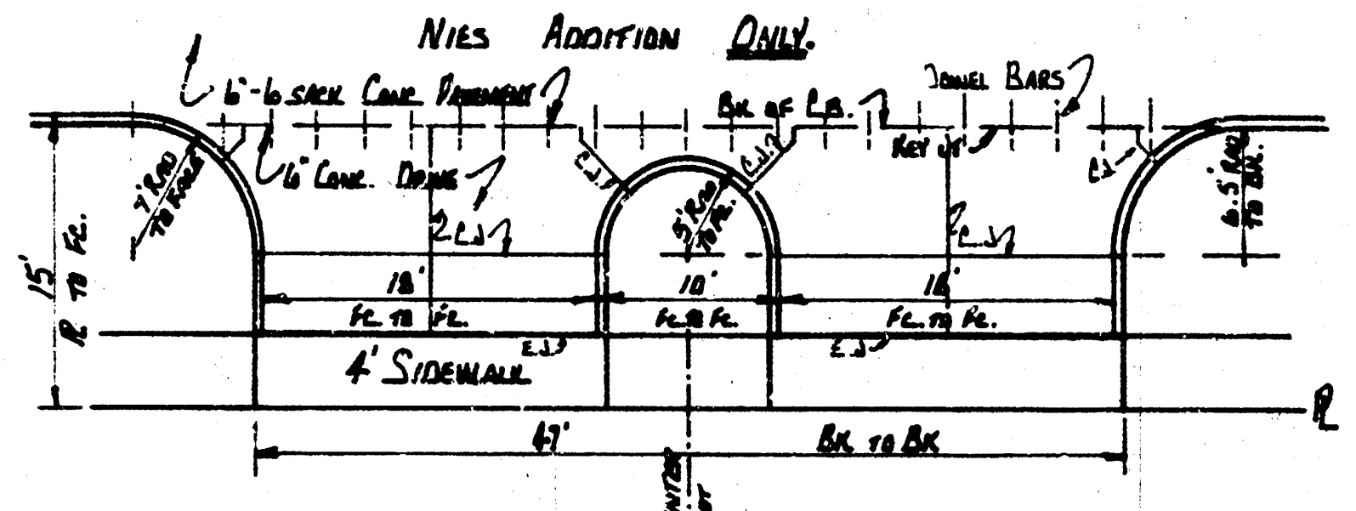
Survey: Krug Bk: DLK 137
Plan: Ukena & DLK 146
Exc. Ukena
Checked: ______

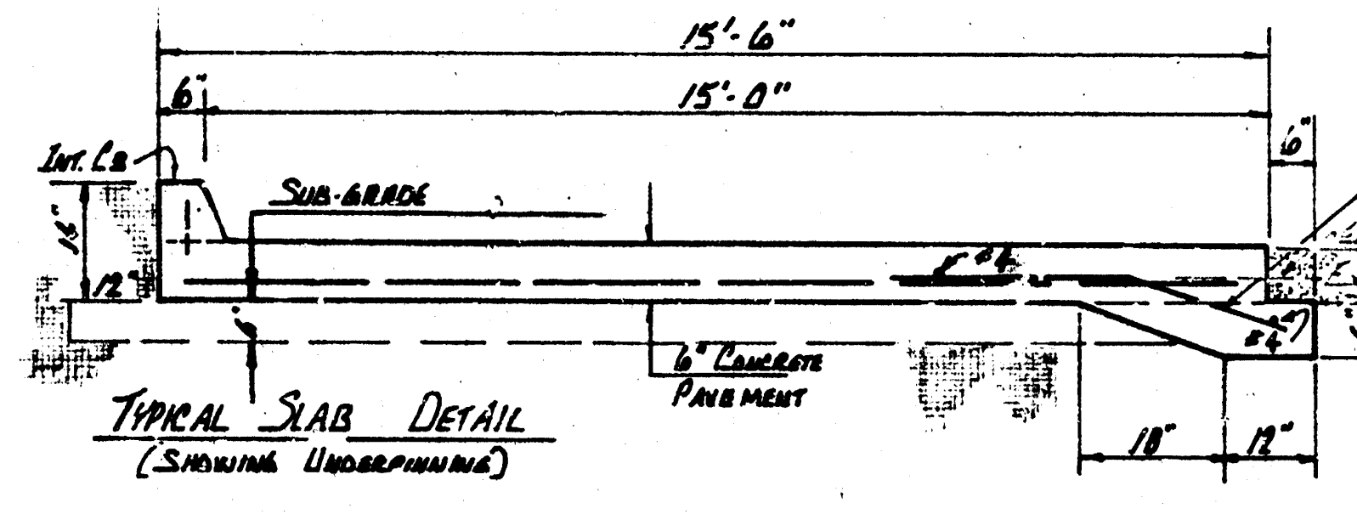
Typical Double Drive Detail

To be used on Lots 3, 4, 5 & 6
Nies Addition Only.


6"-6 sack Conc. Pavement
Bk. of C.B.
Dowel Bars
6" Conc. Drive
C.J.
Key Jt.
7' Rad. to F.C.
5' Rad. to F.C.
6.5' Rad. to Bk.
15' ℞ to F.C.
18' Fc. to Fc.
10' Fc. to Fc.
18' Fc. to Fc.
E.J.
4' Sidewalk
47' Bk. to Bk.
℞
Center of Lot

BM 148.94 "G" in Globe S-end ret. S.W. Cor. Gilbert & Eastern (2½ N of S end)
BM 143.11 "G" in Globe WL Eastern N-CB Rose Lane 1955

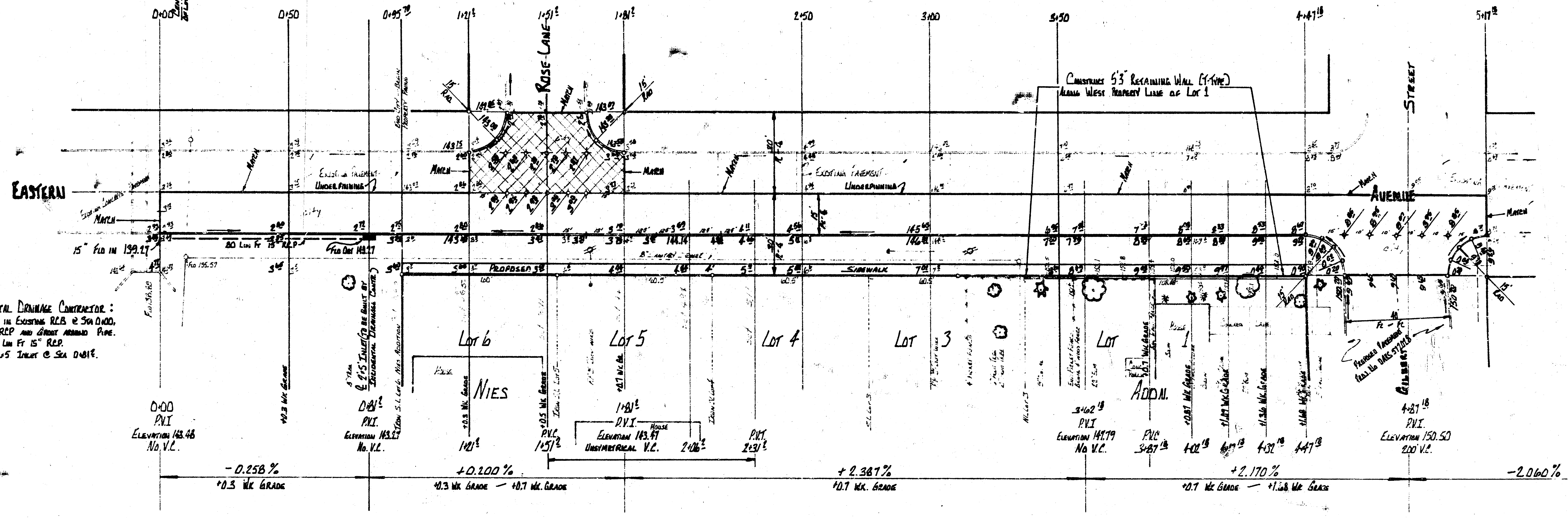
Scale 1"=20'   N


15'-6"
15'-0"
6"
6"
Int. C.B.
Sub-grade
18"
12"
#4
Existing Steel
Existing Pavt.
6" Concrete Pavement
18"
12"

Typical Slab Detail
(Showing Underpinning)

#4 Bars - 4'-6" Long
@ 4'-6" Ctrs (Field Bend)

Note: Bid Item for Lin. Ft. Underpinning to include Cost of Concrete & Excav. Steel to be Paid for by Lbs. of Reinf. Steel. Tie New Steel to Existing Steel.


0+00
0+50
0+95.70
1+21
1+51
1+81
2+50
3+00
3+50
4+47.18
5+17.18
Rose Lane
Eastern
Avenue
Street
Gilbert
Match
Existing Easement Underpinning
Construct 5'3" Retaining Wall (T-Type) Along West Property Line of Lot 1
15" Flo in 139.27
80 Lin Ft 15" RCP
Proposed Sidewalk
Lot 6
Lot 5
Lot 4
Lot 3
Lot 1
Nies Addn.
House
Proposed Pavement Proj. No DAKS 572018
40' Fc - Fc
15' Rad
0+00 P.V.I Elevation 143.48 No V.C.
0+81 P.V.I. Elevation 143.27 No. V.C.
1+21
P.V.C. 1+51
1+81 P.V.I. Elevation 143.47 Unsymmetrical V.C.
2+06
P.V.T. 2+31
3+62.18 P.V.I Elevation 147.79 No V.C.
P.V.C. 3+87.18
4+02.18
4+17.18
4+32.18
4+47.18
4+87.18 P.V.I. Elevation 150.50 200' V.C.
8+23.18 P.V.I Elevation 147.32
-0.258 %
+0.3 Wk Grade
+0.200 %
+0.3 Wk Grade — +0.7 Wk. Grade
+2.387 %
+0.7 Wk. Grade
+2.170 %
+0.7 Wk Grade — +1.68 Wk Grade
-2.060 %

Note to Incidental Drainage Contractor:
1. Knock Hole in Existing RCB @ Sta 0+00. Install 15" RCP and Grout around Pipe.
2. Install 80 Lin Ft 15" RCP.
3. Construct 2×5 Inlet @ Sta 0+81.

"Earthwork"

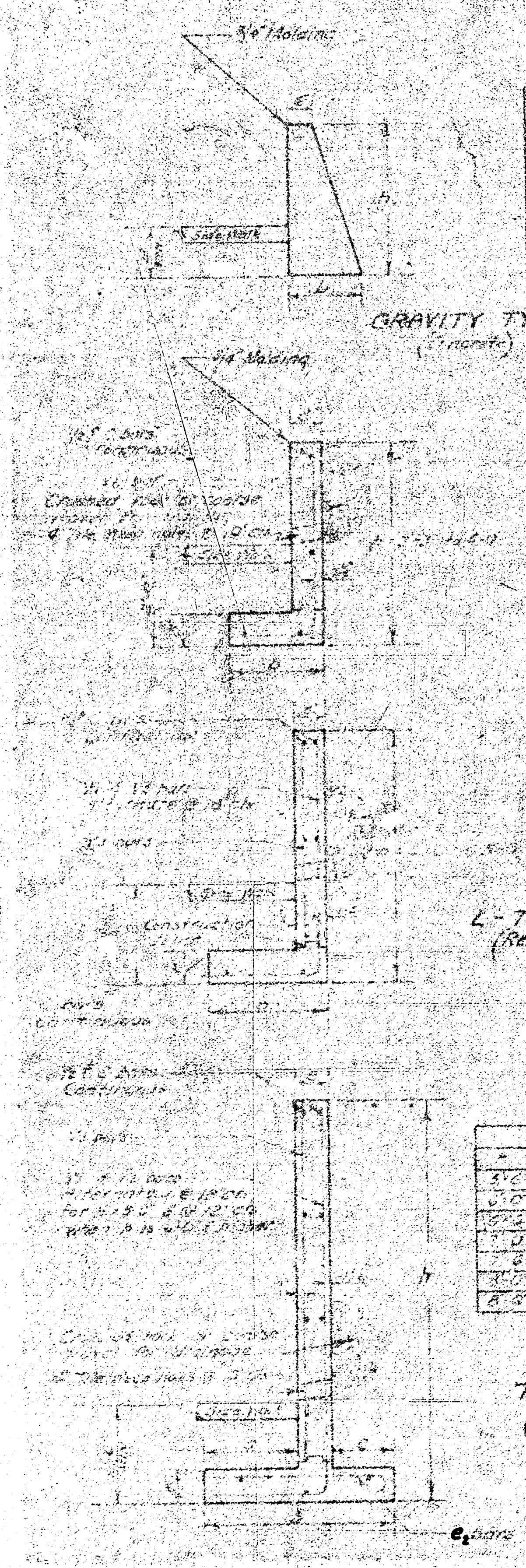
Excavation		Compacted Fill	
Property	City	Property	City
467.2 Cu Yds	189.2 Cu Yds	0.3 Cu Yds	0.7 Cu Yds
46.7 +10%	18.9 +10%	0.0 +10%	0.1 +10%
513.9 Total	208.1 Total	0.3 Total	0.8 Total

Cement & Lime Treated Subgrade 610 Sq Yds 360 Sq Yds.

General Notes
1. Type of Subgrade Treatment shall be as determined by the Field Engineer. Subgrade Treatment may consist of Lime Treatment, Cement Treatment, Subgrade Modification, or any combination of these.
2. Contractor to clear and grade parking for proposed Sidewalk. Sidewalk to be built by "Others"

East ½ Eastern Avenue
95.7' S of SL Nies Addn — NL Gilbert St.
15' Concrete & Curb

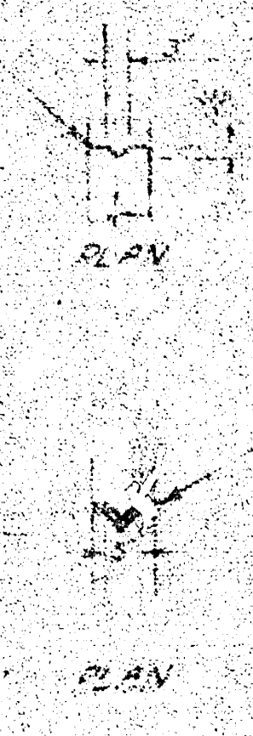
R.W. Linn City Engineer
City of Wichita, Kansas
Project No DAKS 572018 Date: April 1973



GRAVITY TYPE
(Concrete)

DIMENSIONS		Conc / Ft
h	b	Cu. Yds.
1'-9"	11"	.046
2'-0"	13"	.059
2'-3"	15"	.073
2'-6"	17"	.089
2'-9"	18.5"	.104
3'-0"	20"	.120

Construct Tar Paper & Keyed Construction Joints @ 20' Intervals Discontinue Reinf. Steel in L & T Type Walls



Expansion Joints @ 100' Maximum Spacing. 1" Preformed Expan. Jt. Material. Discontinue Reinf. Steel.

L-TYPE WALLS
(Reinf. Concrete)

DIMENSIONS		PER LIN. FT OF WALL	
h	b	# Reinf. Steel	Cu. Yds. Conc.
3'-3"	1'-6"	4.33	.101
3'-6"	1'-6"	4.76	.120
4'-0"	2'-0"	4.90	.126
4'-0"	2'-0"	5.00	.132
4'-6"	2'-6"	9.00	.137
4'-9"	2'-0"	9.1[illegible]	.14[illegible]
5'-0"	2'-6"	9.3[illegible]	.[illegible]

T-TYPE WALL
(Reinf. Concrete)

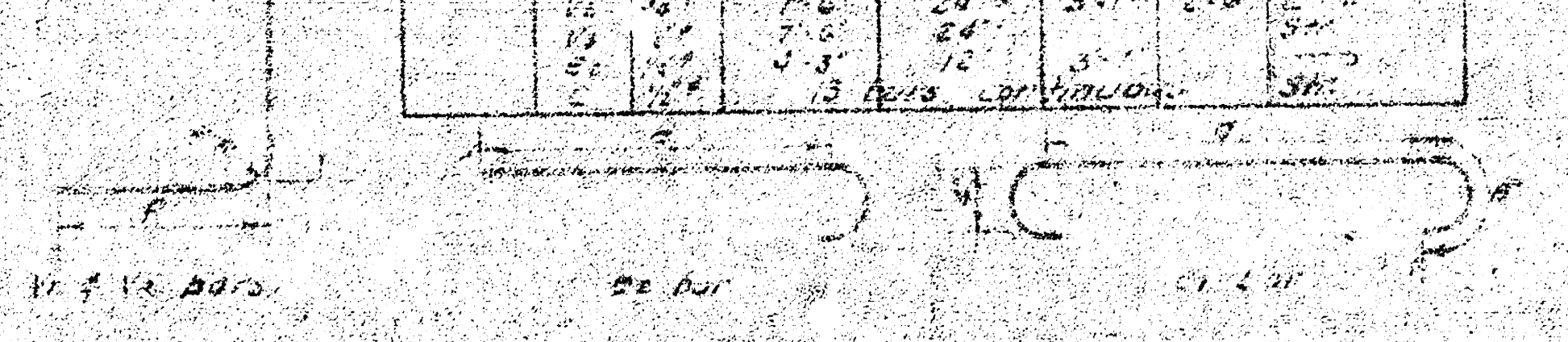
DIMENSIONS				PER LIN. FT WALL	
h	b	a	c	# Reinf. St.	Cu. Yds. Conc.
5'-6"	2'-9"	1'-0"	1'-0"	11.435	.192
6'-0"	3'-3"	1'-3"	1'-3"	12.4[illegible]	.223
6'-6"	3'-3"	1'-3"	1'-3"	14.133	.233
7'-0"	4'-0"	2'-0"	1'-3"	18.[illegible]	.25
7'-6"	4'-0"	2'-0"	1'-3"	25.13[illegible]	.283
8'-0"	4'-0"	2'-0"	1'-3"	26.6[illegible]	.303
8'-6"	4'-0"	2'-4"	1'-3"	27.380	.317

REINF. STEEL SCHEDULE – L-TYPE RET. WALLS

h	bar	size	Length	Spacing	d	f	Remarks
[illegible]	V₁ C	[illegible]	[illegible] 4 Horiz. bars continuous	[illegible]	[illegible]	[illegible]	L Shape Str.
[illegible]	V₁ C	[illegible]	4'-3" 5 Horiz. bars continuous	18"	3'-6"	[illegible]	L Shape Str.
[illegible]	V₁ C	[illegible]	5'-0" 8 bars continuous	18"	3'-5"	1'-9"	L Shape Str.
[illegible]	V₁ C	[illegible]	5'-3" 4 bars continuous	[illegible]	[illegible]	[illegible]	L Shape Str.
[illegible]	V₁ V₂ V₃ C	[illegible]	6'-3" [illegible] [illegible] 8 bars continuous	36"* 36"* [illegible]	[illegible]	[illegible]	L Shape L Str. Str.
[illegible]	V₁ V₂ V₃ C	[illegible]	[illegible] 8 bars continuous	[illegible]	[illegible]	[illegible]	[illegible] Str.
[illegible]	V₁ V₂ V₃ C	[illegible]	6'-3" 5'-1" 3'-0" 8 bars continuous	36"* 36"* 24"	4'-0" 2'-2"	2'-6" 2'-6"	L Shape L Str. Str.

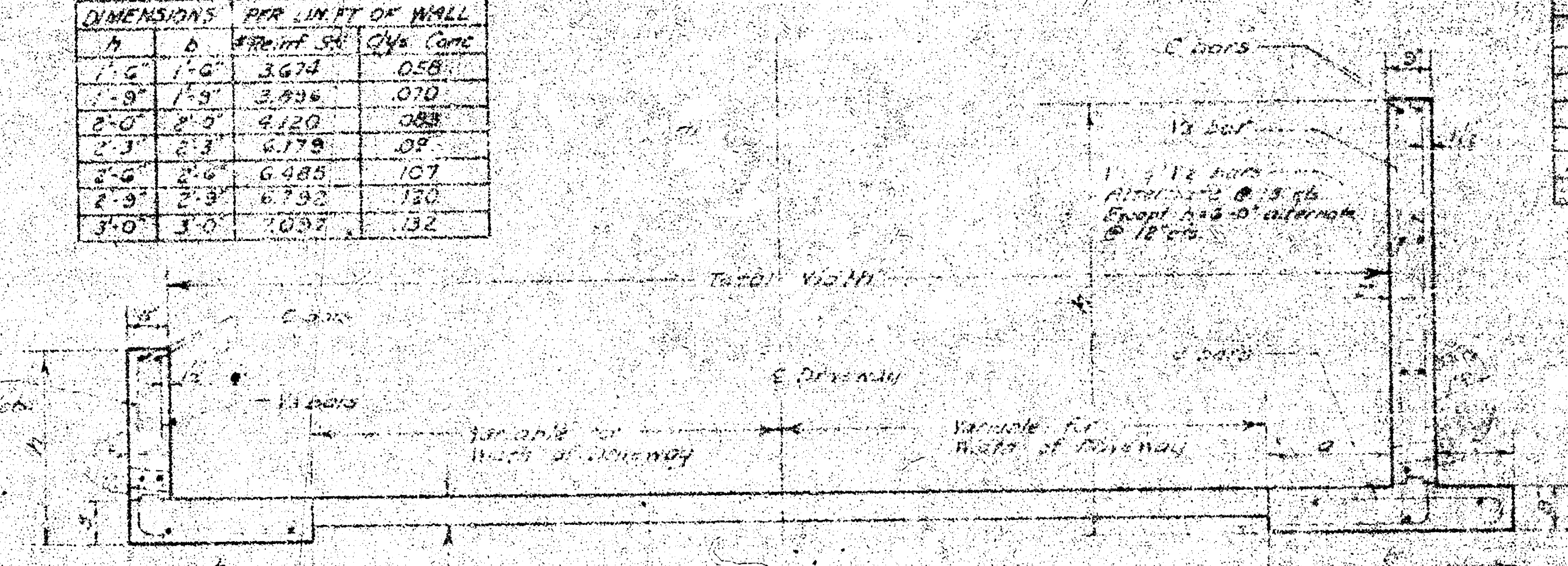
*Alternate V₁ & V₂ @ 18" c/c

T-TYPE RETAINING WALL							
5'-6"	V₁ V₂ V₃ e₂ C	[illegible]	6'-3" 4'-3" 4'-6" 3'-0" 9 bars continuous	36"* 36"* 24" 18"	5'-9" 3'-0" 2'-2"	1'-3" 1'-3"	L Shape L Str. Str.
6'-0"	V₁ V₂ V₃ e₂ C	[illegible]	7'-3" 5'-0" 5'-0" 3'-6" 10 bars continuous	24"* 24"* 24" 18"	5'-8" 3'-2" 2'-0"	1'-8" 1'-8"	L Shape L Str. Str.
6'-6"	V₁ V₂ V₃ e₂ C	[illegible]	7'-9" 5'-0" 5'-6" 3'-6" 10 bars continuous	24"* 24"* 24" 18"	6'-2" 3'-[illegible] 2'-10"	1'-8" 1'-8"	L Shape L Str. Str.
7'-0"	[illegible]	[illegible]	[illegible] 9 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
7'-6"	[illegible]	[illegible]	[illegible] 9 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
8'-0"	[illegible]	[illegible]	10'-0" 7'-0" [illegible] 13 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
8'-6"	[illegible]	[illegible]	10'-6" [illegible] 13 bars continuous	24"* 24"* [illegible]	[illegible]	[illegible]	L Shape L Str.



L₁-TYPE RETAINING WALL FOR DRIVEWAYS

DIMENSIONS		PER LIN. FT OF WALL	
h	b	# Reinf. St.	Cu. Yds. Conc.
1'-6"	1'-6"	3.674	.058
1'-9"	1'-9"	3.896	.070
2'-0"	2'-0"	4.120	.083
2'-3"	2'-3"	6.179	.09[illegible]
2'-6"	2'-6"	6.485	.107
2'-9"	2'-9"	6.792	.120
3'-0"	3'-0"	7.097	.132


C bars
V₁ & V₂ bars Alternate @ 18" c/c
V₁ bars
Total Width
℄ Driveway
Variable for Width of Driveway
Variable for Width of Driveway
C bars
V₃ bar
V₁ & V₂ bars Alternate @ 18" c/c
V bars
b

T₁-TYPE RETAINING WALL FOR DRIVEWAYS

DIMENSIONS				PER LIN. FT WALL	
h	b	a	c	# Reinf. St.	Cu. Yds. Conc.
3'-6"	3'-3"	1'-3"	1'-3"	9.213	.159
4'-0"	3'-9"	1'-6"	1'-6"	9.409	.185
4'-6"	4'-0"	1'-9"	1'-6"	11.093	.206
5'-0"	4'-3"	2'-0"	1'-6"	11.658	.226
5'-6"	4'-6"	2'-3"	1'-6"	12.867	.247
6'-0"	4'-9"	2'-6"	1'-6"	14.187	.266

REINF. STEEL SCHEDULE
L₁-TYPE RETAINING WALL FOR DRIVEWAYS

h	bar	size	Length	Spacing	d	f	Remarks
1'-6"	V₁ C	½" # ½" #	2'-3" 4 Horiz. bars continuous	18"	1'-1"	1'-3"	L Shape Straight
1'-9"	V₁ C	½" # ½" #	2'-9" 4 Horiz. bars continuous	18"	1'-4"	1'-6"	L Shape Str.
2'-0"	V₁ C	½" # ½" #	3'-3" 4 bars continuous	18"	1'-7"	1'-9"	L Shape Str.
2'-3"	V₁ V₂ V₃ C	½" # ½" # ½" # ½" #	3'-3" 3'-0" 2'-0" 6 Horiz. bars continuous	36"* 36"* 24"	1'-10" 1'-1"	2'-0" 2'-0"	L Shape L Str.
2'-6"	V₁ V₂ V₃ C	½" # ½" # ½" # ½" #	4'-3" 3'-6" 2'-3" 6 bars continuous	36"* 36"* 24"	2'-[illegible] 1'-4"	2'-3" 2'-3"	L Shape L Str.
2'-9"	V₁ V₂ V₃ C	½" # ½" # ½" # ½" #	4'-9" 4'-0" 2'-6" 6 bars continuous	36"* 36"* 24"	2'-4" 1'-7"	2'-6" 2'-6"	L Shape L Str.
3'-0"	V₁ V₂ V₃ C	½" # ½" # ½" # ½" #	5'-3" 4'-6" 2'-9" 6 bars continuous	36"* 36"* 24"	2'-7" 1'-10"	2'-9" 2'-9"	L Shape L Str.

*Alternate V₁ & V₂ @ 18" c/c

T₁-TYPE RETAINING WALL FOR DRIVEWAYS							
3'-6"	V₁ V₂ V₃ e₂ C	½" # ½" # ½" # ½" # ½" #	5'-0" 3'-6" [illegible] 3'-6" 7 bars continuous	36"* 36"* 24" 18"	3'-5" 1'-11" 2'-10"	1'-8" 1'-8"	L Shape L Str. Str.
4'-0"	V₁ V₂ V₃ e₂ C	½" #	5'-6" 4'-3" 3'-9" 3'-10" 7 bars continuous	36"* 36"* 24" 18"	3'-8" 2'-3" 3'-3"	1'-11"	L Shape L Str.
4'-6"	[illegible]	[illegible]	[illegible] 8 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
5'-0"	[illegible]	[illegible]	[illegible] 8 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
5'-6"	[illegible]	[illegible]	[illegible] 8 bars continuous	[illegible]	[illegible]	[illegible]	L Shape L Str.
6'-0"	[illegible]	[illegible]	[illegible] 6 bars continuous	[illegible]	5'-8" 3'-11"	2'-11"	L Shape L Str.

*Alternate V₁ & V₂ bars

NOTE: All excavation for retaining walls shall be included in the bid price per lin. ft. of retaining wall. The 4" Tile Weep holes & crushed rock or coarse gravel for drainage, shall be included in the bid price per lin. ft. of retaining wall.

ALL REINF. ST. FOR RETAINING WALL SHALL BE INCLUDED IN THE BID PRICE OF LIN FT RETAINING WALL

SCHEDULE OF MEASUREMENT FOR RETAINING WALLS

Gravity-Type			L-Type			T-Type		
h From	h To	Average Height	h From	h To	Average Height	h From	h To	Average Height
1'-6"	2'-0"	1'-9"	3'-0"	3'-6"	3'-3"	5'-0"	5'-6"	5'-3"
2'-0"	2'-6"	2'-3"	3'-6"	4'-0"	3'-9"	5'-6"	6'-0"	5'-9"
2'-6"	3'-0"	2'-9"	4'-0"	4'-6"	4'-3"	6'-0"	6'-6"	6'-3"
			4'-6"	5'-0"	4'-9"	6'-6"	7'-0"	6'-9"
						7'-0"	7'-6"	7'-3"
						7'-6"	8'-0"	7'-9"

L₁-Type			T₁-Type		
h From	h To	Average Height	h From	h To	Average Height
1'-6"	2'-0"	1'-9"	3'-6"	4'-0"	3'-9"
2'-0"	2'-6"	2'-3"	4'-0"	4'-6"	4'-3"
2'-6"	3'-0"	2'-9"	4'-6"	5'-0"	4'-9"
			5'-0"	5'-6"	5'-3"
			5'-6"	6'-0"	5'-9"

NOTE: The [illegible] Engineer shall final measure retaining walls prior to back fill operations.

11 8 5 TC-Eng 1-16-[illegible] 18