

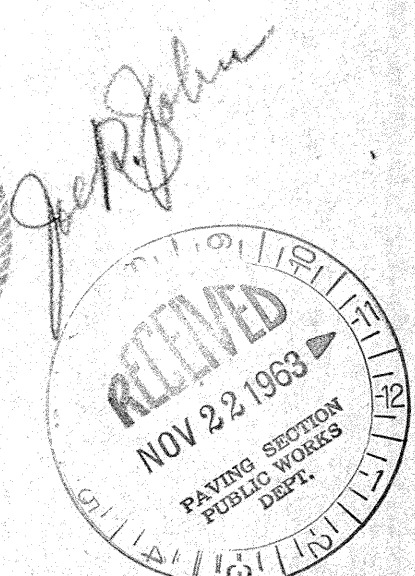
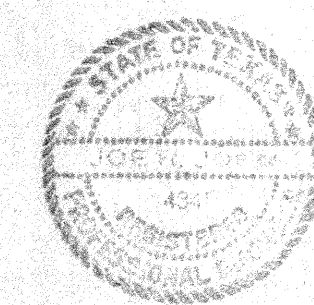
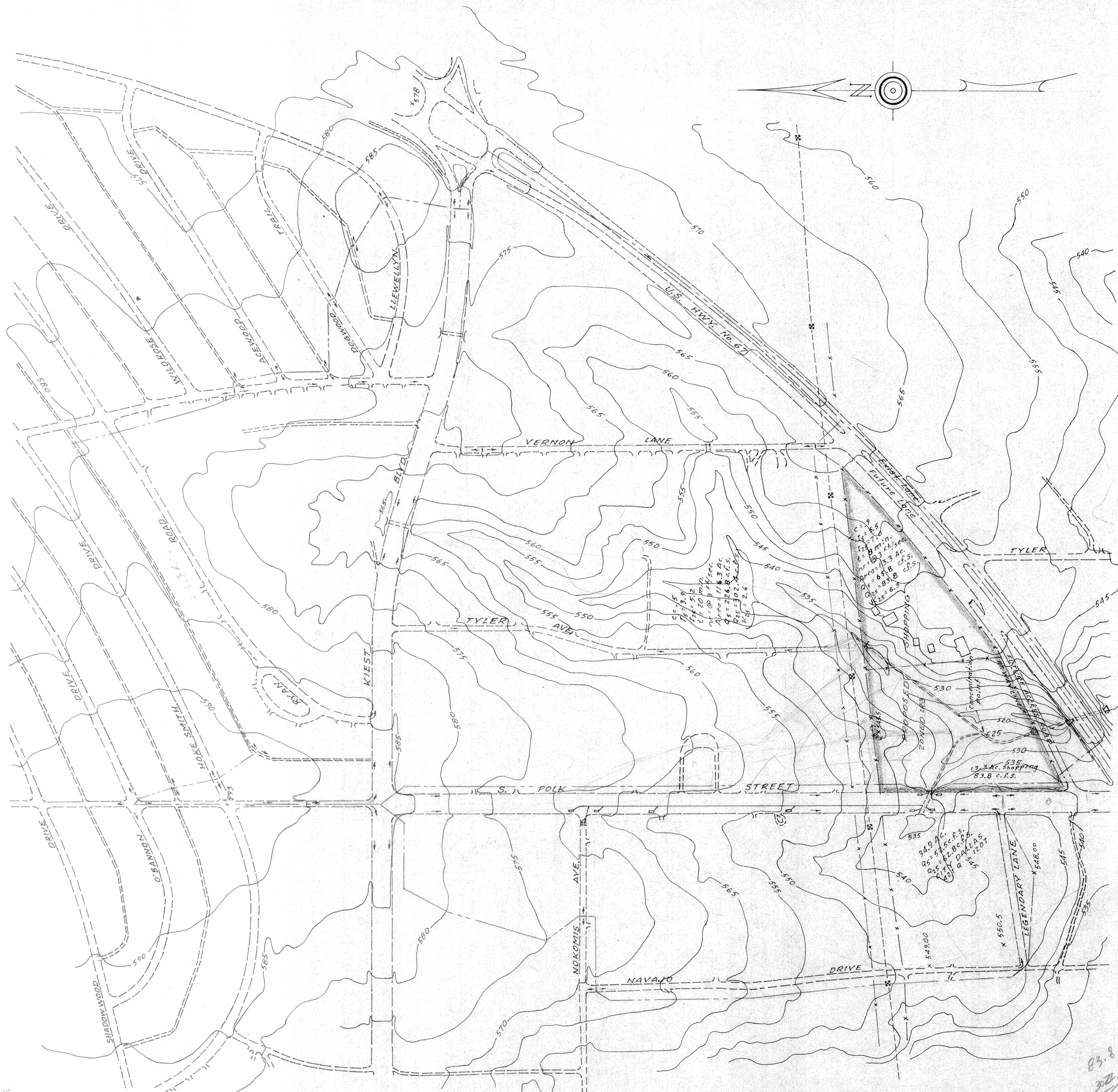
MATCH SHEET 686

MATCH SHEET 720 25

MATCH SHEET 718

MATCH SHEET 740

SHEET NO. 719



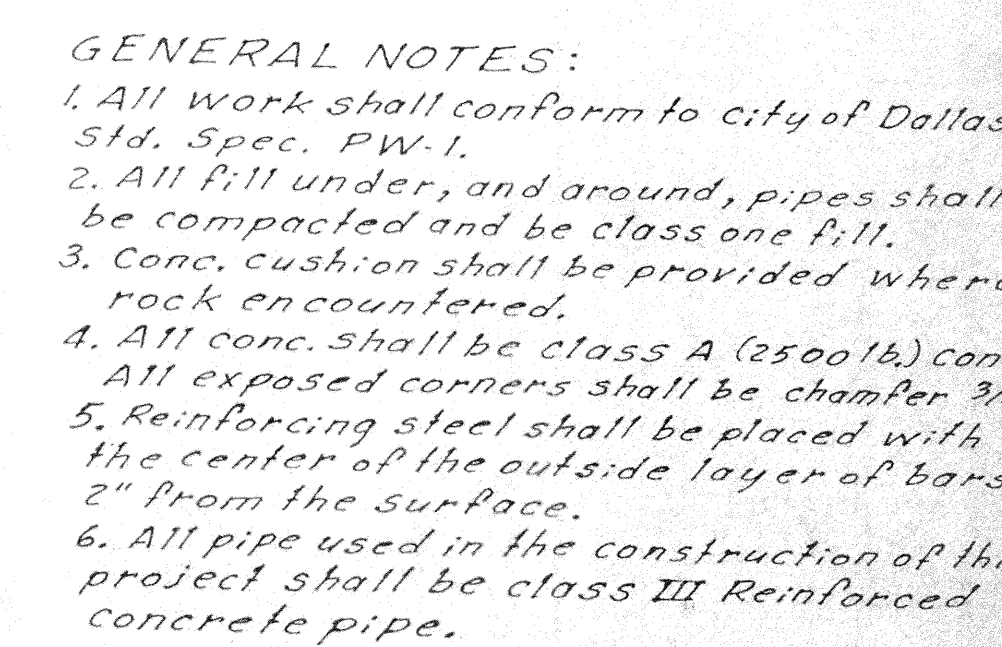
DRAINAGE AREAS
 PROPOSED SHOPPING AREA
 U.S. HIGHWAY 67 & S. POLK STREET
 CITY BLOCK No. 5985
 DALLAS, TEXAS
 Scale 1" = 200'

October 18, 1963
 JOE R. JOHN
 Engineer & Surveyor
 5617 Swiss Ave.

1/2

421 Q 1207

421Q-1207



3 $\frac{2}{2}$

421 Q 1207
421Q-1207

TABLE OF DIMENSIONS AND QUANTITIES FOR TWO TYPE A HEADWALLS

NO. OF PIPES	DIAM. OF PIPES	TABLE OF DIMENSIONS										REINFORCING STEEL FOR TWO HEADWALLS										TOTAL QUANTITIES	
												BARS A1 4-3/8" @ 12"		BARS A2 3/8" @ 18"		BARS B 4-3/8" @ 12"		BARS F1 @ 12"		BARS F2 @ 12"		LBS.	C.Y.
		G	K	T	E	H	W	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt		
1	12"	12"	9"	1'-9"	2'-6"	7'-0"	6'-8"	10	8	2'-6"	8	6'-8"	28	12 1/2	2-11"	23	12 1/2	3'-8"	29	98	1.48		
2	"	"	"	"	"	8'-10"	8'-6"	13	"	"	"	8'-6"	35	14	"	27	14	"	34	117	1.81		
3	"	"	"	"	"	10'-8"	10'-4"	16	"	"	"	10'-4"	43	16	"	31	16	"	39	137	2.15		
4	"	"	"	"	"	12'-6"	12'-2"	18	"	"	"	12'-2"	51	18	"	35	18	"	44	156	2.48		
1	15"	15"	9"	1'-9"	2'-9"	8'-3"	7'-11"	12	8	3'-0"	9	7'-11"	33	12 1/2	3'-2"	25	12 1/2	3'-11"	31	110	1.82		
2	"	"	"	"	"	10'-6"	10'-2"	15	"	"	"	10'-2"	42	14	"	30	14	"	37	133	2.24		
3	"	"	"	"	"	12'-9"	12'-5"	19	"	"	"	12'-5"	52	16	"	34	16	"	42	156	2.66		
4	"	"	"	"	"	15'-0"	14'-8"	22	"	"	"	14'-8"	61	18	"	38	18	"	47	177	3.09		
1	18"	18"	9"	1'-9"	3'-0"	9'-6"	9'-2"	14	8	3'-6"	11	9'-2"	38	20 1/2	3'-5"	46	20 1/2	4'-2"	56	165	2.19		
2	"	"	"	"	"	12'-2"	11'-10"	18	"	"	"	11'-10"	49	22	"	50	22	"	61	189	2.70		
3	"	"	"	"	"	14'-10"	14'-6"	22	"	"	"	14'-6"	60	24	"	55	24	"	67	215	3.21		
4	"	"	"	"	"	17'-6"	17'-2"	26	"	"	"	17'-2"	72	26	"	59	26	"	72	240	3.73		
1	24"	24"	9"	2'-0"	3'-6"	12'-0"	11'-8"	18	9	4'-6"	14	11'-8"	49	24 1/2	4'-11"	63	24 1/2	4'-11"	79	223	3.17		
2	"	"	"	"	"	15'-5"	15'-1"	23	"	"	"	15'-1"	63	26	"	68	26	"	85	253	3.89		
3	"	"	"	"	"	18'-10"	18'-6"	28	"	"	"	18'-6"	77	28	"	73	28	"	92	284	4.62		
4	"	"	"	"	"	22'-3"	21'-11"	33	"	"	"	21'-11"	91	30	"	79	30	"	99	316	5.35		
1	30"	30"	9"	2'-3"	4'-0"	14'-6"	14'-2"	21	16	5'-6"	33	14'-2"	59	28 1/2	4'-5"	83	28 1/2	5'-8"	106	302	4.31		
2	"	"	"	"	"	18'-8"	18'-4"	28	"	"	"	18'-4"	76	32	"	94	32	"	121	352	5.28		
3	"	"	"	"	"	22'-10"	22'-6"	34	"	"	"	22'-6"	94	36	"	106	36	"	136	403	6.26		
4	"	"	"	"	"	27'-0"	26'-8"	40	"	"	"	26'-8"	111	40	"	118	40	"	152	454	7.24		
1	36"	36"	12"	2'-6"	4'-6"	17'-0"	16'-8"	25	16	6'-6"	39	16'-8"	70	32 1/2	5'-2"	111	32 1/2	6'-8"	143	388	6.40		
2	"	"	"	"	"	21'-11"	21'-7"	32	"	"	"	21'-7"	90	36	"	124	36	"	160	445	7.89		
3	"	"	"	"	"	26'-10"	26'-6"	40	"	"	"	26'-6"	111	40	"	138	40	"	178	506	9.37		
4	"	"	"	"	"	31'-9"	31'-5"	47	"	"	"	31'-5"	131	44	"	152	44	"	196	565	10.85		
1	42"	42"	12"	2'-9"	5'-0"	19'-6"	19'-2"	29	16	7'-6"	45	19'-2"	80	36 1/2	5'-8"	136	36 1/2	7'-5"	178	468	8.10		
2	"	"	"	"	"	25'-2"	24'-10"	37	"	"	"	24'-10"	104	40	"	152	40	"	198	536	9.96		
3	"	"	"	"	"	30'-10"	30'-6"	46	"	"	"	30'-6"	127	44	"	167	44	"	218	603	11.80		
4	"	"	"	"	"	36'-6"	36'-2"	54	"	"	"	36'-2"	151	48	"	182	48	"	238	670	13.68		
1	48"	48"	15"	3'-0"	5'-9"	23'-0"	22'-8"	34	24	8'-9"	79	22'-8"	95	40 1/2	6'-5"	168	40 1/2	8'-5"	351	827	10.74		
2	"	"	"	"	"	29'-5"	29'-1"	44	"	"	"	29'-1"	121	44	"	295	44	"	386	925	13.08		
3	"	"	"	"	"	35'-10"	35'-6"	53	"	"	"	35'-6"	148	48	"	321	48	"	422	1023	15.43		
4	"	"	"	"	"	42'-3"	42'-6"	64	"	"	"	42'-11"	179	52	"	348	52	"	457	1127	17.77		
1	54"	54"	15"	3'-3"	6'-3"	25'-6"	25'-2"	38	24	9'-9"	83	25'-2"	105	44 1/2	6'-11"	318	44 1/2	9'-2"	421	970	12.87		
2	"	"	"	"	"	32'-10"	32'-6"	49	"	"	"	32'-6"	136	50	"	361	50	"	478	1112	15.77		
3	"	"	"	"	"	40'-2"	39'-10"	60	"	"	"	39'-10"	166	56	"	404	56	"	536	1254	18.66		
4	"	"	"	"	"	47'-6"	47'-9"	72	"	"	"	48'-2"	201	62	"	447	62	"	593	1401	21.55		
1	60"	60"	15"	3'-6"	6'-9"	28'-0"	27'-8"	42	24	10'-9"	97	27'-8"	115	48 1/2	7'-5"	371	48 1/2	9'-11"	497	1122	15.20		
2	"	"	"	"	"	36'-0"	35'-8"	54	"	"	"	35'-8"	143	54	"	418	54	"	559	1277	18.55		
3	"	"	"	"	"	44'-0"	44'-3"	67	"	"	"	44'-8"	186	60	"	464	60	"	621	1435	21.89		
4	"	"	"	"	"	52'-0"	52'-3"	79	"	"	"	52'-8"	220	66	"	511	66	"	683	1590	25.24		
1	66"	66"	15"	3'-9"	7'-3"	30'-6"	30'-2"	45	32	11'-9"	141	30'-2"	126	52 1/2	7'-11"	430	52 1/2	10'-8"	579	1321	17.72		
2	"	"	"	"	"	39'-1"	38'-9"	58	"	"	"	38'-9"	162	58	"	479	58	"	645	1485	21.49		
3	"	"	"	"	"	47'-8"	47'-11"	72	"	"	"	48'-4"	202	64	"	529	64	"	712	1656	25.27		
4	"	"	"	"	"	56'-3"	56'-6"	85	"	"	"	56'-11"	237	70	"	578	70	"	779	1820	29.05		
1	72"	72"	15"	4'-0"	7'-9"	33'-0"	32'-8"	49	32	12'-9"	153	32'-8"	136	56 1/2	8'-5"	492	56 1/2	11'-5"	667	1497	20.42		
2	"	"	"	"	"	42'-2"	42'-5"	64	"	"	"	42'-10"	179	62	"	544	62	"	738	1678	24.66		
3	"	"	"	"	"	51'-4"	51'-7"	78	"	"	"	52'-0"	217	68	"	597	68	"	810	1855	28.89		
4	"	"	"	"	"	60'-6"	60'-9"	91	"	"	"	61'-2"	255	74	"	650	74	"	881	2030	33.12		

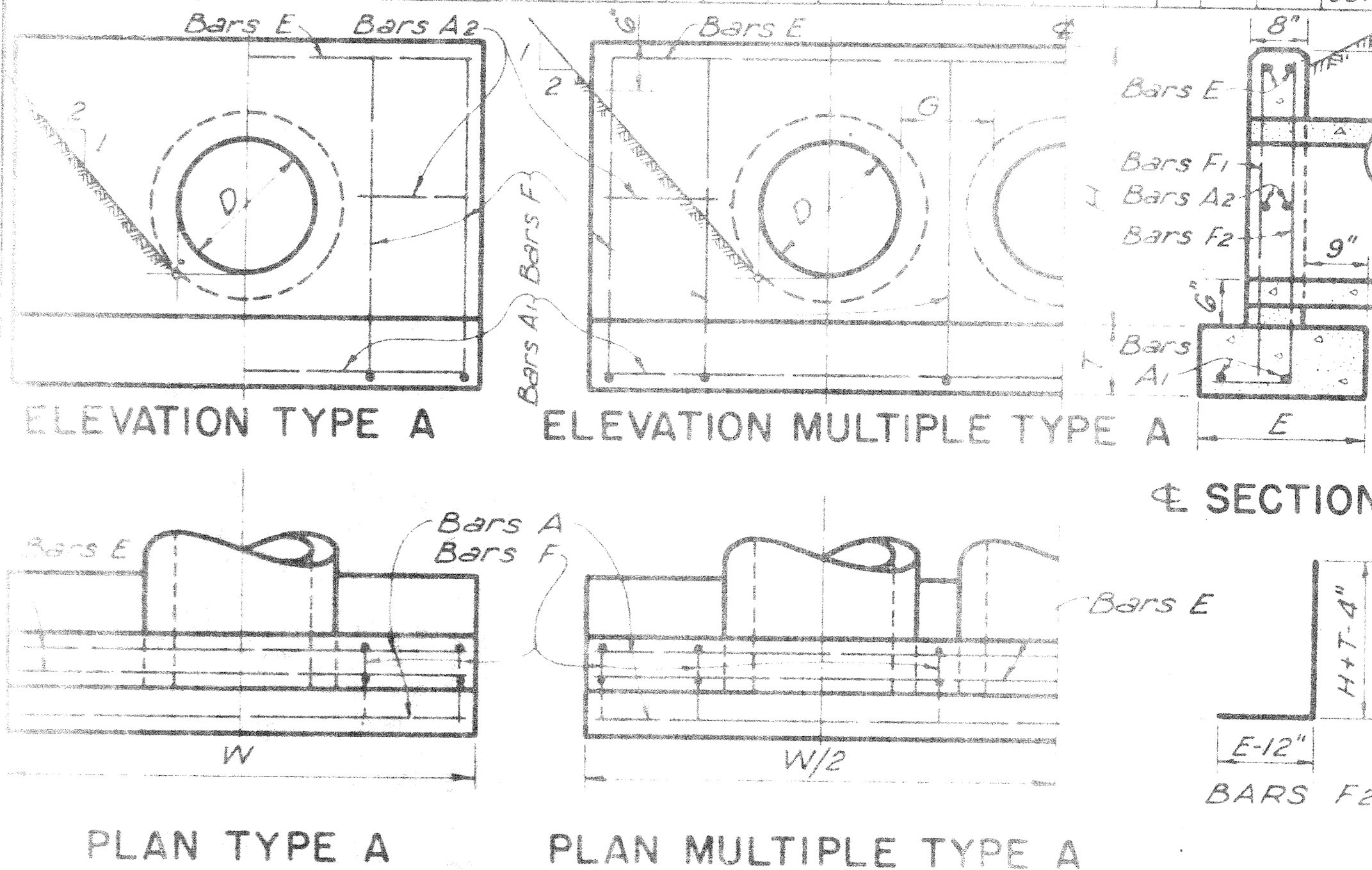
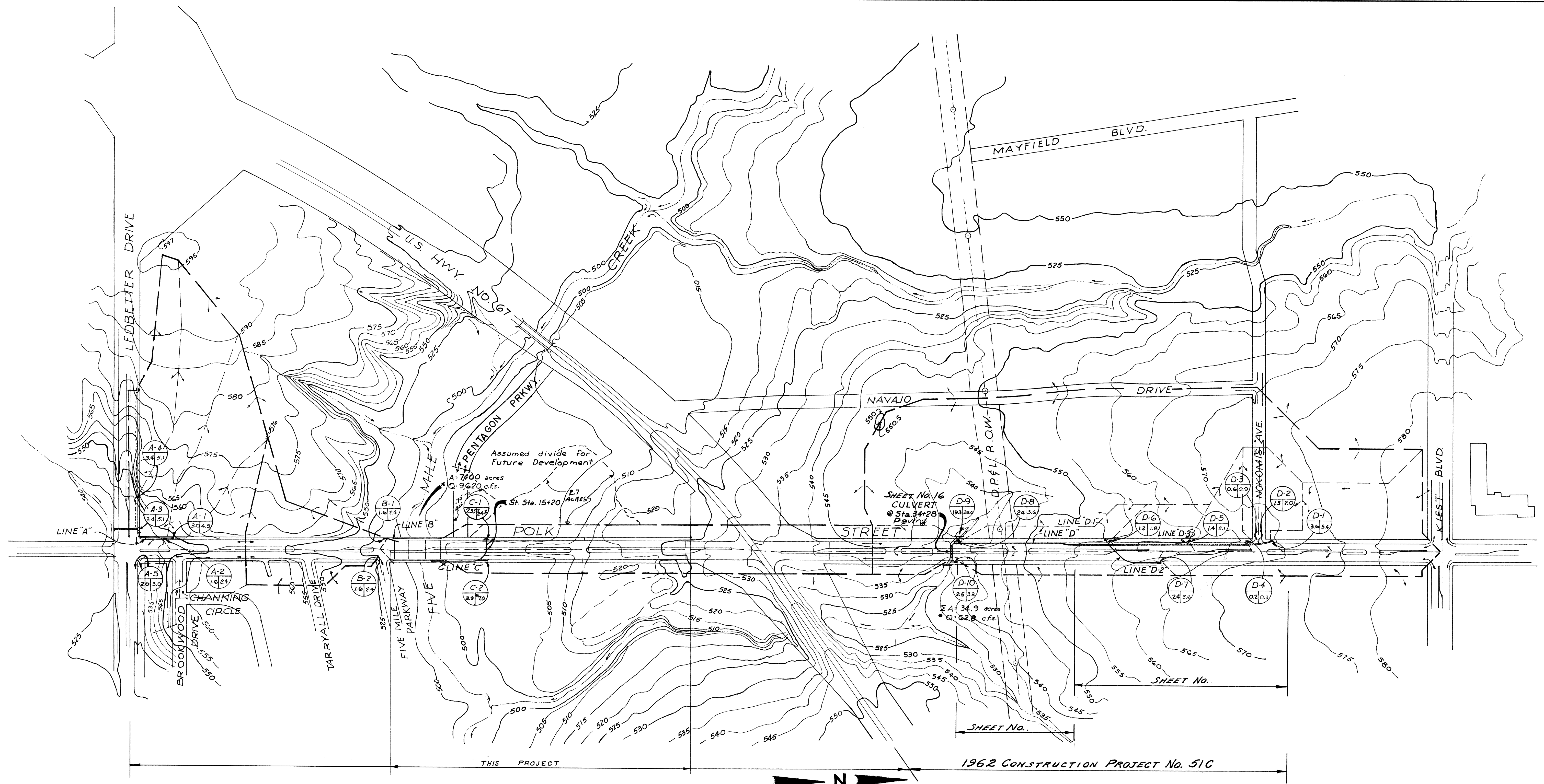


TABLE OF DIMENSIONS AND QUANTITIES FOR TWO TYPE B HEADWALLS

NO. OF PIPES DIAM. OF PIPES		TABLE OF DIMENSIONS										REINFORCING STEEL AND QUANTITIES FOR TWO TYPE B HEADWALLS																				TOTAL QUANTITIES STEEL CO. LBS. C.Y.																																																			
		G K X H Y W						BARS A1-Ax BARS B BARS B1-Bx C-2'0" BARS D-Dx BARS E BARS F BARS G BARS S BARS VI-Vx BARS W																																																																											
								BARS A1-Ax BARS B BARS B1-Bx C-2'0" BARS D-Dx BARS E BARS F BARS G BARS S BARS VI-Vx BARS W																																																																											
								BARS A1-Ax BARS B BARS B1-Bx C-2'0" BARS D-Dx BARS E BARS F BARS G BARS S BARS VI-Vx BARS W																																																																											
12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																																	
15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																															
18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																													
24"		20"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																									
30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																							
36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																					
42"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																			
48"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																																	
54"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																															
60"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																													
66"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																											
72"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																									
78"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																							
84"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																					
90"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																			
96"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																	
102"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"															
108"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"													
114"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"											
120"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"									
126"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																			
132"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"																	
138"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"															
144"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"													
150"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"											
156"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"									
162"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"							
168"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"					
174"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"			
180"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"		12"		10"		8"		6"		4"		2"	
186"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"											
192"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"									
198"		165"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"							
204"		170"		165"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"					
210"		175"		170"		165"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"			
216"		180"		175"		170"		165"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45"		40"		36"		30"		25"		22"		18"		15"		12"		10"		8"		6"		4"		2"	
222"		185"		180"		175"		170"		165"		160"		155"		150"		145"		140"		135"		130"		125"		120"		115"		110"		105"		100"		95"		90"		85"		80"		75"		70"		65"		60"		55"		50"		45																									



INDEX TO DRAINAGE SYSTEMS

LINE	AREA NO.	SHEET WHERE DETAILED
A	A-1, A-2	3 (Plan) 312 D-3 (Profile)
B	B-1	2
C	C-1	2
C-1	C-2	2
D (Proposed)		3
D-1	D-6	4
D-2	D-7	4
D-3	D-5	4
D (Existing)	D-1, 2, 3 & 4	4
Culvert	D-8, 9 & 10	3 & 5

DRAINAGE AREA MAP

SCALE : 1" = 200'

No trees shall be cut except on the specific authority of the Engineer. The Contractor shall make minor storm sewer alignment changes for the preservation of trees as may be directed by the Engineer.

NOTE: No excess excavated material shall be deposited in low areas or along natural drainage ways that will restrict the natural flow. If the Contractor places excavated material in low areas that will cause flood damages, he will be responsible for all damage resulting from such fill and he shall remove the fill, at his expense, if the City so directs or instructs.

DRAINAGE AREA NO. D-4 0203

AREA SIZE IN ACRES 24.36

QUANTITY IN CFS. 5 Year Storm 24.36

* 25 Year Storm

KEY TO DRAINAGE AREAS

DRAINAGE DIST. 20A PROJECT 62-51C

POLK STREET						
HIGHWAY 67 TO NOKOMIS AVENUE						
DRAINAGE AREA MAP						
DEPARTMENT OF PUBLIC WORKS						
HUNT AND JOINER CONSULTING ENGRS.						
CITY OF DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
C.L.C.	C.L.C.	APRIL '62	NOTED	—	421Q	1207



421Q-1207

1/5

297

BLOCK 6035
 GRANTOR: WM. C. HALL & DAUGHTER, HALL
 GRANTOR: VERNON S. SMITH
 JAMES W. SMITH
 & LOA SMITH, a widow
 VOLUME: 5053, P. 579

BLOCK $\frac{A}{6035}$

REVERSE CURVE DATA:
 $R = 120'$
 $\Delta = 14^\circ 21' 41''$
 $T = 15.11'$
 $L = 30.08'$

TBM #6 Elev. 550.65 Top of ROW Marker
 of D.P. & L. ROW @ Sta. 37+08.1
 TBM #7 Elev. 555.50 Top operating nut of
 Fire Hydrant @ Sta. 39+00.1

BLK 5985
 GRANTOR: F.D. TOLAND, not joined by wife
 GRANTOR: M.S. CARTER
 VOL. 5172, PAGE 471

No trees shall be cut except
 on the specific authority of
 the Engineer. The Contractor
 shall make minor storm sewer
 alignment changes for the
 preservation of trees as may
 be directed by the Engineer.

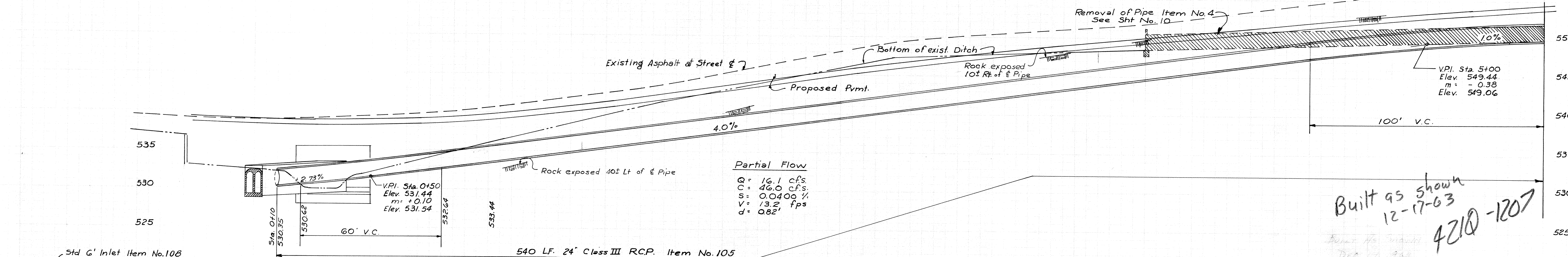
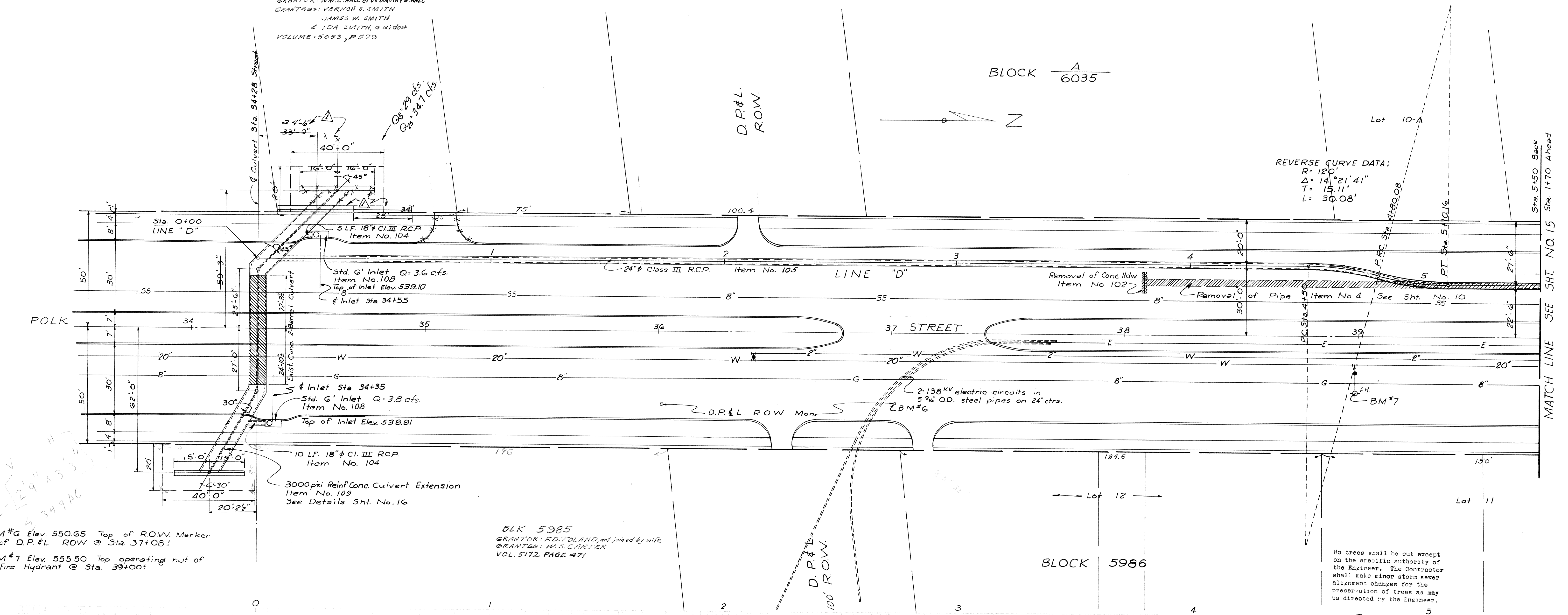


TABLE OF ESTIMATED QUANTITIES

Item No.	Description	Unit	Quantity
102	Removal of Conc. Headwall on 24" Dia. Pipe	L.S.	1
104	18" Dia. Cl. III Reinf. Concrete Pipe	L.F.	20
105	24" Dia. Cl. III Reinf. Concrete Pipe	L.F.	550
108	6" Standard or Variable Depth Inlets	Each	2
109	3000 p.s.i. Reinf. Conc. for Culvert Extn.	C.Y.	60
110	Rock Excavation for Storm Sewers	C.Y.	300
111	Conc. for Pipe Cushion in Rock Trench	C.Y.	6

NO	DESCRIPTION	DATE	BY
I	CULVERT REVISION RELOCATION OF HEADWALL TO STA. 34+525	11-16-62	M.D.O.
	FIELD CHANGE		

DIST 20A PROJECT 62-51C

**POLK STREET
 HIGHWAY 67 TO NOKOMIS AVENUE**

DRAINAGE IMPROVEMENT-PLAN, PROFILE

DEPARTMENT OF PUBLIC WORKS

HUNT AND JOINER CONSULTING ENGRS.

CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
C.L.C.	C.L.C.	APRIL '62	H-11"=20' V-1"=6'		421Q	1207

See Septa for new easement 34+525

299