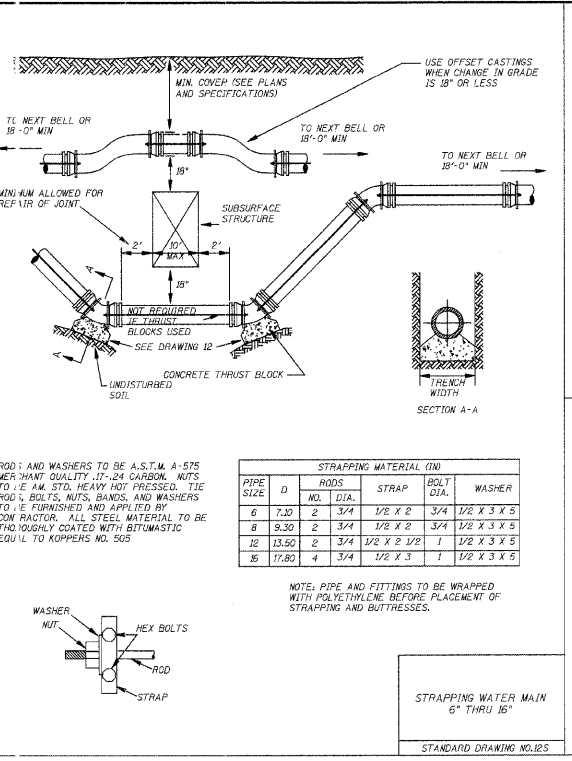
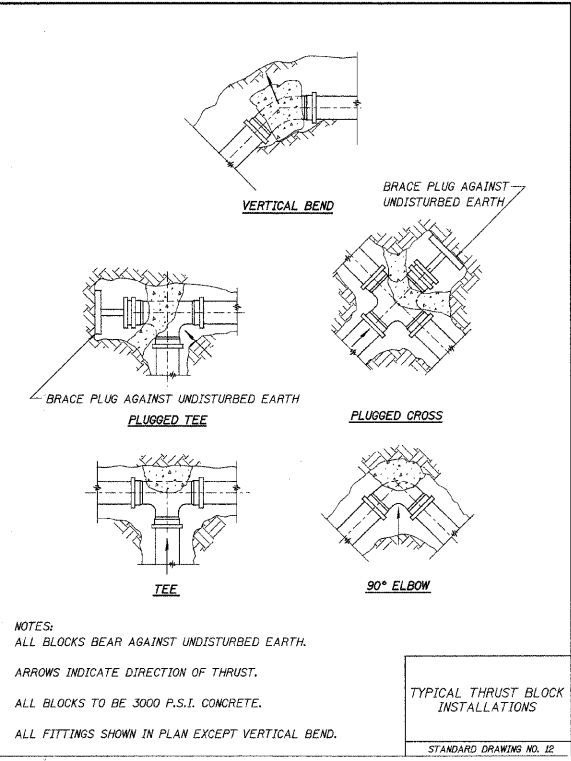
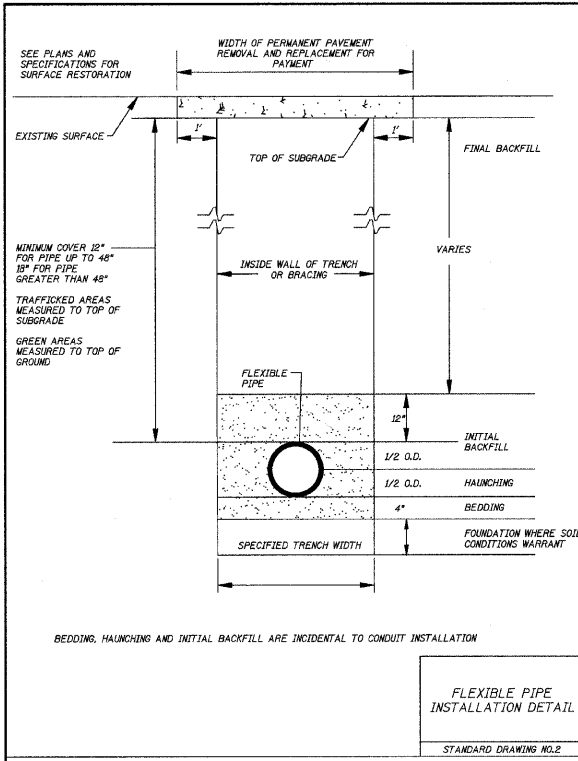
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PLOT DATE =	CHECKED - G.F.S.	REVISED -

ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00

INLETS, SPECIAL DETAIL
STRUCTURE NO. 099-6474

SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1201D10			CONTRACT NO. 63571	
ILLINOIS/FED. AID PROJECT BRW-9003162				



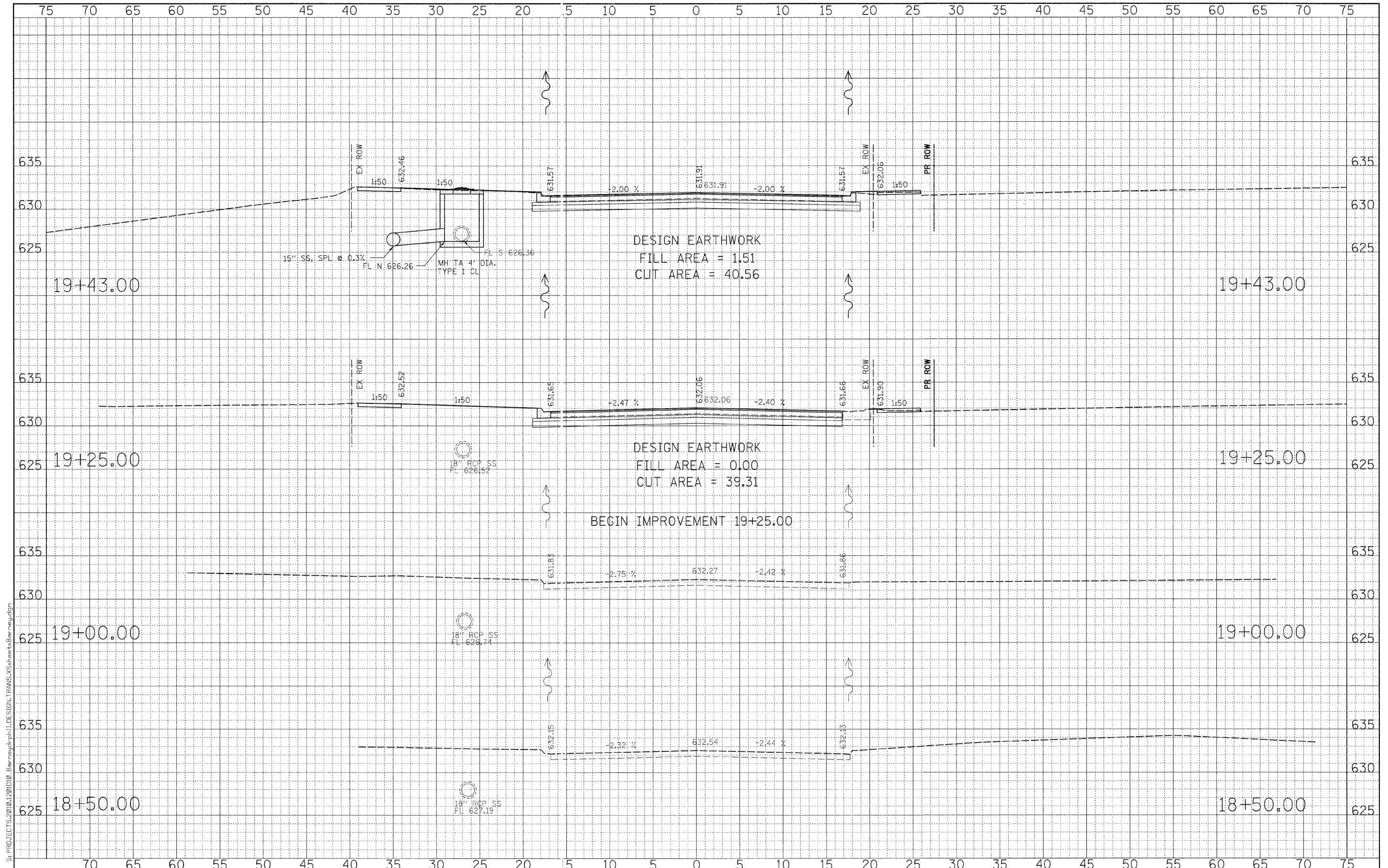
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PLOT SCALE =	CHECKED - G.M.H.	REVISED -
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**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00**

**WATERMAIN DETAILS
STRUCTURE NO. 099-6474**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	WHA# 1201D10		CONTRACT NO. 63571	
ILLINOIS FED. AID PROJECT BRM-9003162				



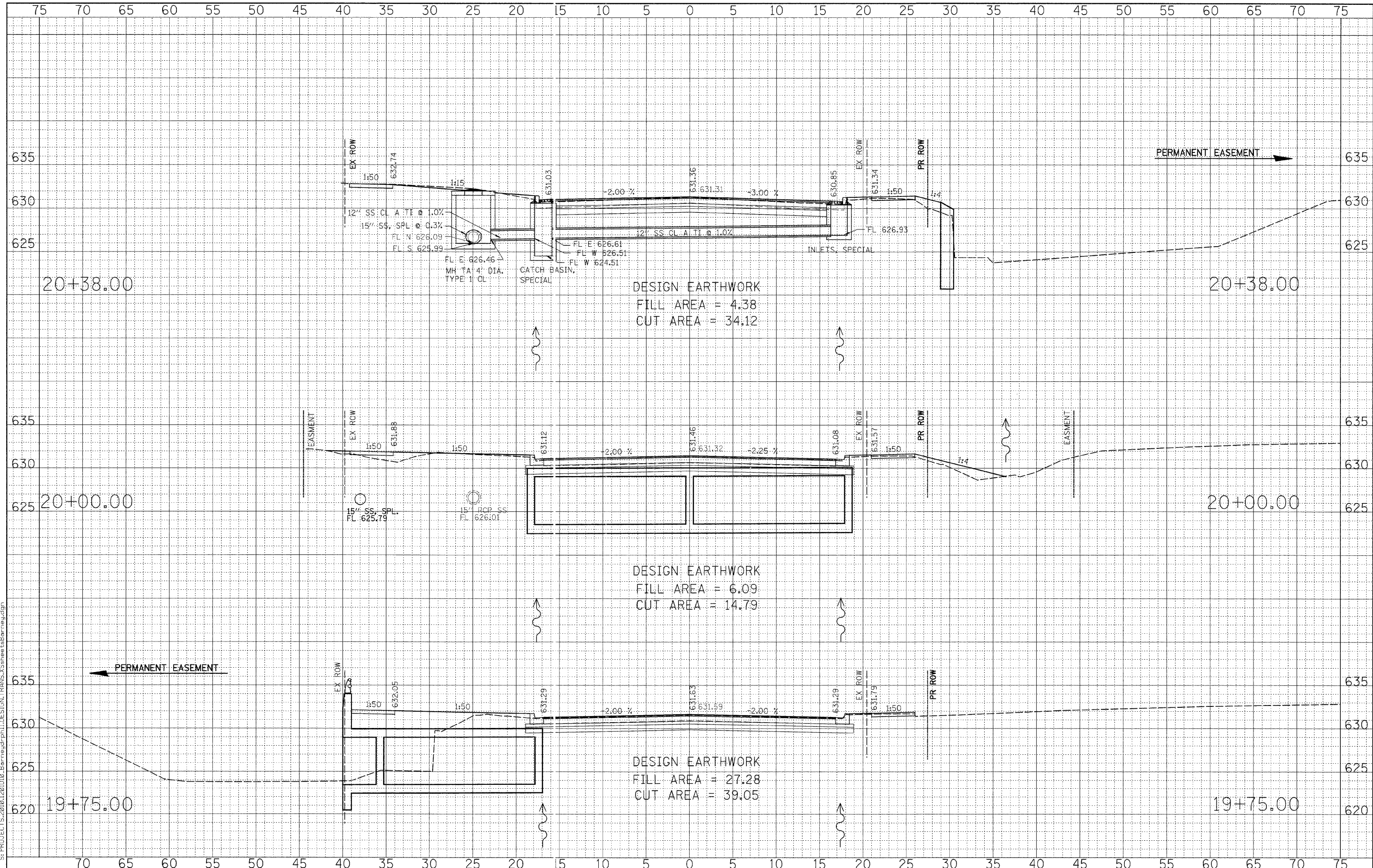
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PLOT SCALE =	DRAWN - L.G.N.	REVISED -
PLOT DATE =	CHECKED - G.F.S.	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20 + 00**

**CROSS SECTIONS - BARNEY DRIVE
STRUCTURE NO. 099-6474**
SHEET NO. 1 OF 3 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	30
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				



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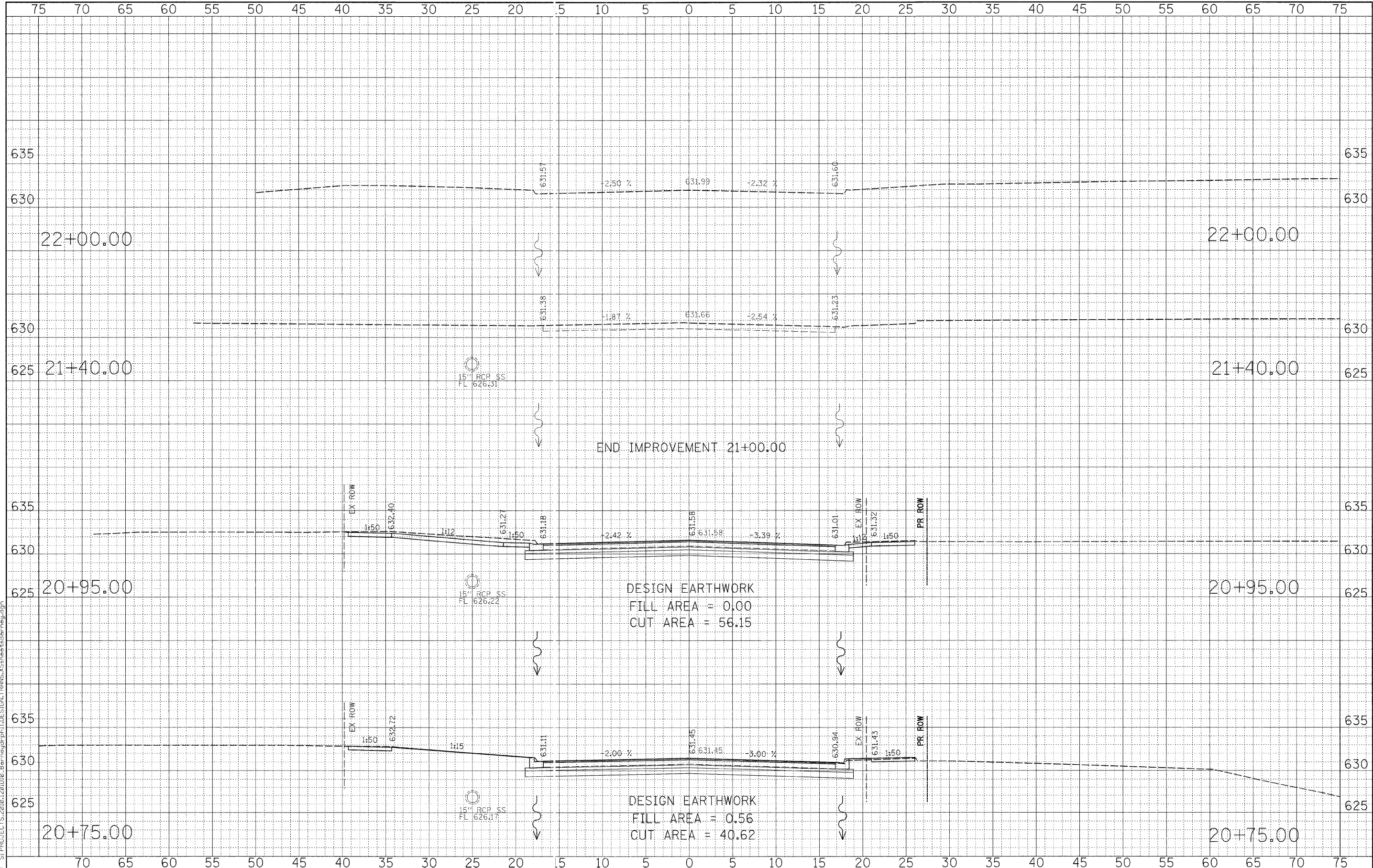
USER NAME =	DESIGNED - L.G.N.	REVISED -
PLOT SCALE =	CHECKED - G.F.S.	REVISED -
PLOT DATE =	DRAWN - L.G.N.	REVISED -
	CHECKED - G.F.S.	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20+00**

**CROSS SECTIONS - BARNEY DRIVE
 STRUCTURE NO. 099-6474**

SHEET NO. 2 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	31
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				



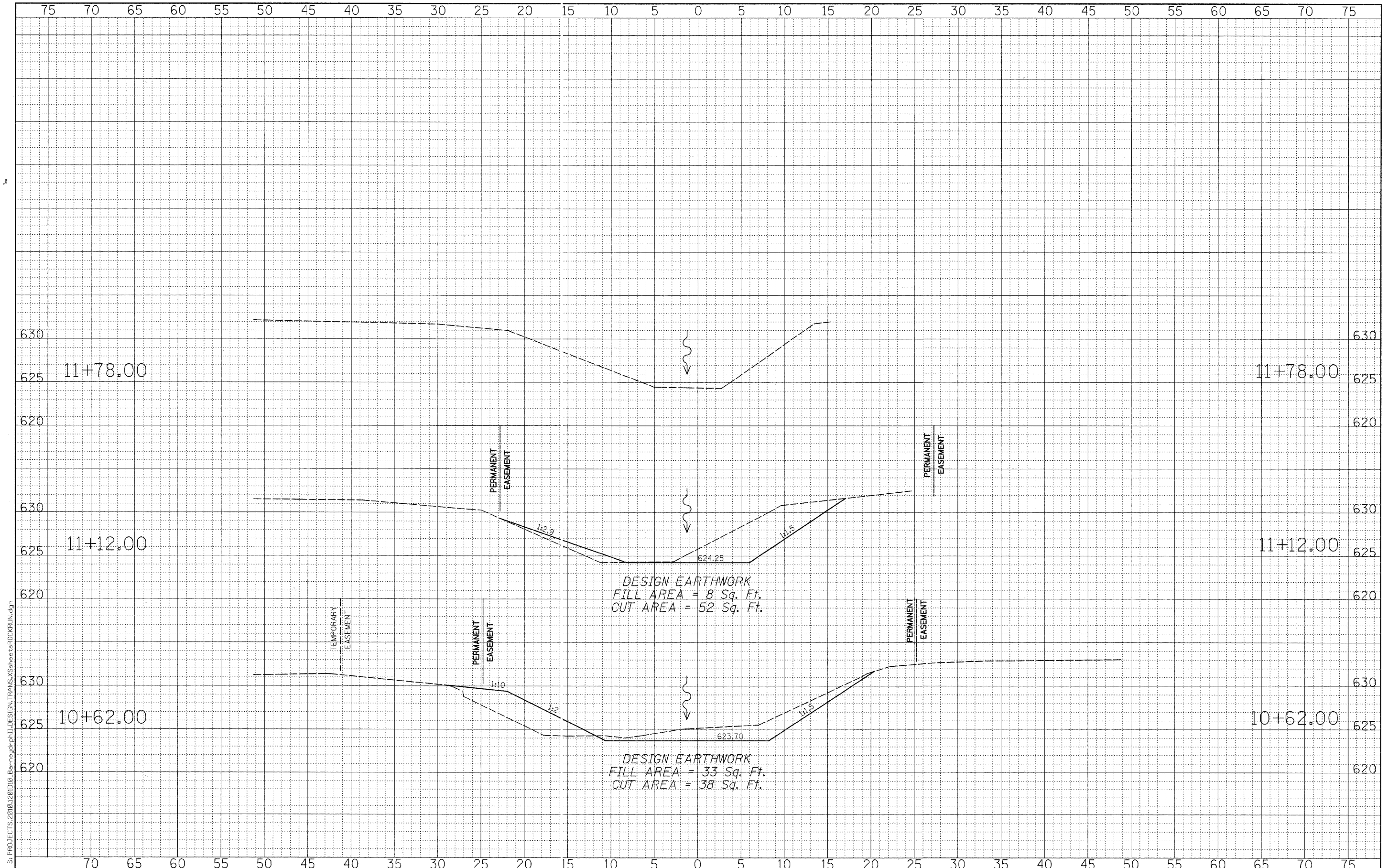
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USER NAME =	DESIGNED - L.G.N.	REVISED -
PLOT SCALE =	CHECKED - G.F.S.	REVISED -
PLOT DATE =	DRAWN - L.G.N.	REVISED -
	CHECKED - G.F.S.	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
STATION 20+00**

**CROSS SECTIONS - BARNEY DRIVE
STRUCTURE NO. 099-6474**
SHEET NO. 3 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	32
WHA# 1201010		CONTRACT NO. 63571		
ILLINOIS FED. AID PROJECT BRM-90031621				



DESIGN EARTHWORK
 FILL AREA = 8 Sq. Ft.
 CUT AREA = 52 Sq. Ft.

DESIGN EARTHWORK
 FILL AREA = 33 Sq. Ft.
 CUT AREA = 38 Sq. Ft.

FILE NAME = S:\PROJECTS\2010\1201010\BarneyDrive\PH1\DESIGN\TRANS\XSheets\603\CRUN.dgn

USER NAME =	DESIGNED - PETER PASCUA	REVISED -
PLOT SCALE =	CHECKED - BRIAN CONVERSE	REVISED -
PLOT DATE =	DRAWN - RON ALLEN	REVISED -
	CHECKED - BRIAN CONVERSE	REVISED -

**ILLINOIS DEPARTMENT OF TRANSPORTATION
 BARNEY DRIVE OVER TRIBUTARY OF ROCK RUN
 STATION 20+00**

**CROSS SECTIONS - TRIBUTARY OF ROCK RUN
 STRUCTURE NO. 099-6474**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0330	08-00413-00-BR	WILL	33	33
WHA* 1201010		CONTRACT NO. 63571		
<small>ILLINOIS FED. AID PROJECT BRM-9003(162)</small>				