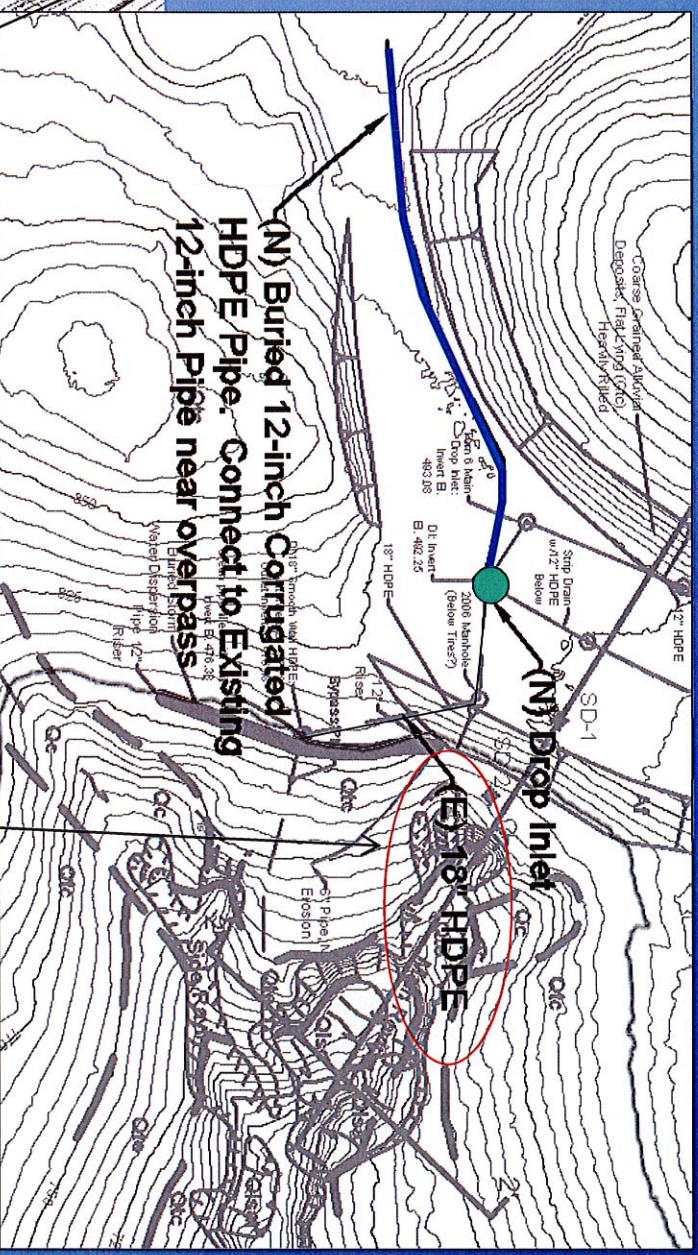
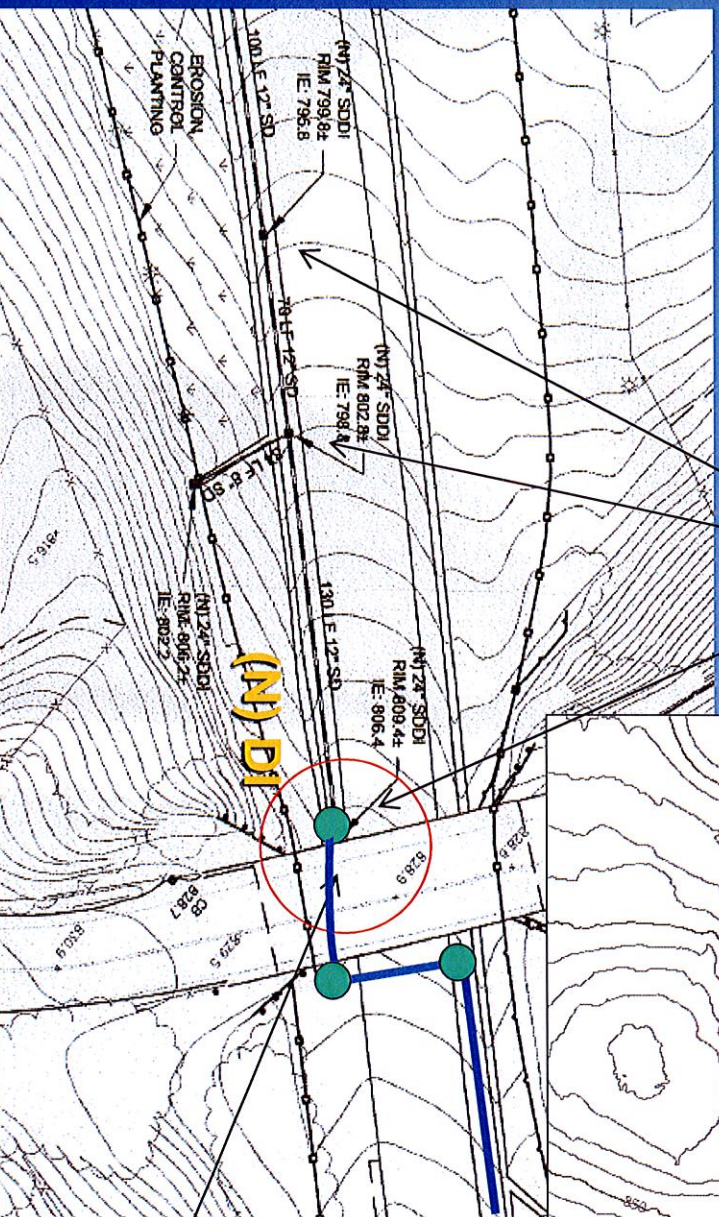


MITIGATION OPTION 5A - REROUTE WATER TO TURN 5

Highly dependent on maintenance of DI's (clogged during initial mapping)



Can Turn 6 water be discharged into 12\"/>

Whitson 2006, Sheet C1.4



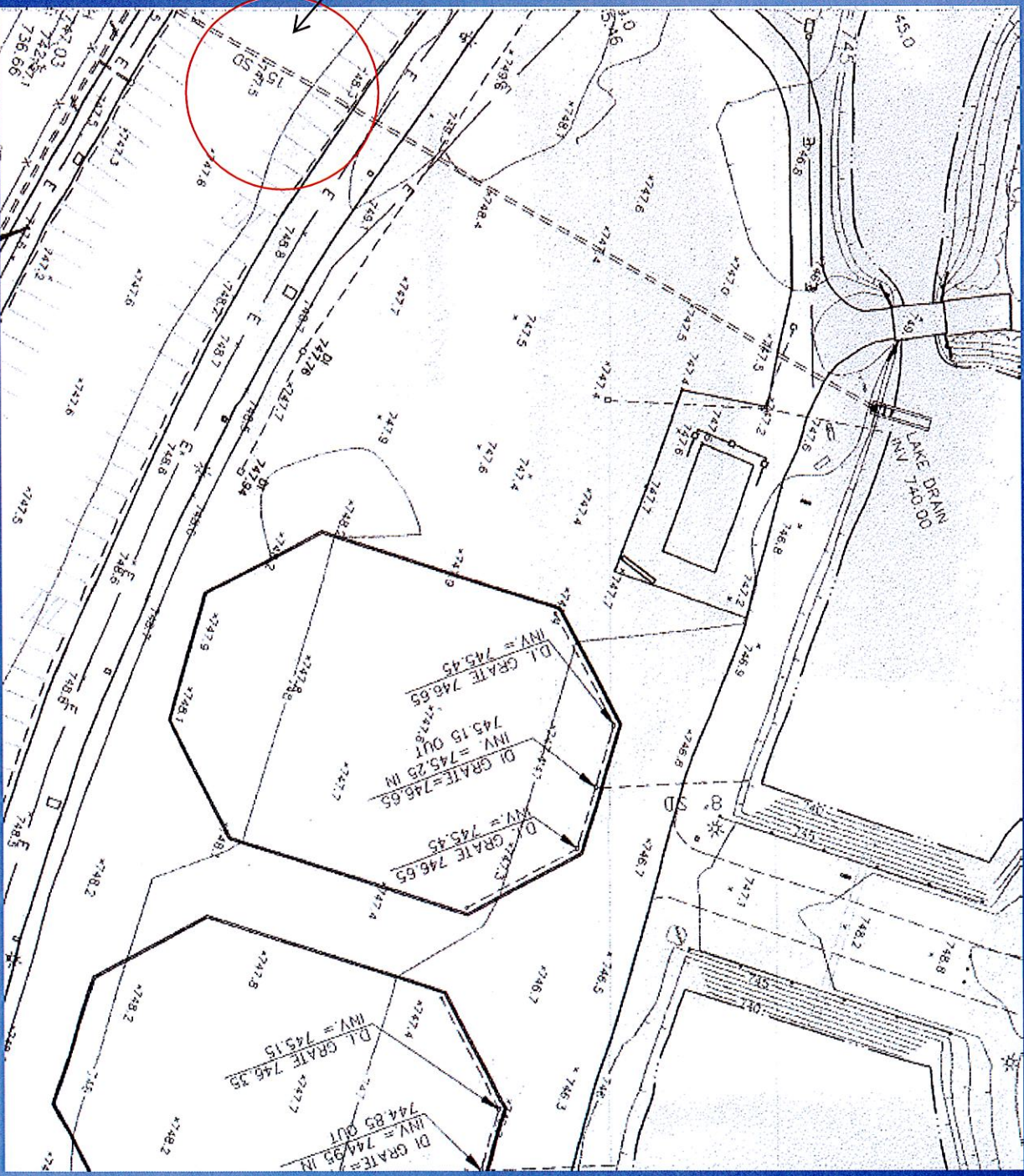
COTTON, SHIRES & ASSOCIATES, INC.
CONSULTING ENGINEERS AND GEOLOGISTS

**Discharge
location of 12"
SD not shown
on adjacent
plan sheet**



MITIGATION OPTION 5A - REROUTE WATER TO TURN 5

Only lake outlet observed on plans. 15" diameter. Lake inlet pipes vary from 12"-36" diameter



MITIGATION OPTION 5A – REROUTE WATER TO TURN 5

Option		Pros	Cons
5A - Bypass to Turn 5 System	\$292,338	Reduces potential for continued rapid incision in Main Ravine (Haz 1), and reduces potential for other hazards.	May require Appropriative Water Diversion Permit
		Dependency on good weather is low	Possible negative impact on habitat downstream of main ravine due to decrease of water
			Requires hydraulic engineering assessment of Turn 6 drainage (12" pipe large enough), Turn 5 drainage (to make sure Turn 6 water will not overwhelm the pipe, and to locate discharge location) and the overall lake inflow/outflow and outlet pipe
			Highly dependent on maintenance and cleaning of Turn 6 Main Drop Inlet, and 2006 drop inlets and pipe between Turn 5 and Turn 6.



MITIGATION OPTION 5C - REROUTE WATER TO NEW DETENTION BASIN



Option		Pros	Cons
5C - Bypass to New Basin	\$902,096	Same as Option 5A	Same as Option 5A
			Increased engineering costs to design and size the basin
			Decrease of useable space