

PROJECT REFERENCE NO.	SHEET NO.
R-4707	EC-6A/CONST06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 56+34.9 -L-

PHASE I UPSTREAM

- Utilize Skimmer Basin 6.15(CG) as Stilling Basin #1. Construct Diversion Channel and Impervious Dikes A,B, and C.
- Pump Effluent into Stilling Basin and divert flow to Diversion Channel.
- Construct Southernmost barrels 1 and 2, perform proposed Channel Work for stream realignment and install Rip-Rap on proposed channel.
Note: Northernmost existing barrel used to convey flow during Phase 1 Construction.
- Bore and Jack portion of 60" RCP beneath roadway.
- Install upstream portion of 60" RCP and tie-in to portion beneath existing roadway with proposed JB w/Slab lid.

PHASE I DOWNSTREAM

- Utilize Skimmer Basin 6.18(CG) as Stilling Basin #2. Construct Impervious Dike M, and pump effluent into basin.
- Construct Southernmost barrels 4,5
Note: Northernmost existing barrel used to convey flow during Phase 1 Construction.
- Install Downstream portion of 60" RCP and tie-in with portion beneath existing roadway with proposed JB w/ Slab Lid.

Diversion Channel Information

Slope = 0.6%
2 yr. storm = 760 cfs
6' Base with 2:1 sides
water depth = 5.9'; vel. = 7.2 ft/sec

Stilling Basin Information

(Stilling Basin #1)
Stilling Basin Water Volume = 546 cu. yd.
Sediment Basin Volume = 156 cu. yd.

(Stilling Basin #2)
Stilling Basin Water Volume = 494 cu. yd.
Stilling Basin Volume = 136 cu. yd.

Note:
Phases I, II, and III should be completed simultaneously for both culverts to minimize flow time duration in diversion flow conditions.

