

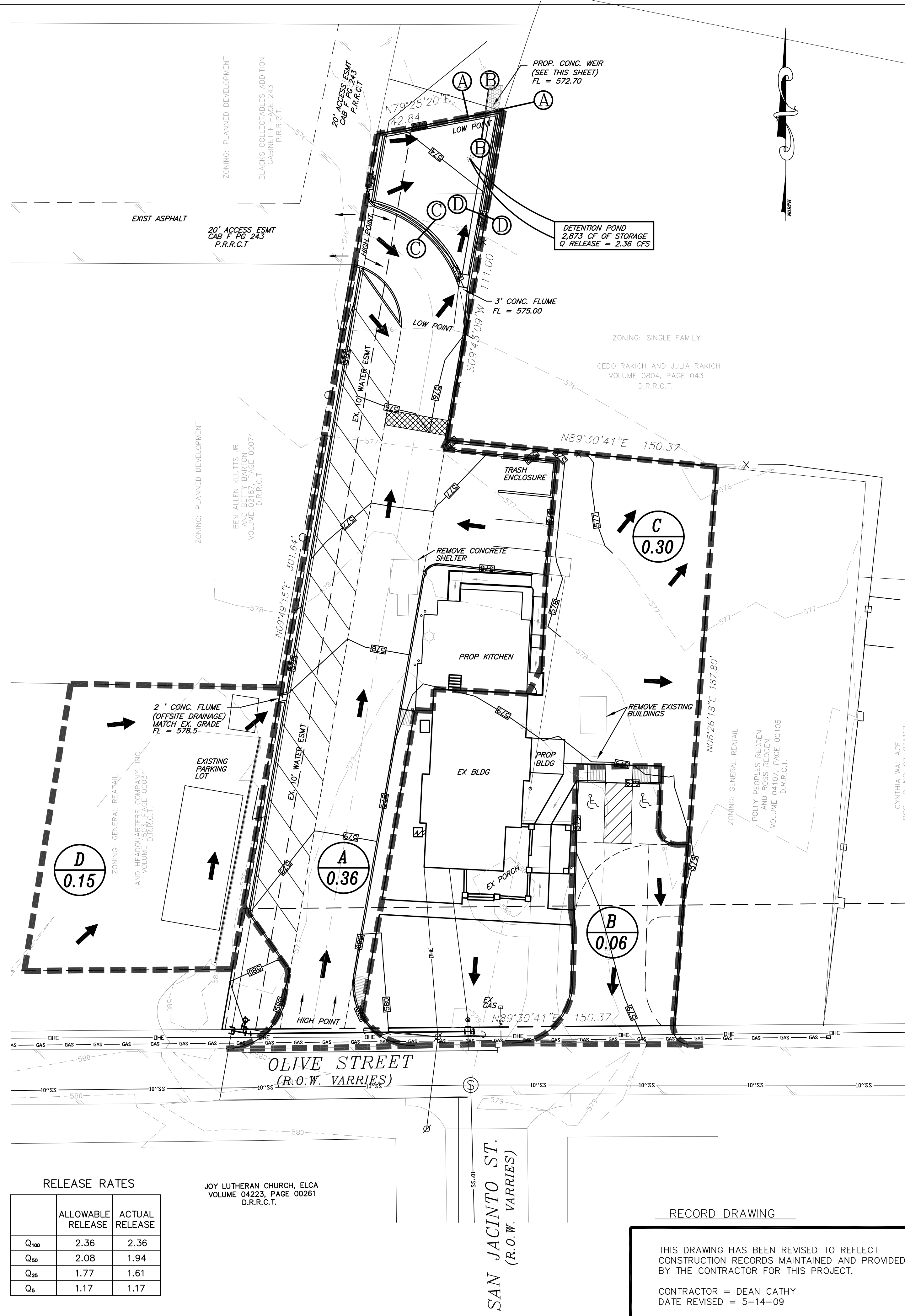
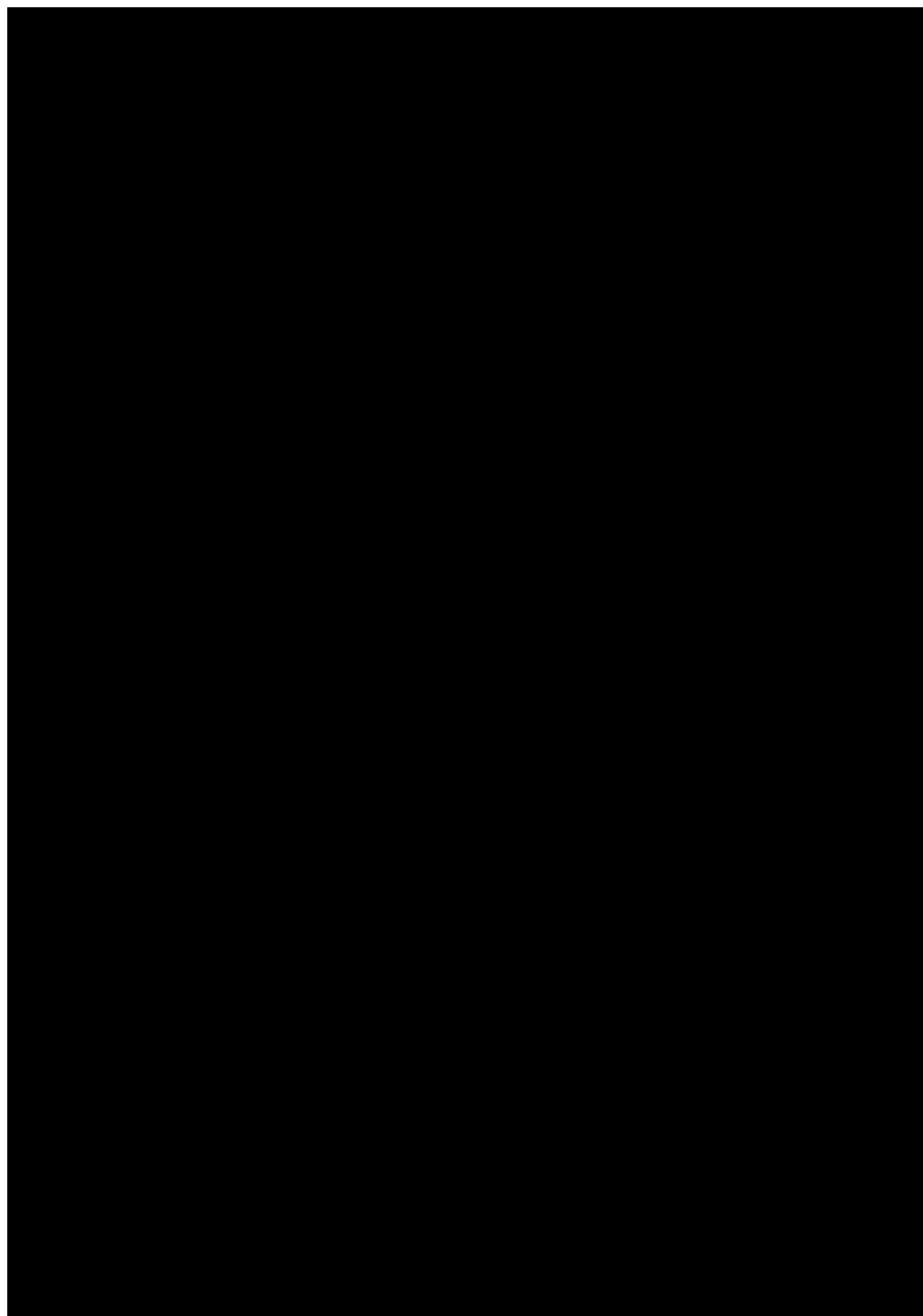
CALCULATIONS

EXISTING DRAINAGE CALCULATIONS Q=CIA						
DRAINAGE AREA	AREA (Acres)	C	Time of Conc. (Min.)	I ₁₀₀	Q ₁₀₀	Remarks
A	0.36	0.50	20.0	8.3	1.49	EXISTING DRAINAGE
B	0.06	0.50	20.0	8.3	0.25	EXISTING DRAINAGE
C	0.30	0.50	20.0	8.3	1.25	EXISTING DRAINAGE
D	0.15	0.90	20.0	8.3	1.12	OFFSITE DRAINAGE

PROPOSED DRAINAGE CALCULATIONS Q=CIA						
DRAINAGE AREA	AREA (Acres)	C	Time of Conc. (Min.)	I ₁₀₀	Q ₁₀₀	Remarks
A	0.36	0.90	10.0	9.8	3.18	TO DETENTION POND
B	0.06	0.90	10.0	9.8	0.53	BYPASS TO OLIVE ST.
C	0.30	0.90	10.0	9.8	2.65	EXISTING DRAINAGE
D	0.15	0.90	10.0	9.8	1.32	TO DETENTION POND

GUTTER CAPACITY							
DRAINAGE AREA	AREA (Acres)	C	Time of Conc. (Min.)	I ₁₀₀	Q ₁₀₀	GUTTER SLOPE (%)	GUTTER CAPACITY CFS
A	0.36	0.90	10.0	9.8	3.18	1.5%	22.25
B	0.06	0.90	10.0	9.8	0.53	0.60%	14.07

DETENTION POND



RELEASE RATES

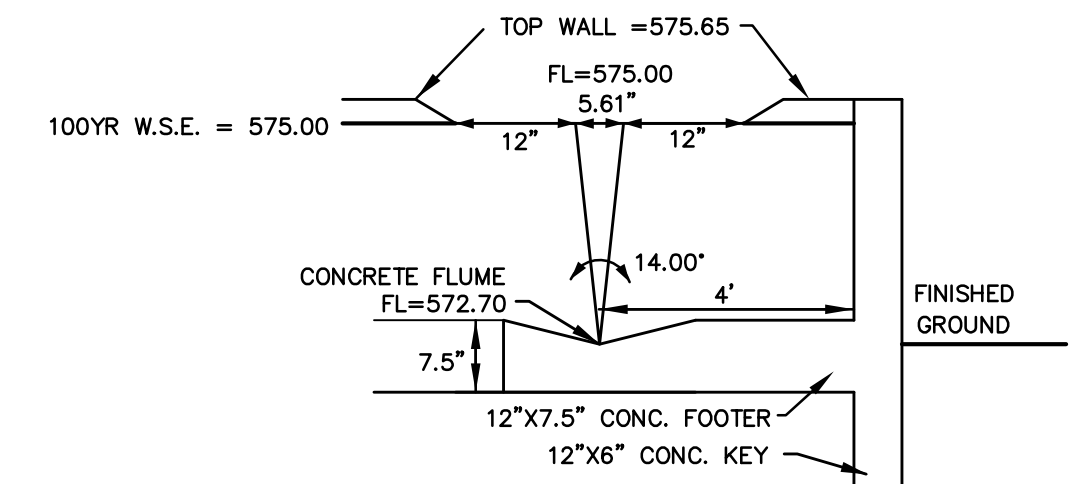
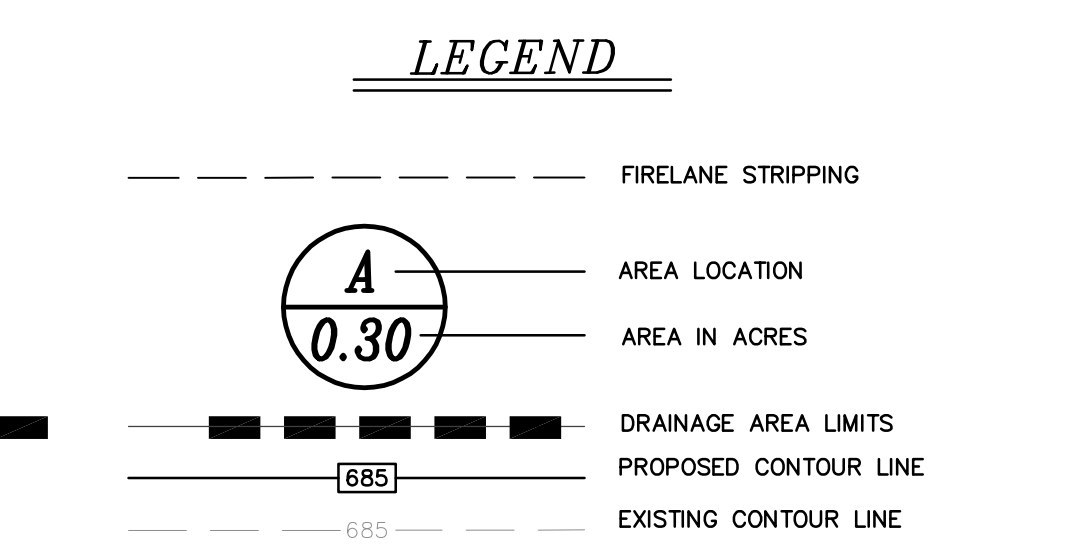
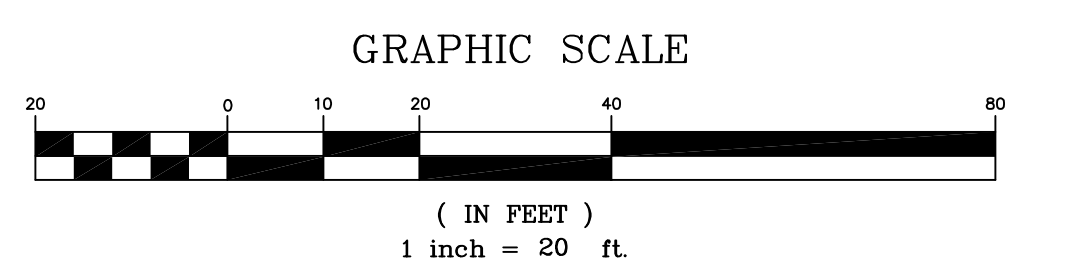
	ALLOWABLE RELEASE	ACTUAL RELEASE
Q ₁₀₀	2.36	2.36
Q ₅₀	2.08	1.94
Q ₂₅	1.77	1.61
Q ₅	1.17	1.17

JOY LUTHERAN CHURCH, ELCA
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D.R.R.C.T.

RECORD DRAWING

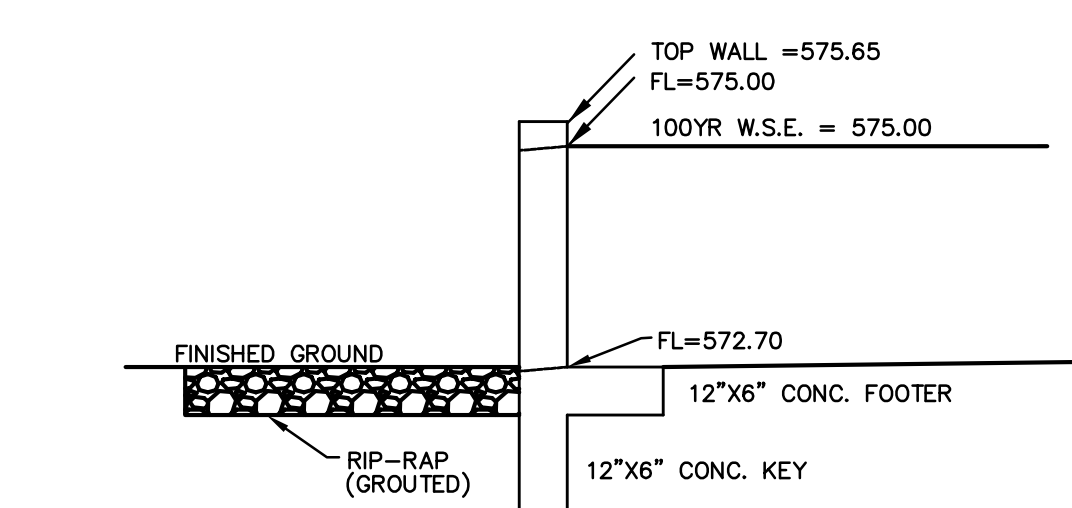
THIS DRAWING HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT.

CONTRACTOR = DEAN CATHY
DATE REVISED = 5-14-09



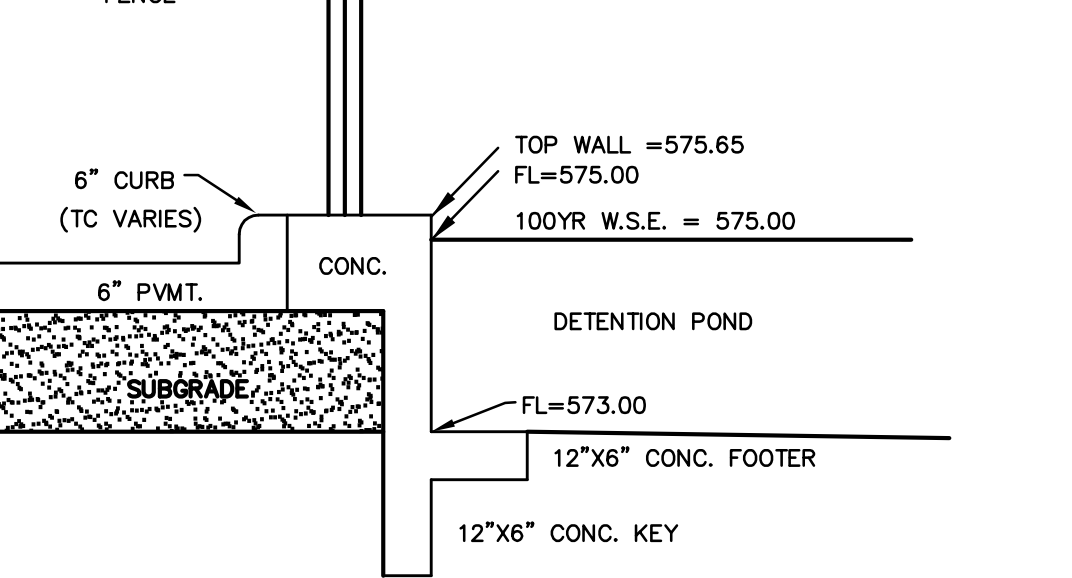
CONC. WEIR DETAIL
NOTE: CONTRACTOR SHALL USE NO. 4 BARS ON 12" O.C.
(CROSS SEC. A-A)

CONTRACTOR MAY USE A RETAINING WALL EQUAL TO OR BETTER THAN THE ONE DETAILED



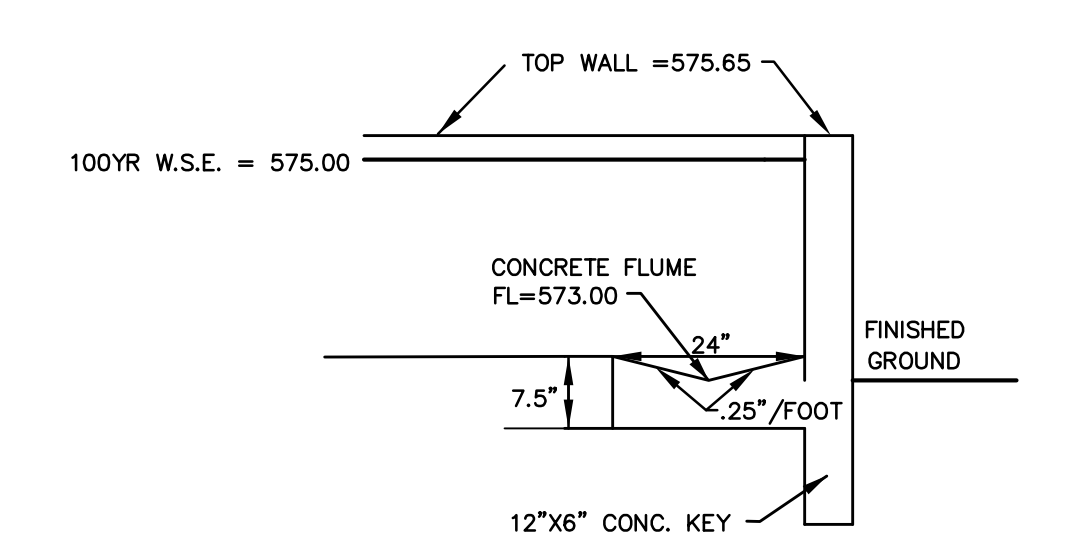
CONC. WEIR DETAIL
NOTE: CONTRACTOR SHALL USE NO. 4 BARS ON 12" O.C.
(CROSS SEC. B-B)

CONTRACTOR MAY USE A RETAINING WALL EQUAL TO OR BETTER THAN THE ONE DETAILED



CONC. WEIR DETAIL
NOTE: CONTRACTOR SHALL USE NO. 4 BARS ON 12" O.C.
(CROSS SEC. C-C)

CONTRACTOR MAY USE A RETAINING WALL EQUAL TO OR BETTER THAN THE ONE DETAILED



CONC. FLUME DETAIL
NOTE: CONTRACTOR SHALL USE NO. 4 BARS ON 12" O.C.
(CROSS SEC. D-D)

CONTRACTOR MAY USE A RETAINING WALL EQUAL TO OR BETTER THAN THE ONE DETAILED



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W.L. DOUPHRATE II TEXAS P.E. NO. 60102 ON

DOUPHRATE & ASSOCIATES, INC.
ENGINEERING - PROJECT MANAGEMENT - SURVEYING
22535 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
PHONE: (972)771-9004 FAX: (972)771-9005

DRAINAGE AREA MAP / DETENTION POND
BIN 303 RESTAURANT
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

REVISION
W.L.D. CHECKED
D.A.C. DRAWN
09/08 DATE
0808 DAM PROJECT