PLATE I - PLAN PROFILE & P.R.& H.C. STANDARD
KUEFFEL & ESSER CO., NEW YORK
K & E CO. No 348-10

PROFILE
SURVEYED
PLOTTED
NOTE: FOOT GRADES CHECKED
B.M. NOTED
NO.
STRUCTURE NOTATIONS
BY
DATE

Profile Exist. Ground @ Survey Line
Top Edge of Storm drain Lt & Rt.
Profile Exist. Ground 10' RT. of Survey Line
Top Edge of Storm Drain Lt & RT.
Profile Exist. Easement Line LT. (dist. from ℄ varies)
Top edge of storm drain 764.53
Top edge of storm drain 764.45
Ditch outlet El. 764.00 St. Paul Pl.
Db. 6'x4' R.C.B.
+0.11 %
+0.16 %
+0.11 %
Flow Line
Flow Line
765
760
755
765
760
755
EXIST. West Exist. 758.65
INTERSECTION Eileen St. 758.28
Sta 43+68.60 Beginning of Transition 39.72
Sta 43+98.60 Beginning of R.C.B. 39.20
CENTER of Construction 39.24
Sta 51+32.60 End of R.C.B. 39.28
Sta 51+51.60 End of Trans. 39.30
Sta 38+81.62 ℄ St. Paul Place 39.62
EXIST. Manhole 755.51
℄ St. Paul Place
Top of curb grade St. Paul Place
Provide curb opening
765 13 14
764.10
Length of curb & Gutter to be determined in the field
EXIST. T.C.
+0.2%
11+68.62
+0.36%
Top of left curb Canterbury Road
765
℄ Grade of Canterbury Road
765
+0.32%
+0.3%
EXIST. T.C.
+0.65%
11+87.62
+0.24%
Top of Right curb Canterbury Road
765
Beginning of Curb & Gutter
End of Curb & Gutter
Inlet at ℄ Canterbury Road
20' V.C.
13' x 20
13+39.42 ℄ Beginning of Curb & Gutter
13+71.00 Northerly edge of A.C.P.
13+71.00 End of Curb & Gutter
13+39.42
13+71.00
764.35
764.32
764.27
764.18
764.22
764.20
764.26
764.19
764.18
764.02
764.19
764.18
764.26
764.36
764.22
764.20

EASEMENT

ARLINGTON AVENUE

PHOENIX AVENUE

Profile of Exist. Ground Survey Line

Profile Exist Ground 10' RT. (of Survey Line)

Profile Exist Ground 10' LT. (of Survey Line)

Top Edge of Storm Drain Lt. & Rt.

TRAPEZOIDAL CHANNEL

GUNITED b=9.00

Flow Line

+0.11%

+0.445%

+0.29%

+0.11%

+0.15%

+0.26%

+0.15%

Top edge of Storm Drain Rt.

Top edge of Storm Drain Lt. 15' Rt. of Survey Line 5' Lt. of Survey Line

Super elevation to the right side of the Storm Drain

Install 40'± of 54" R.C. Pipe D-1200 Bedding as per Std. Dwg. No. 452 Case III

Profile of Exist. Ground at ℄ Storm drain

48" R.C.P. D-1100 BEDDING AS PER STD. DWG. NO. 452 CASE III

Exist. 12" V.C.P.

Exist. 21" V.C.P.

8" V.C.P.

30" Gas Line

3" Gas Line

12" Water Main to be relocated by Water Dept.

Const. Manhole as per Std. Dwg. No. 500

Exist. Manhole at ℄ Via San Jose

Exist. Ground

16" Conc. Pipe

Gas Main

6" Water

48" R.C.P. to be installed

Const. Manhole as per Std. Dwg. No. 500

Const. 47'± 8" V.C.P.

Scales: Hor. 1"=10' Vert. 1"=5'

DETAIL "A"

Existing Manhole on ℄ Arlington Ave.

Const. Sewer Manhole as per Std. Dwg. No. 500

43" R.C.P. to be installed

Exist. Sewer to be removed

Exist. 21" V.C.P.

Const. 36'± 21" V.C.P.

Scales: Hor. 1"=10' Vert. 1"=5'

DETAIL "B"

Const. Manhole as per Std. Dwg. No. 500

12" Water Main Top 763.60±

Const. 78'± 12" V.C.P.

Scales: Hor. 1"=50' Vert. 1"=5'

Profile of Sewer Sta. 19+50±

Exist. Top of curb

℄ St. George Place

Exist. top of curb

Length to be determined in the field.

B.M. R.R. SPIKE in Pole #598361 H at angle point, Arlington and Monroe Storm Drain #2 approx. 200' Ely. of St. George Place. Elev. 765.501

F.B. - 676/7-18, 35-37 plan #2137 599/47

SCALES: HOR. 1"=50' VER. 1"=5'

See Sheet #3

See Sheet #1

11+00 Match Line

26+00 Match Line

765

760

755

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

R.S. 23/36

SCALE 1"=50'

SEE DETAIL SH. #5

LOT 7, BLOCK 6 OF RIVERSIDE LAND AND IRRIGATING CO. SUB. DIV. MAP BOOK 1, PAGE 70, REC. OF S.B. COUNTY.

Notes Referring to St. George Place

1. Remove curb and Gutter, D'way approach and paving as far as necessary.
2. Replace curb and Gutter and paving as shown. Driveway approach as required in the field.
3. Reset exist. fence and install 4' single gate. Fill area between new curb and gutter & Storm drain with dirt and grade. Slope to be 0.3%
4. Provide opening in curb at ℄ St. George Place and construct concrete lined ditch between curb and Storm drain as shown on Sh. #5
5. Furnish and install one reflector, State of California, Division of Highways, Type R. W 21R as required in the field.

Install fence along the easement line as per Std. Dwg. No. 900 (Fence is not shown) Install 4' Single gate at St. George Pl.

Construct 20'± concrete lined ditch. (See Note 4)

Replace paving (o.2' P.M.S. on o.56' B.M.)

curb curve data: R=30' B.L.I. dependant upon replacing D.W. approach

Δ = 48°28'01" L = 26.70' For curb profile see above, right

Comb. P.C. Sta 3+30.20 R=12.7 Ty. R.C.R.=1.3 Eq. And P.C. 12+04.75 R. to P.C.I. 5+04.75

Construct Sewer manhole as per Std. Dwg. No. 500

Sewer manhole to be abandoned See Note (6) at right

4" Gun ditch

Beginning of Curb Return

End of Curb Return

Beginning of Transition

End of Transition

Beginning of Reverse Curve

End of Reverse Curve

P.C. Sta. 13+33.38 Rad. 60.00 Tan. 85.15

P.C. Sta. 14+18.53 Rad. 60.00 Tan. 85.15

Beginning of Transition

Beginning of Reverse Curve

End of Transition

End of Reverse Curve

Sta. 14+03.38 Rad. 60.00 Tan. 85.15

Sta. 14+88.53 Rad. 60.00 Tan. 85.15

Sta. 13+49.08 E.C. Rad. 60.00 Tan. 66.28

Sta. 13+49.08 B.C. Rad. 60.00 Tan. 66.28

Sta. 13+31.41 Rad. 60.00 Tan. 66.28

Sta. 13+17.67 B.C. Rad. 60.00 Tan. 66.28

Sta. 11+00. Match Line See Sheet #1

Elev. 759.91

Top edge of Storm Drain Lt. Rad. 60.00 Tan. 66.28

Top edge of Storm Drain Rt. Rad. 60.00 Tan. 66.28

Top edge of Storm Drain Lt. Rad. 60.00 Tan. 66.28

Top edge of Storm Drain Rt. Rad. 60.00 Tan. 66.28

Top edge of Storm Drain Lt. Rad. 60.00 Tan. 66.28

Top edge of Storm Drain Rt. Rad. 60.00 Tan. 66.28

Elev. 765.73

Elev. 765.63

Elev. 765.73

Elev. 765.28

Elev. 765.28

Elev. 765.63

Elev. 765.73

Elev. 765.73

Elev. 765.63

Elev. 765.73

Elev. 765.73

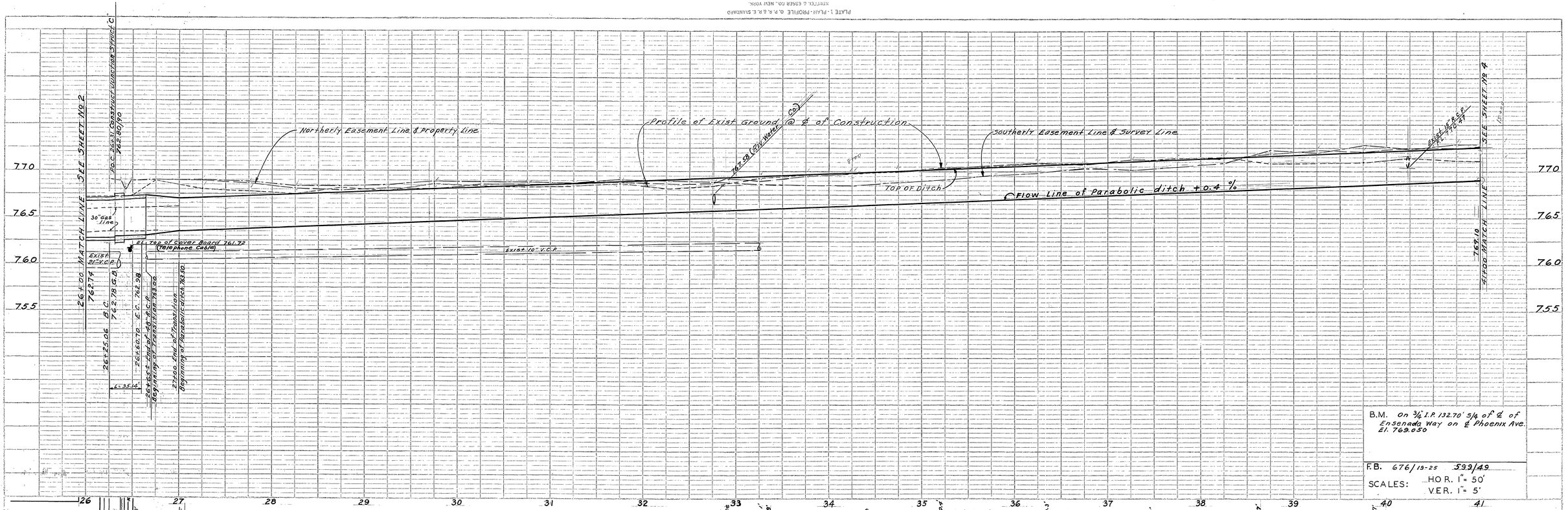
Elev. 765.63

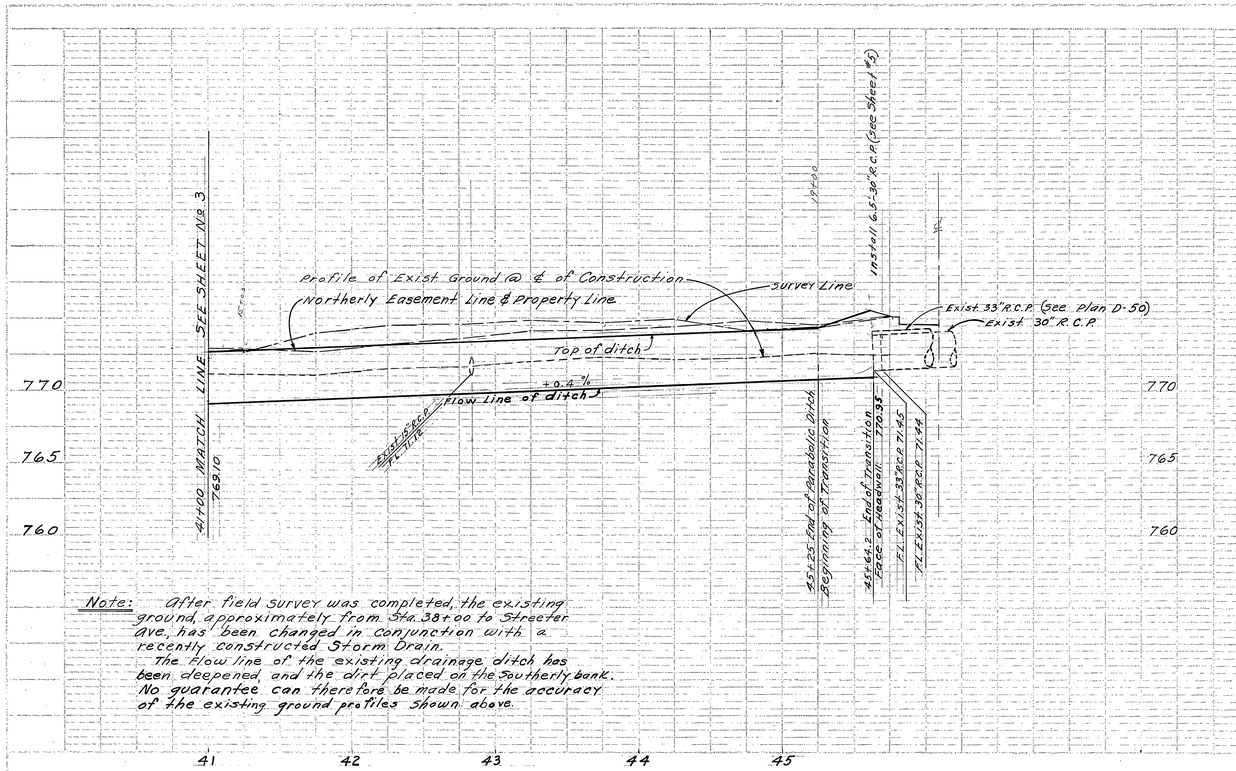
Elev. 765.73

Elev. 765.73

PLATE 1 - PLAN-PROFILE O.P.R.R.E. STANDARD
STERLING E. EGGER CO. NEW YORK.
K & E Co. No. 348-HC

PROFILE
GRUNTED
TRACED
NOTE BOOK CHECKED
S. M. STOTD.
STRUCTURE NOTATING CHKD.
NO. ____ BY ____ DATE ____



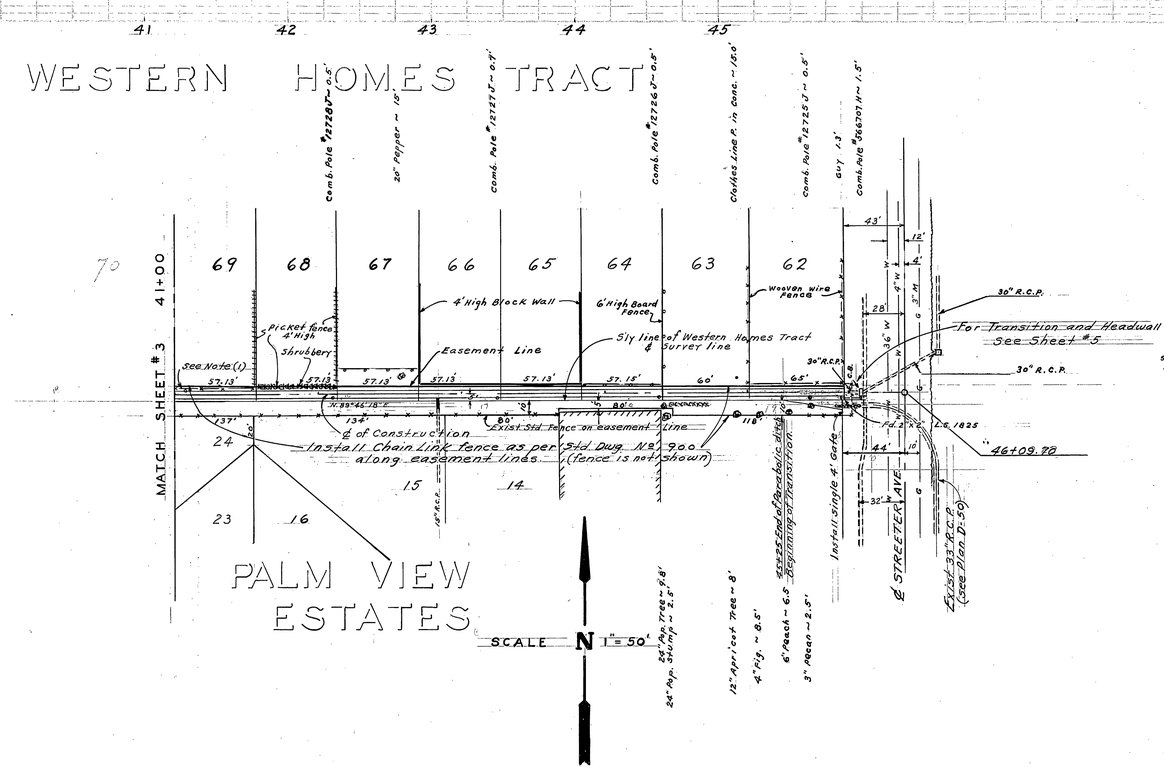


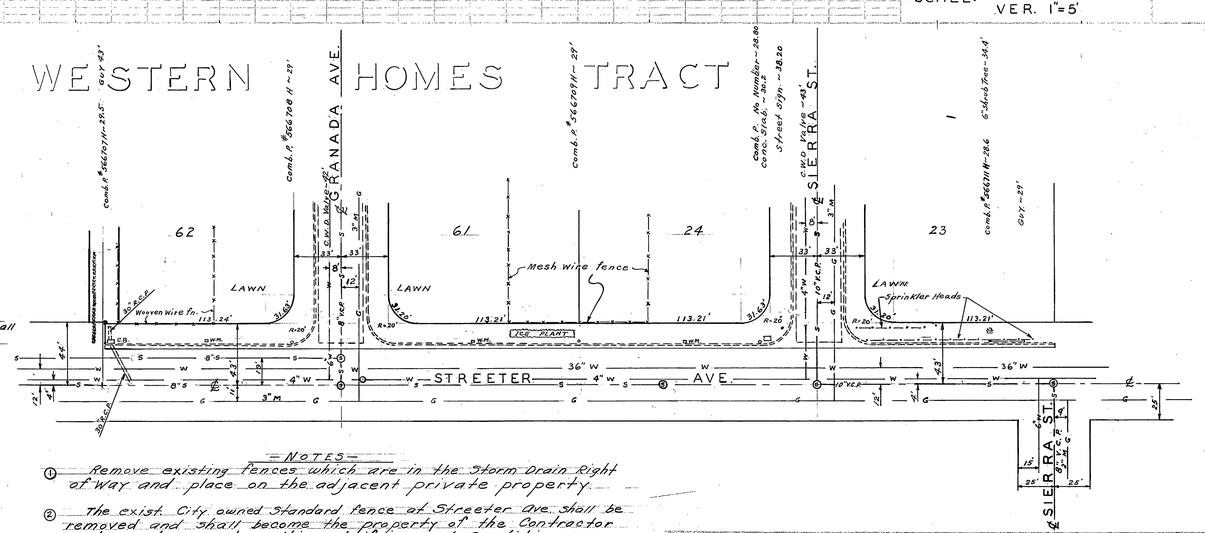
Note: After field survey was completed, the existing ground, approximately from Sta. 38+00 to Streeter Ave., has been changed in conjunction with a recently constructed Storm Drain.
The flow line of the existing drainage ditch has been deepened, and the dirt placed on the Southerly bank. No guarantee can therefore be made for the accuracy of the existing ground profiles shown above.

B.M. R.R. spike in 30" Walnut Tree approx. 60' S/W of S.W. Cor. of Western Homes Tract Approx. 664' Ely. & Phoenix Ave. El. 770.10

F.B. 676/26-34 37-41

SCALE: H.O.R. 1" = 50'
V.E.R. 1" = 5'





NOTES

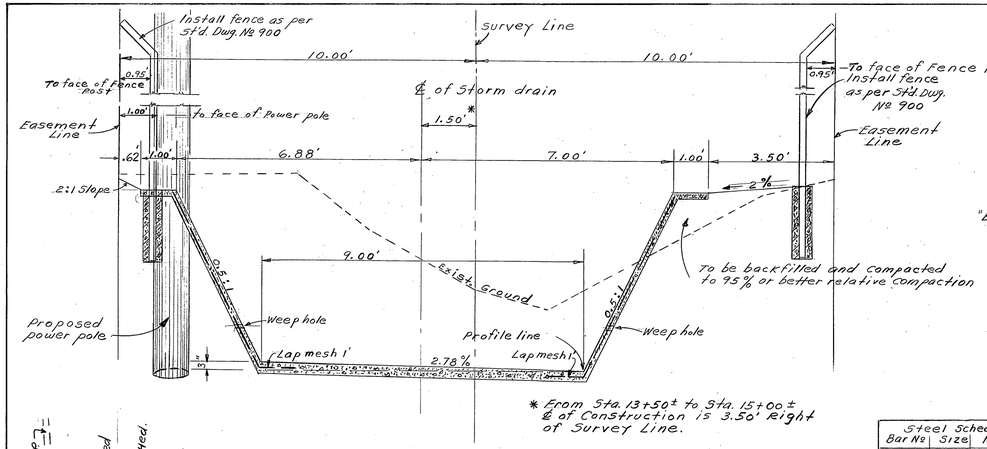
1. Remove existing fences which are in the Storm Drain Right of Way and place on the adjacent private property.
2. The exist. City owned Standard fence at Streeter Ave. shall be removed and shall become the property of the Contractor and may be reused on this job if in good condition.
3. Extend a 15" R.C.P. at Sta. 42+85 ± Rt. outlet to be flush with the lining of the ditch.

SCALE 1" = 50'

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
			ARLINGTON MONROE STORM DRAIN NO. 2 T-DITCH ELY OF ADAMS STREET TO STREETER AVENUE
			Acct. No. RF1343-4001
DESIGNED BY H.J.K. CHECKED BY			APPROVED BY
DRAWN BY H.R.C.			DIRECTOR OF PUBLIC WORKS
RECOMMENDED BY ASSISTANT CITY ENGINEER			DATE

D-38

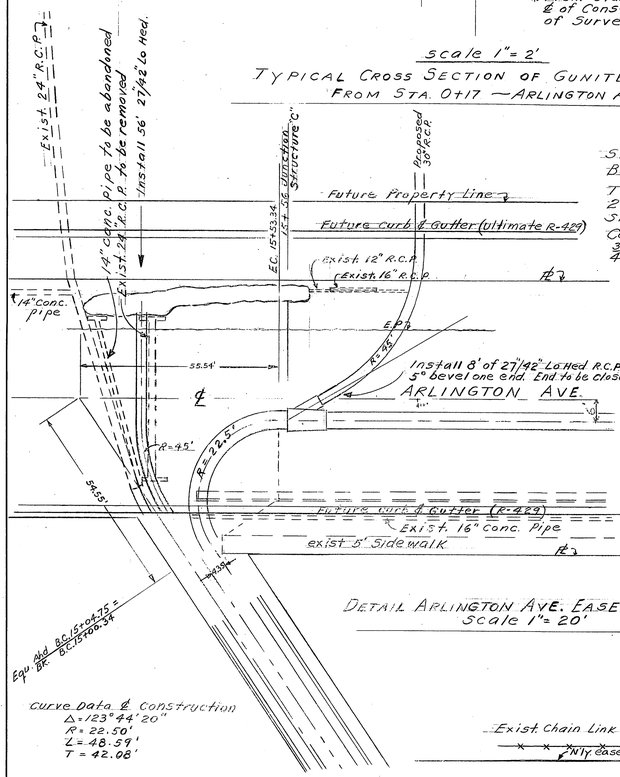
SHEET 4 OF 6



* From Sta. 13+50± to Sta. 15+00 ± ℄ of Construction is 3.50' right of Survey Line.

scale 1" = 2'

TYPICAL CROSS SECTION OF GUNITED DITCH FROM STA. 0+17 — ARLINGTON AVE

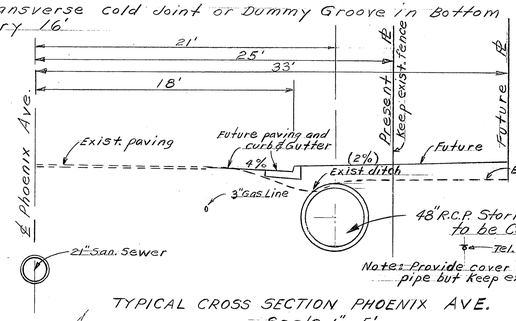


DETAIL ARLINGTON AVE. EASEMENT
Scale 1" = 20'

Curve Data & Construction
Δ = 123° 44' 20"
R = 22.50'
L = 48.59'
T = 42.08'

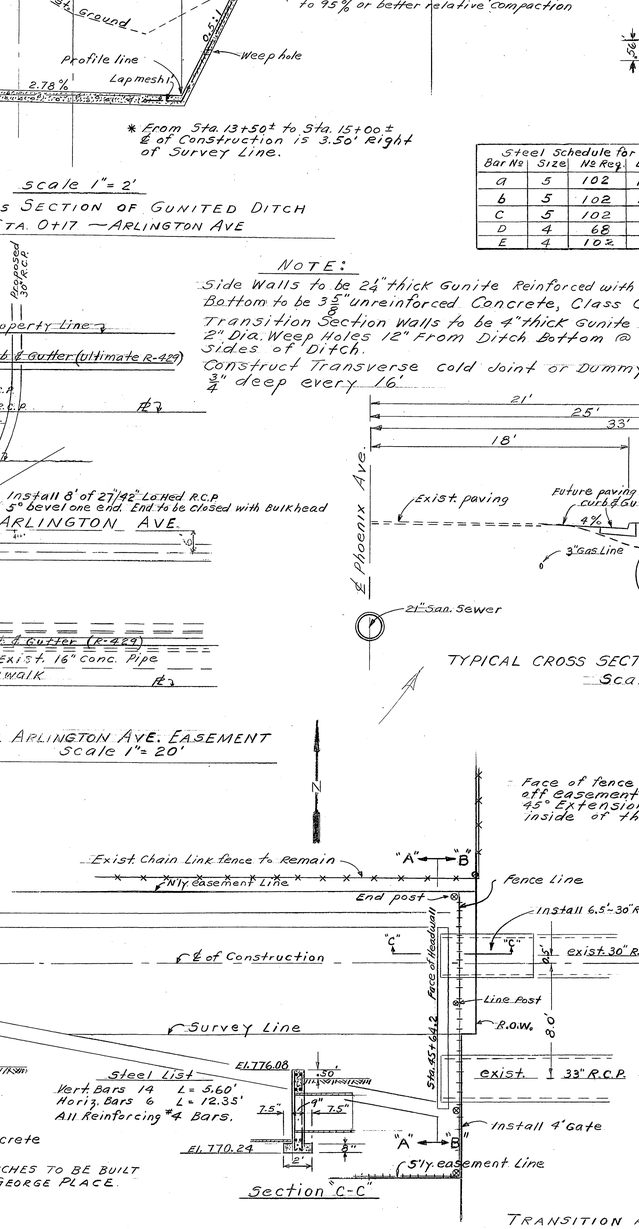
Steel Schedule for R.C.B.			
Bar №	Size	№ Req'd	Length
a	5	102	14.25'
b	5	102	13.58'
C	5	102	6.50'
D	4	68	31.06'
E	4	10±	4.75'

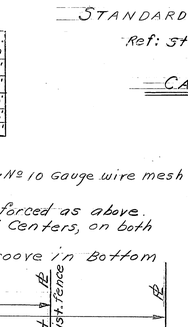
NOTE:
Side Walls to be 2½" thick Gunite Reinforced with 4x4-№ 10 Gauge wire mesh
Bottom to be 3½" unreinforced Concrete, Class C.
Transition Section Walls to be 4" thick Gunite Reinforced as above.
2" Dia. Weep Holes 12" From Ditch Bottom @ 8'-0" Centers, on both Sides of Ditch.
Construct Transverse cold Joint or Dummy Groove in Bottom ¾" deep every 16'

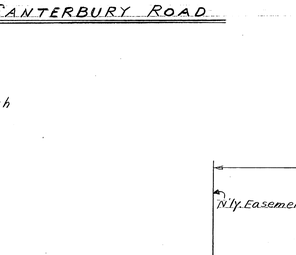


TYPICAL CROSS SECTION PHOENIX AVE.
Scale 1" = 5'

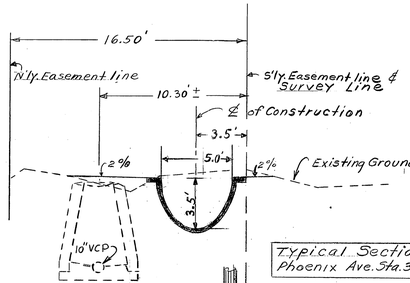
DETAIL OF CONCRETE LINED DITCHES TO BE BUILT AT ST. PAULS PLACE AND ST. GEORGE PLACE.
SCALE 1" = 1'



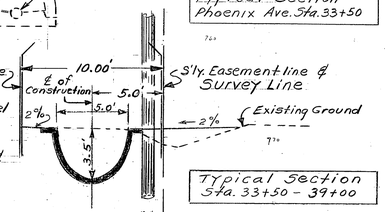




TRANSITION AND HEADWALL AT STREETER AVE. (STA. 45+60)
Scale 1" = 5'

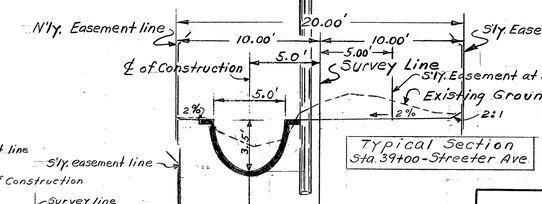


Typical Section
Phoenix Ave. Sta. 33+50



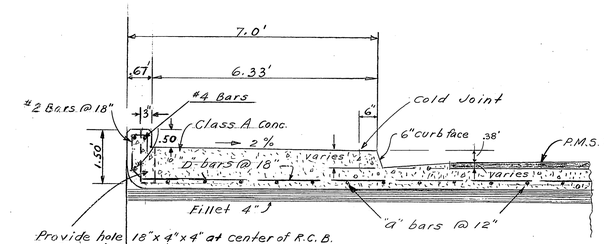
NOTE:
Parabolic ditch to be 2" gunited and steel troweled. Reinforced with 4" x 4" -10 ga. Wire mesh.
Between Phoenix & Streeter Ave's, install fence posts 0.10' off easement line.

Typical Section
Sta. 33+50 - 39+00



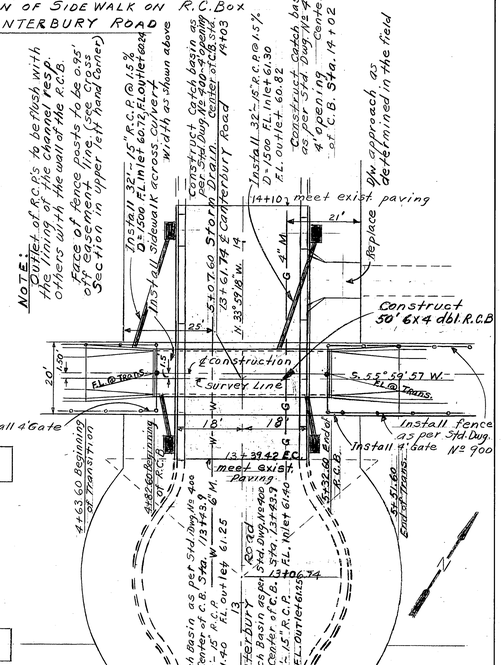
Typical Section
Sta. 39+00 - Streeter Ave

Scale 1" = 5'



Scale 1" = 2'

CROSS SECTION OF SIDEWALK ON R.C. BOX AT CANTERBURY ROAD



Scale 1" = 20'

DETAIL AT CANTERBURY ROAD

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
			ARLINGTON - MONROE STORM DRAIN NO. 2
			Acct. No. RF 1343-4001
DESIGNED BY H.J.K. CHECKED BY DRAWN BY H.R.C.			APPROVED BY DIRECTOR OF PUBLIC WORKS
RECOMMENDED BY ASSISTANT CITY ENGINEER			DATE
			D-38 SHEET 5 OF 6

Void

Void
SAVE