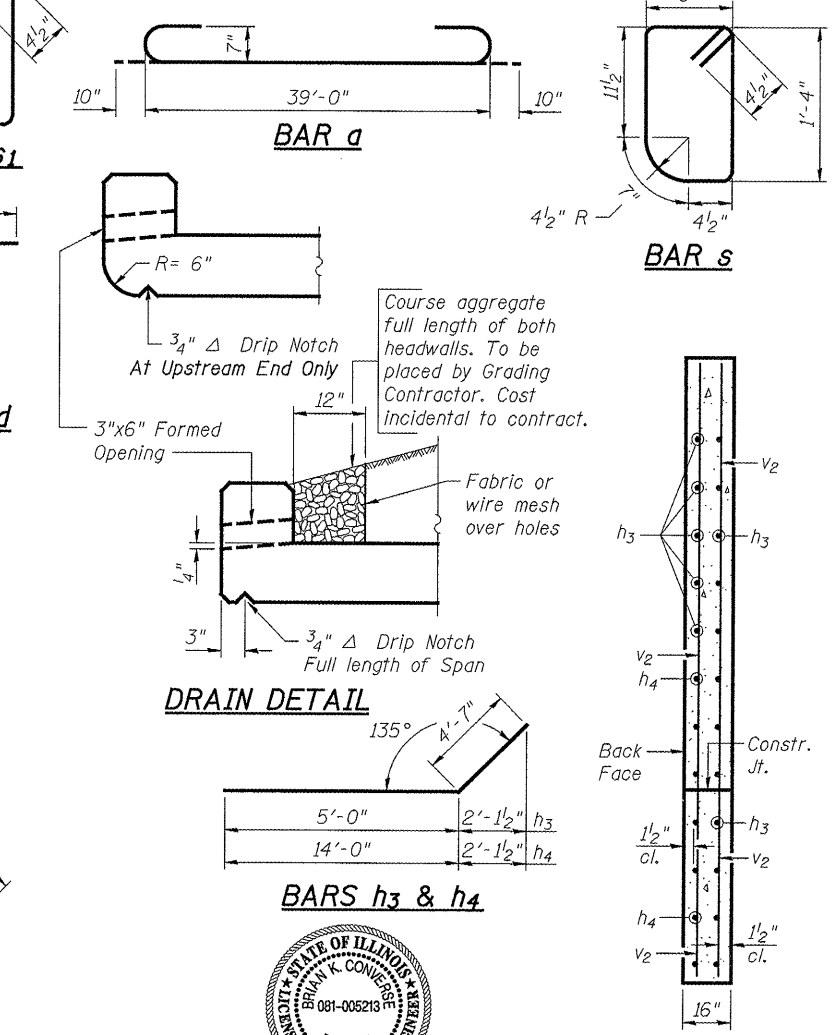
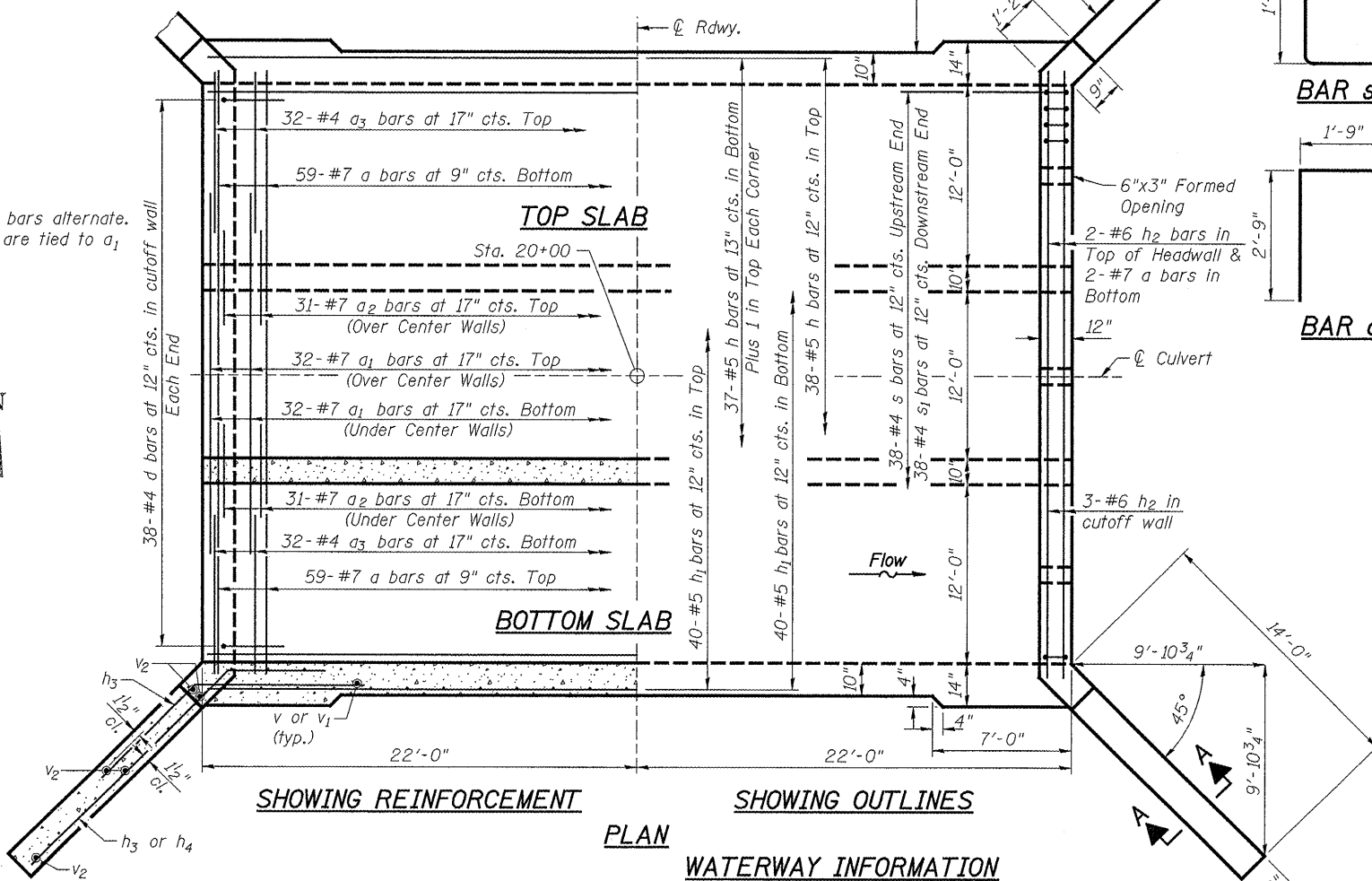


REINFORCEMENT



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	122	#7	40'-8"	U
a1	64	#7	22'-10"	—
a2	124	#7	6'-4"	—
a3	128	#4	9'-7"	—
d	76	#4	4'-6"	T
h	77	#5	43'-8"	—
h1	144	#5	43'-8"	—
h2	10	#6	38'-0"	—
h3	72	#9	9'-7"	—
h4	44	#9	18'-7"	—
v	254	#4	9'-9"	—
v1	254	#4	2'-9"	—
v2	80	#4	13'-10"	—
s	38	#4	4'-9"	□
s1	38	#4	4'-11"	□
Concrete Box Culverts			Cu. Yds.	215.9
Reinforcement Bars			Lbs.	34,650
Name Plate			Each	1
Porous Granular Embankment			Cu. Yds.	230
Removal of Existing Structures			Each	1

NOTES:
 Class SI Concrete shall be used throughout. Exposed edges shall be beveled 3/4".
 For backfill and embankment, see Standard Specifications.
 Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
 A min. of 7'-0" of barrel shall be poured monolithically with wings.
 It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the Unit bid price of "Concrete Box Culverts".
PRECAST OPTION NOT ALLOWED.

STATION 20+00
TRIPLE BARREL 12'-0" x 9'-6" R.C. BOX CULVERT
NORTH KENT ROAD OVER BRANCH OF YELLOW CREEK
SECTION 10-00177-00-BR
STEPHENSON COUNTY

NAME PLATE LETTERING
 Refer to Std. 515001

BRANCH OF YELLOW CREEK
 BUILT 2012 BY
 STEPHENSON COUNTY
 SECTION 10-00177-00-BR
 STATION 20+00
 STR. NO. 089-5139 LOADING HS20

WATERWAY INFORMATION
 DRAINAGE AREA 2.56 Sq. Mi.
 DESIGN DISCHARGE (20 YR.) 1,210 C.F.S.
 EXISTING OPENING 166 Sq. Ft.
 REQUIRED OPENING 332 Sq. Ft.
 PROPOSED OPENING 332 Sq. Ft.
 100 YR. DISCHARGE 1,892 C.F.S.

DESIGN SPECIFICATIONS
 Design in accordance with AASHTO Specifications dated 2002 17th Edition.

LOADING
 HS20-44

DESIGN STRESSES
 fy = 60,000 p.s.i.
 f'c = 3,500 p.s.i.

"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 Complies With Requirements Of The Current "AASHTO Standard Specifications For Highway Bridges."



Brian K. Conover
 DATE: 11-2-2011
 EXPIRES 11/30/12

TRIPLE BARREL BOX CULVERT DETAILS
STRUCTURE NO. 089-5139
STRUCTURAL SHEET 1 OF 1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	10-00177-00-BR	STEPHENSON	15	10
WHA# 1119D10		CONTRACT NO. 85548		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BRS-00631061		

FILE # SA-PROJECTS\2010\1119D10\Stephenson_Co_N_Kent_Road\DESIGN\STRUCT\Drawings\1119D10_Culvert_LDRN