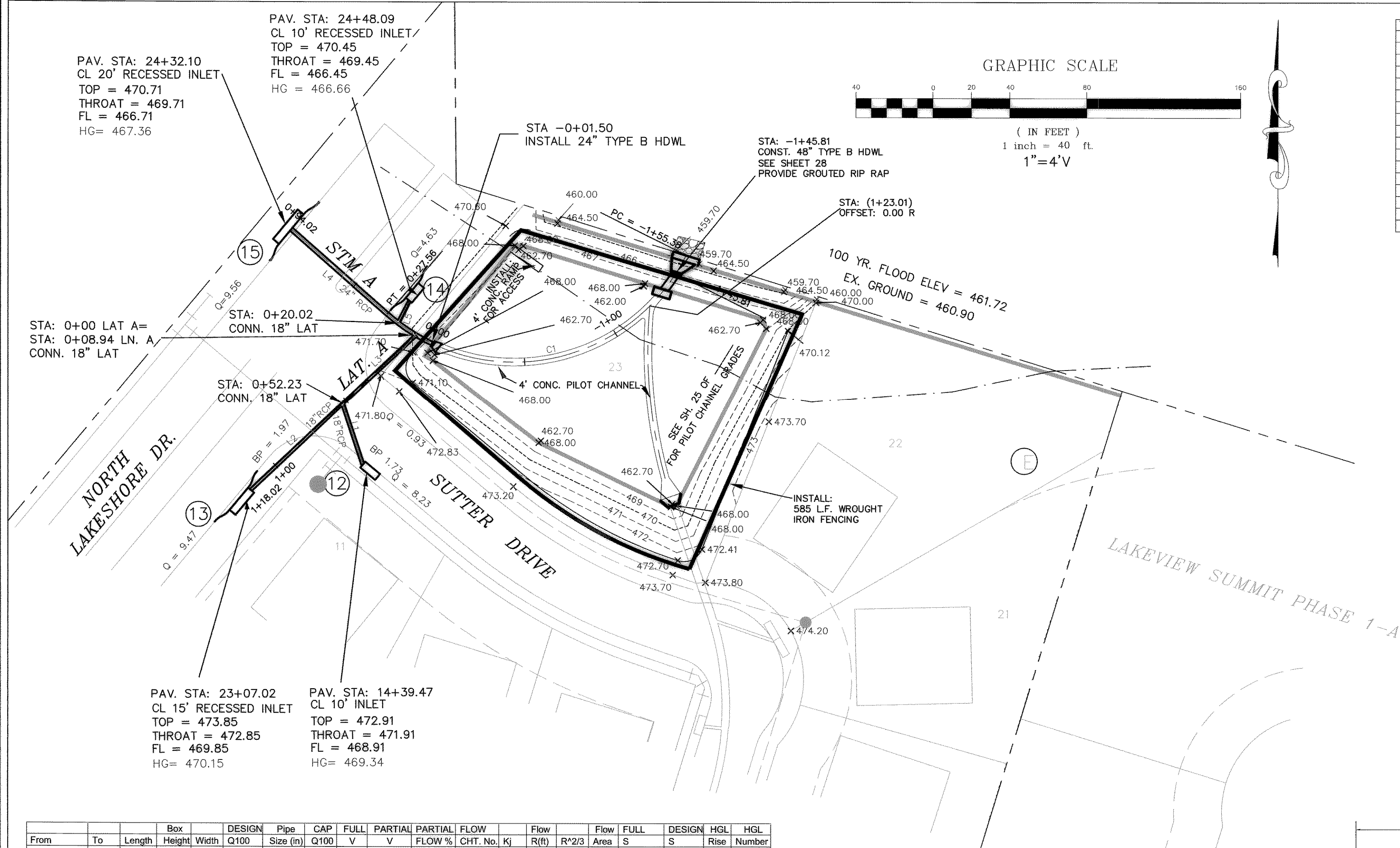
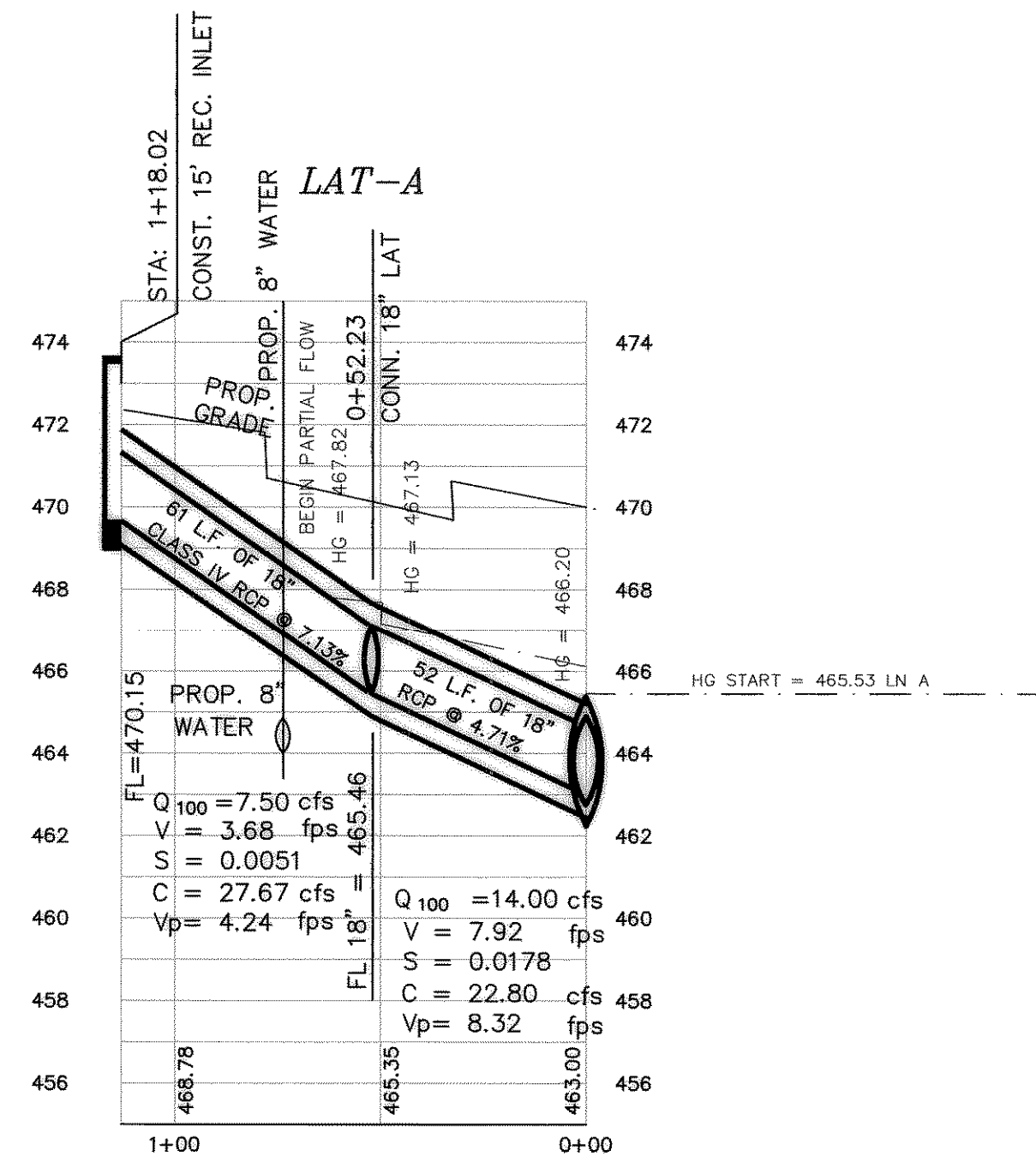
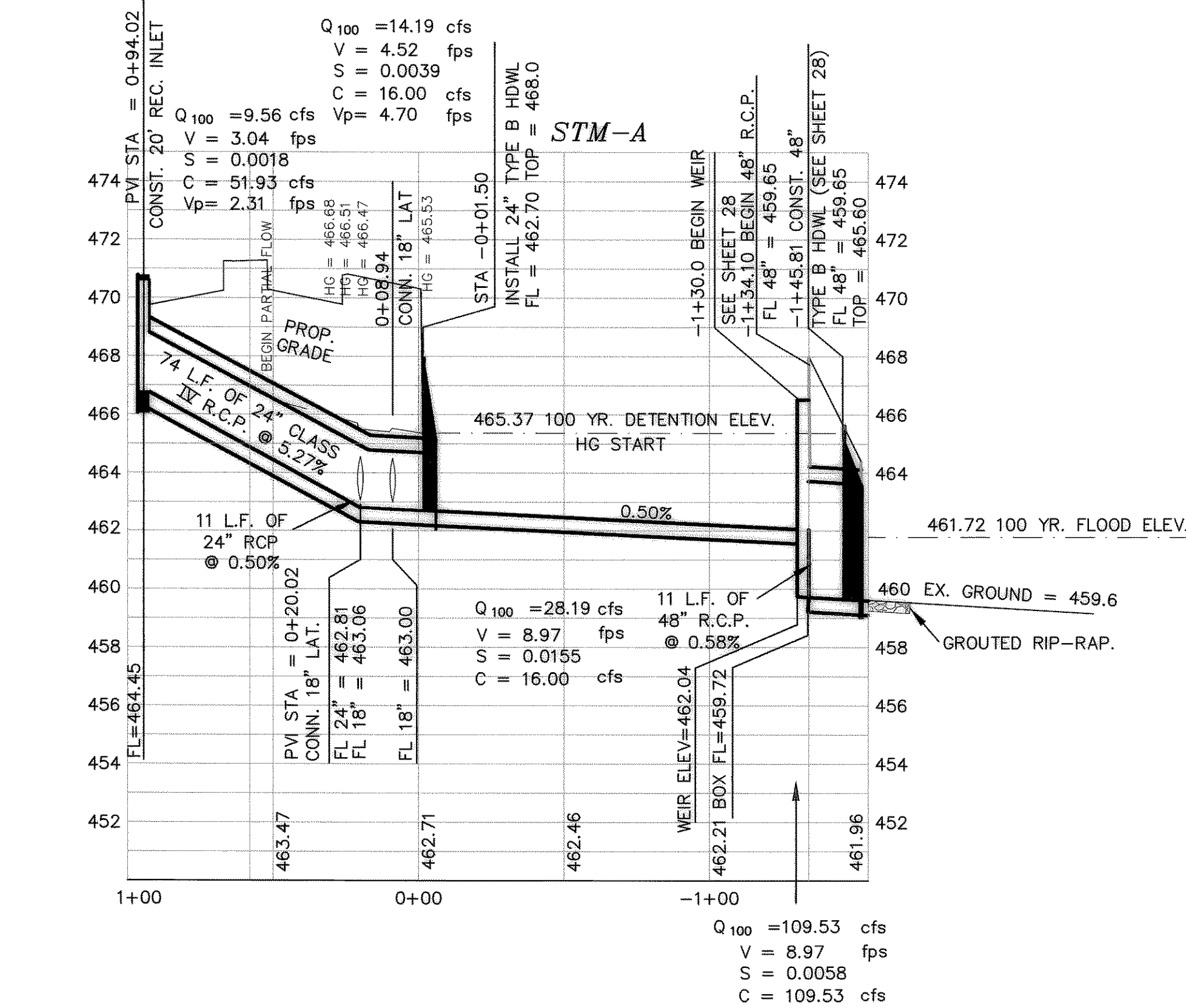




From	To	Length	Box Height	Width	DESIGN Q100	Pipe Size (in)	CAP Q100	FULL V	PARTIAL V	PARTIAL FLOW %	CHT. No.	Kj	Flow R(f)	R ² /3	Flow Area S	FULL S	DESIGN HGL	HGL Number
STM-C	3.94	-1.50	10.44		28.19	24.00	16.00	8.97	8.97	1.76	1.00	0.50	0.63	3.14	0.0155	0.0050	0.16	465.37
Junction Loss	20.02	8.94	11.08		14.19	24.00	16.00	4.52	4.70	0.89	1.04	1.00	0.50	0.83	3.14	0.0039	0.0050	0.04
Junction Loss	94.02	20.02	74.00		9.56	24.00	34.46	3.04	2.31	0.28	0.87	0.50	0.63	3.14	0.0018	0.0527	0.13	466.81



ELEV	SF	CF	TOTAL CF.
462	0		
463	13633	6,816.50	
464	13633	13,633.00	20,449.50
465	13633	13,633.00	34,082.50
466	13633	13,633.00	47,715.50
467	13633	13,633.00	61,348.50
468	13633	13,633.00	74,981.50

LINE	LENGTH	BEARING
L1	33.56	N18°11'35"W
L2	65.85	N46°57'53"E
L3	52.23	N46°57'53"E
L4	66.47	S48°42'01"E
L5	12.92	S26°30'38"W

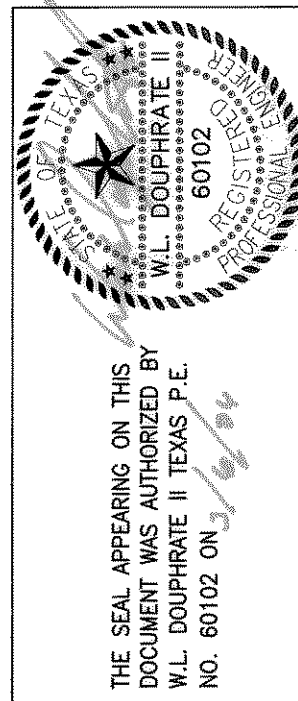
CURVE	LENGTH	RADIUS	DELTA	CB	CD
C1	182.94	100.00	104°48'56"	N78°53'31"E	158.47

STORAGE REQUIREMENT OF POND, 26.69 ACRES	AREAS 1-24	23.46 AC.
	SCHOOL 19-21, & 28	3.28 AC.
	TOTAL	26.69 AC.
C = 0.5	C = 0.5	
T = 10	T = 15	
I100 = 9.8	I100 = 9	15 min
Q100 = 130.78	Q100 = 120.11	
C = 0.5	C = 0.5	
T = 20	T = 25	
I100 = 8.3	I100 = 7.5	25 min
Q100 = 110.76	Q100 = 100.09	
C = 0.5	C = 0.5	
T = 30	T = 35	
I100 = 7.1	I100 = 6.4	35 min
Q100 = 94.75	Q100 = 85.41	
C = 0.5	C = 0.5	
T = 40	T = 45	
I100 = 5.9	I100 = 5.4	45 min
Q100 = 78.74	Q100 = 72.06	
C = 0.5	C = 0.5	
T = 50	T = 55	
I100 = 5	I100 = 4.8	55 min
Q100 = 66.73	Q100 = 64.06	
C = 0.5	C = 0.5	
T = 60	T = 70	
I100 = 4.5	I100 = 4	70 min
Q100 = 60.05	Q100 = 53.38	
C = 0.5	C = 0.5	
T = 80	T = 90	
I100 = 3.7	I100 = 3.4	90 min
Q100 = 49.38	Q100 = 45.37	

inflow =	T ² Q ² 60		
outflow =	0.5(T+T ₀)Q ² 60	T ₀ =DESIGN TIME=	10
			MAX RELEASE = 26.69ac*18.3*c.35 = 77.53
			DETENTION RELEASE FROM R.S. # 9 = 32
			TOTAL MAX RELEASE = 109.53
10 min storm	inflow = 78469		12751
	outflow = 65718		
15 min storm	inflow = 108095		25947
	outflow = 82148		
20 min storm	inflow = 132916		34339
	outflow = 98577		
25 min storm	inflow = 150131		35125
	outflow = 115007		
30 min storm	inflow = 170549		39113
	outflow = 131436		
35 min storm	inflow = 179357		31491
	outflow = 147866		
40 min storm	inflow = 188965		24670
	outflow = 164295		
45 min storm	inflow = 194570		13846
	outflow = 180725		
50 min storm	inflow = 200175		3021
	outflow = 197154		
55 min storm	inflow = 211385		-2199
	outflow = 213684		
60 min storm	inflow = 216189		-13824
	outflow = 230013		
70 min storm	inflow = 224196		-38676
	outflow = 262872		
80 min storm	inflow = 237007		-58724
	outflow = 295731		
90 min storm	inflow = 245014		-83576
	outflow = 328590		

REVISED TO CONFORM TO CONSTRUCTION RECORDS.

DATE: 3/6/24



DOUPHRATE & ASSOCIATES, INC.
ENGINEERING - PROJECT MANAGEMENT - SURVEYING
2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
PHONE: (972)771-9004 FAX: (972)771-9005

STORM SEWER PLAN & PROFILE
STORM LINE A & LATERAL A
LAKEVIEW SUMMIT, PHASE 3
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

REVISION
W.L.D.
CHECKED
K.E.B.
DRAWN
10/02
DATE
9919-3STM3
PROJECT