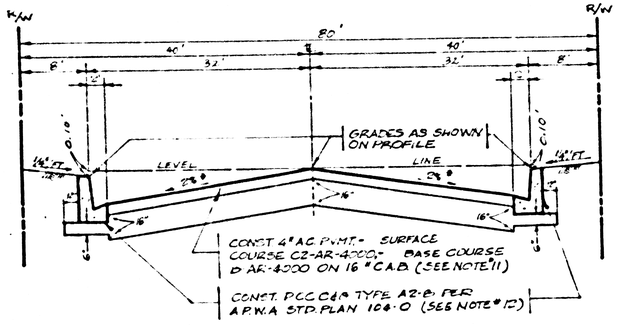
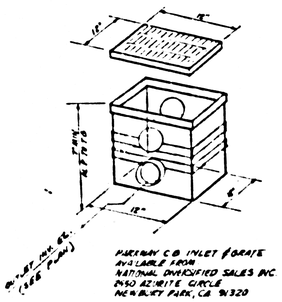
REVIEWED Larry C. Lentzner ROAD SECTION 2-14-88 DATE

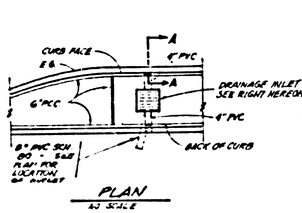
SUBMITTED Carl J. Schoon ASSIST. DEPUTY DIRECTOR — LAND DEVELOPMENT DIVISION 12/14/88 DATE

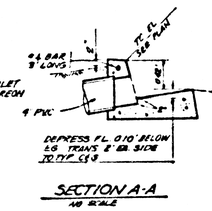
APPROVED BY Richard K. Brophy for Director of Public Works City of Santa Clarita 12/15/88 DATE



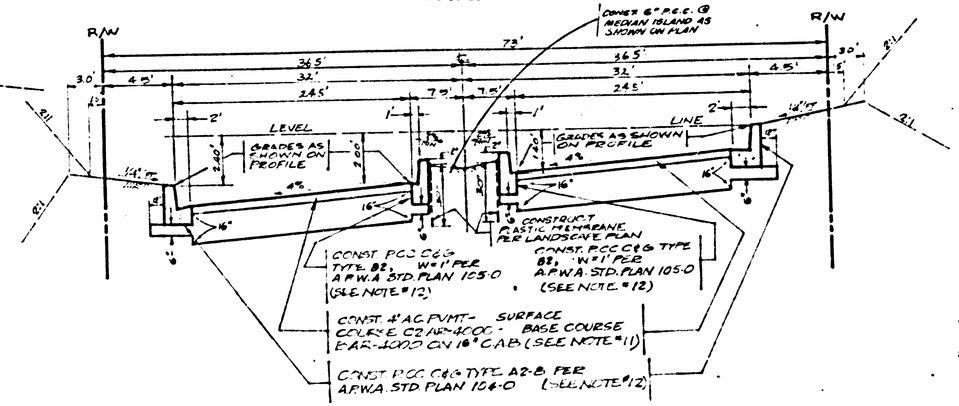
TYPICAL SECTION
DOCKWEILER DRIVE
STA. 4+42.99 TO STA 26+00.00
NO SCALE



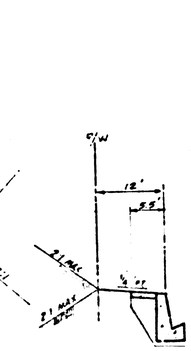




DETAIL 1
NO SCALE

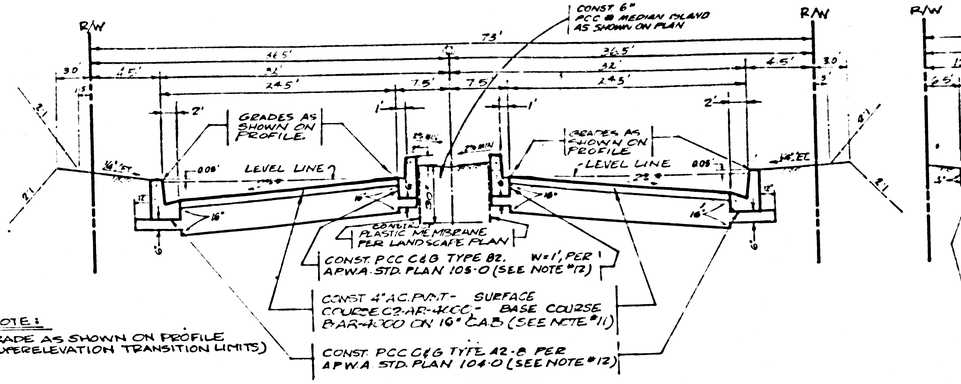


FULL SUPERELEVATION
DOCKWEILER DRIVE
STA 27+14.00 TO STA 28+95.00
NO SCALE

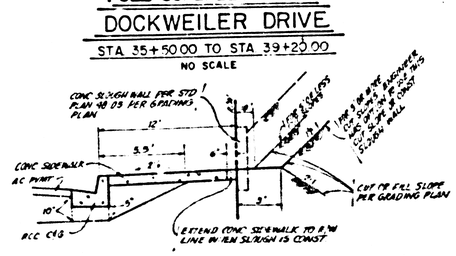


VALLE DEL ORO
TYPICAL SECTION
PARKWAY GRADING
NO SCALE

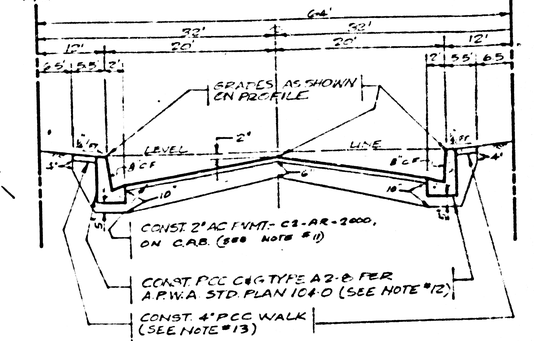
TYPICAL SECTION
DOCKWEILER DRIVE
STA 41+40.00 TO STA. 50+60.00
NO SCALE



FULL SUPERELEVATION
DOCKWEILER DRIVE
STA 35+50.00 TO STA 39+25.00
NO SCALE



TYPICAL PARKWAY SECTION AT CURB RETURN
NO SCALE



TYPICAL SECTION
VALLE DEL ORO
STA 7+30.66 TO STA 28+52.79
NO SCALE

BENCHMARK:
L.A.C.R.D. BM # C.L. 2925
C.S. MON. 2 M. UP 47 FT. S. OL SAN FERNANDO RD. 10 FT. S. OF E'LY END C.B. @ 2 FT. N. CONC. BLOCK WALL @ E. P.L. OF SE # 23737 SAN FERNANDO RD. 4K.D (BM NE-1) 4.5 MI. W/C SIERRA HWY
NEWHALL (1983) ELEV. 1321.132

STANDARD NOTES

1. ALL THE WORK SHALL CONFORM TO THE STD. PLANS & SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS STANDARD PLANS AND STANDARD SPECIAL PROVISIONS FOR CASH CONTRACTS IN EFFECT AS OF THE APPROVAL DATE OF THE IE PLANS.
2. APPLICATION FOR INSPECTION BY THE LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS SHALL BE MADE BY THE CONTRACTOR AT LEAST TWENTY FOUR (24) HOURS BEFORE THE SERVICES THEREOF WILL BE REQUIRED. PHONE NO. (818) 947-8191
3. WORK IN PUBLIC STREETS ONCE BEGUN SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. FAILURE TO COMPLY WITH THIS REQUIREMENT IS A VIOLATION OF TITLE 16 OF THE HIGHWAY PERMIT ORDINANCE.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DISPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH SUBDIVISION CONSTRUCTION.
5. [illegible]
6. CONSTRUCT WALK RETURNS AND TRANSITIONS PER STANDARD PLAN 3291
7. THERE SHALL BE NO ABOVE GROUND OBSTRUCTIONS IN ANY PORTION OF THE SIDEWALK EXCEPT WHERE THE WIDTH EXCLUSIVE OF TOP OF CURB IS 6' OR GREATER.
8. WHERE SIDEWALKS ARE ADJACENT TO CURB, CONSTRUCT COMMERCIAL DRIVEWAYS PER APWA STD. PLAN 101-0. CONSTRUCT DRIVEWAYS PER DIST. "A" ON SHT. 8 FOR ALL OTHER CASES.
9. CONSTRUCT STREET NAME SIGNS PER LOCATIONS AS SHOWN ON THE PLAN PRIOR TO OCCUPANCY OF BUILDINGS. SIGNS SHALL BE PAINTED BROWN WITH WHITE LETTERING PER L.A. CO. PUBLIC WORKS STD. PLANS AND SPECIFICATIONS. SIGNS SHALL BE PAINTED PRIOR TO OCCUPANCY OF BUILDINGS.
10. PAVING & STREET LIGHTING TO BE APPROVED BY THE TRAFFIC AND LIGHTING DIVISION AND PROVIDE FOR THE TEMPORARY OPERATION OF THE STREET LIGHTING SYSTEM.
11. AMOUNT OF BASE WILL BE DETERMINED BY SOIL TEST. SUBDIVIDER'S ENGINEER SHALL REQUEST TEST BY DEPT. OF PUBLIC WORKS AFTER STREETS HAVE BEEN ROUGH GRADED. PLAN MUST BE REVISED TO SHOW ACTUAL BASE TO BE CONSTRUCTED.
12. PROCESSED MISCELLANEOUS BASE MAY USED UNDER CURB AND GUTTER IN LIEU OF CRUSHED AGGREGATE BASE.
13. IN LIEU OF CRUSHED AGGREGATE BASE UNDER WALKS, CONTRACTOR MAY USE PROCESSED MISCELLANEOUS BASE OR SELECT MATERIAL WITH EXPANSION OF 3% OR LESS BY SOIL TEST.
14. PLANT STREET TREES PER LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS, LANDSCAPE DIVISION STD. LS 001 THRU LS 008. SEE TREE LIST ON SHEET 2.
15. PRIOR TO CONSTRUCTION OF DOCKWEILER DRIVE WITHIN CALTRAN RIGHT-OF-WAY, SUBJECT TO INSPECTION AND APPROVAL OF CALTRAN:
    A. PERMIT SHALL BE OBTAINED FROM CALTRAN.
    B. CONSTRUCTION OF DOCKWEILER DRIVE FROM STA. 28+50.00 TO STA. 29+50.00 SHALL NOT COMMENCE UNTIL INSTALL OF 14" W.L.P. AND 8" SEWER SYS. APPROVAL IS THE ADDITIONAL IMPROVEMENT AND COMPLETION OF CONSTRUCTION WORK ALONG S. 1/2 R/W LINE.

IM 234-117
249-117

DEPT. OF WATER & POWER
APPROVED BY
DATE

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVENUE
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE [signature] R.C.E. NO. 23177

EXP 12/31 23177 REGISTERED CIVIL ENGINEER STATE OF CALIFORNIA

REVISIONS

1 REVISED SHT NOS. 6, 9, 10, 11, 13 & 14	2 REVISED SHEET NOS 14 & 6	BE MAINTAINED BY THE CITY OF SANTA CLARITA
	3 REVISED GRADING	2 CONST. A STAND PIPE AT TOP OF "H" PER DET'S NOT TO BE MAINTAINED BY THE CITY OF SANTA "CLARITA"
	4 REVISED LINES & REMOVED INLET STRUCTURES (CDS INLETS NO.1 PER STD. DWG. B-0265 WITH)	
Revised By [signature] R.C.E. No. 23177 Date 5-27-89	Revised By [signature] R.C.E. No. 23177 Date 8/28/90	Revised By [signature] R.C.E. No. 23177 Date 2/22/90
Approved [signature] Date 5-27-89	Approved [signature] Date 8/28/90	Approved [signature] Date 2/22/90

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

TYPICAL SECTIONS
BENCHMARK
STANDARD NOTES

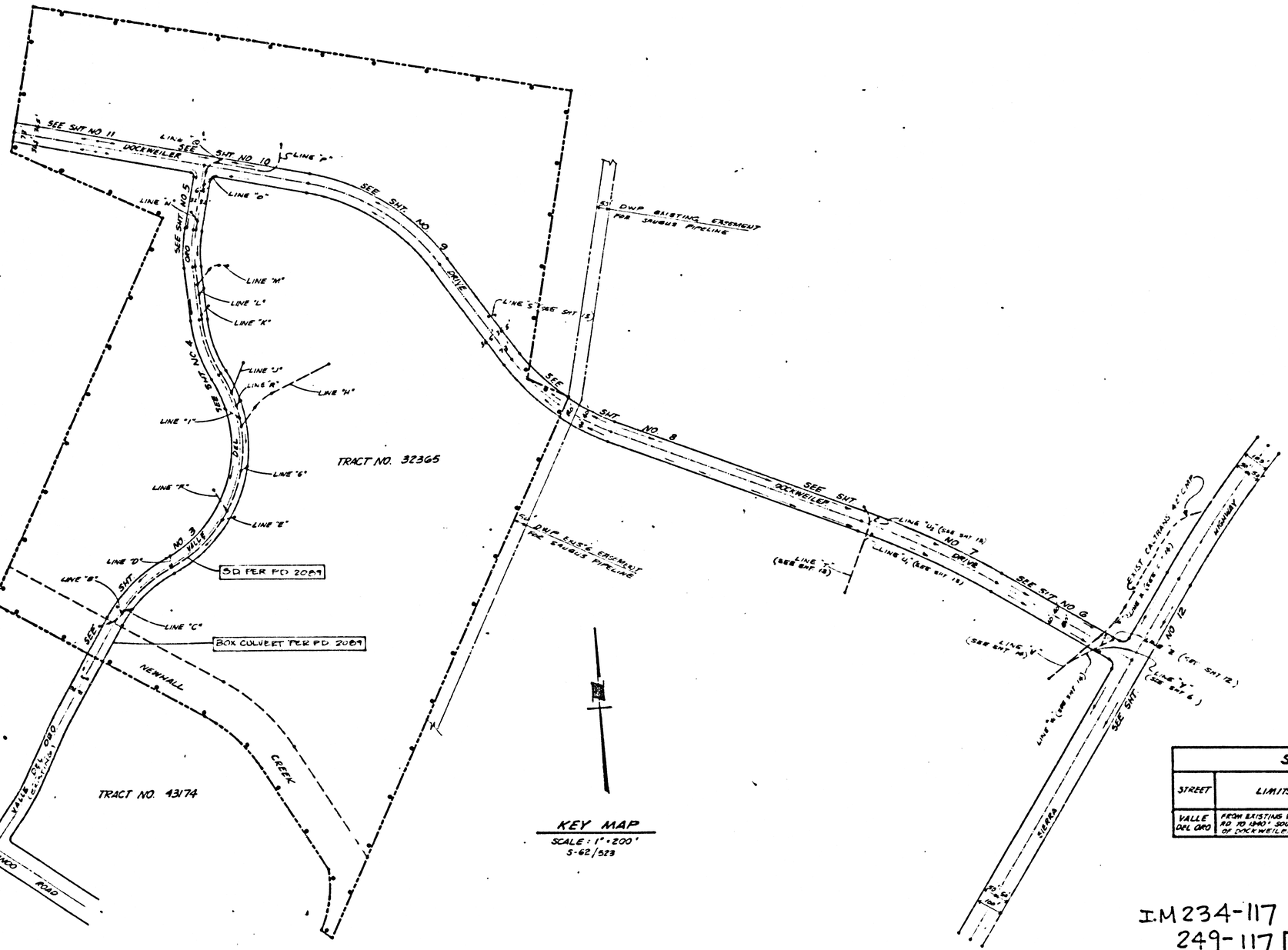
TG NO 127 E-6

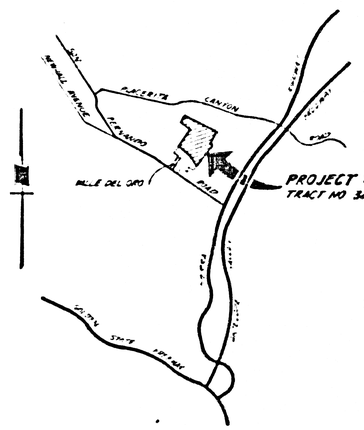
TR. 32365 | SHT 1 of 19 SHTS

FM 21889-1

Form 2/85

REVIEWED [signature] ROAD SECTION 2-16-88 DATE





VICINITY MAP
NOT TO SCALE

STREET TREE LIST			
STREET	LIMITS	NO. OF TREES LEFT / RIGHT	SPECIES BOTANICAL NAME (COMMON NAME)
VALLE DEL ORO	FROM EXISTING VALLE DEL ORO RD TO 1340' SOUTHWESTERLY OF DOCKWEILER DRIVE	28 / 28	LAGER STROEMIA INDICA (WHITE CRAPE MYRTLE)

I.M 234-117
249-117

REGISTERED PROFESSIONAL ENGINEER CARL E. CHAPMAN Ex. 12/89 No 23777 CIVIL STATE OF CALIFORNIA

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVENUE
LOS ANGELES, CA. 90064
PHONE (213) 390-8098
CARL CHAPMAN
SIGNATURE [signature] RE NO 23777

REVISIONS

REVISED BY ___ DATE ___ APPROVED ___ DATE ___	REVISED BY ___ DATE ___ APPROVED ___ DATE ___	REVISED BY ___ DATE ___ APPROVED ___ DATE ___

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

KEY MAP — TC TO 127 E.T.

TR. 32365 | SHT 2 of 19 SHTS

FM 21889-2

LA CO DEPT OF PUBLIC WORKS 2/85

REVIEWED 12-14-88
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

SCALE
HORIZ. 1"=40'
VERT. 1"=8'

CURVE DATA				
NO	Δ	R	L	T
(1)	33° 03' 14"	520.00'	299.99	154.90'
(2)	93° 51' 18"	510.00'	835.42'	545.52
(3)	87° 21' 23"	12.00	18.30'	11.46'

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP. 12/31
No. 23777
STATE OF CALIFORNIA

PLANS PREPARED BY:
CARL CHAPMAN & ASSOC.
2346 COTNER AVE.
LOS ANGELES, CA. 90064
(213) 390-8098
CARL CHAPMAN
R.E. NO. 23777

REVISIONS

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

VALLE DEL ORO
FROM 1600' N LY TO 800' N LY OF SAN FERNANDO ROAD

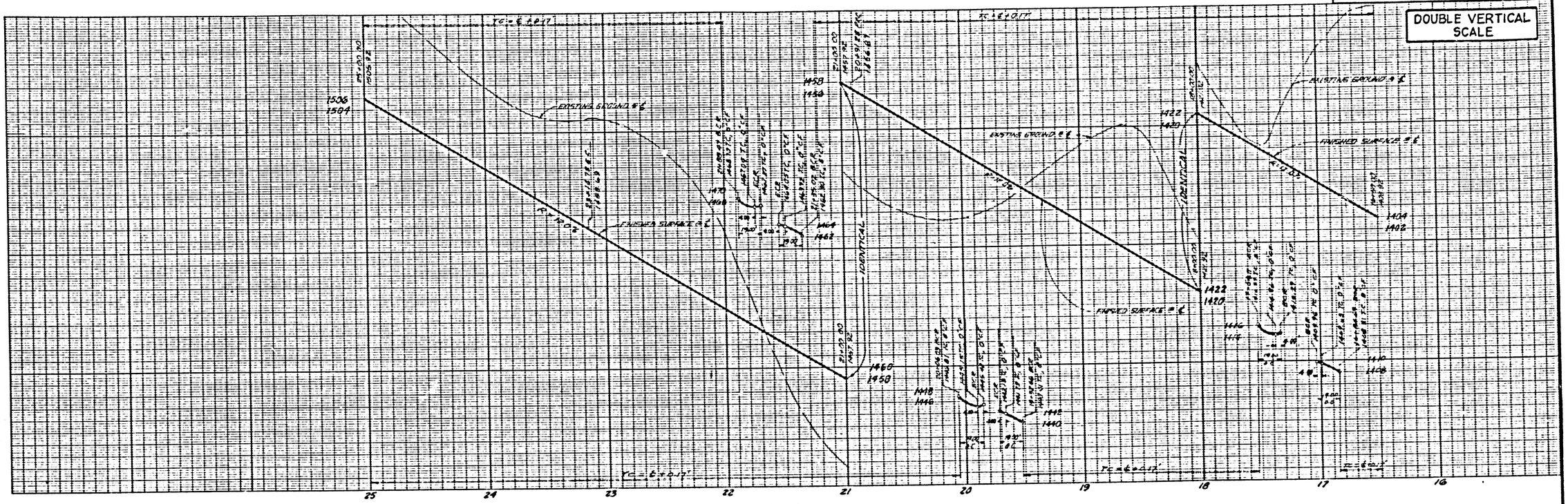
TR. 32365 | SHT 3 of 19 SHTS

FM 21889-3

I.M 234-117
249-117

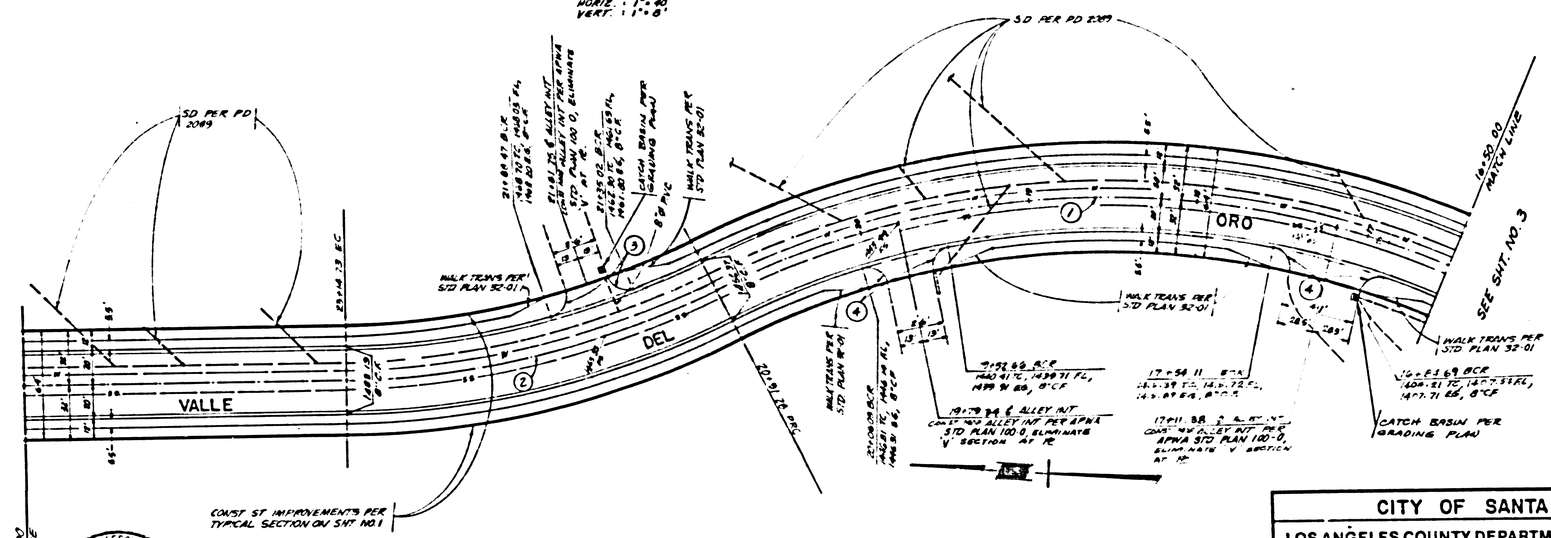
REVIEWED _____ 12-14-88
ROAD SECTION — DATE

DOUBLE VERTICAL SCALE



SCALE
HORIZ. : 1"=40'
VERT. : 1"=8'

CURVE DATA				
NO	Δ	R	L	T
1	93°51'18"	510.00'	835.42'	545.52'
2	25°36'19"	500.00'	223.45'	113.62'
3	90°46'05"	12.00'	19.00'	12.16'
4	90°48'09"	12.00'	19.00'	12.15'



I.M 234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY
SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP 12/89
No. 23777
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
Firm Name CARL CHAPMAN & ASSOC.
Address 2346 COINER AVENUE
LOS ANGELES, CA 90064
Phone (213) 390-8098
Civil Engineer CARL CHAPMAN
Signature _____ R.E. No. 23777

REVISIONS

Withdrawn by _____ Rec. No. _____	Revised By _____ Rec. No. _____	Revised By _____ Rec. No. _____
Approved _____ Date _____	Approved _____ Date _____	Approved _____ Date _____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

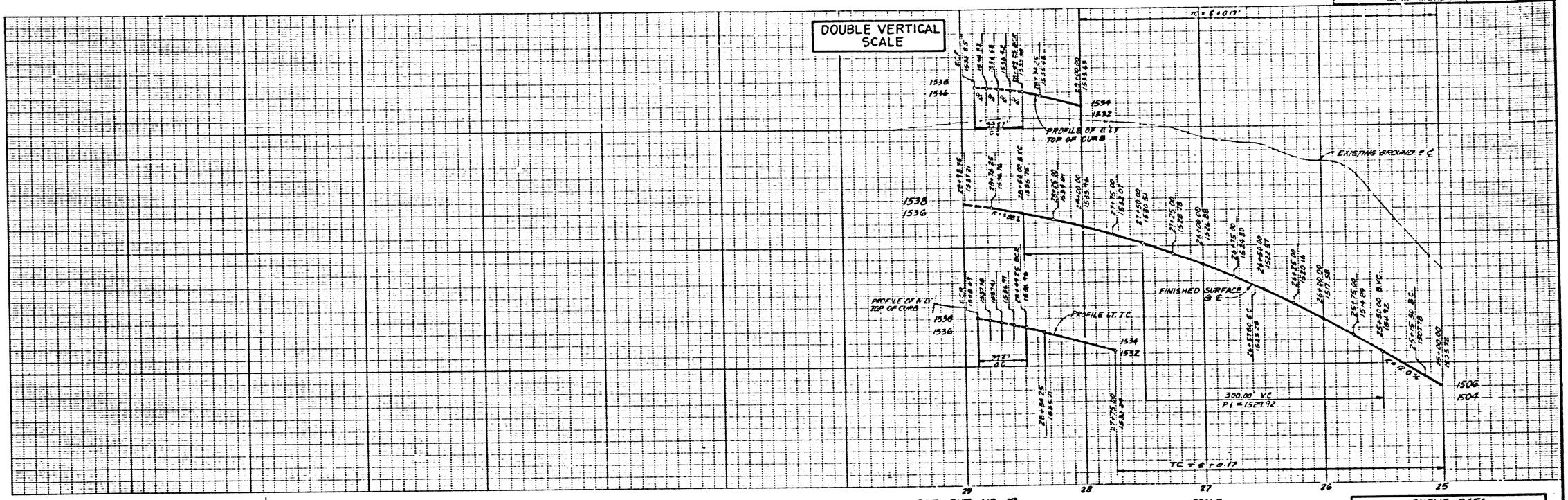
VALLE DEL ORO
FROM 2500' N'LY TO 1600' N'LY OF SAN FERNANDO ROAD

TR. 32365 | SHT 4 of 19 SHTS

FM 21889-4

REVIEWED Henry Stein ROAD SECTION 12-14-88

DOUBLE VERTICAL SCALE

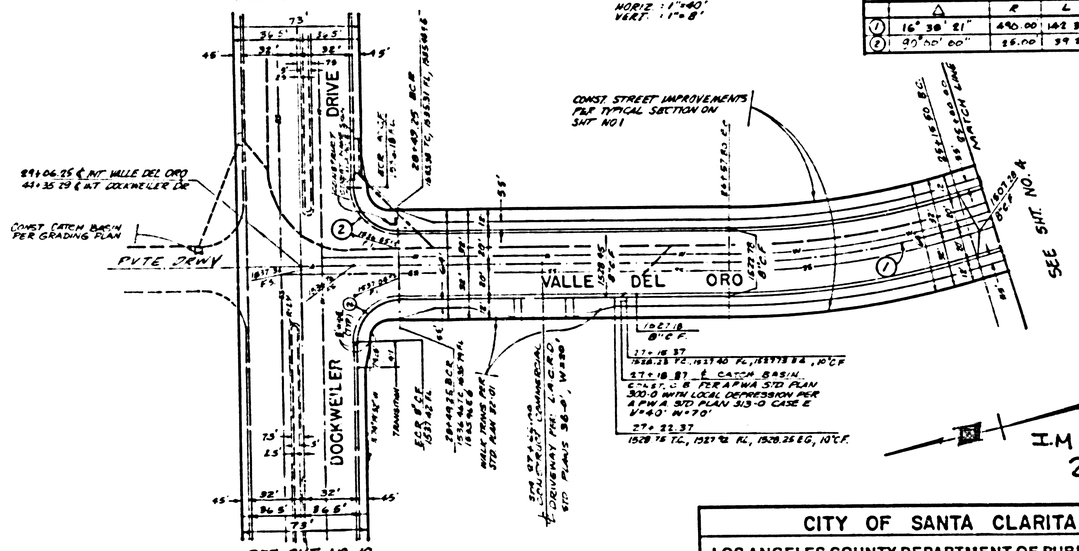


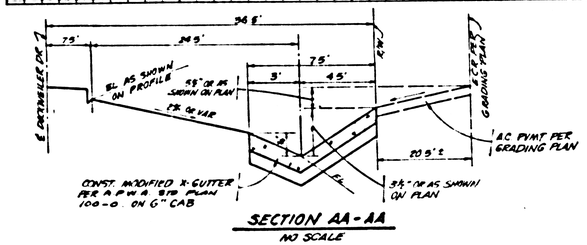
SEE SHT. NO. 10

SCALE
HORIZ 1"=40'
VERT. 1"=8'

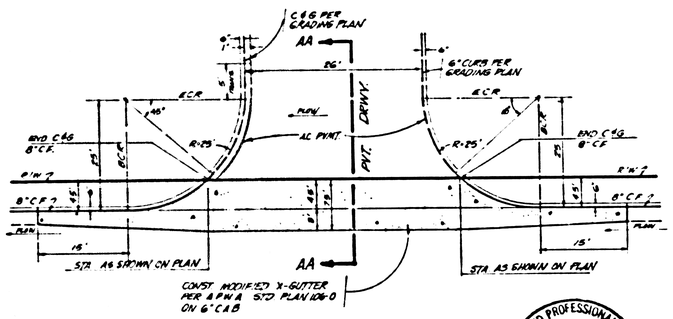
CURVE DATA

	Δ	R	L	T
①	16° 38' 21"	490.00	142.30	71.65
②	90° 00' 00"	25.00	39.27	25.00





SECTION AA-AA
NO SCALE



DETAIL 'A'
MODIFIED STREET INTERSECTION
NO SCALE

I.M 234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP. 12/31/89
No. 23777
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVENUE
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE _____ R.E. NO. 23777

REVISIONS

REVISED BY ____ R.E. No. ____	REVISED BY ____ R.E. No. ____	REVISED BY ____ R.E. No. ____
APPROVED ____ DATE ____	APPROVED ____ DATE ____	APPROVED ____ DATE ____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

VALLE DEL ORO
FROM DOCKWEILER DRIVE TO 2900' N'LY OF SAN FERNANDO ROAD

TR. 32365 | SHT 5 of 19 SHTS

FM 21889-5

L.A. CO DEPT OF PUBLIC WORKS FORM 3 2/85
CAL. P. (213) 899-8440

REVIEWED Thung Seaing 12-14-88
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

F.S. over ℄ S.D.

CONST. INLET NO.1 CASE 1 PER STD DWG. 2-D26S

CONST. 18" RCP PER A PPA STD PLAN 220 W/ CONC. ANCHORS PER A PPA STD PLAN 220

EXISTING GROUND UNDER ± S.D.

CONST. 18"Ø R.C.P. W/ 3/4" RCP ₡ 400 D PROVIDE W/ ADDITIONAL CONC. COVER OVER PIPE INVERT

LINE X
SCALE: HORIZ. 1"=20'
VERT. 1"=4'
(SEE PLAN VIEW ON SHT. 14)

LINE Y
SCALE: HORIZ. 1"=20'
VERT. 1"=4'
(SEE PLAN VIEW ON SHT. 14)

CONST. 30"Ø L.R. 24" RCP (400 D)

SCALE
HORIZ. 1"=40'
VERT. 1"=8'

See Sht. No. 12

SEE SHT. NO. 7

DOCKWEILER DRIVE

SIERRA HIGHWAY

3+65.99 ℄ INT. DOCKWEILER DR. = 4+50.00 ℄ INT. SIERRA HIGHWAY

CONST. ST. IMPROVEMENTS PER TYPICAL SECTION ON SHT. NO. 1

30" RCP SEE SHT. NO. 14

42" RCP SEE SHT. NO. 14

See Sht. No. 12

CURVE DATA

NO	Δ	R	L	T
(1)	10° 34' 46"	3000.00'	553.94'	277.76'
(2)	90° 00' 00"	35.00'	54.98'	35.00'

WELD #6 BARS 6" C.T.C. BOTHWAYS

EDGES OF OPENING TO BE TRIMMED SMOOTH WITH REBARS

3/8" x 8" x 36" STEEL PLATE WELD TO EDGE OF OPENING

WELD HEAVY DUTY NASP TO REBARS

STANDPIPE COVER
NO SCALE

C.S.P. WALL

2-4"x3"x5/16"x 30" LONG STEEL ANGLES WITH 4" LEG AGAINST STANDPIPE

5/8" x 5" HEX HEAD BOLTS 3 PLACES / ANCHORAGE WITH FLAT WASHERS, LOCK WASHERS AND HEX HEAD NUTS

6"x6"x5/16"x4" WIDE STEEL ANGLE

1" x 10" ANCHOR BOLT (TO BE DRILLED AND PLACE AFTER STANDPIPE IS LOCATED). 10 TOTAL, EQUALLY SPACED

8" EMBEDMENT

DETAIL "B" NO SCALE
STANDPIPE REINFORCEMENT AND ANCHORAGE

J.M234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP. 12/31
No. 23777
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVE.
LOS ANGELES, CA. 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE _____ R.E. No. 23777

REVISIONS
△ REVISED C.B. FOR LINE "Y" PER CALTRANS REQUIREMENTS. (1/17/89)
REVISED BY _____ R.E. No. 23777
APPROVED _____ DATE 2-22-89
△ REMOVE INLET STRUCTURE & CONST. INLET NO.1 CASE 1 PER STD. DWG 2-D26S (2/2/90)
REVISED BY _____ R.E. No. 23777
APPROVED _____ DATE 2/28/90
REVISED BY _____ R.E. No. _____
APPROVED _____ DATE _____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
FROM SIERRA HIGHWAY TO 700' W'LY OF SIERRA HIGHWAY

TR. 32365 | T.G. PG. 127 E-4 | SHT 6 OF 19 SHTS

FM 21889-6

LA CO DEPT OF PUBLIC WORKS #2 2/85
G.M. # (213) 888-9440

REVIEWED 12-14-88
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

EX. GROUND @ N'LY R/W
EX. GROUND @ S'LY R/W
EX. GROUND @ ℄
PROFILE OF N'LY TOP OF CURB
PROFILE OF S'LY TOP OF CURB
FINISHED SURFACE @ ℄
EX. GROUND @ N2.Y R/W
EX. GROUND @ S'LY R/W
PROFILE OF N'LY TOP OF CURB
PROFILE OF S'LY TOP OF CURB
FINISHED SURFACE @ ℄
EX. GROUND @ N'LY R/W
EX. GROUND @ S'LY R/W
EX. GROUND @ ℄

REVIEWED 12-14-88
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

SUPER ELEVATION TRANSITION | FULL SUPERELEVATION | SUPER ELEVATION TRANSITION

PROFILE OF W'LY R/W OF CURB

EX. GROUND W'LY R/W

EX. GROUND N'LY R/W

700.00' V.C. P.I. = 1585.18

FINISHED SURFACE @ ℄

EXISTING GROUND EL. @ ℄

PROFILE OF S'LY R/W OF CURB

PART OF 600.00' V.C. L_2 = 275.00 A_3 = 7886.93

A_2 = -3.88%, R_2 = 0.70%

DWP SAUGUS PIPELINE PROP. CONC. ENCASEMENT

EX. GROUND @ S'LY R/W

SEE NOTE NO. 14 RETAINING WALLS

R_1 = 2.92%

R_3 = 2.12%

150.00' V.C. P.I. = 1891.06

SUPER ELEVATION TRANSITION

FULL SUPERELEVATION

SUPER ELEVATION TRANSITION

TYP.

30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20

SCALE
HORIZ. : 1"=40'
VERT. : 1"=8'

CURVE DATA				
NO	Δ	R	L	T
(1)	87°27'31"	25.00'	38.16'	23.92'
(2)	34°26'02"	25.00'	15.03'	
(3)	89°31'39"	300.00'	466.13'	240.98'
(4)	6°17'45"	25.00'	2.75'	

SEE SHT. NO. 9

DWP SAUGUS PIPELINE

EXIST'G. SAUGUS PIPELINE

1584.54 8"C.F.

1585.54 8"C.F.

DOCKWEILER DRIVE

CONST. ST. IMPROVEMENTS PER TYPICAL SECTION ON SHT. NO. 1

SEE SHT. NO. 7

I.M 234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP. 12/89
No. 23777
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
Firm Name CARL CHAPMAN & ASSOC.
Address 2346 COTNER AVE.
LOS ANGELES, CA. 90064
Phone (213) 390-8098
Civil Engineer CARL CHAPMAN
Signature _____ R.E. No. 23777

REVISIONS

Revised By	R.E. No.	Date	Approved

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
FROM 2700' W'LY TO 1700' OF SIERRA HIGHWAY

T.G. pg. 127 E-4

TR. 32365 | SHT 8 of 19 SHTS

FM-21889-8

REVIEWED Henry Ewing 12-18-98
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

SUPERELEVATION TRANSITION | TYPICAL | SUPERELEVATION TRANSITION

FULL SUPERELEVATION

PROFILE OF RT. F.C.

PROFILE OF RT. F.C.

GRADE LINE 7.5' RT.

GRADE LINE 7.5' LT.

GRADE LINE RT. F.C.

EXISTING GROUND AT ℄

PROFILE OF ℄

PROFILE OF LT. F.C.

Grade Line RT.F.C.

180.00' V.C.
P.I. ± 1552.20

100.00' V.C.

IDENTICAL

SUPERELEVATION TRANSITION

SCALE
HORIZ. : 1"=40'
VERT. : 1"= 8'

CONST. ST. IMPROVEMENTS PER TYPICAL SECTION ON SHT. NO 1

DOCKWEILER DRIVE

N 33°53'40"W 255.21'

N 37°42'44"W 351.05'

VARIABLE WIDTH AIRSPACE EASEMENT

98+25.00 ℄ C.B.
CONST. PARKWAY C.B. PER DETAIL I ON SHT. NO. 1 - INV. EL. 1548.00 TO EL. 1544.50

CONST. 6" P.C.C.

OUTLET EL. 1540.85

99+80.00

99+80.66 B.C.R.
1541.44 I.E., 1540.71 I.E., 1540.94 I.E.

39+95.85
1541.85 I.E., R

OUTLET STRUCTURE SEE DETAIL ON SHT 10

31+30.00
1567.48 T.C., 1566.75 F.L.
1566.93 B.C., 10" C.F.

RAMP PER APWA STD. PLAN 403-2

CONSTRUCT WALK PER APWA STD. PLAN 400-2

CONST 6" P.C.C.

P.C.C. C&G TRANSITION FROM BE TO B3

SEE SHT. NO. 8

SECTION A-A
NO SCALE

NOTE:
** CONSTRUCT P.C.C. C & G TYPE B3 PER APWA STD. PLAN 105-0

CURVE DATA				
NO	Δ	R	L	T
(1)	49°06'09"	800.00'	601.82'	316.96'
(2)	87°17'51"	25.00'	38.16'	23.92'
(3)	34°26'02"	25.00'	15.03'	7.75'
(4)	90°00'00"	25.00'	39.27'	25.00'
(5)	35°47'47"	25.00'	15.47'	7.99'
(6)	92°58'44"	25.00'	40.65'	26.51'
(7)	34°29'55"	25.00'	15.24'	7.86'
(8)	34°27'12"	25.00'	10.63'	
(9)	21°37'40"	25.00'	9.58'	
(10)	10°16'37"	25.00'	4.55'	

IM234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
No. 23777
EXP. 12/89
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVENUE
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE _____ R.E. NO. 23777

REVISIONS
1 REVISED RETAINING WALL AND OUTLET STRUCTURE PER CALTRANS REQUIREMENT. (1/19/89)
REVISED BY _____ R.E. No. 23777
APPROVED _____ DATE 2-22-89
REVISED BY _____ R.E. No. _____
APPROVED _____ DATE _____
REVISED BY _____ R.E. No. _____
APPROVED _____ DATE _____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

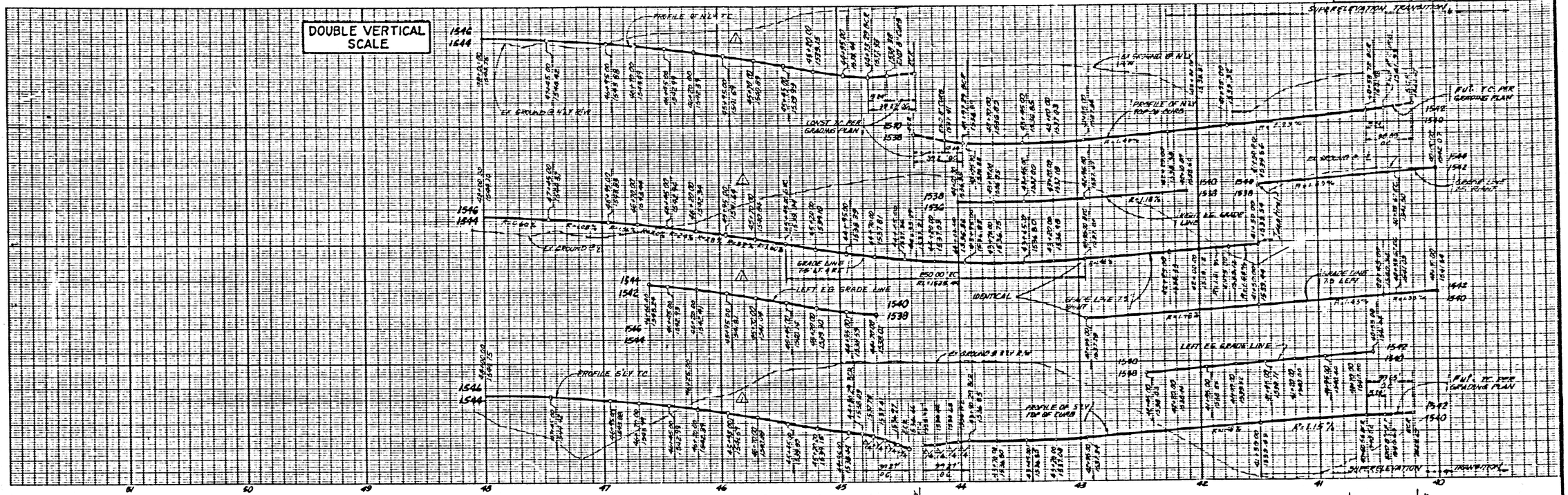
DOCKWEILER DRIVE
FROM 3700' W'LY TO 2700' W'LY OF SIERRA HIGHWAY

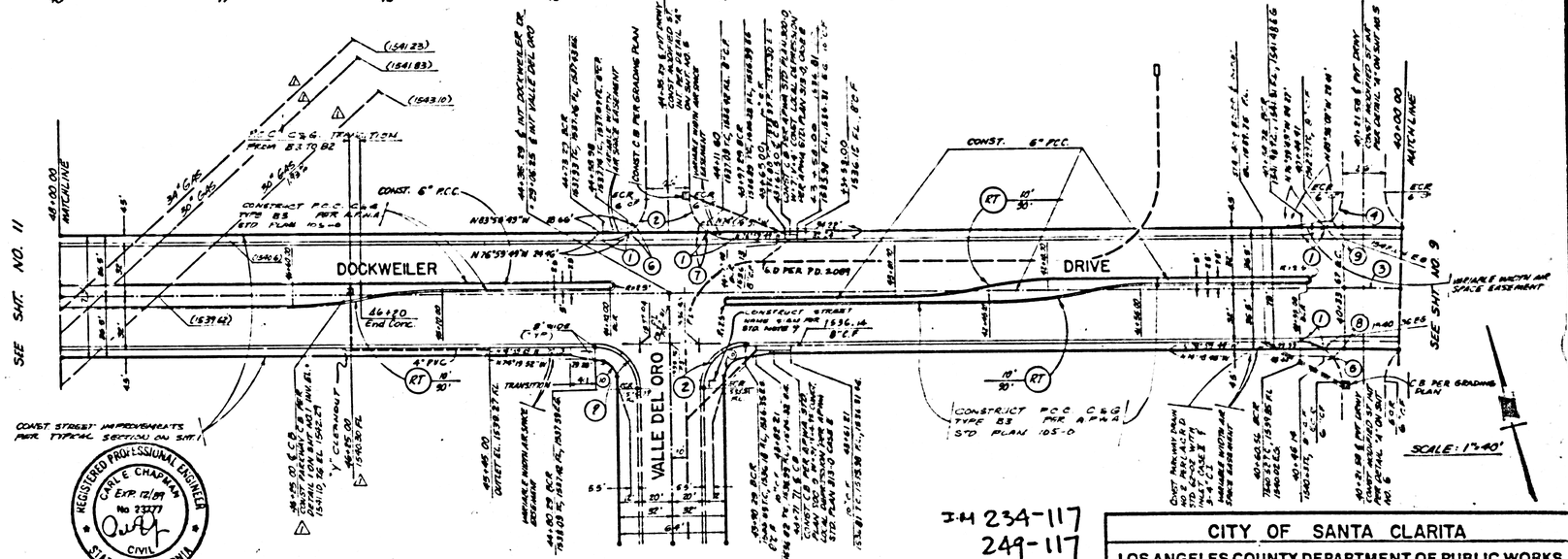
TR. 32365 | SHT 9 of 19 SHTS

FM 21889-9

REVIEWED Larry Strain 12-14-88
ROAD SECTION DATE

DOUBLE VERTICAL SCALE





CURVE DATA				
NO	Δ	R	L	T
(1)	34°58'55"	25.00'	15.24'	7.86'
(2)	90°00'00"	25.00'	39.27'	25.00'
(3)	43°06'09"	800.00'	601.82'	315.96'
(4)	89°08'03"	25.00'	38.89'	24.63'
(5)	90°51'57"	25.00'	39.65'	25.35'
(6)	12°07'57"	25.00'	5.29'	
(7)	15°11'17"	25.00'	6.62'	
(8)	15°37'10"	25.00'	6.81'	
(9)	12°02'17"	25.00'	5.25'	
(10)	90°00'00"	13.00'	20.42	13.00'

REGISTERED PROFESSIONAL ENGINEER
CARL E CHAPMAN
EXP. 12/89
No 23777
CIVIL
STATE OF CALIFORNIA

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR LA CO DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

LA CO DEPT OF PUBLIC WORKS 49 REV. 2/88
G.M. # (213) 000-0440

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC
ADDRESS 2346 COTNER AVE
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE _____ R.E. NO. 23777

REVISIONS

1) REVISED PROFILES FROM STA 45+20 TO 46+00, ADDED EX. GAS LINES AND REVISED ELEV ON PLAN FOR MEDIAN CB
REVISED BY _____ R.E. No. 23777
APPROVED _____ DATE 2.22.89

REVISED BY _____ R.E. No. _____
APPROVED _____ DATE _____

REVISED BY _____ R.E. No. _____
APPROVED _____ DATE _____

I-M 234-117
249-117

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
FROM 400' E'LY TO 500' W'LY OF VALLE DEL ORO

TR. 32365 | SHT 10 OF 19 SHTS

FM 21889-10

REVIEWED ROAD SECTION 7-16-88

DOUBLE VERTICAL SCALE

FUTURE PROFILE OF N'LY T.C.

Existing Ground @ N'ly R/W

FUTURE GRADE LINE 75' RIGHT & LEFT

R=2.0%

Existing Ground @ Centerline

FUTURE PROFILE OF S'LY T.C.

Existing Ground @ S'ly R/W

CONST T.C. PER GRADING PLAN

PROFILE OF N'LY T.C.

R=1.08%

R=.96%

R=2.5%

R=2.5%

R=.04%

LEFT E.G. GRADE LINE

PROFILE OF S'LY T.C.

EXTENT OF FUTURE E.G. TO CONSTRUCT ROAD EXTENSION

DOCKWEILER DRIVE

FUTURE STREET IMPROVEMENTS

CONST STREET IMPROVEMENTS PER TYPICAL SECTION ON SHT NO 1

SCALE HORIZ 1"=40' VERT 1"=8'

SEE SHT. NO. 10

CURVE DATA				
NO	Δ	R	L	T
(1)	34°54'55"	25.00'	15.24'	7.86'
(2)	90°00'00"	25.00'	39.27'	25.00'
(3)	15°14'51"	25.00'	6.65'	

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

PLANS PREPARED BY:
CARL CHAPMAN & ASSOC.
2346 COTNER AVE.
LOS ANGELES, CA. 90064
(213) 390-8098
CARL CHAPMAN
R.C.E. No. 23777

REVISIONS
REVISED GRADES FROM 45A 40.0 TO 55A 40.0 NEED EX. GAS LINES ON PLAN. REVISED ELEV ON TEAM PER REVISED PROFILE
REVISED BY [signature] R.C. No. 23777 DATE 2-22-89
APPROVED [signature]

REVISED BY _____ R.C. No. _____ DATE _____ APPROVED _____
REVISED BY _____ R.C. No. _____ DATE _____ APPROVED _____

REGISTERED PROFESSIONAL ENGINEER EXP 12/89 No. 23777 CIVIL STATE OF CALIFORNIA

I.M 234-117
249-117

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
FROM 300' E'LY TO 700' E'LY OF VALLE DEL ORO

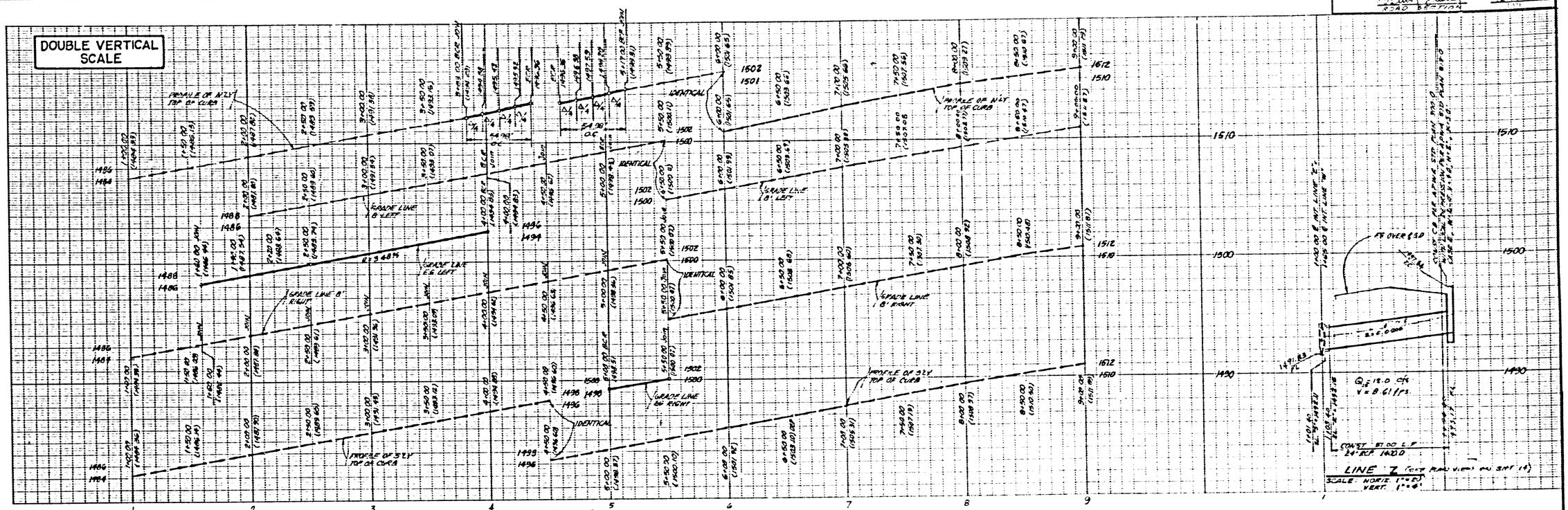
TR. 32365

SHT 11 OF 19 SHTS

FM 21889-11

REVIEWED [signature] 12-14-88
ROAD SECTION

DOUBLE VERTICAL SCALE



CURVE DATA

NO	Δ	R	L	T
(1)	90°00'00"	35.00'	54.98	35.00'
(2)				

SECTION B-B
NO SCALE

J.M 234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

PLANS PREPARED BY:
CARL CHAPMAN & ASSOC.
2346 COTNER AVENUE
LOS ANGELES, CA. 90064
(213) 390-6098
CARL CHAPMAN
R.C.E. No. 23777

REVISIONS

Revised By / Approved	R.E. No. / Date

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

SIERRA HIGHWAY
INTERSECTION OF DOCKWEILER DRIVE AND SIERRA HIGHWAY
T.I.S. PA 1976

TR. 32365 | SHT 12 OF 19 SHTS

FM21889-12

REVIEWED [illegible] 12-16-86
ROAD SECTION DATE

DOUBLE VERTICAL SCALE

LINE T
SCALE: HORIZ 1"=40'
VERT. 1"=8'

LINE U1
SCALE: HORIZ 1"=40'
VERT. 1"=8'

LINE U2
SCALE: HORIZ 1"=40'
VERT. 1"=4'

LINE S
SCALE: HORIZ 1"=20'
VERT. 1"=4'
(SEE PLAN VIEW ON SHT. 9)

DOCKWEILER DRIVE

1000 CY DEBRIS POTENTIAL

CONSTRUCT DOUBLE DRIVE GATE AND FENCING PER A.P.W.A. STD. PLAN 600-C

CONSTRUCT 3" AC PAVEMENT TYPE II CN 6" CAB

RIPRAP

SUBDRAIN PER GRADING PLAN

CONC BENCHES & DRAIN PER GRADING PLAN (TYP)

CONST STYLING BASIN PER DETAIL ON SHT. NO. 15

CURVE DATA				
NO	Δ	R	L	T
(C)	63° 09' 23"	90'	99.10	55.25
(2)	28° 38' 52"	90'	45.00	—
(3)	34° 46' 31"	90'	54.10	—

WINGWALL DETAIL
NO SCALE

SECTION A-A
NO SCALE

PLAN
NO SCALE

OUTLET STRUCTURE DET. FOR LINE 'S'
NO SCALE

I.M 234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVE.
LOS ANGELES, CA. 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL E. CHAPMAN
REGISTRATION NO. 23777

REVISIONS
REVISED LINE S PER CALTRANS REQUIREMENTS
REVISED BY [signature] RE. No. 23777
APPROVED [signature] DATE 2-22-89

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
STORM DRAIN PLAN & PROFILE

TR. 32365 | SHT 13 of 19 SHTS

FM 21889-13

REVIEWED [signature] 2-16-88

DOUBLE VERTICAL SCALE

LINE 'V'
SCALE: HORIZ. 1"=40'
VERT. 1"=8'

LINE 'W'
SCALE: HORIZ. 1"=20'
VERT. 1"=4'

DOCKWEILER DRIVE

SIERRA HIGHWAY

Debris Potential = 1355 C.Y.

SCALE: 1"=40'

DETAIL 'A'
BOTTOM STANDPIPE INLETS
NO SCALE

DETAIL 'C'
NO SCALE

CURVE DATA				
NO	Δ	R	L	T
①	23° 01' 26"	400.00	159.79	70.02
②	9° 08' 00"	400.00	63.00	—
③	10° 59' 26"	400.00	76.73	—

EXP 12/89

STATE OF CALIFORNIA

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR LA CO DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC
ADDRESS 2346 COTNER AV.
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGR CARL CHAPMAN
SIGNATURE [signature] RE NO. 23777

REVISIONS
1. REVISED C.B. FOR LINE 'V' PER CALTRAN REQUIREMENTS 1/17/89 — REVISED BY [signature] RE. NO. 23777 APPROVED [signature] DATE 2-22-89
2. REVISED LINE 'A' AND INLET STRUCTURE AND CONST. INLET NO.1 PER STD DWG 2-024 NOT TO BE MAINTAINED BY THE CITY OF SANTA CLARITA (2-2-90) — REVISED BY [signature] RE. NO. 23777 APPROVED [signature] DATE 2-2-90
3. CONST A STANDPIPE AT TOP OF THE MH PER DET 'C' NOT TO BE MAINTAINED BY THE CITY OF SANTA CLARITA. REVISED GRADING (2-2-90) — REVISED BY [signature] RE. NO. 23777 APPROVED [signature] DATE 2-2-90

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE
STORM DRAIN PLAN & PROFILE

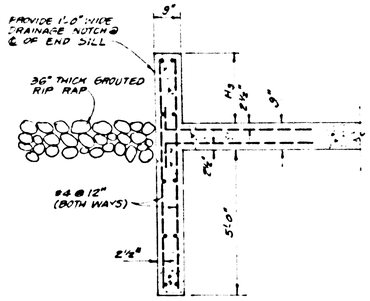
TR. 32365 | SHT 14 of 19 SHTS

I.M234-117
249-117

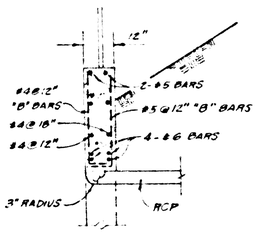
FM 21889-14

L.A. CO DEPT OF PUBLIC WORKS #8 2/85
G.M. Jr (213) 888-8480

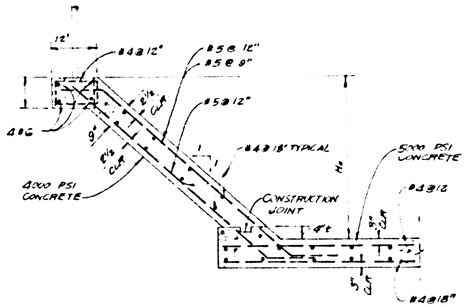
REVIEWED
[signature] 2-14-89
ROAD SECTION DATE



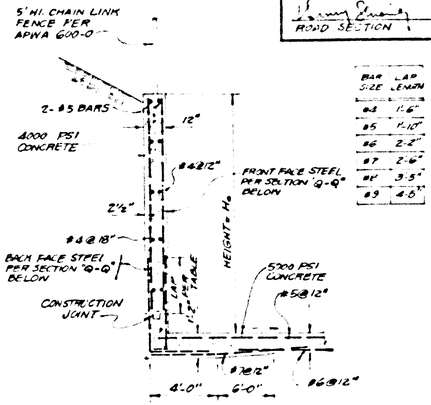
CUTOFF WALL DETAIL
NO SCALE



PARAPET DETAIL
NO SCALE

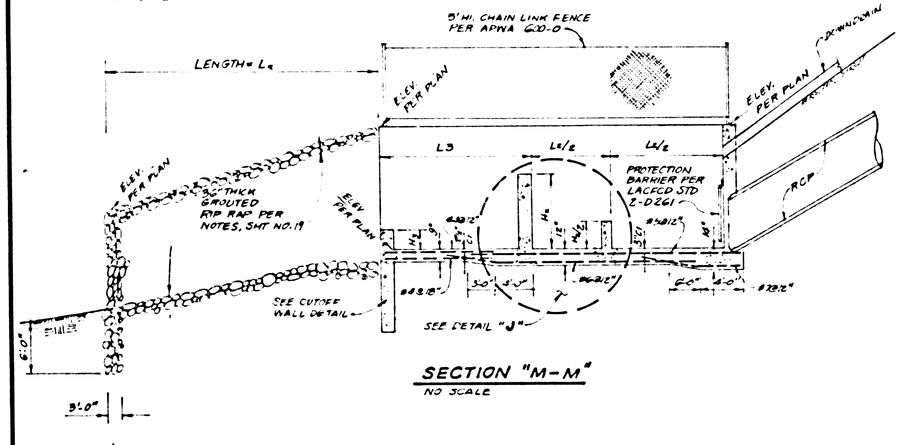


SECTION "N-N"
NO SCALE

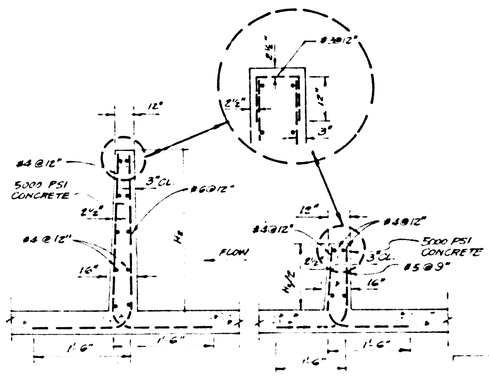


BAR SIZE	LAP LENGTH
#3	1'-6"
#5	1'-10"
#6	2'-2"
#7	2'-6"
#8	3'-5"
#9	4'-6"

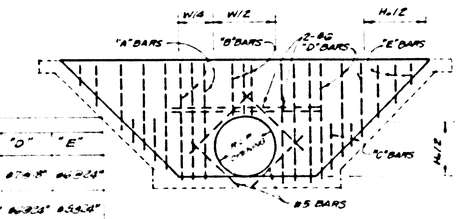
SECTION "P-P"
NO SCALE



SECTION "M-M"
NO SCALE

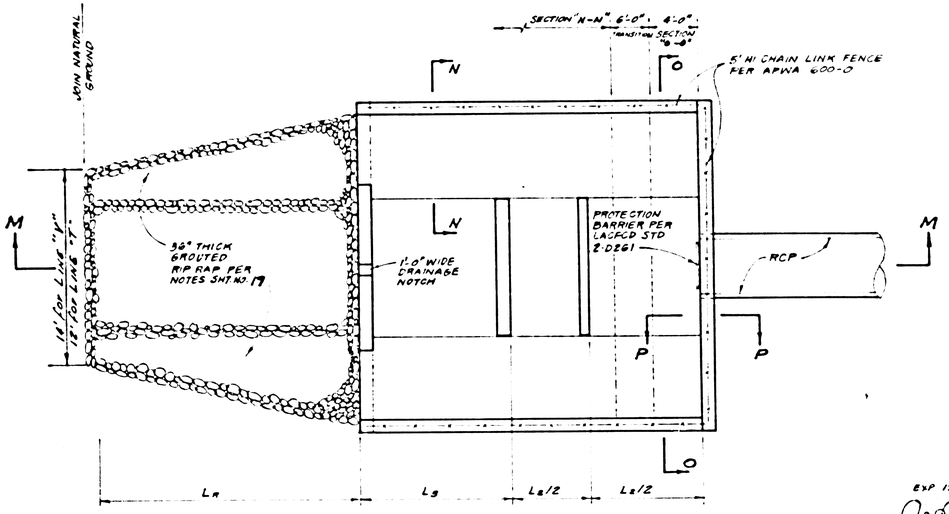


DETAIL "J"
NO SCALE

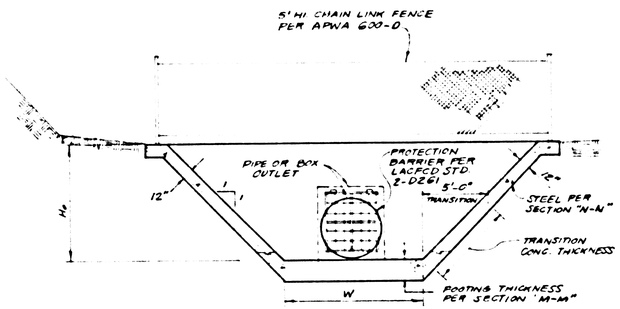


	BARS				
	"A"	"B"	"C"	"D"	"E"
BACK FACE	8'-6"	#4 @ 12"	8'-8"	8'-4"	#4 @ 24"
FRONT FACE	8'-6"	#3 @ 12"	8'-2"	8'-2"	#3 @ 24"

SECTION "Q-Q"



PLAN
NO SCALE



SECTION "O-O"
NO SCALE

LINE NO.	PIPE OR BOX SIZE	W (FT.)	H_6 (FT.)	H_5 (FT.)	H_4 (FT.)	L_2 (FT.)	L_3 (FT.)	L_6 (FT.)
V	48" PIPE	8'-0"	10'-6"	4'-0"	1'-0"	28'-0"	25'-0"	15'-0"
T	36" PIPE	6'-0"	7'-6"	3'-4"	0'-8"	11'-6"	16'-6"	10'-0"

NOTES:

1. CEMENT SHALL CONFORM WITH ASTM C150
2. WATER SHALL BE CLEAN, FRESH AND SUITABLE FOR DOMESTIC USE
3. THE CONCRETE MUST ACHIEVE A MINIMUM STRENGTH AS SPECIFIED IN PLAN IN 28 DAYS. CONCRETE SHALL BE MACHINE MIXED.
4. STEEL BARS SHALL CONFORM TO ASTM A615 AND BE GRADE 40.
5. TIE WIRE SHALL BE 16 GAUGE, BLACK ANNEALED CONFORMING TO ASTM A82
6. ALL EXCAVATION FOR FOOTINGS SHALL HAVE FIRM LEVEL BOTTOMS IN UNDISTURBED NATURAL SOIL OR APPROVED COMPACTED FILL.
7. FILL MATERIALS SHALL BE FREE FROM DEBRIS, VEGETATION AND OTHER FOREIGN SUBSTANCES.

EXP 12/89

IM234-117
249-117

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOCIATES
ADDRESS 3415 S. SEPULVEDA BL. STE. 1120
LOS ANGELES, CA 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE [signature] R.E. NO 23777

REVISIONS

REVISED BY ____ R.E. NO ____	REVISED BY ____ R.E. NO ____	REVISED BY ____ R.E. NO ____
APPROVED ____ DATE ____	APPROVED ____ DATE ____	APPROVED ____ DATE ____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

STILLING BASIN
TYPICAL STRUCTURE DRAINAGE DETAIL

TR. 32365

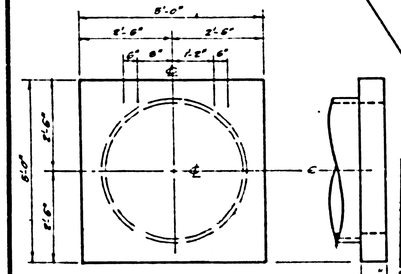
SHT 15 OF 19 SHTS

FM 21889-15

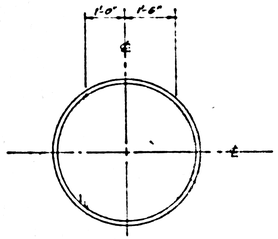
GMI (213) 999-6440 P.O. SHEET NO. 3 DATE 6-85

PARCEL 5

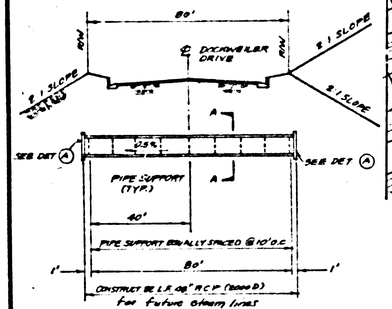
REVIEWED [signature] 12-14-88



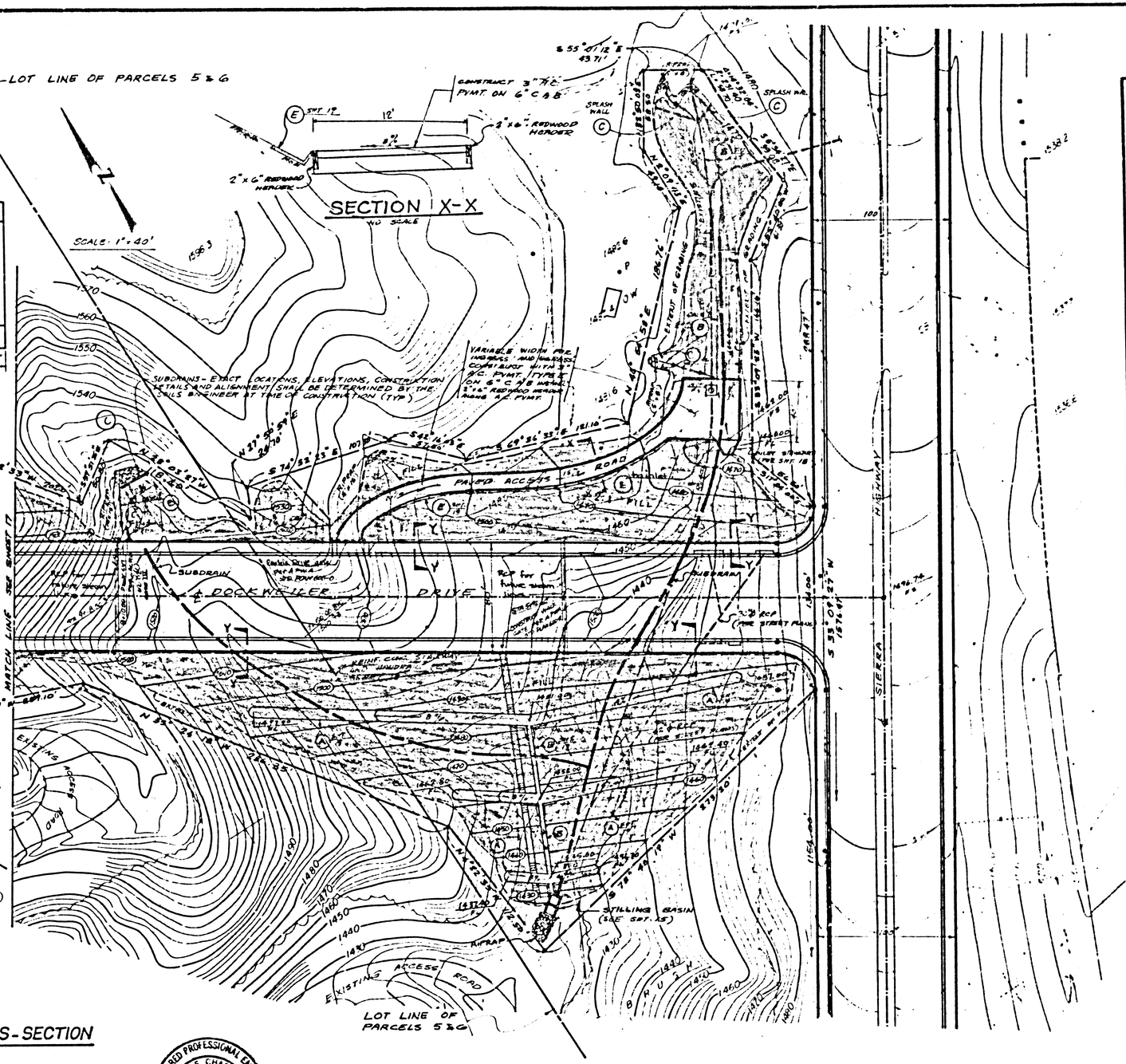
DETAIL "A"
(NO SCALE)



SECTION A-A
(NO SCALE)



TYPICAL LONGITUDINAL CROSS-SECTION
(NO SCALE)


LOT LINE OF PARCELS 5 & 6
CONSTRUCT 3" A.C. PVMT. ON 6" C.A.B.
2"x6" REDWOOD HEADER
SECTION X-X
NO SCALE
SCALE: 1"=40'
SUBDRAINS - EXACT LOCATIONS, ELEVATIONS, CONSTRUCTION DETAILS AND ALIGNMENT SHALL BE DETERMINED BY THE SOILS ENGINEER AT THE TIME OF CONSTRUCTION (TYP.)
VARIABLE WIDTH P.C. INGRESS AND EGRESS CONFLUENCE WITH 3" A.C. PVMT. (TYP.) ON 6" C.A.B. WITH 2"x6" REDWOOD HEADER AT P.C. PVMT.
PAVED ACCESS ROAD
DOCKWEILER DRIVE
SUBDRAIN
EXISTING ACCESS ROAD
LOT LINE OF PARCELS 5 & 6
STILLING BASIN (SEE SDT. 15)
RIPRAP
SPLASH WALL
SPLASH WALL
EXTENT OF GRADING
SIERRA HIGHWAY
N 55°07'12" E 43.71'
S 55°07'12" W 154.00'
N 34°52'48" W 107.00'
S 34°52'48" E 107.00'
N 34°52'48" W 107.00'
N 68°33'59" W 881.10'
N 68°33'59" W 881.10'
N 34°52'48" W 1154.00'
N 34°52'48" W 1154.00'
S 34°52'48" E 1154.00'
S 34°52'48" E 1154.00'
N 34°52'48" W 1154.00'
N 34°52'48" W

APPROVED [signature] 12-14-88
DATE

LOT LINE OF PARCELS 2 & 3

SUBDRAINS - EXACT LOCATIONS, ELEVATIONS, CONSTRUCTION DETAILS AND ALIGNMENT SHALL BE DETERMINED BY THE SOILS ENGINEER AT TIME OF CONSTRUCTION (TYP.)

PARCEL 2

PARCEL 3

LOT LINE OF PARCELS 3 & 5

PARCEL 5

PARCEL 4

EXISTING OIL WELL ACCESS ROAD

EXISTING OIL WELL

VARIABLE WIDTH P/E INGRESS AND EGRESS EASEMENT 8' PUMP ON G.C.B. INSTALL 2"x6" redwood header around 5 pint.

SEE SHT. 18

SEE SHT. 16

MATCH LINE

LOT LINE OF PARCELS 2 & 4

LOT LINE OF PARCELS 4 & 5

EXISTING ACCESS RD.

EXISTING OIL WELL ACCESS ROAD

RIPRAP

SUBDRAIN

FILL

CUT

ROCKWEILER DRIVE

3' (BERM) 8.0'

2%

1:1 FILL SLOPES

SECTION Y-Y
(NO SCALE)

IM234-117
249-117

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP 12/99
No. 23777
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
Print Name CARL CHAPMAN & ASSOC
Address 2346 COTNER AVE
LOS ANGELES, CA 90064
Phone (213) 320-8098
Civil Engineer CARL CHAPMAN
Signature [signature] R.E. No. 23777

REVISIONS

Revised By ____ R.E. No. ____	Revised By ____ R.E. No. ____	Revised By ____ R.E. No. ____
Approved ____ Date ____	Approved ____ Date ____	Approved ____ Date ____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE (GRADING PLAN)
FROM 1700' W'LY TO 700' W'LY OF SIERRA HIGHWAY
TO PG 127 FM

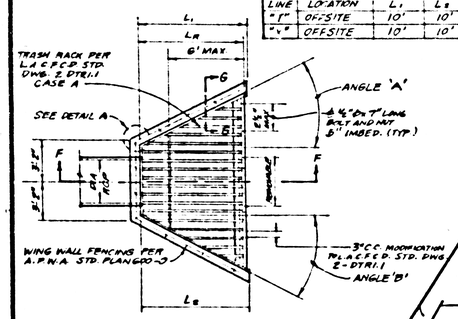
TR. 32365 | SHT 17 of 19 SHTS

FM 21889-17

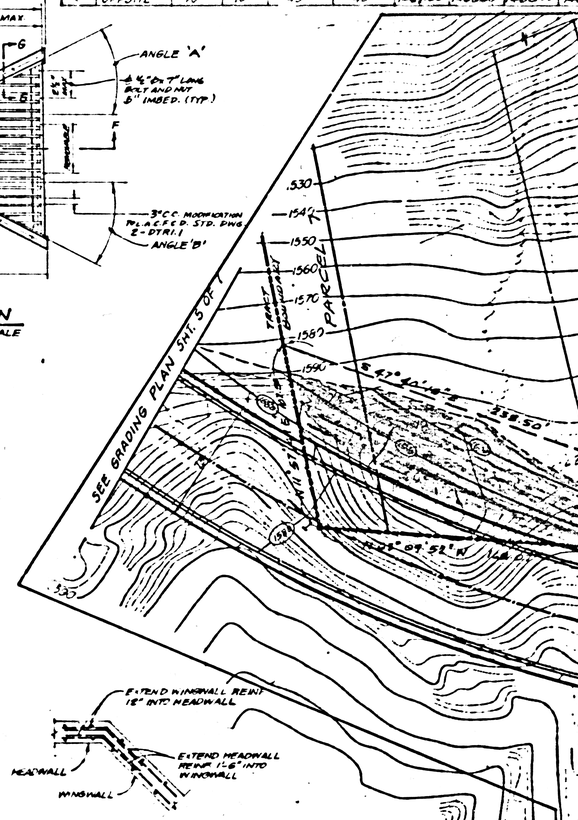
LA CO DEPT OF PUBLIC WORKS #2 REV. 2/85
G.M. # 213-000-6440

REVIEWED _____ 12-14-88

DATA TABLE FOR INLET STRUCTURE									
LINE	LOCATION	L_1	L_2	ANGLE 'A'	ANGLE 'B'	ELEV 'A'	ELEV 'B'	ELEV 'C'	ELEV INV
"I"	OFFSITE	10'	10'	45°	30°	1541.00	1537.00	1533.03	1532.16
"V"	OFFSITE	10'	10'	45°	45°	1467.00	1466.00	1462.00	1460.00



PLAN
NO SCALE



DETAIL "A"
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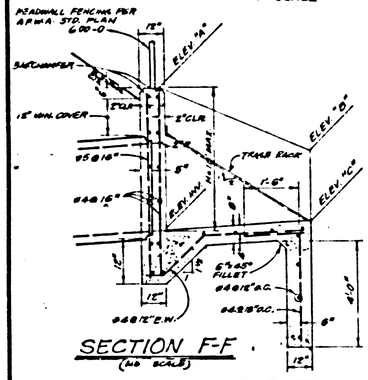
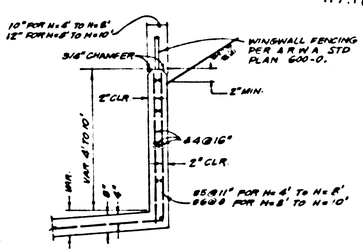


SECTION F-F
(NO SCALE)



SECTION G-G
NO SCALE

INLET STRUCTURE DETAILS

GRADE APPROVAL ONLY
SUBJECT TO REVISION BY SIX INCHES
NOT GOOD FOR BUILDING ELEVATIONS
FOR L.A. CO. DEPARTMENT OF PUBLIC WORKS
BY _____ DATE _____

REGISTERED PROFESSIONAL ENGINEER
CARL E. CHAPMAN
EXP 12/89
No. 23777
CIVIL
STATE OF CALIFORNIA

TYP. TERRACE DRAIN-STAIRWAY DETAIL
NO SCALE

IM 234-117
249-117

PLANS PREPARED BY:
FIRM NAME CARL CHAPMAN & ASSOC.
ADDRESS 2346 COTNER AVE.
LOS ANGELES, CA. 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE _____ R.E. NO 23777

REVISIONS

REVISED BY _____ RE. No. _____	REVISED BY _____ RE. No. _____	REVISED BY _____ RE. No. _____
APPROVED _____ DATE _____	APPROVED _____ DATE _____	APPROVED _____ DATE _____

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOCKWEILER DRIVE (GRADING PLAN)
FROM 2700' W'LY TO 1700' OF SIERRA HIGHWAY

TR. 32365 | SHT 18 of 19 SHTS

FM 21889-18

GENERAL NOTES

GRADING NOTES

1. FILL SHALL BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557-70(A)
2. FIELD DENSITY WILL BE DETERMINED BY THE SAND-CONE METHOD - A.S.T.M. D-1556-64 OR RING-AND-WEIGHT METHOD - A.S.T.M. D-2937-71 PROVIDED DETERMINED BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. AT LEAST ONE TEST SHALL BE MADE FOR EVERY 1000 CUBIC YARDS OR FRACTION THEREOF OF EACH LIFT OF COMPACTED FILL PLACED. ANY OTHER METHOD FOR DETERMINING FIELD DENSITY SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO ITS USE. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
3. THE SOIL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF FILLS TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.
4. NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS AND THE INSTALLATION OF SUBDRAINS (IF ANY) HAS BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
5. NO ROCK OR SIMILAR MATERIAL GREATER THAN 8 INCHES IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
6. CONTINUOUS INSPECTION BY THE SOIL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS. EXCEPTIONS: WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR A SLOPE STEEPER THAN 2:1.
7. CONTINUOUS INSPECTION BY THE SOIL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATIONS.
8. FILLS SHALL NOT BE STEEPER IN SLOPE THAN 2:1. UNLESS A SOILS CERTIFICATION IS SUBMITTED AND APPROVED BY ADVICE OF THE BUILDING OFFICIAL.
9. PRIOR TO ISSUANCE OF THE BUILDING PERMITS, A SOIL EXPANSION TEST, DONE IN ACCORDANCE WITH THE PROCEDURES OF U.B.C. STANDARD NO 29-2 IS REQUIRED.
10. FINAL SOILS ENGINEERING AND APPROVING THE ROUGH GRADING MUST BE SUBMITTED AND APPROVED PRIOR TO BUILDING PERMITS.
11. CUTS SHALL NO STEEPER IN SLOPE THAN 1 1/2:1.
12. ALL CUTS SHALL BE INSPECTED DURING THE COURSE OF GRADING OPERATIONS AND THAT ANY LOCAL GEOLOGICAL CONDITIONS NOT BE REVEALED OR NOT CONNECTED.
13. THE CONSULTANT'S SOILS REPORT AND AMENDMENTS ARE A PART OF THE PLANS AND SPECIFICATIONS, AND ALL RECOMMENDATIONS THEREIN IN THE CONSULTANT'S SOIL AND GEOLOGY REPORTS AND AMENDMENTS MUST BE COMPLIED WITH.
14. THE EXISTING TOPOGRAPHY AS DELINEATED ON THESE GRADING PLANS SHALL BE UTILIZED. A TOPOGRAPHIC SURVEY AND QUANTITY COMPUTATIONS SAID TOPOGRAPHY SHALL BE PREPARED BY A LICENSED SURVEYOR OR REGISTERED CIVIL ENGINEER. ANY DEVIATION IN EXCESS OF 0.1 FOOT PRIOR TO THE START OF GRADING IN ANY SPECIFICATION AREA ANY DEVIATION SO DETERMINED SHALL BE TRANSMITTED TO ALL.
15. ANY REVISION MADE IN THE GRADING AS SHOWN ON THE PERMITTED PLAN MUST BE SPECIFICALLY APPROVED BY THE CONSULTANTS AND BY THE BUILDING OFFICIAL.
16. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK.
    a. INITIAL - WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNSATISFACTORY SOIL AND IT HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL. NO FILL SHALL HAVE BEEN PLACED PRIOR TO THIS INSPECTION.
    b. ROUGH - WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN REACHED, UNSUITABLE MATERIAL REMOVED, DRAINAGE DEVICES INSTALLED AT THE TOP OF THE UNDERCUT AND THE STATEMENTS REQUIRED IN SECTION 7010 HAVE BEEN SUBMITTED.
    c. FINAL - GRADING HAS BEEN COMPLETED; ALL DRAINAGE DEVICES INSTALLED, SLOPE PLANTING ESTABLISHED, IRRIGATION SYSTEMS COMPLETED AND THE AS GRADED PLANS AND REQUIRED STATEMENTS AND REPORTS HAVE BEEN SUBMITTED.
17. THE PERMITTEE NEED NOT WAIT FOR THE INSPECTOR TO ARRIVE BEFORE PROCEEDING WITH THE WORK.
18. THE BUILDING OFFICIAL SHALL APPROVE THE WORK INSPECTED OR SHALL NOTIFY THE PERMITTEE OR HIS AGENT WHEREIN IT FAILS TO COMPLY WITH THE REQUIREMENTS OF THIS CODE.
19. SUFFICIENT TESTS OF SOIL PROPERTIES INCLUDING SOILS TYPES AND SHEAR STRENGTH SHALL BE MADE DURING GRADING OPERATIONS TO VERIFY COMPLIANCE WITH THE DESIGN CRITERIA USED IN DETERMINING STABILITY. A REPORT SHALL BE FURNISHED TO THE BUILDING OFFICIAL UPON COMPLETION OF GRADING. THE NUMBER AND LOCATION OF SUFFICIENT TESTS NECESSARY TO SATISFY THE BUILDING OFFICIAL AS TO FIELD DENSITY SHALL BE DETERMINED BY THE SOILS ENGINEER.
    a. ONE FIELD DENSITY TEST WITHIN EACH UNIFORMLY GRADED AREA OR EACH 1000 CUBIC YARDS OF MATERIAL PLACED.
    b. ONE TEST FOR EACH TWO FEET IN VERTICAL LIFT OF FILL.
    c. ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH FOOTING (OR FRACTION THEREOF) OF VERTICAL LIFT ON PORTION THEREOF.
    d. THE TEST IN THE VICINITY OF EACH BUILDING AND FOR EACH FOOT VERTICAL LIFT OR PORTION THEREOF.

    THE RESULTS OF SUCH TESTING SHALL BE INCLUDED IN THE REPORTS REQUIRED BY CHAPTER TWO.
20. IN ADDITION TO THE ABOVE THE GRADING CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT VERIFYING THAT THE WORK DONE UNDER HIS SUPERVISION HAS BEEN DONE IN ACCORDANCE WITH THE APPROVED PLANS AND REQUIREMENTS OF CHAPTER TWO OF THE COUNTY BUILDING CODE OR SPECIFYING ALL VARIANCES FROM THE APPROVED PLANS AND REQUIREMENTS OF THE CODE.
21. THE PLANS OF A DESIGNED IRRIGATION SYSTEM FOR FULL COVERAGE OF ALL PLANTING SHALL BE PROVIDED AND SUBMITTED AND APPROVED PRIOR TO ROUGH GRADING APPROVAL BY THE COUNTY ENGINEER. SPRINKLER HEADS MAY BE USED FOR UP TO 30 FEET HIGH SLOPES PLACED SO THAT ALL PORTIONS OF THE SLOPES CAN BE WATERED WITH A 50 FOOT HOSE. SPRINKLERS ARE REQUIRED FOR HIGHER SLOPES.
22. FINAL GRADING MUST BE APPROVED BEFORE OCCUPANCY OF BUILDINGS WILL BE ALLOWED. 307(a)
23. BEFORE PERMISSION FROM THE ROAD DEPARTMENT FOR CONSTRUCTION, GRADING AND/OR DISCHARGE OF DRAINAGE WITHIN STREET RIGHT OF WAY.
24. BERMS AT SLOPES TO BE COMPLETED TO REQUIREMENTS OF THE BUILDING ENGINEER AND P.A.C. COUNTY BUILDING CODE.
25. FILL PLACED OVER EXISTING TERRAIN STEEPER THAN 5:1 MUST BE SUPPORTED BY HORIZONTAL BENCHES CUT INTO BEDROCK OR OTHER COMPETENT MATERIAL.
26. PRIOR TO CONNECTING WORK A PERMIT TO OPERATE IN FIRE ZONE NO. 4 SHALL BE OBTAINED FROM THE FIRE DEPARTMENT.
    TELEPHONE: (213) 267-2465.
27. PRUDENT CONTROL NOTE - OWNER TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF SURFACE RUNOFF AND AT THE FIRST EVIDENCE OF THEIR EXISTANCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL.
28. A COPY OF THE GRADING PERMIT MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE.
29. IN ADDITION TO THE INSPECTION REQUIRED OF THE BUILDING OFFICIAL FOR REGULAR GRADING, REPORTS AND STATEMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IN ACCORDANCE WITH SECTION 7020 AND 7021.
30. GRADING IN FUTURE STREET RIGHT OF WAY MUST BE INSPECTED BY THE ROAD DEPARTMENT. CALL (213) [illegible] FOR INFORMATION.
31. IN-GRADING INSPECTIONS MUST BE MADE BY THE CONSULTING GEOLOGIST AND SOILS ENGINEER. INSPECTION REPORTS MUST BE SUBMITTED TO THE WORK NOT SOONER FOR REVIEW PURPOSES. NOTIFY GEOLOGY GROUP UPON START OF GRADING.
32. ROUGH GRADING MUST BE APPROVED BY A FINAL GEOLOGY REPORT AND FINAL SOILS ENGINEERING REPORT PRIOR TO APPROVAL BY THE BUILDING. REPORT AN AS-BUILT GEOLOGY MAP MUST BE INCLUDED IN THE FINAL GEOLOGY REPORT.
33. FOUNDATION AND/OR WALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE CONSULTING ENGINEER AND SOILS ENGINEER PRIOR TO THE PLACING OF STEEL OR CONCRETE.
34. OUTLET FOR ALL SUBDRAIN INSTALLATIONS ARE TO BE PROTECTED BY EMBEDDING IN CONCRETE. ALL SUBDRAIN OUTLETS ARE TO BE SURVEYED FOR LINE AND ELEVATION.
35. ALL SOIL AND/OR UNCONSOLIDATED SLOPEWASH AND EXISTING FILLS SHALL BE REMOVED AND BENCHING PRIOR TO THE PLACING OF COMPACTED FILLS.
36. ANY GRADING DONE WITHIN THE EASEMENT OF THE LOS ANGELES CITY DEPT OF WATER AND POWER WILL BE DONE UNDER THE DIRECT SUPERVISION OF THEIR REPRESENTATIVES AND THE SUPERVISING CIVIL ENGINEER.

DRAINAGE NOTES

1. A PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO CONNECTING ANY CONSTRUCTION WORK UNDER THIS CONTRACT. CONTACT THE DEPARTMENT BY TELEPHONE AT (818) 458-3129 TO OBTAIN ANY REQUIRED AND CONNECTION PERMIT TO MAKE DEPOSIT FOR CONSTRUCTION INSPECTION.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE (818) 458-3129 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR CONSTRUCTION INSPECTION TO THE COUNTY DIRECTOR OF PUBLIC WORKS. THE CONTRACTOR SHALL ARRANGE CONSTRUCTION INSPECTION AT LEAST 24 HOURS BEFORE STARTING WORK UNDER THIS CONTRACT. COPIES OF ALL PERMITS SHALL BE FILED WITH THE DIRECTOR OF PUBLIC WORKS PRIOR TO SUBMITTING THE DEPOSIT.
3. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, INLETS IMPROVED, SILT REMOVED AND THE SYSTEM CLEANED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
4. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION TO THE ACCURACY OF THE LOCATION OR THE EXISTENCE OR NON EXISTENCE OF ANY UNDERGROUND PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIED TO ALL SHEETS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1968 EDITION" INCLUDING SUPPLEMENTS AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DIRECTION OF PUBLIC WORKS.
6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.4L OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
7. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD 9-7
8. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO THE CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
9. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE A 1 1/2" CLEARANCE UNLESS OTHERWISE SPECIFIED
10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL, PER A.S.T.M. A-615-GRADE 60.
11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
12. DIMENSIONS FROM FACE OF CONCRETE OR STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
13. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18" WHICHEVER IS GREATER.
14. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
15. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 3250 P.S.I. UNLESS OTHERWISE NOTED.
16. ALL CONSTRUCTION JOINTS IN THE FOOTING OF BOXES AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
17. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
18. UNLESS OTHERWISE SHOWN CONCRETE SHALL BE WEASHERED TOOLED OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTERLINE OF CONSTRUCTION.
19. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY TRAFFIC. THE CONCRETE SHALL BE RICHFORM MIX AND SHALL CONSIST OF 1 SACK PER CUBIC YARD CONCRETE POURED FROM WALL TO WALL AND TO A DEPTH OF 6 INCHES FROM BOTTOM OF TRENCH OR A MINIMUM OF 4 INCHES FROM TOP OF THE PIPE
20. ALL BACKFILLED AND FILLS TO BE USED UNDER AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
21. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER EXCAVATIONS AND STORM DRAINS INSTALLED UNDER HIS DIRECTION HAVE BEEN COMPACTED AS SPECIFIED TO 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE INSPECTOR OF THE PUBLIC WORKS PRIOR TO THE ACCEPTANCE OF THE WORK BY THE COUNTY.
22. WHERE PIPE IS TO BE BACKFILLED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF THE PIPE PRIOR TO TRENCHING.
23. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS-OF-WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD WAY TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE REMAINDER OF THE BACKFILL AND FILL ABOVE APPROXIMATE LIMITS OF APPLICATIONS FOR AN ENGINEER OR INSPECTOR'S DISCRETION WITHIN SAID APPROXIMATE LIMITS. THE CONTRACTOR AT LEAST 24 HOURS BEFORE SERVICE IS REQUIRED. CALL (818) 458-3161.
24. ALL REINFORCED CONCRETE PIPE SHALL BE SECURED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE 36 BEDDING PER STANDARD ORDERING D-54 UNLESS OTHERWISE NOTED. THE BEDDING MATERIAL PLACED FOR THE BOTTOM OF THE PIPE TO 1 FOOT OVER THE TOP OF THE PIPE SHALL BE SAND, CRUSHED GRANULAR, OR NATIVE FREE FINE CRUSHING MATERIAL AND SHALL HAVE A SAND EQUIVALENT OF 20 OR GREATER.
25. ALL PIPES SHALL BE LAID IN TRENCH IN NATIVE GROUND AND/OR COMPACTED FILL TO GRADE LINE LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE THE TOP OF THE PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION WHICHEVER IS LESS. ALL BACKFILLS IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
26. THE PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET AND HEADWALLS, UNLESS OTHERWISE SPECIFIED.
27. THE PIPE IS TO BE MANUFACTURED WITH AN ADDITIONAL CONCRETE THICKNESS OVER THE INVERT REINFORCEMENT AS SPECIFIED IN PROFILE ON THESE PLANS.
28. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929.
29. ALL CATCH BASINS WITHIN THE DEDICATED STREET RIGHTS-OF-WAY SHALL BE CONSTRUCTED PER THE STREET PLANS.
30. THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES UNTIL THIS STORM DRAIN SYSTEM IS OPERABLE.
31. ALL REFERENCES ON THIS PLAN TO THE COUNTY ENGINEER, ROAD DEPARTMENT, OR FLOOD CONTROL DISTRICT SHALL APPLY TO THE APPROPRIATE SECTIONS OF THE DEPARTMENT OF PUBLIC WORKS.
32. EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
33. WHERE UTILITIES ARE INDICATED ON THE DRAWINGS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO 224-B UNLESS OTHERWISE INDICATED.
34. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, HEADWALLS OR SIMILAR STRUCTURES SHALL BE SEALED WITH 2 INCHES OF GROUT AND MORTAR OR 6 INCHES OF CONCRETE, UNLESS OTHERWISE NOTED.
35. MANHOLES NO 1, 2, AND 4, SHALL USE THE STANDARD PLANS, 536-0 FOR THE FRAME AND COVER AND 535-0 FOR THE "STANDARD DROP STEP".
36. FIELD ENGINEER MUST SET DRAINAGE STAKES FOR ALL DRAINAGE DEVICES.
37. SEE SEPARATE PLANS FOR TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES TO BE USED DURING THE RAINY SEASON. THE CONTROL DEVICES SHOWN ON SAID PLANS WILL BE INSTALLED BY NOT LATER THAN NOVEMBER 1 AND MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15.
38. ALL STORM DRAIN WORK TO BE DONE UNDER CONTINUOUS INSPECTION BY THE FIELD ENGINEER. WEEKLY STATUS REPORTS SHALL BE SUBMITTED BY THE FIELD ENGINEER TO THE LOCAL BUILDING AND SAFETY OFFICE
39. ALL ENACED SITES MUST HAVE DRAINAGE SWALES BERMS, AND OTHER DRAINAGE DEVICES APPROVED AT THE ROUGH GRADING STAGE 7020 (c)

RIPRAP NOTES

1. ROCKS FOR GROUTED RIPRAP SHALL BE A GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A FIRM BED OF AT LEAST 3 INCHES BENEATH THE FINEST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH SPLIT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
3. SURFACE ROCKS SHALL BE EMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

NOTICE TO CONTRACTORS

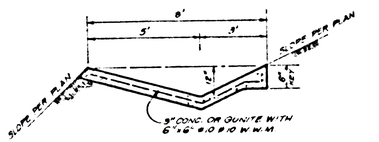
1. CONTRACTORS SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER OF CONSTRUCTION HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.
3. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGIC REPORTS, AND TO VISIT THE SITE PRIOR TO COMMENCING WORK.
4. NO CHANGES IN THE PLANS WILL BE MADE, UNLESS APPROVED BY THE DEVELOPER AND THE COUNTY OF LOS ANGELES.
5. THE CONTRACTOR SHALL NOTIFY CARL CHAPMAN & ASSOCIATES OF ANY DISCREPANCIES IN THE PLANS BEFORE PROCEEDING WITH CONSTRUCTION.

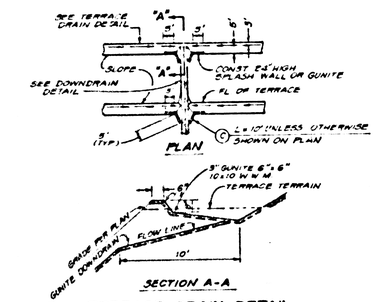
QUANTITIES

DIRT QUANTITIES (PURE VOLUME): CUT 105,917 CUBIC YARDS
FILL 97,446 CUBIC YARDS

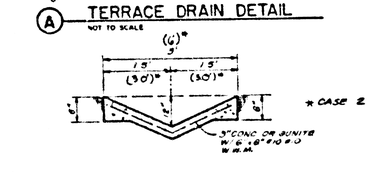
GEOTECHNICAL NOTES

1. BACKFILL BEHIND RETAINING SHALL MUST BE INSPECTED BY THE SOILS ENGINEER.
2. THE SOILS ENGINEER MUST APPROVE THE LOCATION OF THE SUBDRAINS AND THE FILTER MATERIAL USED TO BACKFILL THE SUBDRAIN PIPE
3. THE INITIAL UPPERMOST 500 FEET OF SUBDRAIN PIPE MAY BE SIX (6) INCHES IN DIAMETER, WHERE THE REMAINING PORTION OF THE SUBDRAIN PIPE MUST BE A MINIMUM OF EIGHT (8) INCHES IN DIAMETER. SUITABLE OUTLETS TO DRAINS, AND FOR ADDITIONAL DETAILS OF SUBDRAIN CONSTRUCTION.
4. THE LOCATION AND CLEANOUTS FOR THE CANYON SUBDRAINS AND BACKDRAINS MUST BE GEOLOGICALLY INSPECTED AND APPROVED PRIOR TO THE PLACING OF THE GRAVEL AND PIPE.

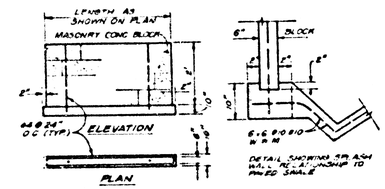




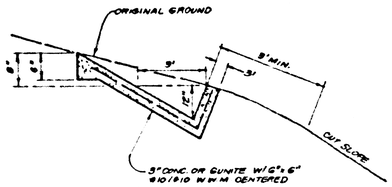
A TERRACE DRAIN DETAIL
NOT TO SCALE



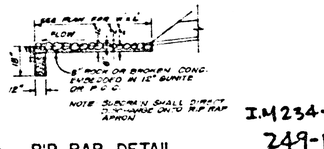
B DOWNDRAIN DETAIL
NOT TO SCALE



C SPLASH WALL DETAIL
NOT TO SCALE



E DIVERTER TERRACE



D RIP RAP DETAIL
NOT TO SCALE

I.M 234-117
249-117

REVIEWED BY [signature] ROAD SECTION 12-16-88 DATE

LIST OF STANDARD DRAWINGS

LOS ANGELES COUNTY ENGINEER

PIPE BEDDING	D-54

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

STANDARD REINFORCING	2-D71
MANHOLE NO. 2	2-D184
T.S. NO. 3	2-D188
CONCRETE COLLAR	2-D899
PROTECTION BARRIER	2-D261.1 TO 2-D261.3
TRASH RACK	2-D711.1 & 1.2
STD DROP STEP	2-D174
REMOVABLE PROTECTION BAR	2-D175
PIPE BEDDING	2-D177
FENCING, DOUBLE DRIVE GATE WALK GATE	2-D180

STANDARD PLANS PUBLIC WORK CONSTRUCTION

CURB OPENING CATCH BASIN	300-0
MONOLITHIC CATCH BASIN CONNECTION	308-0
CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR	310-0
CATCH BASIN MANHOLE FRAME AND COVER	312-0
24 INCH MANHOLE FRAME AND COVER	630-0
STEEL STEP	655-0
PIPE ANCHOR	221-0
CHAIN LINK FENCE AND GATES	600-0

BENCH MARK:
L.A.C.F.D. BM CL. 2923
C.S. MON. E/N UP 87 FT. S/C/L SAN FERNANDO RD. 10 FT. S. OF END OF A 3 FT. R.C.P. & CONC. BLOCK WALL @ P.C. LOT. @ 23737 SAN FERNANDO RD. W/O (BM NE-1) 0.6 MI W/O SIERRA HWY.
NEWHALL (1983) ELEV 1921.152

* — Q100
** — ADDITIONAL 1/2" CONC. COVER OVER PIPE INVERT
*** — ADDITIONAL 1" CONC. COVER OVER PIPE INVERT

HYDRAULIC ELEMENTS TABLE

HYDRAULIC ELEMENTS LATERALS

LOCATION	PIPE REACH FROM	PIPE REACH TO	Q_{100}(cfs)	PIPE SIZE D_{in}	V(fps)	
LINE 'S'	1+00.00	1+10.00	5.0	18	6.36	
LINE 'T'	1+00.00	2+15.00	45.9	36	37.68	***
	2+15.00	2+91.00	45.0	36	26.85	**
	2+91.00	3+96.00	36.4	36	18.44	**
LINE 'U'	0+01.25	0+32.37	3.9	18	19.66	
LINE 'U1'	0+01.25	0+27.38	5.6	18	19.65	
LINE 'V'	0+00.00	0+77.00	212.8	48"	9.26	***
	0+77.00	3+23.66	196.8	48	9.10	***
	3+23.66	4+73.00	185	48	20	**
LINE 'W'	1+66.00	2+36.07	20.0	30	30.36	***
	2+36.07	2+49.85	17.3	30	11.50	***
	2+49.85	3+15.66	6.3	30	8.20	
LINE 'X'	1+01.80	1+29.00	47.8	36	28.18	**
LINE 'Y'	1+01.18	1+28.09	2.7	24	9.12	
LINE 'Z'	1+01.40	1+64.40	13.0	24	8.61	

CITY OF SANTA CLARITA
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DETAILS
STANDARD NOTES

PLANS PREPARED BY:
NAME CARL CHAPMAN & ASSOC.
ADDRESS 2146 CORNER AVE
LOS ANGELES, CA. 90064
PHONE (213) 390-8098
CIVIL ENGINEER CARL CHAPMAN
SIGNATURE [signature] RE NO 23777

REGISTERED PROFESSIONAL ENGINEER CARL E. CHAPMAN EXP 12/89 No. 23777 CIVIL STATE OF CALIFORNIA

REVISIONS

Revised By	RE. No.	Revised By	RE. No.	Revised By	RE. No.
Approved	Date	Approved	Date	Approved	Date

TR. 32365 | SHT 19 OF 19 SHTS

FM 21889-19