844
840
836
832
828
824
820
10+11.79 End Exist. Culvert 840.59 Ex. F.L.
Top of box elev = 841.13
9+95.79 Const. C.B. Riv. City Std. 400 Inlet elev = 840.30
9+91.79 Back of Box outlet F.L. = 837.30
9+47.90 Const. Junction Structure "B" Riv. City Std. 421 834.00 F.L. 15" R.C.P.
8+16.08 E.C. 833.10 F.L.
7+78.52 B.C. 832.84 F.L.
7+15.47 ℄ Grate Top C.B. Const. C.B. Riv. City Std. 425 (Mod) with grate top 832.41 F.L. Elev. Top of grate = 838.55
15" R.C.P. 1500-D S=0.0802
834.02 F.L.
Install 18" R.C.P. 1500-D S=0.00684
Proposed finished surface over pipe
Existing Ground at ℄ Easement
3+26.47 Const. C.B. Std. 425 Mod. W/Grate Top 829.75 F.L. Top = 833.00
Install 2-25"X16" CMP 16 ga. S = 0.0050
Maintain Min. of 0.5' Fill Over Pipe
0+23 Back of Struct. 828.24 F.L. 830.00 Top
0+00 Const. Curb Outlet Struct. Std. 410 (Mod.) 828.91 T.C. 828.12 F.L.
REVISED GRADE & ℄ ALIGNMENT Sta. 3+26.47 to 9+91.79
10
9
8
7
6
5
4
3
2
1
0
M/B 23/49
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
BENCH MARK
R.R. Spike in Euc. tree West Side Madison St.
Opposite Sly. Prop. line of Garden St.
ELEV = 840.788
7+78.52 B.C.
7+15.47 ℄ Grate Top C.B. Std. 425 (Mod) See Note
S33°57'22"E 63.05'
S33°57'22"E 637.42'
S 33°57'22" E 389.00'
5'
18" R.C.P. 1500-D
10' Private Drainage Easement
S 33°57'22"E 330.47'
P. Pole
Fruit Tree
Wood fence
P. Pole
Wire fence
P. Pole
10'
Wood fence
18" Pepper Tree
0+23 Back of Struct.
P. Pole to be relocated
Ex. C&G W/6" C.F.
0+00
℄ Struct. at Curb Face
ORCHARD ST.
Ex. C&G W/6" C.F.
15'
18'
18'
15'
Ex. 12"X18" C.B. W/6" pipe outlet (Takes irrg. runoff from grove.)
See detail below for Outlet Structure
Wire fence
Ex. Edge of Pave
2-25"X16" CMP 16 ga. Smooth Bore
Orange Trees
R=45'
Δ=47°49'18"
L=37.56'
T=19.95'
8+16.08 E.C.
10'
5'
18" R.C.P. 1500-D
S81°46'40"E 175.71'
15" R.C.P. 1500-D
Transition 15" RCP to 18" RCP at Jct. Str. See Detail
N50°41'42"E 150.66'
Const. C&G to ℞
9+91.29 Back of Box Outlet F.L. = 837.30
Inlet = 840.30 Top Box = 841.13
Const. C.B. Std. 400 W/4' Opening
9+47.90 Const. Junction Structure Type "B" Riv. City Std. 421
S33°57'22"E 10.00'
Ex. 3'X12' Conc. Culvert
Ex. Outlet F.L. = 840.59
Ex. Surface drainage
Ex. 12" Conc. Pipe Outlet F.L. = 841.13
Ex. 6' Ch. link Fence
15" R.C.P. Storm Drain to be installed by others
230' RCP S=0.0005 S 55°59'32"W
Top 37.27 F.L. 35.27
PARCEL TWO
R/S 581
Detail Showing grate placement
18" RCP
25"X16" CMP
25"X16" C.M.P.
3+26.47 ℄ Grate Top C.B. Std. 425 (Mod.) See Note
S 55°59'32"W
Property Line
Property Line
NOTE
Catch basins at Sta. 3+26.47 & 7+15.47 to be Std. 425 except use 6" top & 5/8" dia. reinforcing 1" clear from bottom of cover with grate & frame (18"X 35 1/2") in top. (Alhambra Foundary Nº A 1544 or equal.)
Catch basin at Sta. 3+26.47 to be 3.5X6' (outside) and to have 2 Grates
Ex. 3'X12' Conc. Culvert
840.59 Ex. F.L.
Ex. Rock Spillway ℞
Ex. 6' Ch. lnk Fence
℄ Property Line
10'
5'
840.45
840.30
℄ Finished Surface
Catch Basin Std. 400
10'±
6" Conc. Apron to ℞
3'
15" R.C.P.
837.30 Outlet F.L.
SECTION A-A
SCALE 1"=4'
18" R.C.P. 1500-D
9+47.90
12"
"L"=2'-5"
"E"=2'-1½"
12"
0.5'
"C"=3.0'
"A" Bars
"F" bars
"B" bars
Tie bars No. 3
"A" 42°13'50"
15" R.C.P.
"B"
Join 15" RCP to 18" RCP with poured Concrete Collar at end of Jct. Str. 15" RCP 1500-D
3" min.
"D"=15"
"A" bars
"B" bars
4"
Elev. R = 834.15
Elev. "S" = 834.13
834.00 F.L. 15" RCP
JUNCTION STRUCTURE "B" RIV. CITY STD. NO. 421
Scale 1"=2'
Steel Schedule for Junction Structure
Bar	Size	Length	Number
A	3/8	1'-2"	10
B	3/8	2-2"	6
F	3/8	1'-4"	5
Join Ex C&G at Saw Cut. 6" C.F. 828.57 T.C. 828.07 F.L.
15'
18'
828.88 T.C. 9½" C.F.
828.09 F.L.
Telephone
Underground to be relocated
6'
6.67'
7.08'
Trans. 6" C.F. to 9½" C.F.
0.40% Flowline Grade
Remove & Replace 16.08' C&G Per Std. 410
0+00 ℄ Outlet 828.12 F.L. 828.91 T.C.
Ex. P.P. #11505J To be relocated
Property Line
829.24 TOP
4'
10'
Edge
Ex. Pave
Pave to ℄
3'
6.67'
5.59'
25"X16" CMP
0.5'
9'
6'
0+10
W=4'
0+23'
830.00 Top 25"X16" CMP
829.26 TOP
828.22 F.L.
Const. Two Outlet Structures Std. 410 (Mod) Pour Monolithic
Const. 5.39' C&G Per Std. 410
Place 2"x4" R-W Hdr. at Edge of new pave.
828.95 T.C. 9½" C.F.
828.16 F.L.
Easement Line
829.28 TOP
℄ ORCHARD ST.
DETAIL OUTLET STRUCTURE
SCALE 1"=4'
STD. DWG. 410-MODIFIED AS SHOWN
F.B. 20-47
J.O. 2620
APPROVED FOR:
Drainage outlet structure on ORCHARD STREET ONLY
Director of Public Works
Date: 9-5-62
APPROVED BY
DATE 5/3/61
PARK & RECREATION DIRECTOR
Park Supt
J.F. DAVIDSON - CIVIL ENGINEER
R.E. 862
RIVERSIDE, CALIFORNIA
Approved J. F. Davidson 7-16-62
RIVERSIDE ENGINEERING CO. INC.
4164 ORANGE ST.
RIVERSIDE, CALIFORNIA
APPROVED
RCE 11957
DATE 3-30-61
REVISIONS
MARK	DATE	DESCRIPTION
☆	8/7/62	Revised grade and alignment and pipe sizes J.F. Davidson, C.E.
CITY OF RIVERSIDE CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
STORM DRAIN
R.S. 581
TRIPLE "C" LAND CORP.
HORZ. SCALE 1"=40'
VERT. SCALE 1"=4'
DESIGNED BY
DRAWN BY CAF
CHECKED BY cm drb CGW
RECOMMENDED BY
ASSISTANT CITY ENGINEER
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE
D-63
SHEET 1 OF 1
INDEXED
PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
B. M.S NOTED
NO.
STRUCTURE NOTAT'NS CH'KD.
BY
DATE
PLAN
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
NO.
RT. OF WAY CHECKED
BY
DATE

2195