B.M. 143.23 STANDARD NE HILLSIDE & CENTRAL
B.M. 159.03 W.Elm Trim. N.S. SLEEPY HOLLOW, W.S. ROOSEVELT
B.M. 159.72 IRON IN MON. STA 157+00 N.S. MURDOCK
B.M. 171.08 X IN HUB AT SW COR. OF CR. MURDOCK & BLUFF
B.M. 178.30 X ON W. SIDE BLUFF @ NO. APP. WL No. 6 57 N. BLUFF

Survey Mon., Murdock
Elm - Collins
Elm - Roosevelt
Clecko

8'47 10" HEDGE TREE R/W
8'45 6" HEDGE TREE R/W
8'40 12" HEDGE TREE R/W
8'27 14" HEDGE TREE R/W
8'20 15" HEDGE TREE R/W
8'05 N" HEDGE R/W
8'00 10" HEDGE TREE
7'55 20" HEDGE TREE
7'53 22" STUMP R/W
7'49 12" HEDGE R/W
7'42 12" HEDGE R/W
7'41 10" HEDGE R/W
7'39 20" HEDGE R/W
7'26 8" HEDGE R/W
7'24 10" HEDGE R/W
7'07 10" HEDGE R/W
7'04 6" HEDGE R/W
7'01 12" HEDGE R/W
7'00 10" STUMP R/W
6'87 24" HEDGE TREE R/W
7'12 14" HEDGE TREE R/W
6'96 15" HEDGE R/W
6'94 8" HEDGE R/W
6'90 6" HEDGE TREE R/W
6'86 12" HEDGE TREE R/W
6'01 16" HEDGE TREE R/W
6'08 6" HEDGE TREE R/W
6'05 12" STUMP R/W
6'03 HEDGE R/W
6'00 HEDGE R/W
5'59 10" HEDGE TREE R/W
6'38 8" HEDGE TREE
6'28 10" HEDGE TREE R/W
6'18 8" HEDGE TREE R/W
6'13 10" HEDGE R/W
6'04 10" HEDGE TREE R/W
6'02 12" STUMP R/W
5'96 12" HEDGE R/W
5'91 10" HEDGE TREE R/W
5'80 12" STUMP R/W
5'69 20" HEDGE R/W
5'38 8" HEDGE R/W
5'29 6" STUMP R/W
5'19 12" HEDGE TREE R/W
5'03 12" STUMP R/W
5'23 12" HEDGE R/W
4'43 8" HEDGE TREE R/W
4'32 12" STUMP R/W
4'10 12" HEDGE TREE R/W
3'92 8" HEDGE TREE R/W
4'88 12" HEDGE TREE R/W
4'80 10" HEDGE TREE R/W
4'77 6" HEDGE TREE R/W
4'73 8" HEDGE TREE R/W
4'20 12" HEDGE TREE R/W
4'03 12" STUMP R/W
4'30 10" HEDGE R/W
4'48 18" HEDGE R/W
4'30 10" HEDGE R/W
4'43 20" HEDGE R/W
3'68 10" STUMP R/W
3'72 10" STUMP R/W
3'67 28" HEDGE R/W
3'40 5" MULBERRY R/W
3'28 6" STUMP R/W
3'25 6" HEDGE TREE R/W
3'16 16" HEDGE TREE R/W
3'12 14" STUMP R/W
3'10 6" O. FENCE R/W
3'10 W. CORE BOUNDARY
2'05 E. BOUNDARY
2'03 E. BOUNDARY

N

P.I. 100' V.C. EL. 182.02 STA 6+75
+9.036%
+1.317%
P.I. 50' V.C. EL. 186.30 STA. 3+50
+3.487%

8+50 8+00 +50 7+00 +50 6+00 +50 5+00 +50 4+00 +50 3+23 2+93

PT P.C. PT

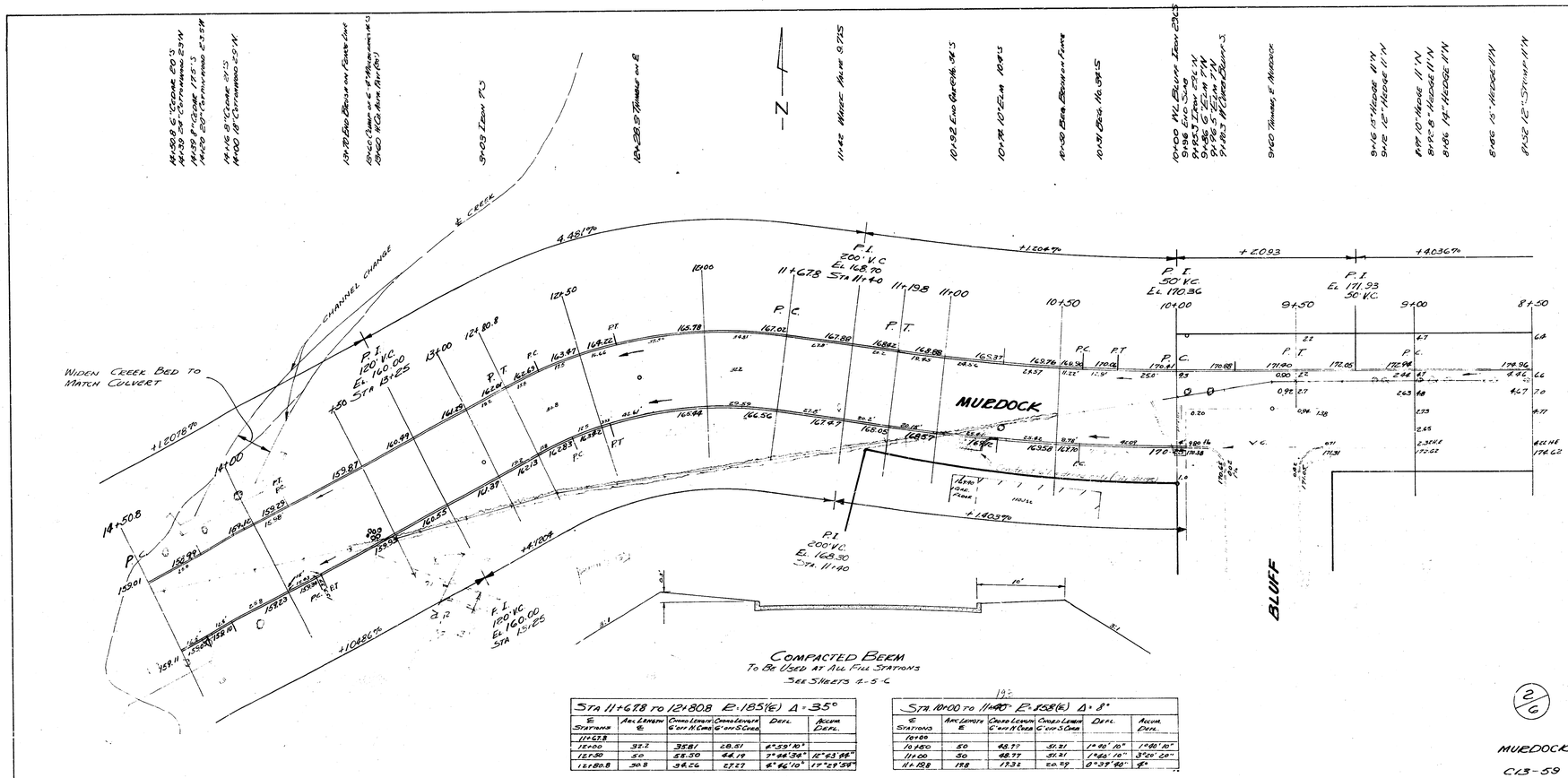
MURDOCK

FOUNTAIN 50'

BROADVIEW 60'

MURDOCK
EL BROADVIEW TO WL BLUFF
15' CONCRETE & CURB, N SIDE
WL BLUFF TO EL YALE
30' CONCRETE & CURB
CITY OF WICHITA KANSAS
B E SMITH CITY ENGINEER
JUNE 1953 PROJECT NO C13-59

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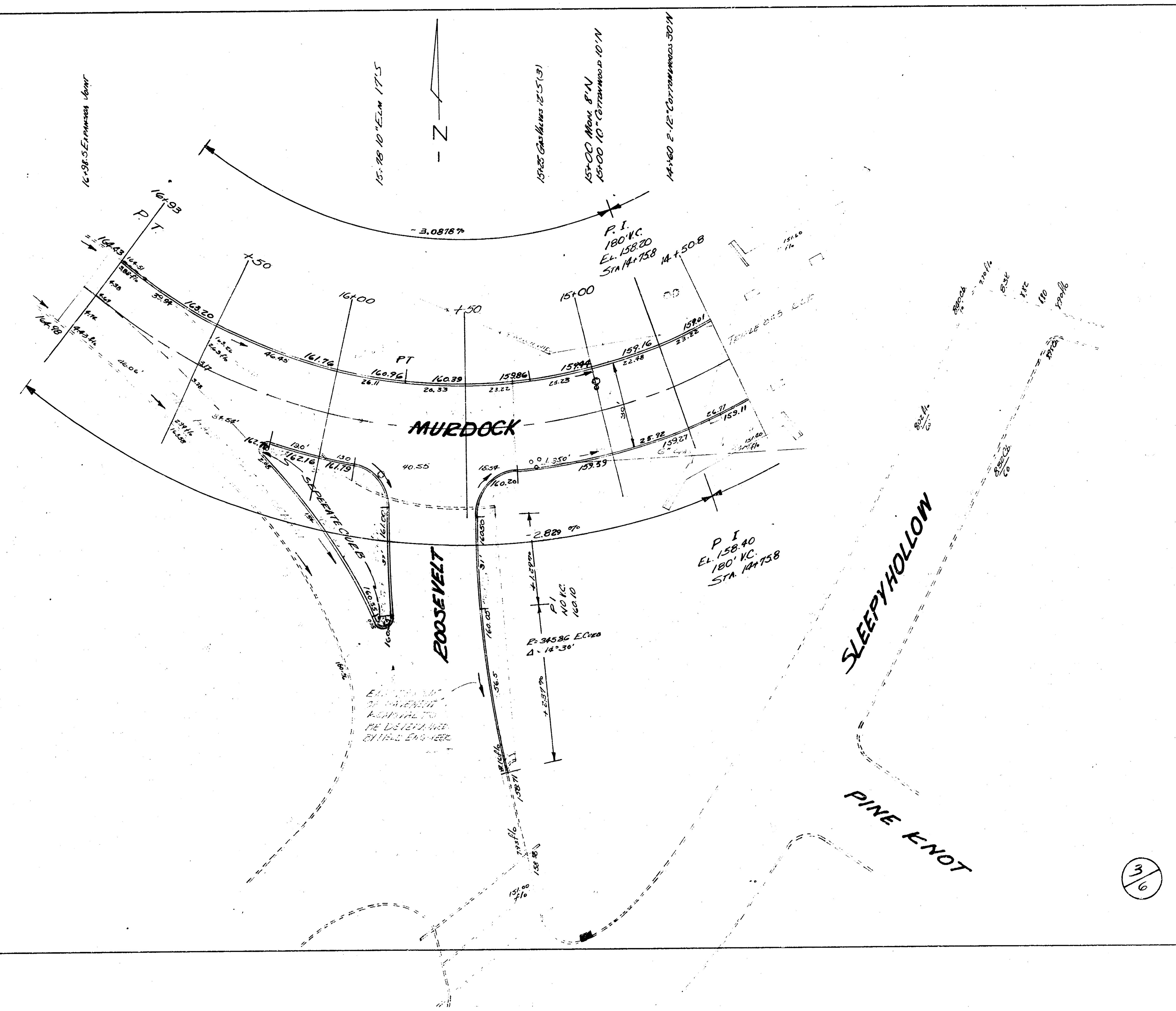
COMPACTED BERM
To Be Used at All Fill Stations
See Sheets 4-5-6

Sta 11+67.8 to 12+80.8 R=185'(E) Δ=35°						
℄ Stations	Arc Length ℄	Chord Length G'ent N Chord	Chord Length G'ent S Chord	Defl.	Accum. Defl.
11+67.8					
12+00	32.2	35.81	28.51	8°59'10"	
12+50	50	55.50	44.19	7°46'38"	16°45'48"
12+80.8	30.8	34.26	27.27	8°46'10"	17°29'58"

Sta. 10+00 to 11+40 R=158'(E) Δ=8°						
℄ Stations	Arc Length ℄	Chord Length G'ent N Chord	Chord Length G'ent S Chord	Defl.	Accum. Defl.
10+00					
10+50	50	49.77	31.21	1°40'10"	1°40'10"
11+00	50	49.77	31.21	1°45'10"	3°20'20"
11+19.8	19.8	17.32	20.09	0°37'40"	4°

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MUEDOCK
CL3-59



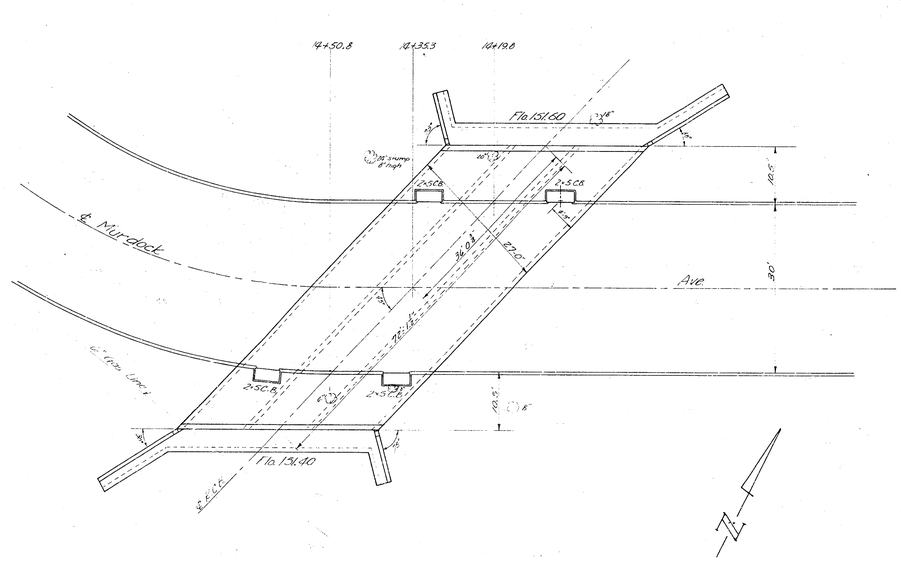
STA 14+50.8 TO 16+93 R=211'(℄), Δ=65°46'					
℄ Stations	Arc Length ℄	Chord Length 6' off N. Curb	Chord Length 6' off S. Curb	Defl.	Accum. Defl.
14+50.8					
14+75.8	25	22.50	27.47	3° 23' 40"	
15+00	24.2	21.78	26.59	3° 17' 08"	6° 40' 48"
15+25	25	22.50	27.47	3° 23' 40"	10° 04' 28"
15+50	"	"	"	"	13° 28' 08"
15+75	"	"	"	"	16° 51' 48"
16+00	"	"	"	"	20° 15' 28"
16+25	"	"	"	"	23° 39' 08"
16+50	"	"	"	"	27° 02' 48"
16+93	43	38.65	47.20	5° 50' 17"	32° 53' 05"

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MURDOCK
C13-59

3 - 8'x5' R.C.B.

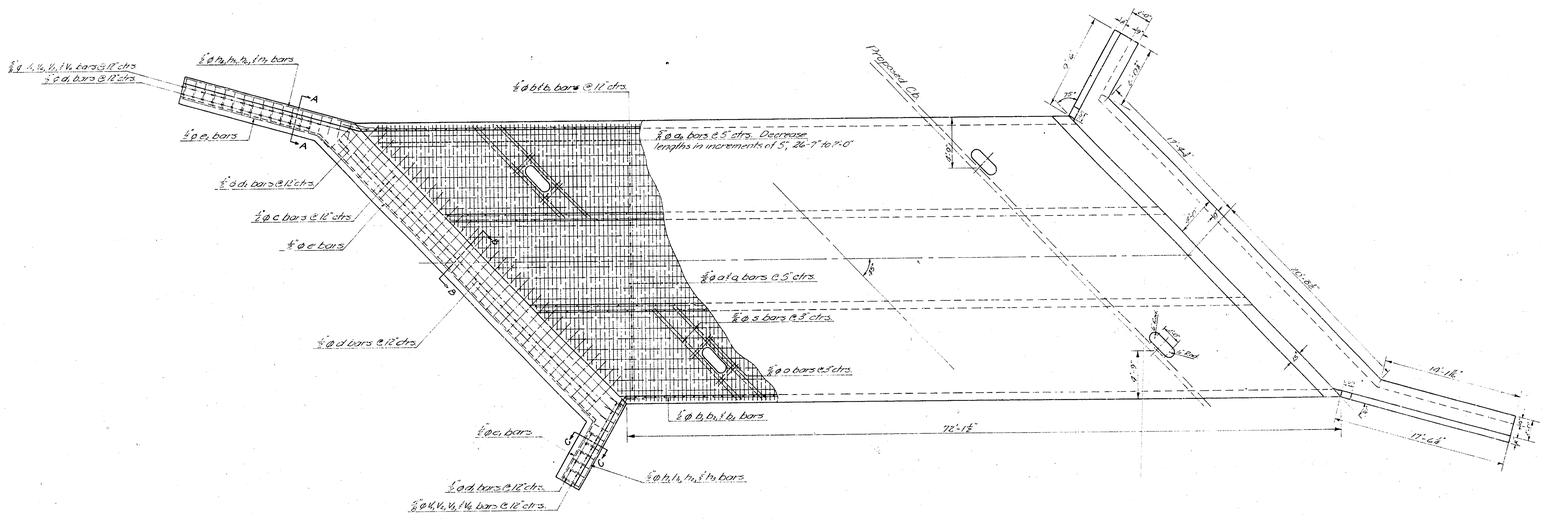
MURDOCK AVE.



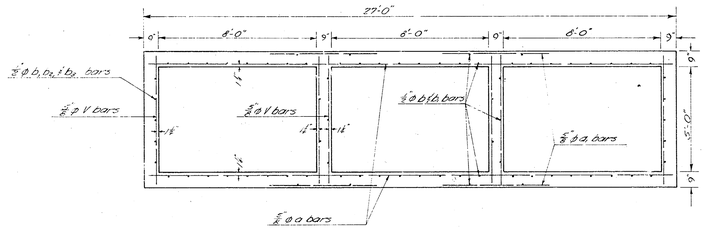
PLAN LAYOUT

Scale: 1"=10'

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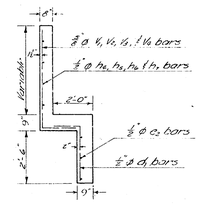

#8 @ 1/4, 1/2, 1 1/4, bars @ 11" ctrs
#8 a, bars @ 11" ctrs
#8 b, b1, b2, (1½) bars
#8 e, bars
#8 d, bars @ 12" ctrs
#8 c bars @ 11" ctrs
#6 e bars
#8 d bars @ 12" ctrs
#6 b1 b, bars @ 11" ctrs
#8 a, bars @ 5" ctrs. Decrease lengths in increments of 5", 26'-7" to 1'-0"
#8 a1 a bars @ 5" ctrs
#8 a3 bars @ 5" ctrs
#8 a2 bars @ 5" ctrs
#8 b, b1, b2 bars
#8 e, bars
#8 d, bars @ 12" ctrs
#8 b, b1, b2, b3 bars
#6 d, bars @ 12" ctrs
#6 d1, d2, d3, d4 bars @ 12" ctrs
Proposed Ctr.
72'-1½"
11'-4"
10'-11½"
17'-6½"
PLAN VIEW
Scale: 1/16" 1'-0"
#8 V bars @ 11" ctrs
#8 b, b1, b2 bars @ 12" ctrs
SIDE ELEVATION
Scale: 1/16" 1'-0"

NOTE: Excavation is to be extended 2.0' beyond sides of the box & wingwalls. backfill is to be carried to original ground elevation. Backfill is to be sand stabilized and mechanically tamped.



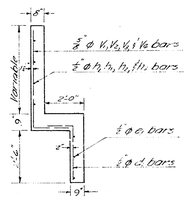
CROSS SECTION OF BOX

Scale: 3/8"=1'-0"



SECTION A-A

No Scale



SECTION C-C

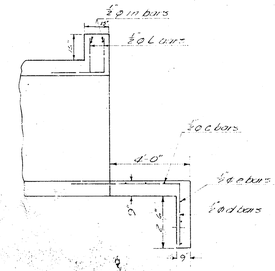
No Scale

LONGITUDINAL SECTION OF WINGWALL

Scale: 3/8"=1'-0"

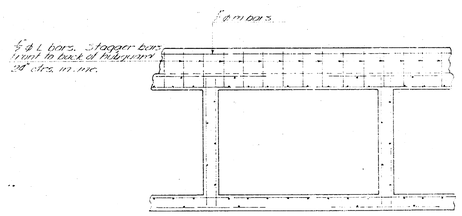
LONGITUDINAL SECTION OF WINGWALL

Scale: 3/8"=1'-0"



SECTION B-B

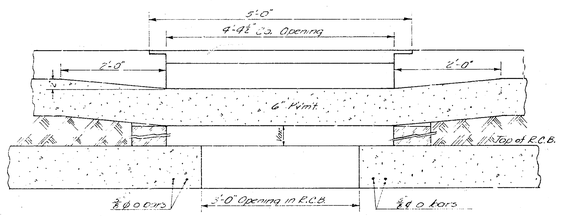
Scale: 3/8"=1'-0"

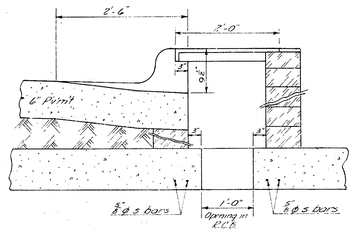


SECTION OF BOX & HUBGUARD

Scale: 3/8"=1'-0"

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SECTIONS THROUGH CATCH BASINS

Scale: 1"=1'-0"

STEEL SCHEDULE									
BAR	SIZE	NO.	LENGTH	SHAPE	BAR	SIZE	NO.	LENGTH	SHAPE
a	½ ø	216	22'-8"		h_4	½ ø	2	12'-11"	
a_2	½ ø	4 each 11 others	2'-0" to 20'-0"		h_5	"	2	7'-11"	
a	⅝ ø	654	5'-6"		L	"	72	5'-5"	
b	½ ø	76	40'-0"		m	½ ø	4	57'-1"	
b_1	"	66	32'-9"		o	⅝ ø	16	3'-0"	
b_2	"	10	19'-1"		s	"	16	12'-7"	
b_3	"	10	19'-1"		V	"	288	6'-8"	
c	"	6	38'-0"		V_1	"	12	5'-6"	
d	"	70	8'-0"		V_2	"	12	6'-6"	
d_1	"	40	8'-3"		V_3	"	16	7'-3"	
d_2	"	4	5'-10"		V_4	⅝ ø	12	8'-4"	
e	"	6	38'-2"						
e_1	"	6	8'-5"						
e_2	"	4	16'-1"						
h	"	6	11'-11"						
h_1	"	2	10'-6"						
h_2	"	2	8'-1"						
h_3	"	2	5'-8"						
h_4	"	6	21'-0"						
h_5	½ ø	2	17'-11"						



b & b_1 Bars

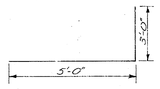
NOTE: Alternate splice of b & b_1 bars at opposite ends of the box.



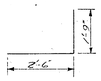
b_1 & b_2 Bars



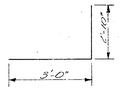
b & b_3 Bars



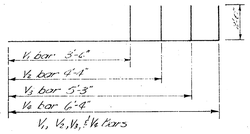
d Bar



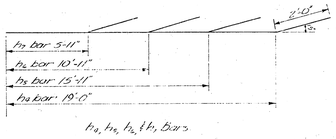
d_1 Bar



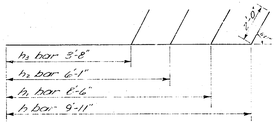
d_2 Bar



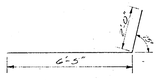
V_1, V_2, V_3 & V_4 Bars



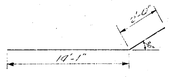
h_3, h_4, h_5 & h_7 Bars



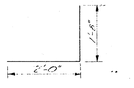
h_6, h_7, h_8 & h_9 Bars



e, Bar



e_2 Bar



L Bar

BILL OF MATERIALS		
ITEM	QUANTITY	UNITS
Class "A" Concrete	179.60	Cu. Yd.
General Excavation	179.0	Cu. Yds.
Hand Excavation	19.1	Cu. Yd.
Compacted Backfill-Sand	25	Ton.
Reinf. Steel	20,935	Lbs.
Catch Basins	11	(complete)
Large Trees Removed	3	
Small Trees Removed	2	

BAR BENDING DIAGRAMS No Scale