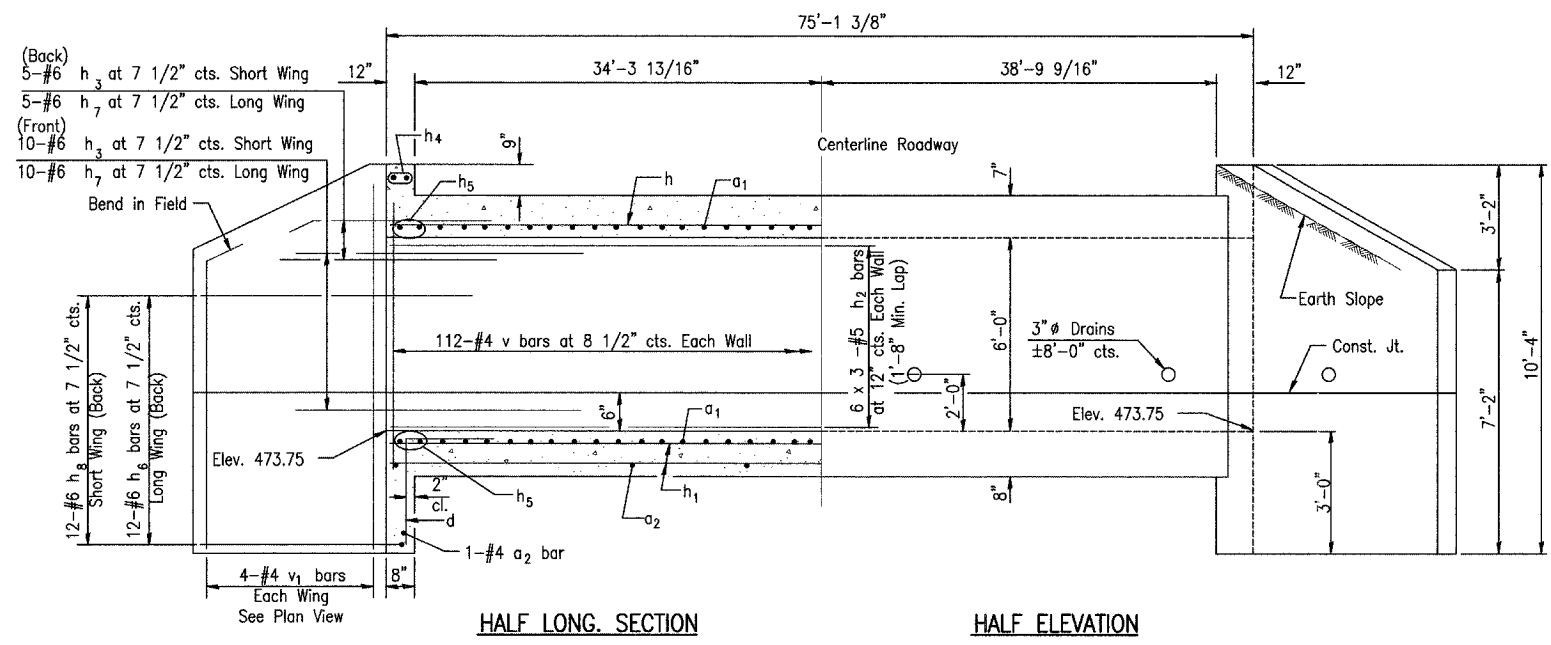
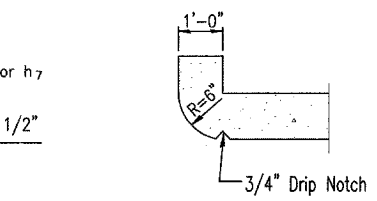
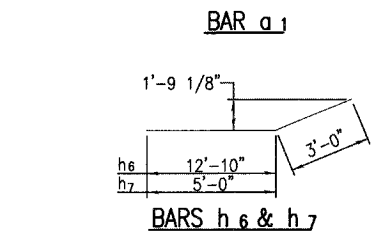
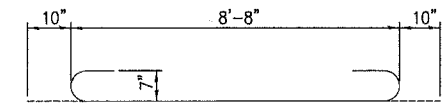
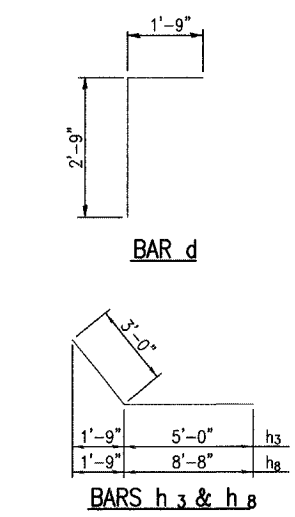


\*\* Varies at each end of box.  
See plan view.

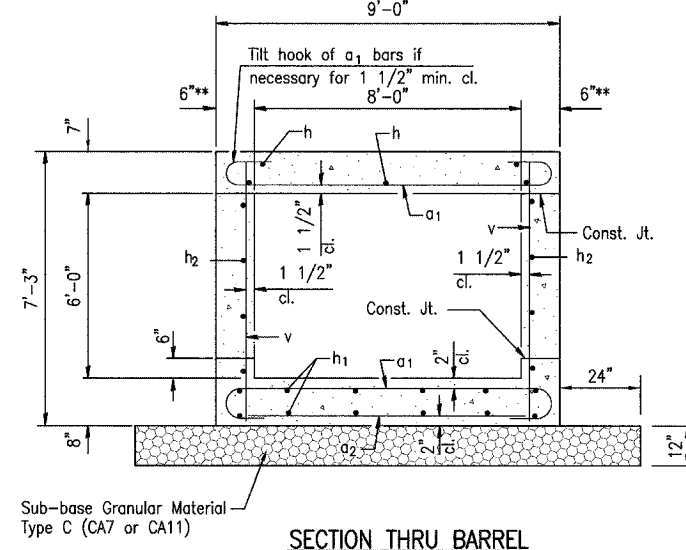


HALF LONG SECTION HALF ELEVATION



DESIGN STRESSES  
fy = 60,000 psi  
f'c = 3,500 psi

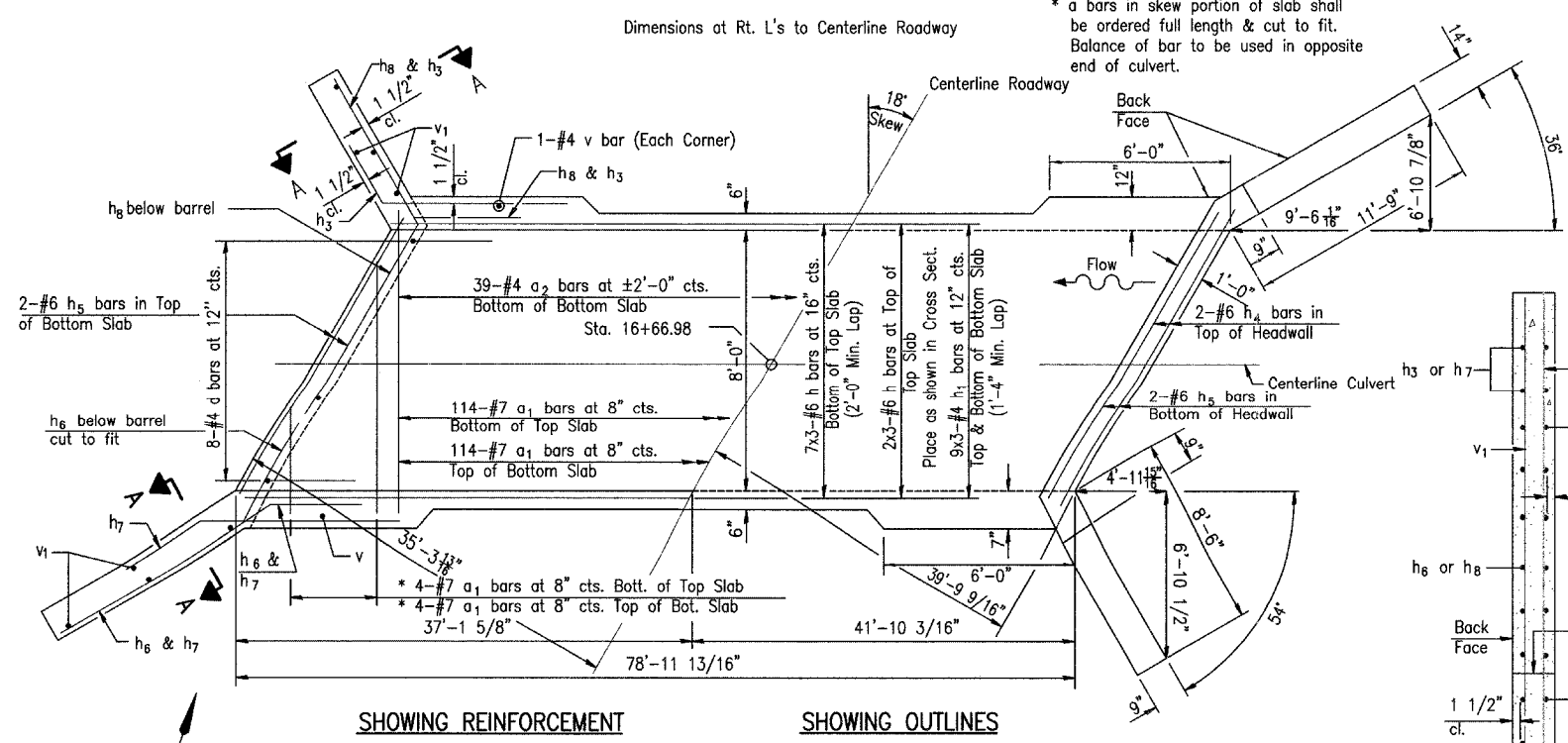
LOADING HS 20-44



SECTION THRU BARREL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	240	#7	10'-4"	U
a2	41	#4	8'-8"	—
d	16	#4	4'-6"	U
h	27	#6	27'-7"	—
h1	54	#4	27'-2"	—
h2	36	#5	27'-5"	—
h3	30	#6	8'-0"	—
h4	4	#6	9'-10"	—
h5	4	#6	9'-10"	—
h6	24	#6	15'-10"	—
h7	30	#6	8'-0"	—
h8	24	#6	11'-8"	—
h9	16	#5	4'-0"	—
v	228	#4	6'-11"	—
v1	16	#4	10'-0"	—
Concrete Box Culverts		Cu. Yd.	67	
Reinforcement Bars		Pound	11540	
Channel Excavation		Cu. Yd.	115	
Sub-base Granular Material, Type C		Ton	78	

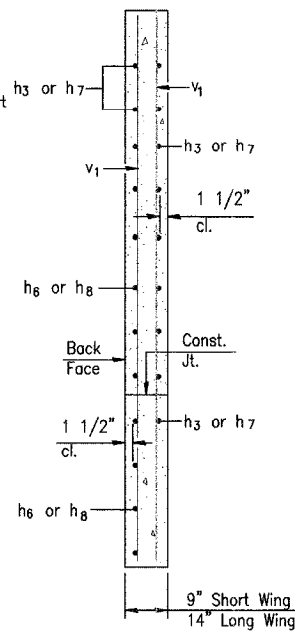
Note  
The South Mill race has been dewatered to the extent possible by Marseilles Hydro Power LLC. Flow in the race is controlled by gates at the Illinois River. The flow in the race is due to leakage of these gates. The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer.



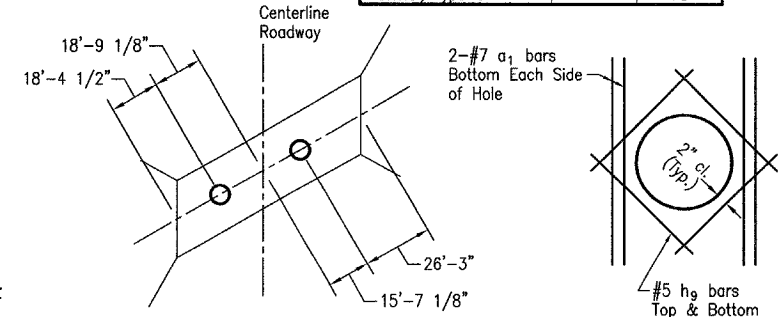
SHOWING REINFORCEMENT SHOWING OUTLINES PLAN

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.  
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.  
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.  
All construction joints shall be bonded.



SECTION A-A



INLET LOCATION

HOLE REINFORCEMENT DETAIL

SSB-H-R 10-22-04

DRAWN BY: NOE/LAG	CAD/DWG: SSB-H-R	REVISIONS
CHECKED BY: JKC	DATE: 05/07	DATE BY

**CHAMLIN ASSOCIATES**  
PERU MORRIS ILLINOIS

FAS ROUTE 268 (CH 15) MAIN ST. OVER SOUTH MILL RACE  
SECTION 07-00644-00-BR  
LASALLE COUNTY

BOX CULVERT DETAIL

SCALE: N.T.S.	SHEET 8
FILE NO.: 11670.00Y-1	OF 13