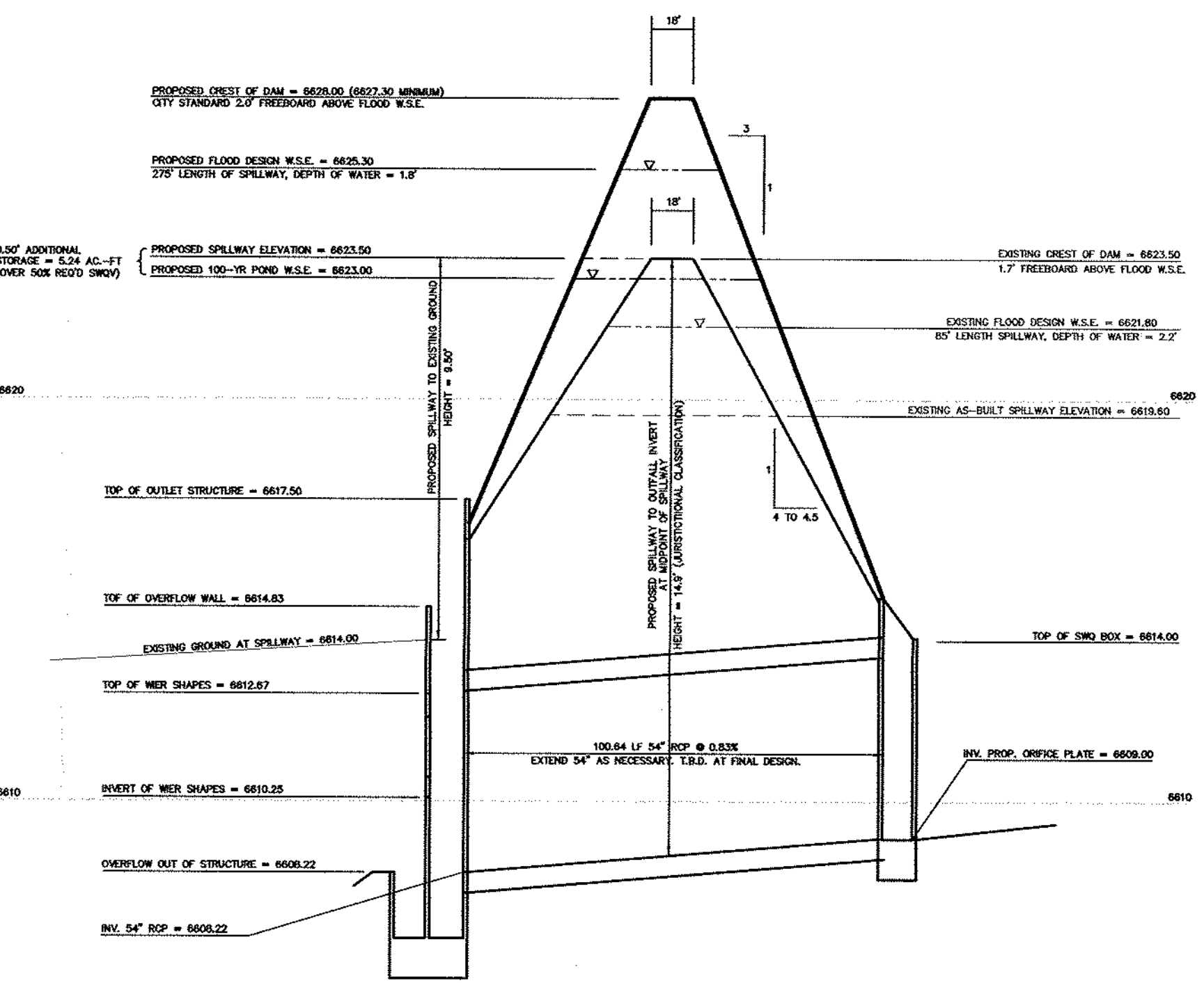


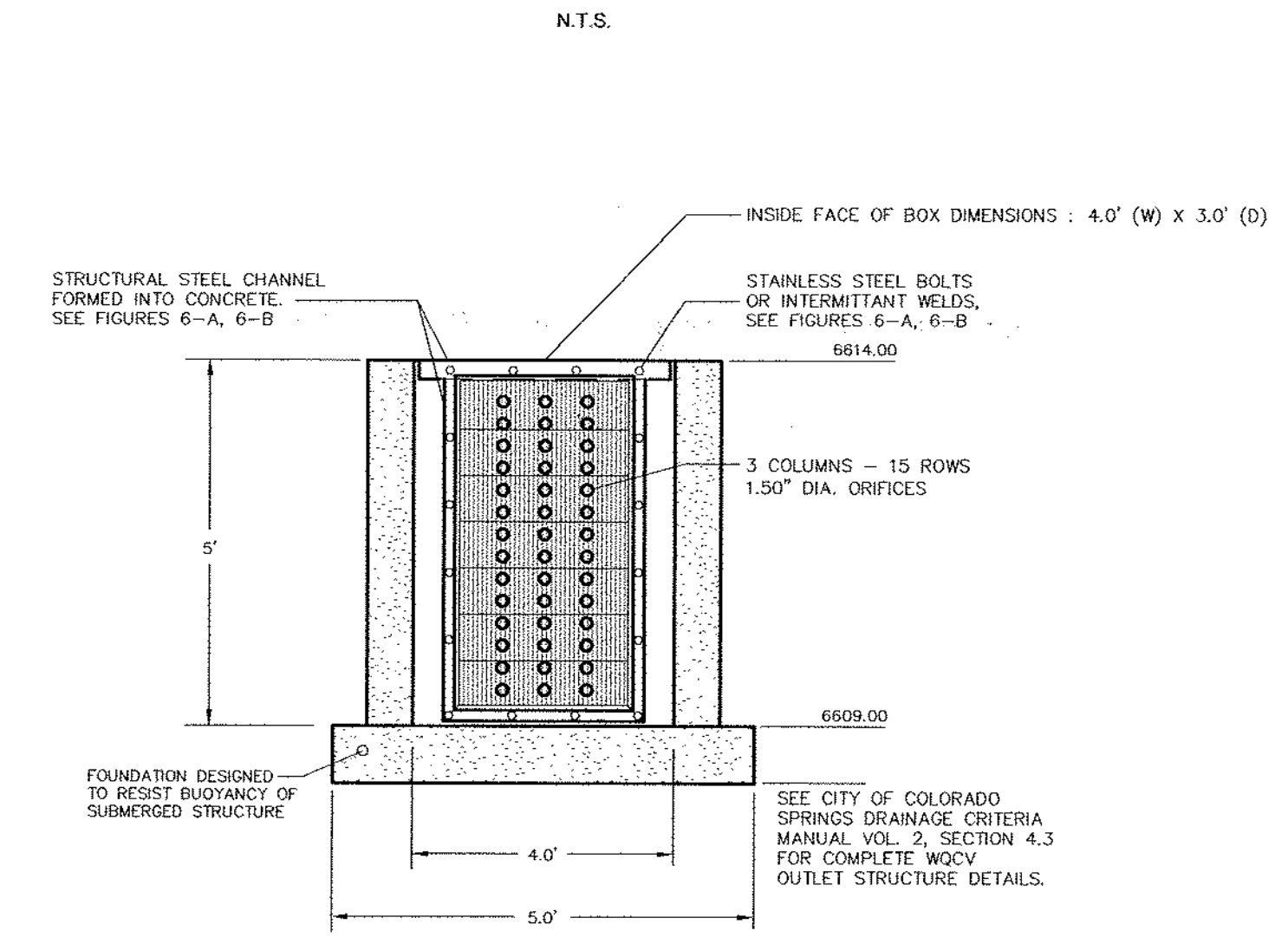
**Design Procedure Form: Extended Detention Basin (EDB) - Sedimentation Facility**

Sheet 1 of 3  
 Designer: Matt Larson  
 Company: Classic Consulting  
 Date: July 20, 2007  
 Project: INTERQUEST SOUTH  
 Location: EK-1

1. Basin Storage Volume		$V_s =$	72.00	%
A) Tributary Area's Imperviousness Ratio ( $i = I_p / 100$ )		$i =$	0.72	
B) Contributing Watershed Area (Area)		Area =	305.20	acres
C) Water Quality Capture Volume (WQCV) ( $WQCV = 1.0 * (0.91 * P - 1.19 * F + 0.78 * I)$ )		WQCV =	0.28	watershed inches
D) Design Volume: $Vol = (WQCV / 12) * Area * 1.2$		Vol =	8.679	acre-feet
2. Outlet Works				
A) Outlet Type (Check One)		<input checked="" type="checkbox"/>	Orifice Plate	
		<input type="checkbox"/>	Perforated Riser Pipe	
		<input type="checkbox"/>	Other:	
B) Depth at Outlet Above Lowest Perforation (H)		H =	5.00	feet
C) Required Maximum Outlet Area per Row, ( $A_o$ )		$A_o =$	5.46	square inches
D) Perforation Dimensions (enter one only): i) Circular Perforation Diameter OR ii) 2" Height Rectangular Perforation Width		D =	1.5000	inches, OR
		W =		inches
E) Number of Columns (nc, See Table 6a-1 For Maximum)		nc =	3	number
F) Actual Design Outlet Area per Row ( $A_o$ )		$A_o =$	5.30	square inches
G) Number of Rows (nr)		nr =	15	number
H) Total Outlet Area ( $A_o$ )		$A_o =$	79.52	square inches



**WATER QUALITY DETAILS**



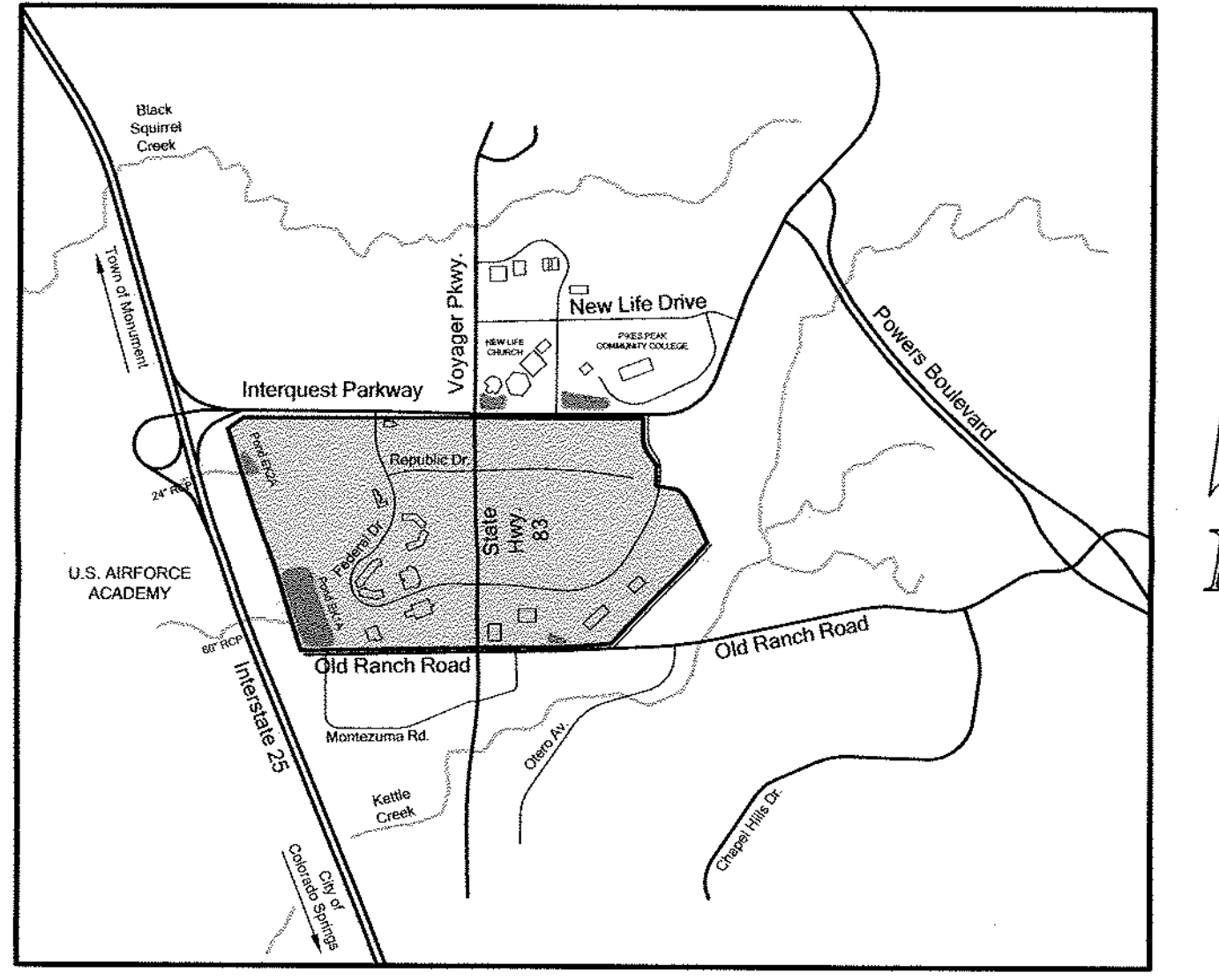
**CONCEPTUAL POND IMPROVEMENT PLAN ONLY. FINAL CONSTRUCTION DOCUMENTS TO BE ISSUED PRIOR TO ANY CONSTRUCTION ON POND.**

**WATER QUALITY STRUCTURE**

N.T.S.

**LEGEND**

- EXISTING MINOR CONTOUR (6608)
- EXISTING MAJOR CONTOUR (6610)
- PROPOSED MINOR CONTOUR (6608)
- PROPOSED MAJOR CONTOUR (6610)



**CLASSIC CONSULTING ENGINEERS & SURVEYORS**

INTERQUEST SOUTH  
 DETENTION POND EK1A  
 PROPOSED GRADING PLAN  
 FULLY DEVELOPED CONDITIONS

DESIGNED BY	MAL	SCALE	DATE	7-25-07
DRAWN BY	JHB	(H) 1" = 60'	SHEET	1 OF 1
CHECKED BY	(V) 1" = N/A	JOB NO.	2190.00	

6385 Corporate Drive, Suite 101 Colorado Springs, Colorado 80919 (719)785-0790 (719)785-0799 (Fax)