

Prelim Culvert Documentation										
Corresponding Cascade Cavern Culvert ID	Type	Size	Length	# Barrels	Pay Quantity Length	Assumed Slope	End Treatments	End Treatment Height	End Treatment Quantity	DS Channel Assumptions
Culvert 1	MBC	6 X 4	77	10	770	1.00	PW	6.00	2	Channel must be widened
Culvert 2	MBC	6 X 3	77	2	154	0.50	SETB-FW-0	5.00	4	Roadside V-ditch
Culvert 3	RCP	24"	77	1	77	0.50	SET	-	2	Roadside V-ditch
Culvert 4	MBC	3 x 2	290	2	580	0.50	SETB-FW-0	4.00	4	Existing flat-bottom is reconstructed
Culvert 5	MBC	6 X 3	102	4	408	0.50	SETB-FW-30	5.00	8	Existing channel is maintained
Culvert 6	MBC	6 X 4	129	4	516	0.50	SETB-FW-0	6.00	8	Outfalls into flat field
Existing Hotel Culvert	MBC	6 X 4	55	3	165	-	SETB-FW-0	6.00	6	Downtown of Culvert 4. Match Exist culverts
Clear Sky Detention Pond outfall	RCP	12"	15	2	30	-	-	-	-	Ties existing outfall to SS
Apartment Development outfall	RCP	24"	40	2	80	-	SET	-	2	Ties existing outfall to SS

Storm Sewer					
Project Length	RCP Length	Sag Inlets	On Grade Inlets	Manholes	TEP
3800	7600	8	26	16	3800

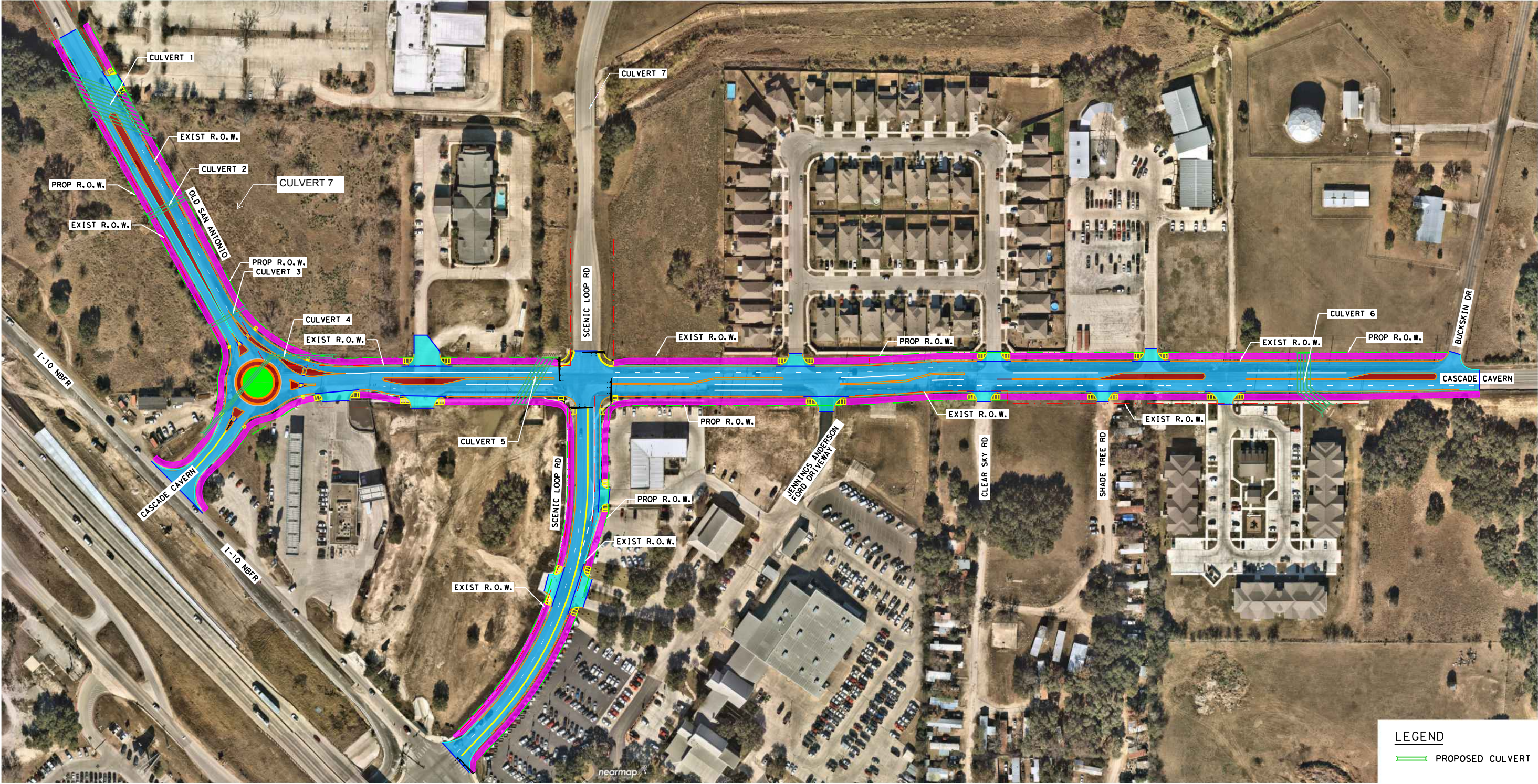
ATTACHMENT B  
IMPROVEMENTS SCHEMATIC

Revised City of Boerne Hydrologic Analysis	
IH-10 Culvert ID	100-yr Flow (CFS)
Culvert 11	1422.42
Culvert 12	186.23
Culvert 13	-
-	8.98
Culvert 13A	47.22
Culvert 14	397.85
-	364.39

NOTE:  
1. FULL HYDROLOGIC ANALYSIS OF CULVERTS WAS NOT PERFORMED AS PART OF THIS CONCEPT DEVELOPMENT. FLOWS (Q) SHOWN ARE ESTIMATED FROM TXDOT AS-BUILTS FOR IH-10 CONSTRUCTION (CSJ 0072-06-074, CSJ 0072-06-075) BY CONVERTING INTENSITIES (I) TO ATLAS-14 FLOW DATA AND ACCOUNTING FOR ADDITIONAL DRAINAGE AREA CONTRIBUTING TO PROPOSED CULVERTS.

CONCEPTUAL PROPOSED LAYOUT  
CASCADE CAVERNS  
4-LANE W/ MEDIAN OPTION

Kimley»Horn F-928



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