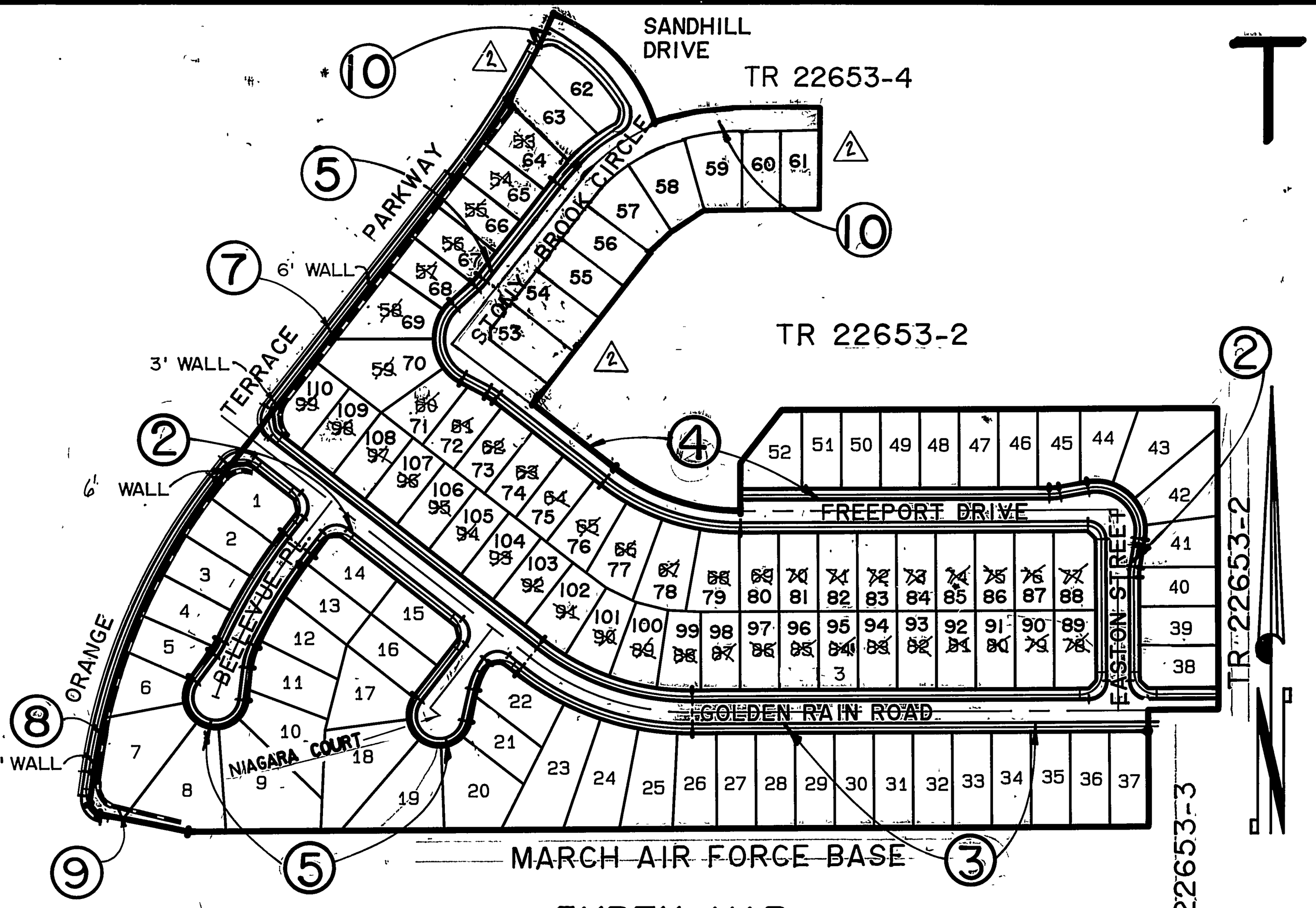
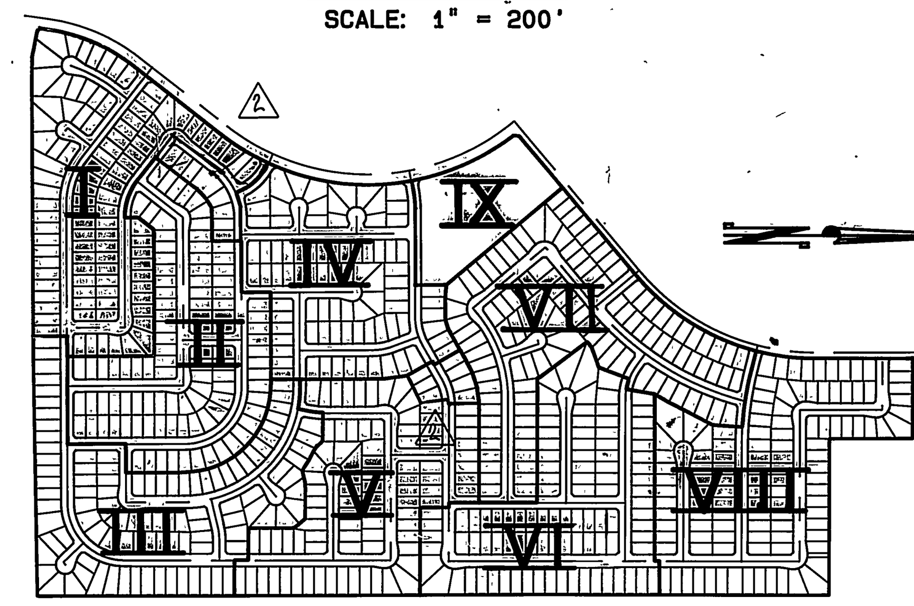
TRACT 22653 PHASE 1
STREET IMPROVEMENT PLANS

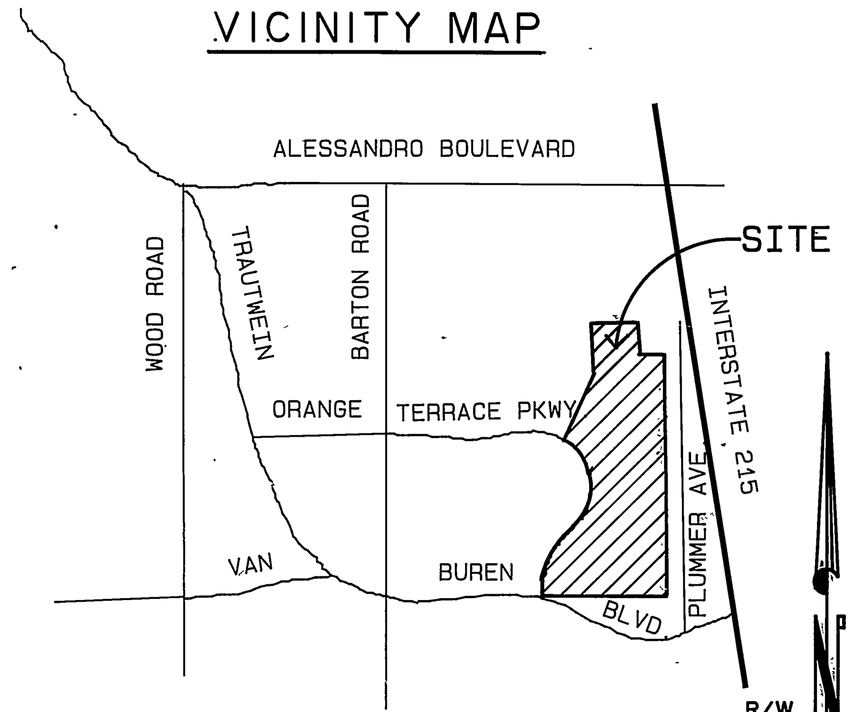


INDEX MAP
SCALE: 1" = 200'



PHASING MAP
SCALE: 1" = 800'

VICINITY MAP



STREET SIGN SCHEDULE

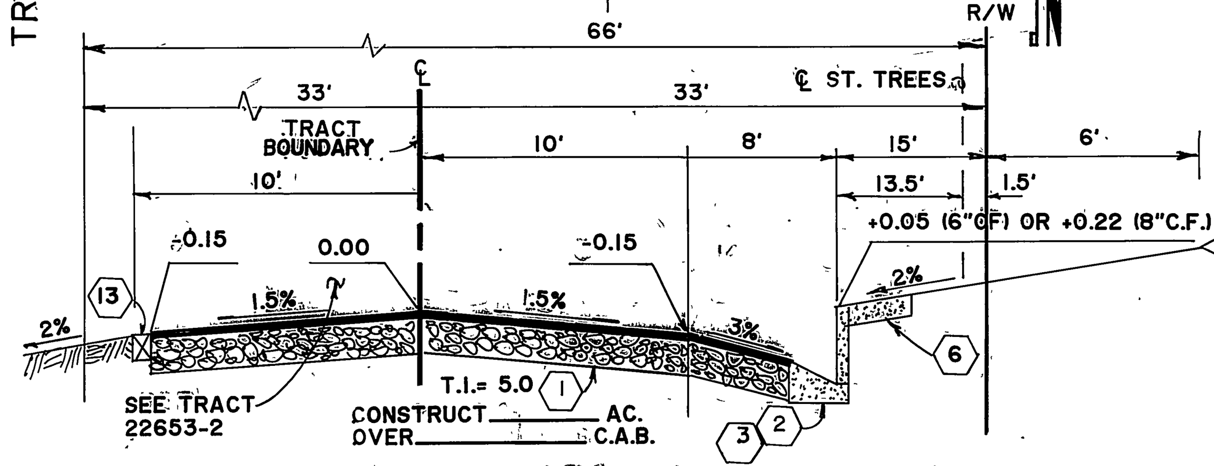
A	ORANGE TERRACE PARKWAY GOLDEN RAIN ROAD	8800 20600
B	GOLDEN RAIN ROAD BELLEVUE PLACE	20600 8900
C	GOLDEN RAIN ROAD NIAGARA COURT	20600 8900
D	GOLDEN RAIN ROAD EASTON STREET	20700 8900
E	FREEPORT DRIVE EASTON STREET	20700 8900
F	FREEPORT DRIVE STONY BROOK CIRCLE	20600 20600
G	SANDHILL DRIVE STONY BROOK CIRCLE	8700 20600
S	30" R-1 (STOP SIGN)	
T	36" R-1 (STOP SIGN)	

INSTALL PER CITY OF RIVERSIDE STANDARDS NO. 662A & 666.

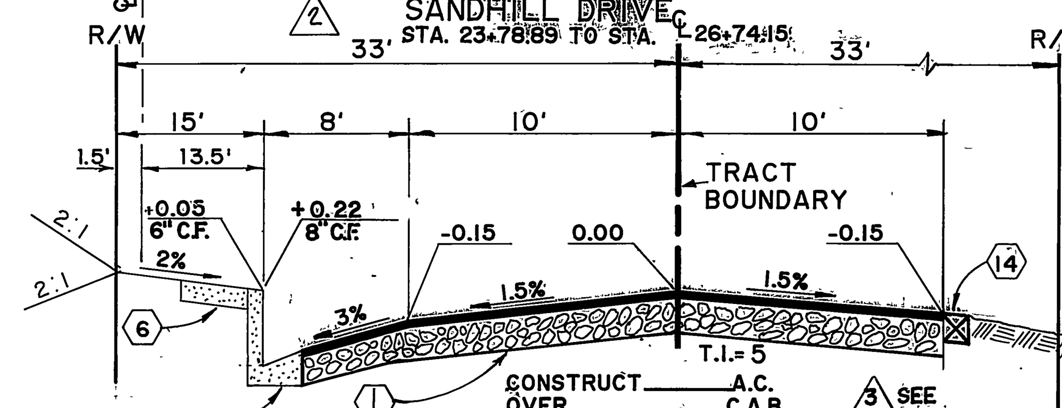
PAVEMENT SECTION TABLE (3)

STREET	T.I.	R-VALUE	AC	CLASS 2 AB
STONY BROOK CIRCLE	6.0	37	3.0"	5.0"
GOLDEN RAIN ROAD	5.0	27	3.0"	6.5"
EASTON STREET	5.0	27	3.0"	6.5"
FREEPORT DRIVE	6.0	37	3.0"	5.0"
BELLEVUE PLACE	5.0	27	3.0"	6.5"
NIAGARA COURT	5.0	27	3.0"	6.5"

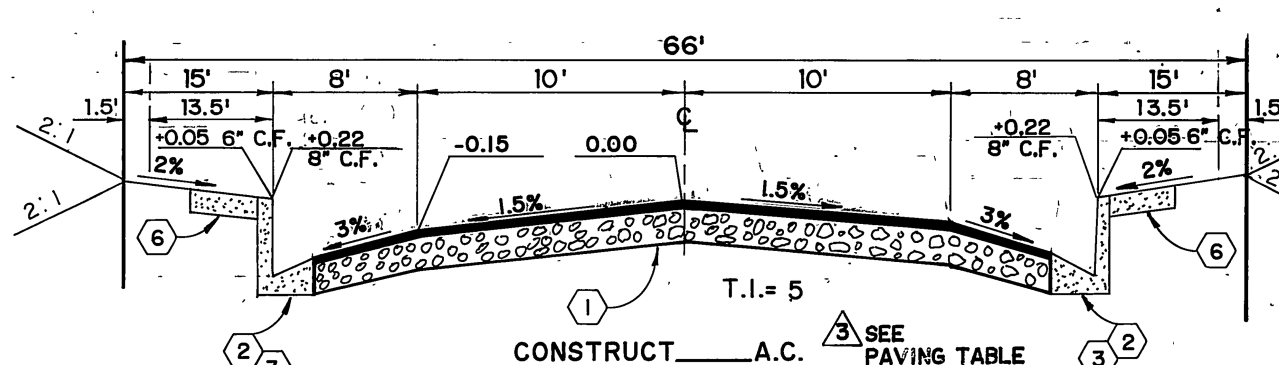
SECTIONS PER SR 1498.



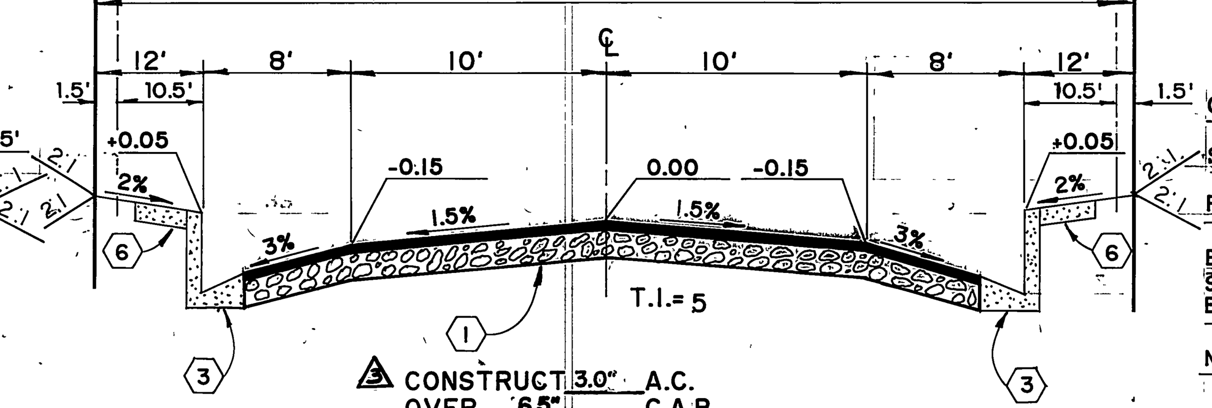
TYPICAL SECTION
N.T.S.
STONY BROOK CIRCLE
STA. 22+37.43 TO STA. 25+62.40
SANDHILL DRIVE
STA. 23+78.89 TO STA. 26+74.15



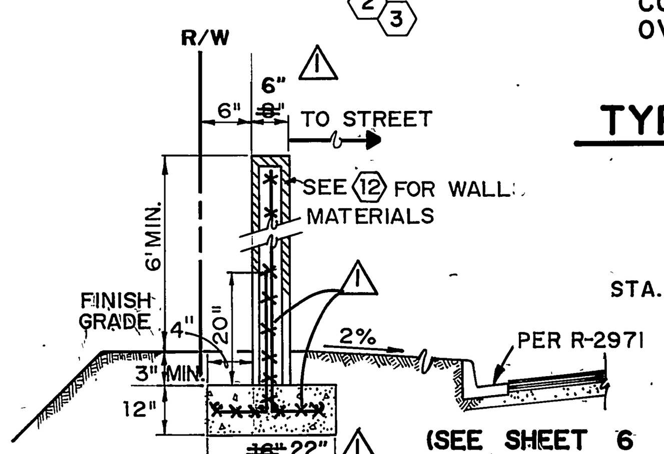
TYPICAL SECTION
N.T.S.
GOLDEN RAIN ROAD
STA. 17+69.95 TO STA. 18+77.41
FREEPORT DRIVE
STA. 5+75.53 TO STA. 10+94.45



TYPICAL SECTION
NTS
GOLDEN RAIN ROAD STA 2+10.00-STA 17+69.95
EASTON STREET
FREEPORT DRIVE
STA. 0+00.00 TO STA.5+75.53

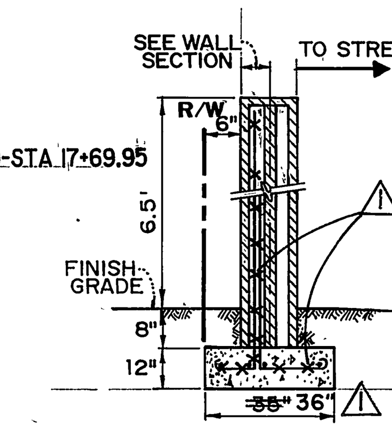


TYPICAL SECTION
NTS
BELLEVUE PLACE
NIAGARA COURT

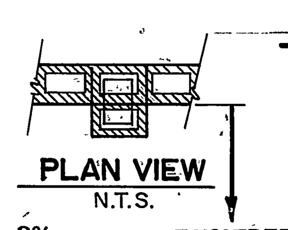


(SEE SHEET 6 FOR DETAILS)

(12) BLOCK WALL SECTION N.T.S.
TYPICAL ORANGE TERRACE PKWY. AND VAN BUREN BLVD:



(12) PILASTER DETAIL
N.T.S. (SEE SHEET 6 FOR DETAILS)



PLAN VIEW
N.T.S.

CONSTRUCTION NOTES

1. Place A.C. paving over aggregate base per typical section.
2. Construct curb and gutter per City of Riverside Standard Drawing No. 200 type I (8" curb face).
3. Construct curb and gutter per City of Riverside Standard Drawing No. 200 type I (6" curb face).
4. Construct PCC cross gutter per City of Riverside Standard Drawing Number 220.
5. Construct wheelchair ramp per City of Riverside Standard Drawing No. 304
6. Construct PCC curb sidewalk per City of Riverside Standard Dwg. No. 325.
7. Construct barricade per City of Riverside Standard Dwg No. 180.
8. Remove existing berm.
9. Plant street trees to the specifications of the Parks and Recreation Department.
10. Paint 12" solid white stop bar, 8" stop legend.
12. Construct 6' high block wall per City of Riverside Standard Number 704 ~~(SEE SHEET 6 FOR DETAILS)~~ Inspection and permit required from Public Works Engineer Division (SEE DETAILS THIS SHEET AND SHEET No. 6) (1)
13. Construct 20' long x 2' wide x 2 1/2" thick A.C. drainage aprons.
14. Constuct 2" x 4" redwood header.
15. Construct 3' high block wall per City of Riverside std. 704 inspection and permit required from Public Works (see sheet 6 for details)

PARKS AND RECREATION NOTES

1. All related work shall conform to the City of Riverside, Park and Recreation Department Standards.
2. Contact the street tree inspector a minimum of 48 hours in advance at 351-6162 to schedule inspections. Inspections shall be required: A) When plant locations have been spotted in the field prior to digging plant pits, B) While digging plant pits and planting/relocating trees, C) After planting and all other indicated or specified work has been completed for start of maintenance, and D) At end of maintenance/field acceptance (developer will be released from maintenance only upon receipt of written notification from the City that the Park and Recreation Department is assuming maintenance responsibilities).
3. Street trees shall be planted prior to occupancy.
4. The developer shall maintain all plantings for a minimum period of one year.
5. Park & Recreation / Public Works Department permits are required prior to commencement of tree relocation and/or removal of work. For all trees within the ultimate pavement area, backfill of all holes is to be inspected by the City for proper compaction.

GENERAL NOTES

1. It shall be the responsibility of the contractor to clear the right of way in accordance with the provisions of law as it affects each utility including irrigation lines and appurtenances and at no cost to the City.
2. Construction shall be in accordance with the City of Riverside Dept. of Public Works, Standard Drawings, Std. Dwg. No. 10, and the Standard Specifications for Public Works Construction, Current Edition.
3. Trim edge of existing pavement where new pavement joins to a smooth, straight line. Construct match-up paving as shown on plan and overlay paving as directed in the field to produce a smooth section.
4. Construct driveway approaches per Std. Dwg. 302. Exact size and location to be determined at the time of construction as approved by the Traffic Engineer.
5. The subdivider shall arrange for a soil test to be made by a soils engineer after the streets have been prepared to rough grade. And prior to curb and gutter construction. Depth of base material and A.C. paving shall be determined by the City of Riverside design standards and text procedures.
6. All flagged elevations shall be staked in the field by the private engineer.
7. The private engineer signing these plans is responsible for assuring the accuracy and acceptability of the work hereon. In the event of discrepancies arising during construction, the private engineer shall be responsible for determining an acceptable solution and revising the plans for approval by the City.
8. The developer shall be responsible for preserving or re-establishing and referencing survey monuments destroyed, disturbed or buried as a result of construction shown hereon.
9. On all areas within public right of way where the fill is one (1) foot or greater, a letter will be required from the soils engineer, certifying the compaction of the fill below subgrade, prior to issuance of the Construction Permit/Cut Sheets.
10. All traffic signs shall be installed prior to opening the streets to traffic.
11. See "Street Lighting Plans" for quantity and location of required street lights.
12. Notice to contractor. The existence and location of any underground utility pipes or structures shown on these plans were obtained by a search of the available records. To the best of our knowledge there are no existing utilities except as shown on these plans. The contractor is required to take precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
13. Contractor agrees that he 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; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer 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 engineer.
14. Any traffic control striping obliterated and/or badly worn during construction shall be restored by the contractor within five days after notification from the City Inspectors.
15. The contractor shall call in a location request to Underground Service Alert (USA), Phone No. 1-800-422-4133, two working days before digging. No construction permit will be issued by the Public Works Department involving excavation or underground facilities unless the applicant has been provided an inquiry identification number by U.S.A.
16. Quantities shown are for information only and the City of Riverside is not responsible for their accuracy.
17. The developer shall give WMWD five (5) working days written notice prior to the start of construction and to allow WMWD ten (10) working days for completion of work. Phone : 780-4170
18. Final striping for traffic control and/or pavement marking to be the responsibility of the developer.
19. The contractor shall coordinate trenching for cable television with other trenching within the subdivision.

continued (Park and Recreation notes)

6. Street tree planting shall be be as follows:

Street Names	Botanical Name / Common Name	Min. Size	Approx. Spacing	No. Req.
GOLDEN RAIN ROAD	JACARANDA MIMOSIFOLIA/JACARANDA	15 GAL.	45'	60
STONY BROOK CIR	LIQUIDAMBAR STYRACIFLUA/AMERICAN SWEET GUM	15 GAL.	45'	20 (2)
FREEPORT DRIVE	LIQUIDAMBAR STYRACIFLUA/AMERICAN SWEET GUM	15 GAL.	45'	38
EASTON STREET	LIQUIDAMBAR STYRACIFLUA/AMERICAN SWEET GUM	15 GAL.	45'	14
SANDHILL DRIVE	CINNAMONUM CAMPHORA/CAMPHOR	15 GAL.	45'	3 (2)
BELLEVUE PLACE	CINNAMONUM CAMPHORA/CAMPHOR	15 GAL.	45'	17
NIAGARA COURT	LAGER STROEMIA INDICA/CRAPE MYRTLE	15 GAL.	45'	8

ORANGE TERRACE PKWY, SEE REVERSE FRONTAGE LANDSCAPE PLAN PC2896-R

PREPARED BY: ELLIOTT / MALONEY LANDSCAPE ARCHITECT

PHONE NUMBER. 369-0700

* NOTE:
IN THE INTREST OF PUBLIC SAFETY & MAINTENANCE THE STREET TREE INSPECTOR SHALL HAVE THE AUTHORITY TO REVISE STREET TREE NUMBERS AND LOCATIONS AS SHOWN ON APPROVED PLANS.

CENCOM CABLE T.V.
APPROVED [signature] DATE 2-5-90

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W. CANTY No. 17550 Exp. 6/30/93 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: [signature]
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE 6-30-93 DATE: 6/5/89
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493 RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE AS SHOWN
DATE JUNE 1989

BENCH MARK: V.B. 10-64 ELEV. 1700.670 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-64, 0.6 MI. E. ON VAN BUREN BLVD. FROM CL INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN @ THE N.E. SIDE OF GRANITE BOULDERS, ON TOP OF 3'x15'x18' BOULDER

MARK	REVISIONS	APPR.	DATE
3	ADDED PAVING SECTIONS PER SR#1498		
2	REVISED PHASE BDRY & LOT #S, SHT #3		
1	REVISED FREESTANDING WALL DETAILS		

DESIGNED BY T.S. DRAWN BY C.C./G.L. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGR.		
PLANNING		

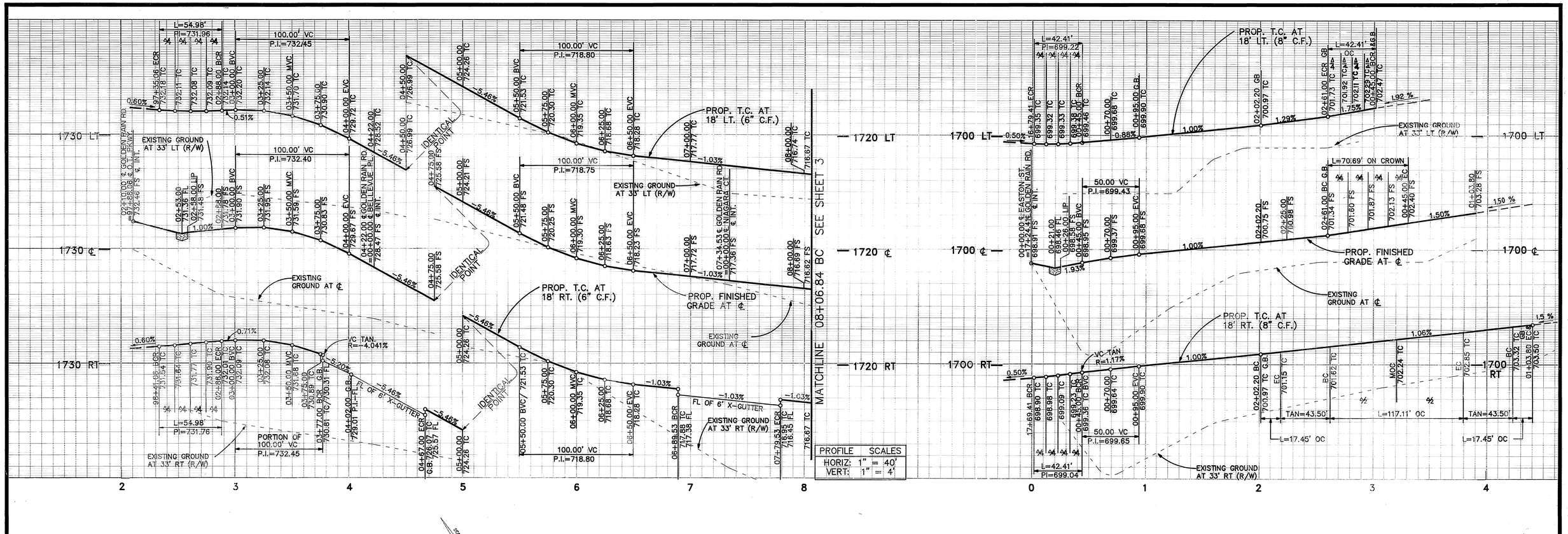
APPROVED BY [signature] DIRECTOR OF PUBLIC WORKS DATE 11/20/90

TRACT 22653-1
STREET IMPROVEMENT PLANS
TITLE SHEET
S.I.C.

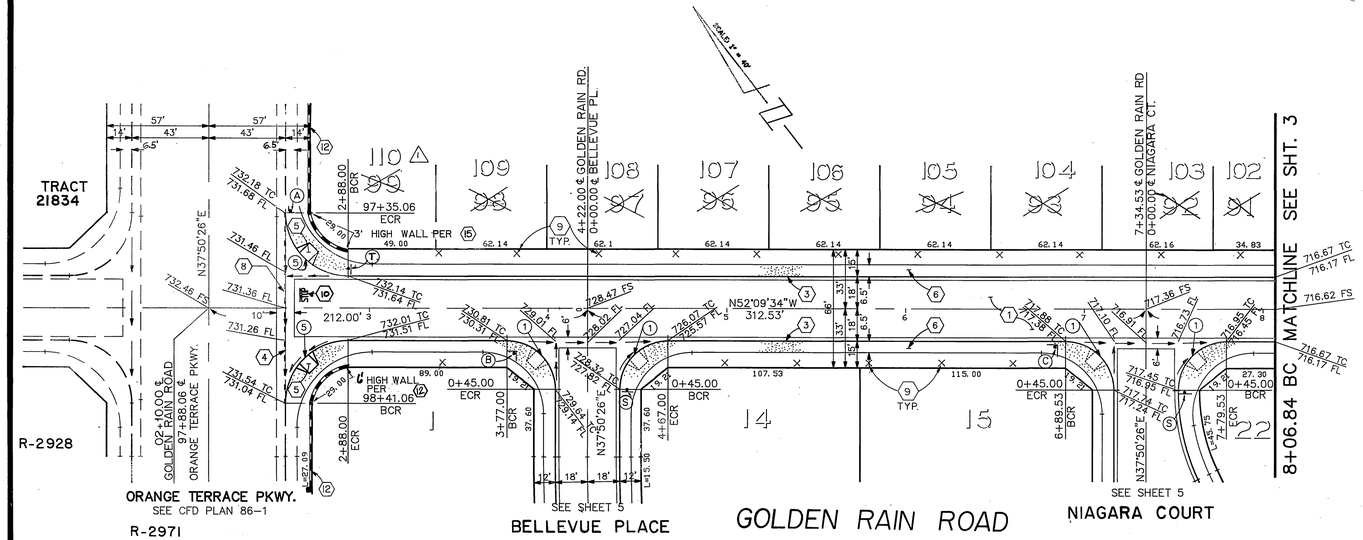
PROJECT NO. R-3120
SHEET 1 OF 10
FILE NO. 8911168

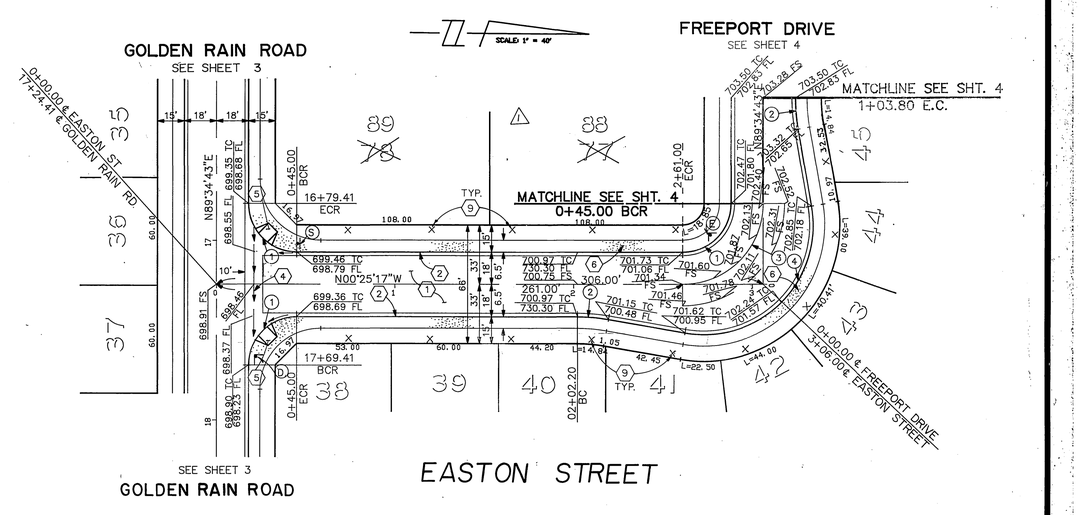
PC2896-S

INDEXED 12-12-90



PROFILE SCALES	
HORIZ:	1" = 40'
VERT:	1" = 4'





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3	90°00'00"	45.00'	70.69'	45.00'
4	110°00'00"	61.00'	117.11'	87.12'
5	90°00'00"	35.00'	54.98'	35.00'

40 20 0 40 80 120
SCALE IN FEET

SEE SHEET NO. 1 FOR GENERAL & CONSTRUCTION NOTES.

PC 2896

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PRIVATE ENGINEERING NOTE

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PROFESSIONAL ENGINEER — REGISTERED — JOHN W. CANTY — No. 17550 — Exp. 6/30/93 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Canty
REGISTERED CIVIL ENGINEER NO. 17750
EXPIRATION DATE 06-30-93 DATE: 6/5/89
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

SCALE 1"=40'
DATE JUN 1989

BENCH MARK:
V.B. 10-64 ELEV. = 1700.670 DATE: 1971
BRASS DISK FLUSH & MARKED V.B. 10-64, 0.6 MI. E. ON VAN BUREN BLVD. FROM CL INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	APPR.	DATE
1	REVISED LOT #'S & SHT. #'S		11/30/90

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/20/90
PARK DEPARTMENT		5/10/90
TRAFFIC DIVISION		11/4/90
CHIEF P.W. ENGR.		11/19/90
PLANNING		11/20/90

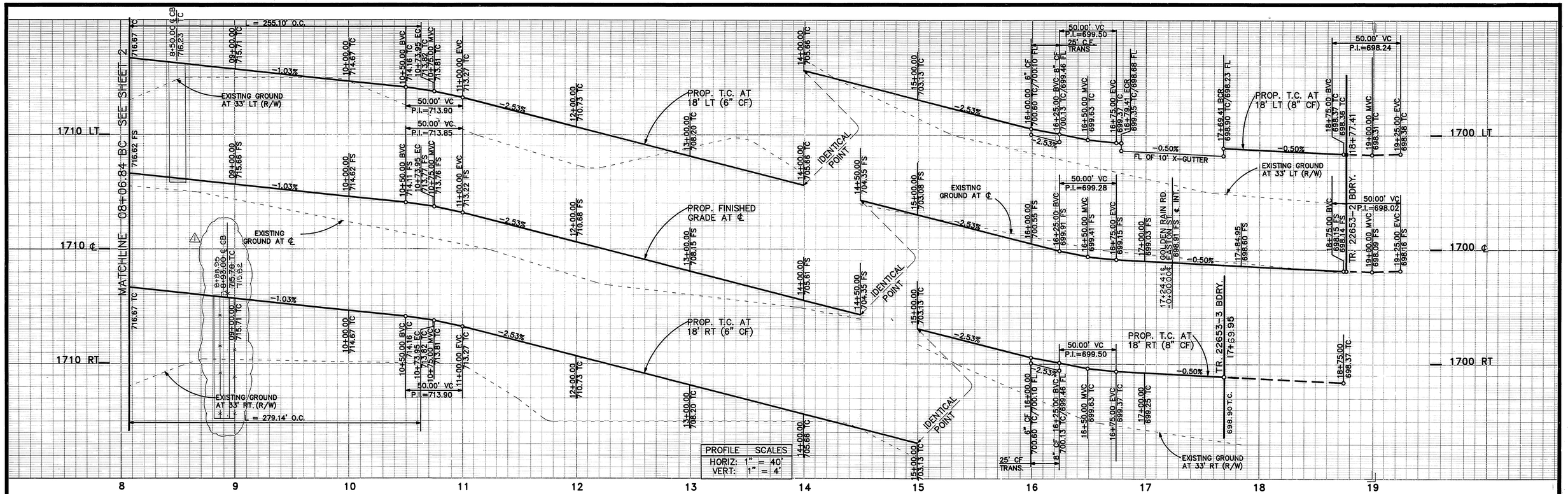
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

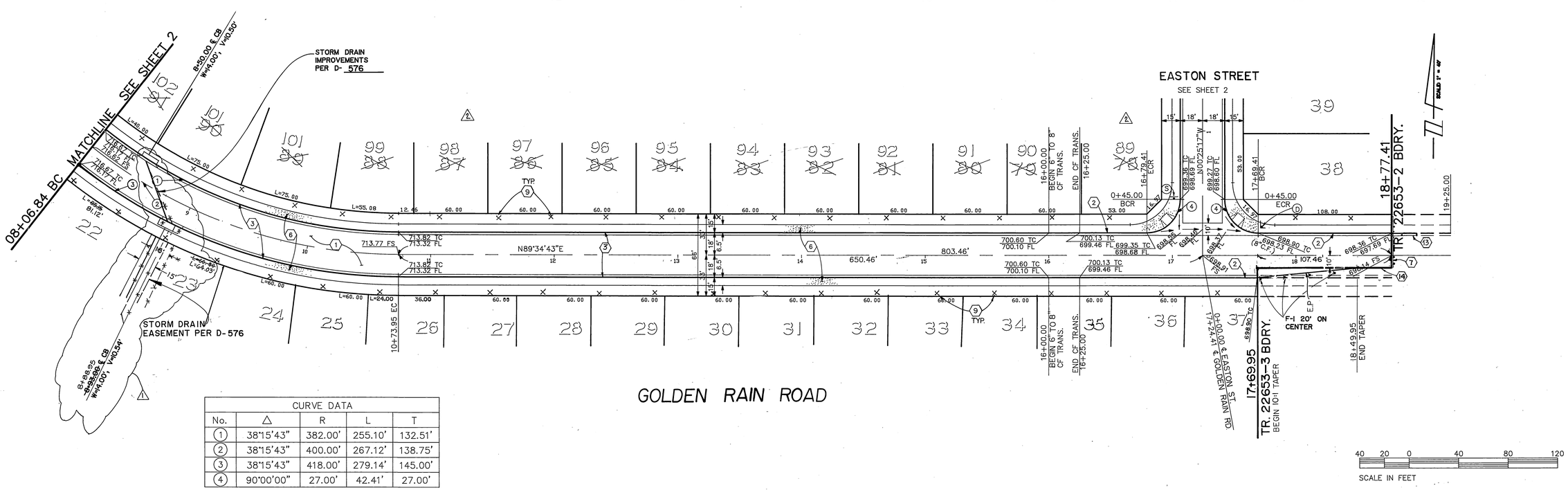
TRACT No. 22653-1
STREET PLAN & PROFILE
GOLDEN RAIN ROAD
STA. 2+10.00 TO STA. 8+06.84
EASTON STREET
STA. 0+00.00 TO STA. 3+06.00

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

PROJECT NO. R-3120
SHEET 10 OF 2 (1 / 2 / 8)
FILE NO. 8911168

INDEXED 12-12-90





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3	38°15'43"	418.00'	279.14'	145.00'
4	90°00'00"	27.00'	42.41'	27.00'

SEE SHEET NO. 1 FOR GENERAL & CONSTRUCTION NOTES.

P.C. 2896

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JOHN W. CANTY No. 17550 Exp. 6/30/93 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Canty
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE 06-30-93 DATE: 6/5/89
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
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73-080 EL PASEO, #103 ☐ PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE 1"=40'
DATE JUN 1989
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MARK	REVISIONS	APPR.	DATE
2	REVISED LOT #'S & SHT. #'S		
1	REVISE EASEMENT & S.D. LOCATION		3/4/91

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		9/9/90
PARK DEPARTMENT		5-10-90
TRAFFIC DIVISION		11/6/90
CHIEF P. W. ENGR.		11/14/90

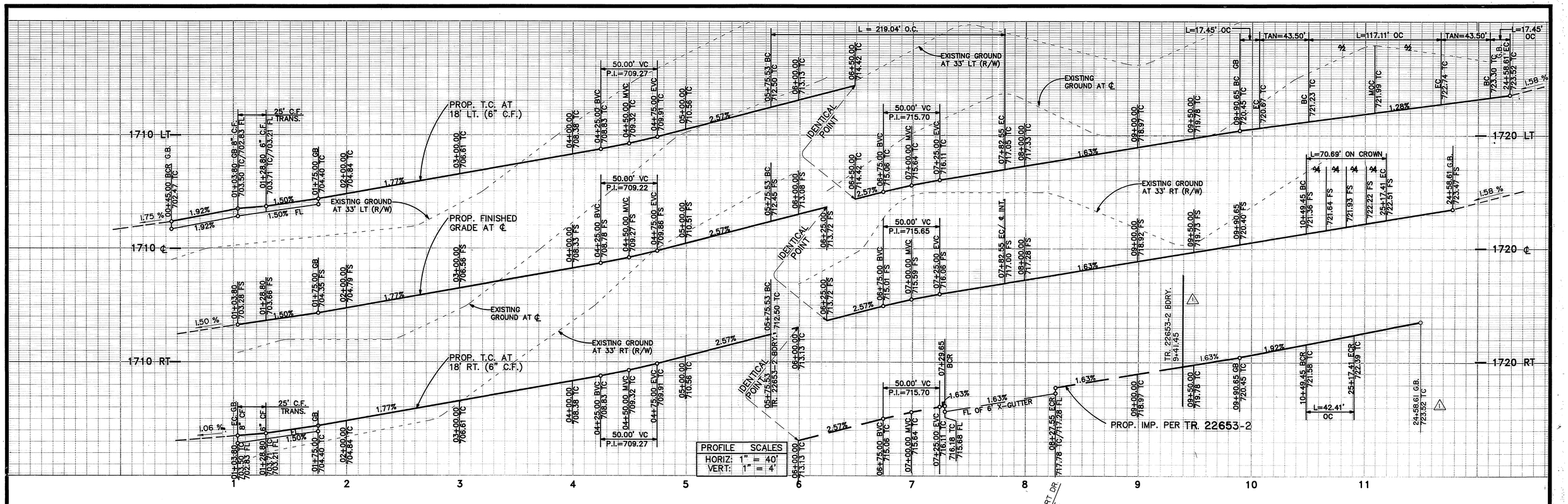
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

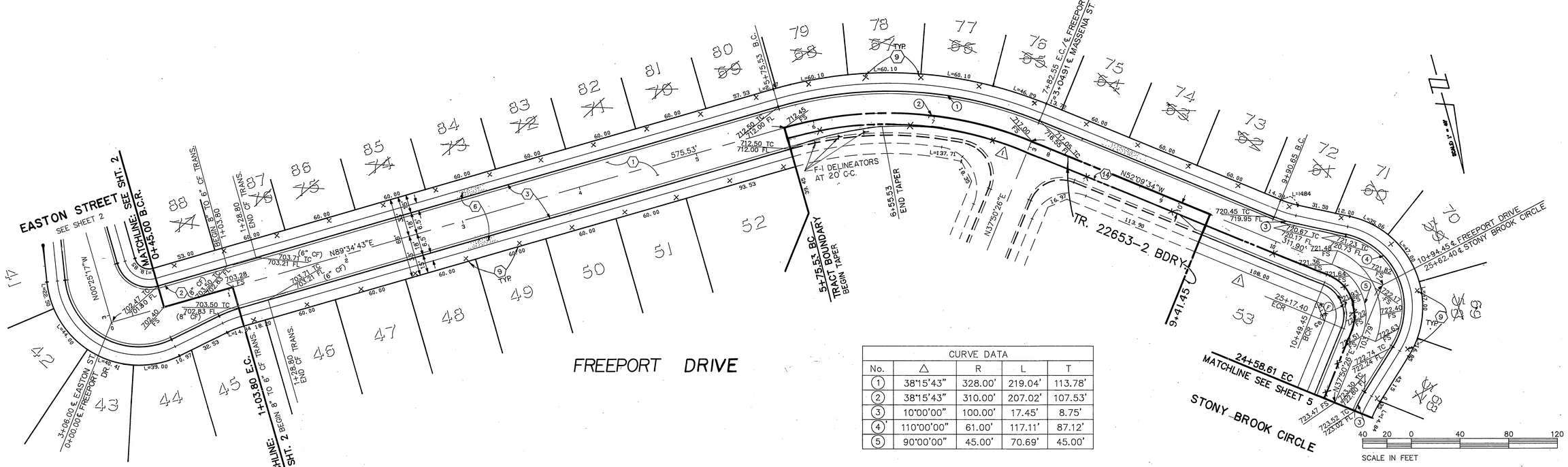
TRACT No. 22653-1
STREET PLAN & PROFILE
GOLDEN RAIN ROAD
STA. 8+06.84 TO STA. 18+77.41

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

PROJECT NO. R- 3120
SHEET 3 OF 10
FILE NO. 8911166

INDEXED 12-12-90 JH





CURVE DATA				
No.	Δ	R	L	T
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2	38°15'43"	310.00'	207.02'	107.53'
3	10°00'00"	100.00'	17.45'	8.75'
4	110°00'00"	61.00'	117.11'	87.12'
5	90°00'00"	45.00'	70.69'	45.00'

SEE SHEET NO. 1 FOR GENERAL & CONSTRUCTION NOTES.

PC 2896

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REGISTERED PROFESSIONAL ENGINEER JOHN W. CARTY No. 17550 Exp. 6/30/93 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 17750
EXPIRATION DATE 06-30-93 DATE: 6/5/89

APPROVED BY:

SCALE 1"=40'
DATE JUN 1989

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493 RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

BENCH MARK: V.B. 10-64 ELEV. = 1700.670 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM CL. INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	APPR.	DATE
1	REVISED PHASE B.DRY.LOT #'S & SHT. #'S		

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/8/90
PARK DEPARTMENT		11/09/90
TRAFFIC DIVISION		11/9/90
CHIEF P.W. ENGR.		11/16/90
		11/19/90

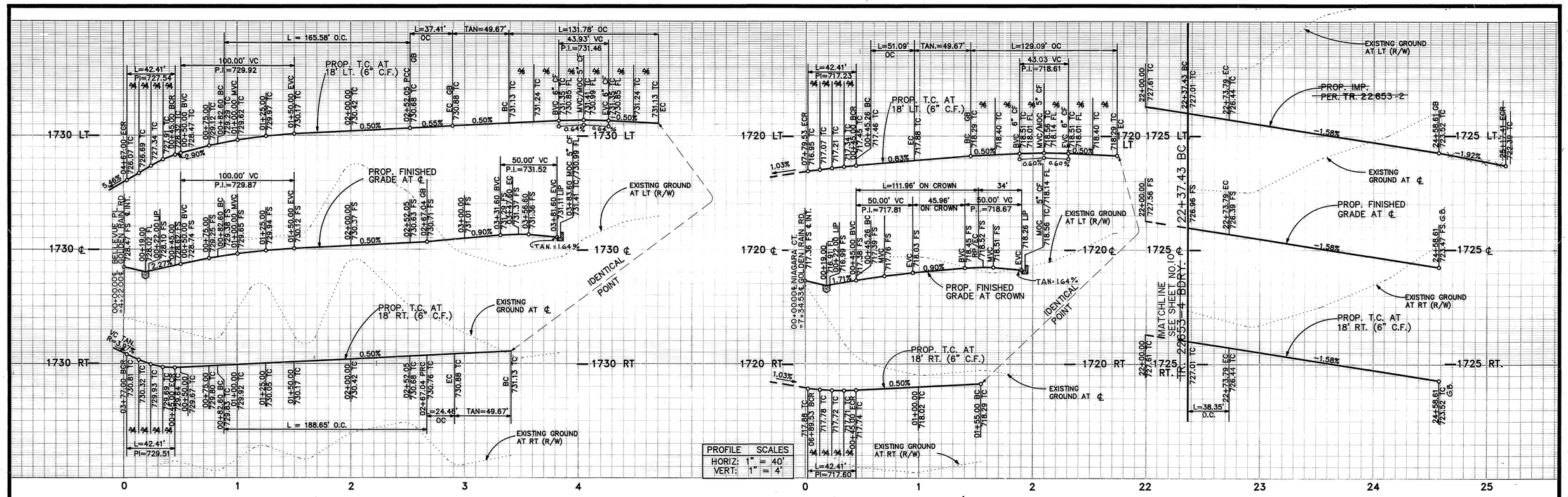
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

TRACT No. 22653-1
STREET PLAN & PROFILE
FREEPORT DRIVE
STA. 0+00.00 TO STA. 10+94.45

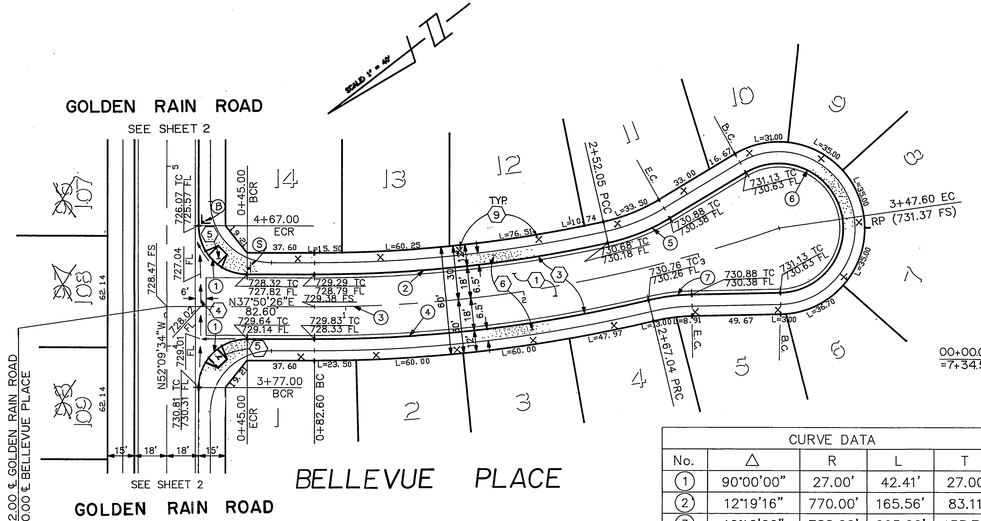
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

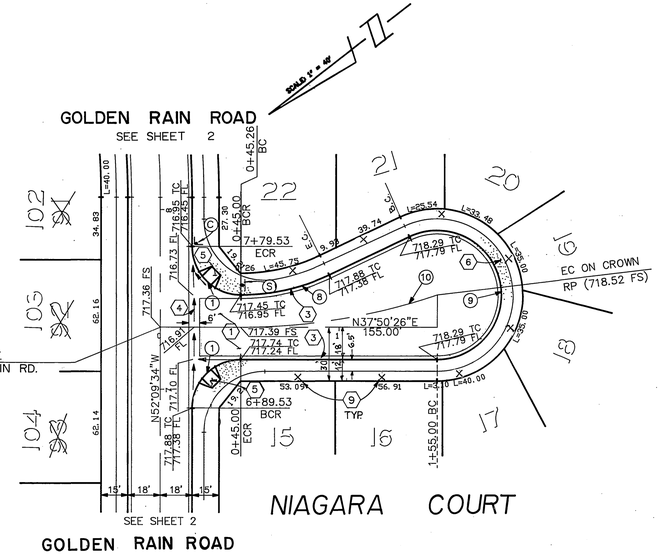
PROJECT NO. R-3120
SHEET 4 OF 10
FILE NO. 8911168

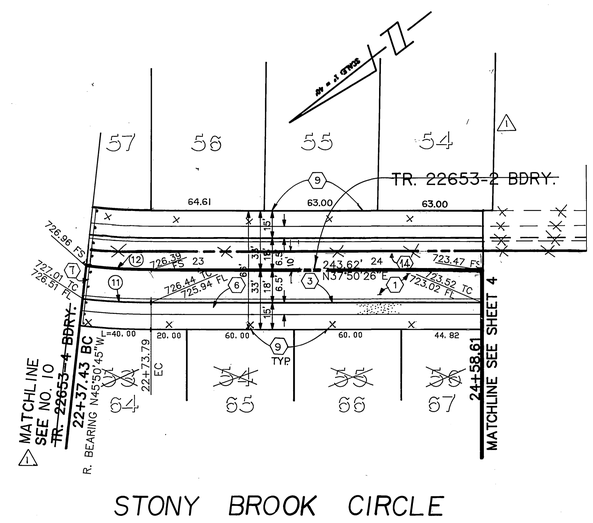
INDEXED 12-12-90



PROFILE SCALES
HORIZ: 1" = 40'
VERT: 1" = 4'







CURVE DATA				
No.	Δ	R	L	T
1	90°00'00"	27.00'	42.41'	27.00'
2	12°19'16"	770.00'	165.56'	83.11'
3	19°16'06"	788.00'	265.00'	133.76'
4	13°24'38"	806.00'	188.65'	94.76'
5	18°38'03"	115.00'	37.40'	18.87'
6	209°43'48"	36.00'	131.78'	–
7	12°11'07"	115.00'	24.46'	12.28'
8	25°27'07"	115.00'	51.09'	25.97'
9	205°27'07"	36.00'	129.09'	–
10	18°37'48"	343.52'	111.70'	56.35'
11	06°18'49"	348.00'	38.35'	19.19'
12	06°18'49"	330.00'	36.36'	18.20'

40 20 0 40 80 120
SCALE IN FEET

SEE SHEET NO. 1 FOR GENERAL & CONSTRUCTION NOTES.

PC 2896

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W. CANTY No. 17550 Exp. 6/30/93 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: John W. Canty
REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE 06-30-93 DATE: 6/15/89

APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493 RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE 1"=40'
DATE JUN 1989

BENCH MARK:
V.B. 10-64 ELEV. = 1700.670 DATE: 1971
BRASS DISK FLUSH & MARKED V.B. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM CL. INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	BY	APPR.	DATE
1	REVISED PHASE BDRY, LOT #'S & SHT. #'S			

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/9/90
PARK DEPARTMENT		11/10/90
TRAFFIC DIVISION		11/13/90
CHIEF P.W. ENGR.		11/14/90

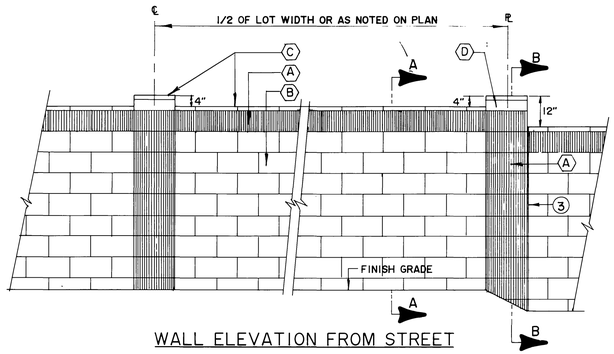
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

TRACT No. 22653-1
STREET PLAN & PROFILE
BELLEVUE PLACE
STA 0+00.00 TO STA. 3+83.60
NIAGARA COURT
STA. 0+00.00 TO STA. 1+92.95
STONY BROOK CIRCLE
STA. 22+37.43 TO STA. 24+58.61

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

PROJECT NO. R- 3120
SHEET 5 OF 10
FILE NO. 8911168

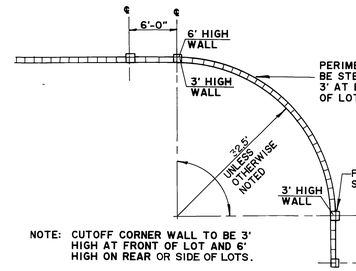
INDEXED 12-12-90 JH



WALL ELEVATION FROM STREET

WALL ELEVATION

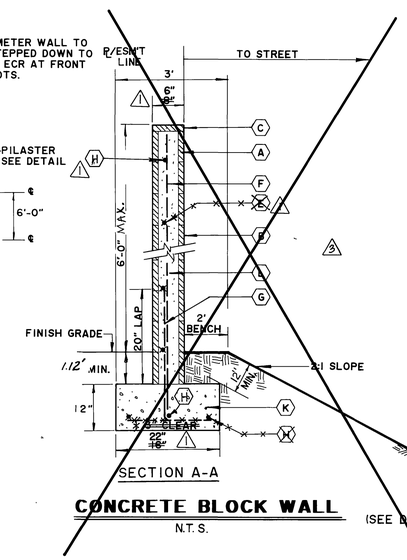
DETAIL "B"



NOTE: CUTOFF CORNER WALL TO BE 3' HIGH AT FRONT OF LOT AND 6' HIGH ON REAR OR SIDE OF LOTS.

CURVED WALL AT CORNER

DETAIL "A"

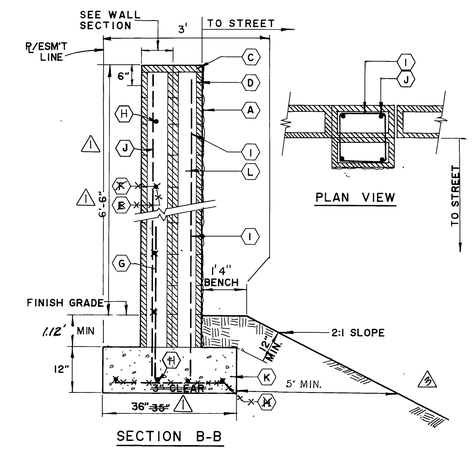


SECTION A-A

CONCRETE BLOCK WALL

N.T.S.

(SEE DETAIL "F")

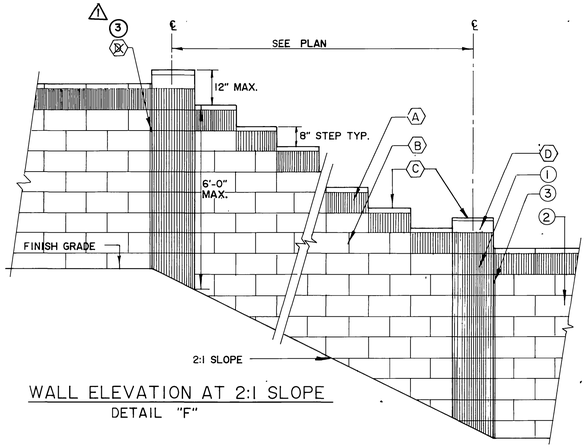


PLAN VIEW

SECTION B-B

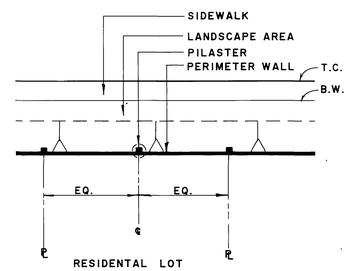
CONCRETE BLOCK PILASTER

N.T.S.



WALL ELEVATION AT 2:1 SLOPE

DETAIL "F"



WALL LAYOUT

DETAIL "C"

3 SEE SHEET 6A FOR WALL DETAILS

LEGEND:

- (A) 8"×~~8"~~ 6"×16" GRAY ORCO (MEDIUM WEIGHT) VERTICAL SCORED SPLIT FACE BLOCK.
- (B) 8"×~~8"~~ 6"×16" SPLIT FACE BLOCK GRAY ORCO (MEDIUM WEIGHT) WITH SCORED MORTAR JOINTS.
- (C) 2"×~~8"~~ 6"×16" CONC. PRECISION CAP (GRAY).
- (D) 4"×~~8"~~ 6"×16" CONC. PRECISION CAP (GRAY).
- ~~(E) NO. 4 HORIZONTAL REBAR AT 32" O.C.~~
- (F) NO. ~~4~~ 3 VERTICAL REBAR AT 24" O.C. (FOR 6' HIGH WALL)
- (G) NO. ~~4 "L"~~ 3 BAR AT 24" O.C. ~~"ALTERNATE BEND EACH BAR:~~ (FOR 6' WALL)
- (H) ~~(3)~~ NO. 4 REBAR CONT. PER CITY STANDARD
- (I) NO. 2 HORIZONTAL TIES AT 24" O.C.
- (J) (4) NO. 4 VERTICAL BAR AT PILASTER.
- (K) 3250 ~~2000~~ P.S.I. CONC. FOOTING.
- (L) SOLID ~~SOLID~~ GROUT ALL CELLS WHICH CONTAIN REINFORCEMENT STEEL

REVERSE FRONTAGE WALL DETAIL FOR ORANGE TERRACE PKWY. AND VAN BUREN BLVD.

LEGEND:

1. PILASTER SECTION, SEE SECTION "B-B"
2. PERIMETER WALL SECTION, SEE SECTION "A-A"
3. 1/4" WIDE VERTICAL JOINT TYPICAL AT PILASTER AT P.L.

Underground Service Alert

DIG ALERT

Call: TOLL FREE 1-800 422-4133

TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER — RICHARD MILAD FARAH — RCE 44521 EXP. 3/31/92 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Richard Farah

REGISTERED CIVIL ENGINEER NO. 44521

EXPIRATION DATE: [illegible] DATE: 10/15/90

APPROVED BY

SCALE: AS SHOWN

DATE: JUNE 1989

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082

73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK V.B. 10-64 ELEV. =1700.670 DATE 1971 BRASS DISC FLUSH & MARKED V.B. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM C.L. INT. OF VAN BUREN & WOOD RD., 205' N OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'X15'X18' BOULDER.

MARK	REVISIONS	APPR.	DATE
3	CHANGE TO PROTO II WALL ADDED SHEET 6A		9/7/91
2	REVISED SHT. #'S		8/14/91
1	REVISED FREESTANDING WALL DETAILS		7/9/91

DESIGNED BY B.M. DRAWN BY C.R.G. CHECKED BY J.D.S.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/6/90
PARK DEPARTMENT		5/10/90
TRAFFIC DIVISION	—	—
CHIEF P W ENGR		11/14/90
PLANNING		11/20/90

APPROVED BY: Gary Paul

DIRECTOR OF PUBLIC WORKS

DATE 11/20/90

TRACT 22653 - 1
STREET PLANS

WALL DETAILS

FOR: S.I.C.

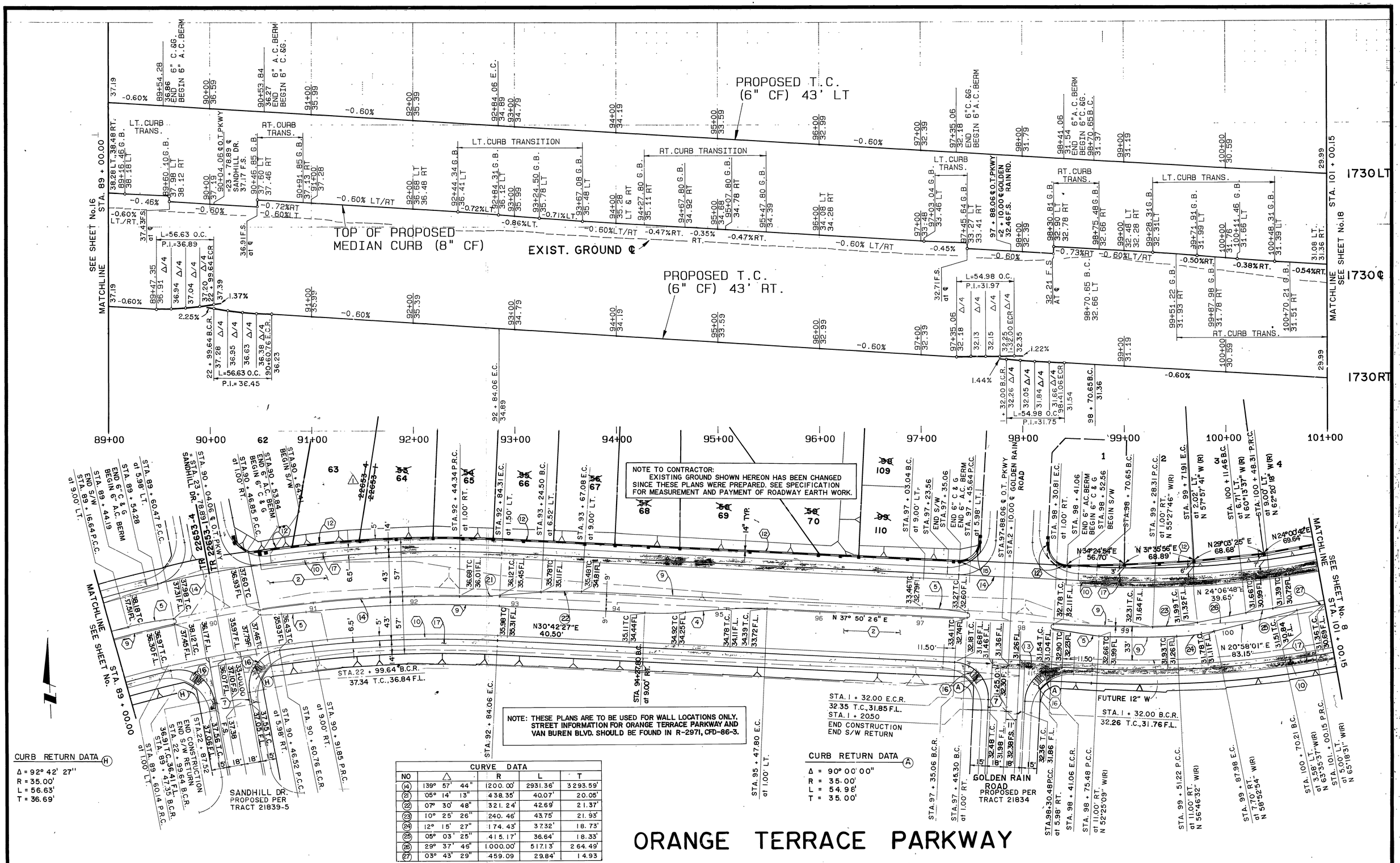
PROJECT NO. R-3120

SHEET 6 OF 8

FILE NO. 891 I 168.

P.C. 2820

INDEXED 12-12-90 JH



NO	Δ	R	L	T
14	139° 57' 44"	1200.00'	2931.36'	3293.59'
21	05° 14' 13"	438.35'	40.07'	20.05'
22	07° 30' 48"	321.24'	42.69'	21.37'
23	10° 25' 26"	240.46'	43.75'	21.93'
24	12° 15' 27"	174.43'	37.32'	18.73'
25	05° 03' 25"	415.17'	36.64'	18.33'
26	29° 37' 46"	1000.00'	517.13'	264.49'
27	03° 43' 29"	459.09	29.84'	14.93

Underground Service Alert
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422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOSE MILAD FARAH No. 44521 CIVIL STATE OF CALIFORNIA
RCE 44521 EXP. 3/31/92

PREPARED UNDER THE DIRECTION OF: Joe Farah
REGISTERED CIVIL ENGINEER NO. 44521
EXPIRATION DATE 3/31/92 DATE: 10/15/90
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493 ☐ RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D ☐ COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 ☐ PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE: 1" = 40'
DATE JUNE 1989
BENCH MARK: V.B. 10-64 ELEV. = 1700.670 DATE: 1971
BRASS DISK FLUSH & MARKED V.B. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM C.L. INT. OF VAN BUREN & WOOD RD. 205'N OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'X15'X18' BOULDER.

MARK	REVISIONS	BY	APPR.	DATE
1	REVISED PHASE BDRY, LOT #'S & SHT. #'S			

DESIGNED BY E.F. DRAWN BY T.F.E. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		10/15/90
TRAFFIC DIVISION		
CHIEF P.W. ENGR		11/14/90
PLANNING		

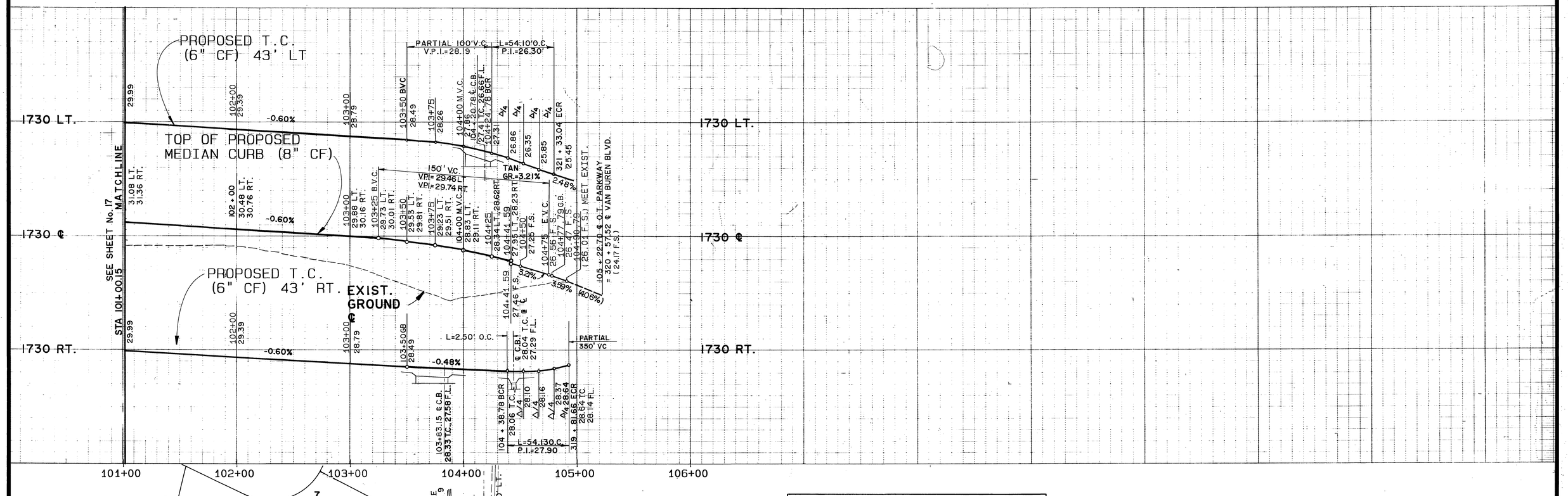
APPROVED BY: Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

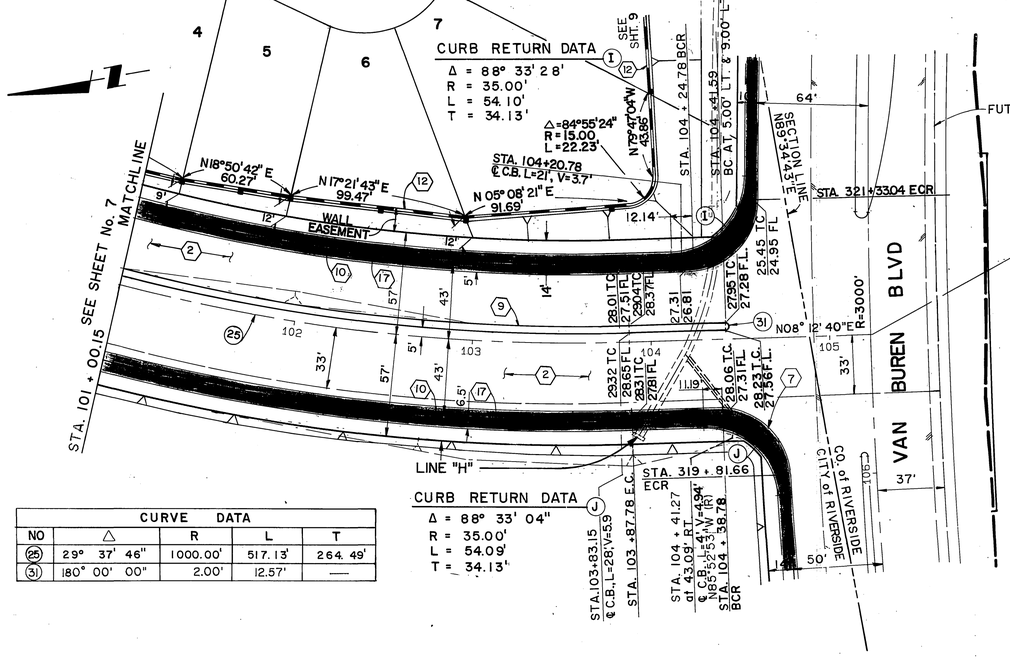
TRACT No. 22653-1
STREET PLAN
REVERSE FRONTAGE WALL

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

PROJECT NO. R-3120
SHEET 7 OF 9
FILE NO. 8911168

INDEXED 12-12-90





NOTE TO CONTRACTOR:
EXISTING GROUND SHOWN HEREON HAS BEEN CHANGED SINCE THESE PLANS WERE PREPARED. SEE SPECIFICATION FOR MEASUREMENT AND PAYMENT OF ROADWAY EARTH WORK.

NOTE: THESE PLANS ARE TO BE USED FOR WALL LOCATIONS ONLY, STREET INFORMATION FOR ORANGE TERRACE PARKWAY AND VAN BUREN BLVD. SHOULD BE FOUND IN R-2971, CFD-86-3.

CURVE DATA				
NO	Δ	R	L	T
25	29° 37' 46"	1000.00'	517.13'	264.49'
31	180° 00' 00"	2.00'	12.57'	—

ORANGE TERRACE PARKWAY

Underground Service Alert
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JOE MILAD FARAH RCE 47256 EXP. 3/31/92 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 47256
EXPIRATION DATE 3/31/92 DATE: 10/15/90
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE: 1"=40'
DATE: OCT. 1987

BENCH MARK: V.B. 10-64 ELEV.= 1700.670 DATE: 1971
BRASS DISK FLUSH & MARKED V.B. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM C.L. INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'X15'X18' BOULDER.

MARK	REVISIONS	APPR.	DATE
1	REVISED SHT. #'S		11/20/90

DESIGNED BY E.F. DRAWN BY T.F.E. CHECKED BY J.E.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/20/90
PARK DEPARTMENT		11/15/90
TRAFFIC DIVISION	—	—
CHIEF P W ENGR		11/20/90
PLANNING		11/20/90

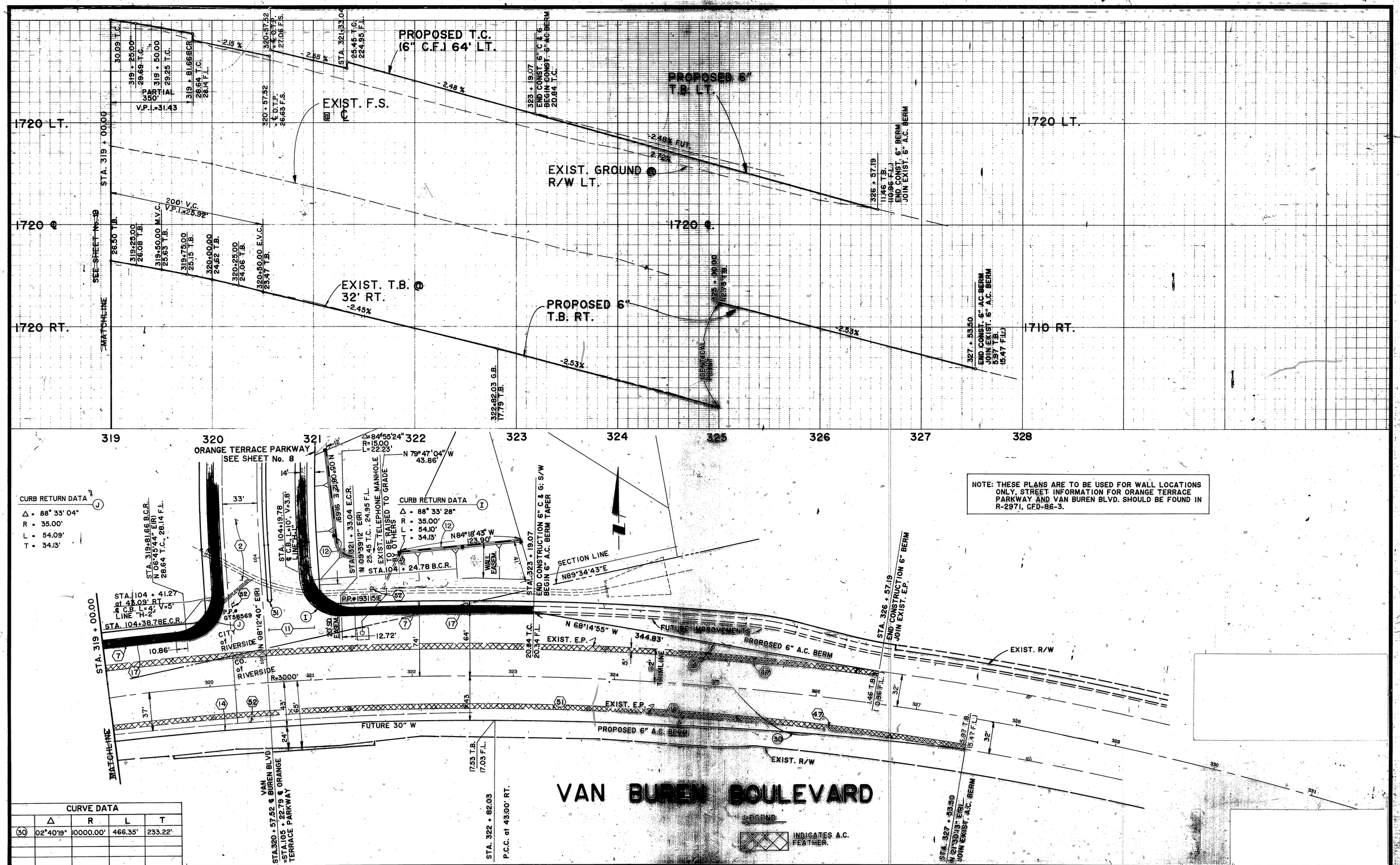
APPROVED BY:
DIRECTOR OF PUBLIC WORKS
DATE 11/20/90

TRACT No. 22653-1
STREET PLAN
REVERSE FRONTAGE WALL

HORIZ SCALE 1" = 40' VERT SCALE 1" = 4'

PROJECT NO R-3120
SHEET 8 OF 9
FILE NO 8911168

INDEXED 12-12-90



NOTE: THESE PLANS ARE TO BE USED FOR WALL LOCATIONS ONLY. STREET INFORMATION FOR ORANGE TERRACE PARKWAY AND VAN BUREN BLVD. SHOULD BE FOUND IN R-2971, CFD-86-3.

CURVE DATA				
	Δ	R	L	T
(30)	02°40'19"	10000.00'	466.35'	233.22'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER JOE MILAD FARAH No. 44521 Exp. 3/31/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Joe Farah
REGISTERED CIVIL ENGINEER NO. 44521
EXPIRATION DATE _____ DATE: 10/18/90
APPROVED BY:

J.F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS • SURVEYORS
P.O. BOX 493
(1) RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE.
(2) COLTON, CA 92324 (714) 825-1082

SCALE 1" = 40'
DATE JUNE 1989

BENCH MARK: V.B. 10-64 ELEV. = 1700.570 DATE: 1971 BRASS DISK FLUSH & MARKED V.B. 10-64 0.6 MILE EAST ON VAN BUREN BLVD. FROM CENTERLINE OF VAN BUREN & WOOD RD.; 205'N OF VAN BUREN & THE DIG SIDE OF GRANITE BOULDER ON TOP OF 3'X3'X18" BOULDER

MARK	REVISIONS	APPR.	DATE
1	REVISED SHT. #'S		

DESIGNED BY: C.F. DRAWN BY: C.D.F. CHECKED BY: J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER			
PARK DEPARTMENT			
TRAFFIC DIVISION			
STREET DIVISION			
PLANNING			

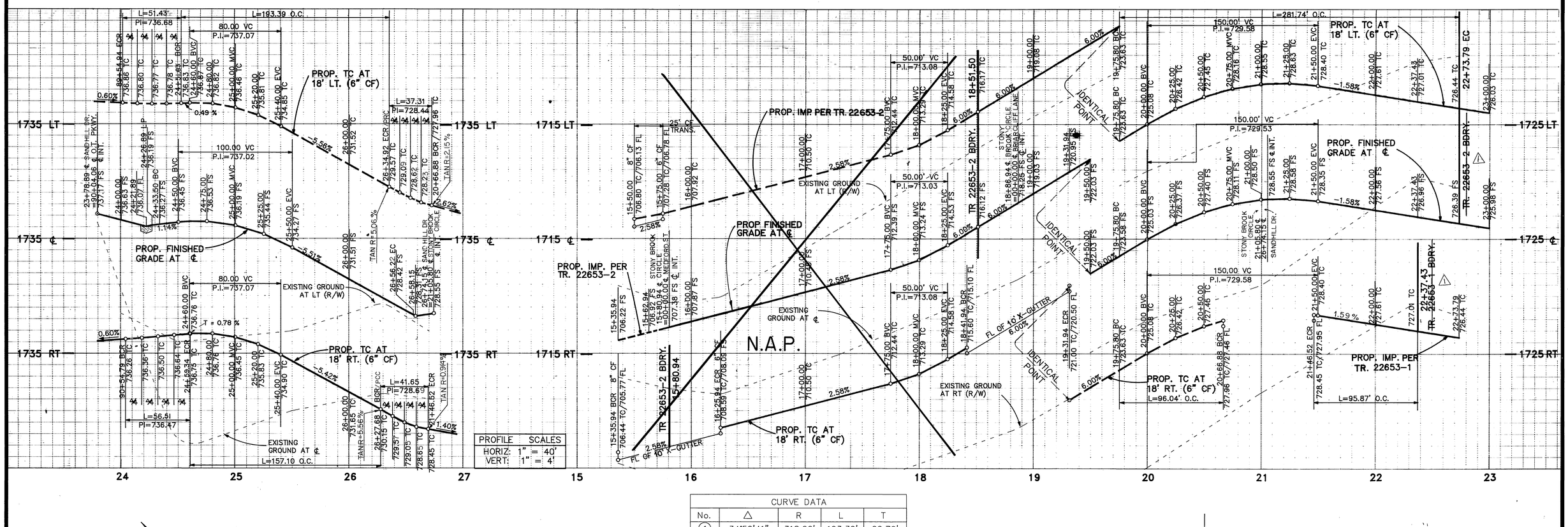
APPROVED BY: Gary Neil
DIRECTOR OF PUBLIC WORKS
DATE: 11/20/90

TRACT No. 22653-1
STREET PLAN
REVERSE FRONTAGE WALL

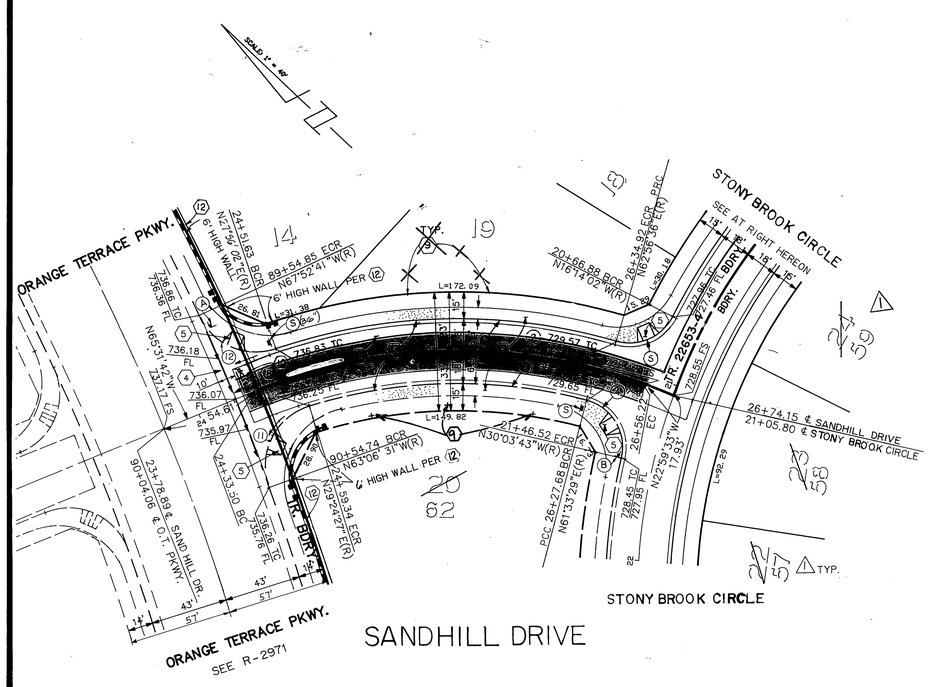
HORIZ. SCALE 1" = 40' VERT. SCALE 1" = 10'

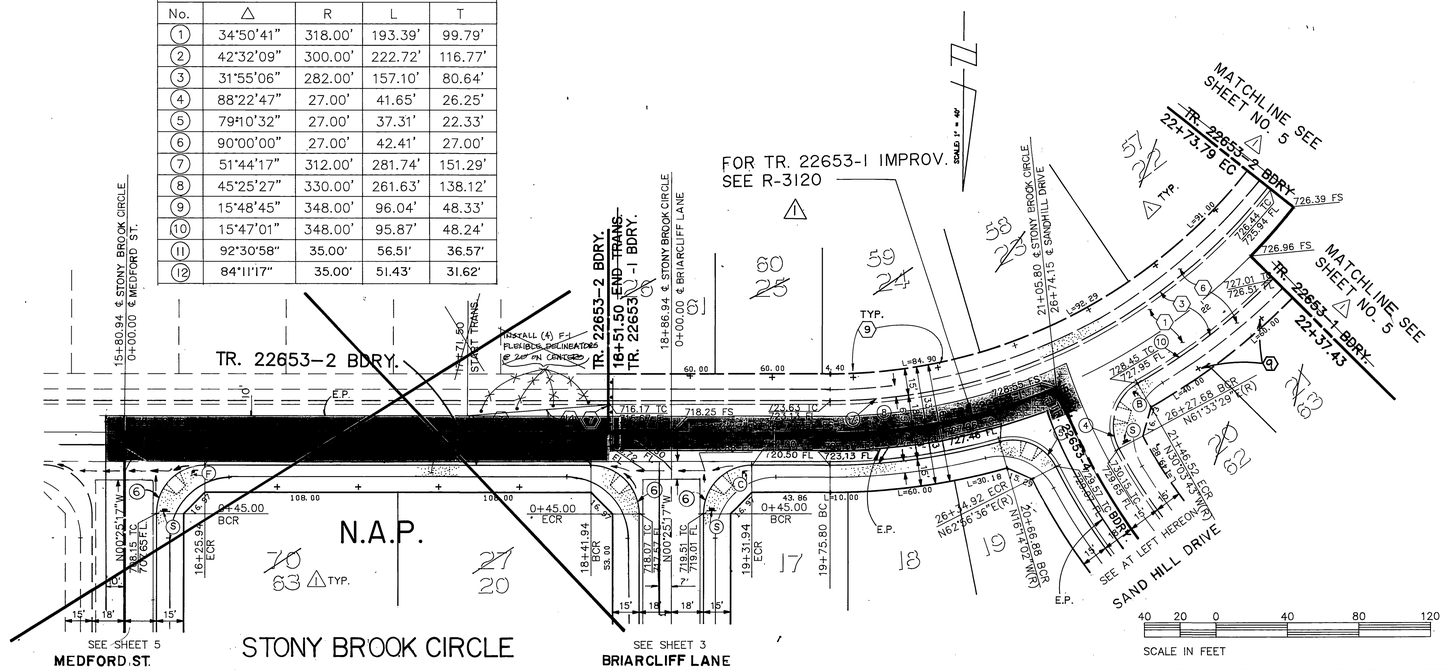
PROJECT NO. R-3120
SHEET 9 of 9
FILE NO. 891168

INDEXED 12-12-90 (H)



CURVE DATA				
No.	Δ	R	L	T
1	34°50'41"	318.00'	193.39'	99.79'
2	42°32'09"	300.00'	222.72'	116.77'
3	31°55'06"	282.00'	157.10'	80.64'
4	88°22'47"	27.00'	41.65'	26.25'
5	79°10'32"	27.00'	37.31'	22.33'
6	90°00'00"	27.00'	42.41'	27.00'
7	51°44'17"	312.00'	281.74'	151.29'
8	45°25'27"	330.00'	261.63'	138.12'
9	15°48'45"	348.00'	96.04'	48.33'
10	15°47'01"	348.00'	95.87'	48.24'
11	92°30'58"	35.00'	56.51'	36.57'
12	84°11'17"	35.00'	51.43'	31.62'





SEE SHEET NO. 1 FOR GENERAL & CONSTRUCTION NOTES.

PC 2910-S

Underground Service Alert
DIG BEFORE YOU DIG
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED CIVIL ENGINEER NO. 17550
EXPIRATION DATE 6/30/93 DATE: 6/15/89
APPROVED BY:

SCALE 1"=40'
DATE JUN 1989

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

BENCH MARK:
V.B. 10-64 ELEV. = 1700.670 DATE: 1971
BRASS DISK FLUSH & MARKED V.B. 10-64; 0.6 MI. E. ON VAN BUREN BLVD. FROM C.L. INT. OF VAN BUREN & WOOD RD., 205' N. OF VAN BUREN & THE N.E. SIDE OF GRANITE BOULDER, ON TOP OF 3'x15'x18' BOULDER.

MARK	REVISIONS	APPR.	DATE
1	REVISED PHASE BDRY., LOT #'S & SHT #'S		11/21/90

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY J.F.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		11/21/90
PARK DEPARTMENT		11/21/90
TRAFFIC DIVISION		11/21/90
CHIEF P. W. ENGR.		11/21/90
PLANNING		11/21/90

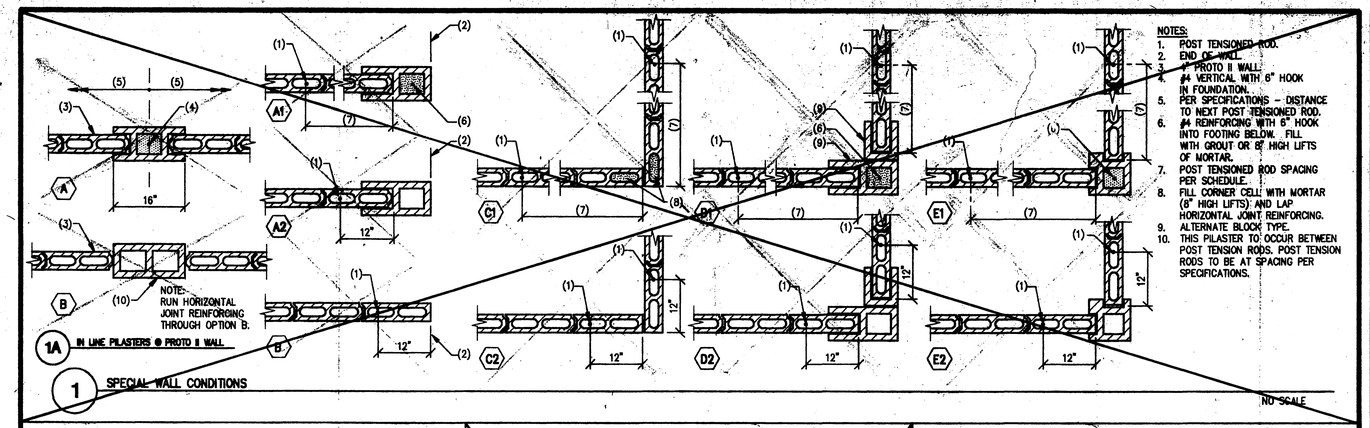
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 11/21/90

TRACT No. 22653-1
STREET PLAN & PROFILE
SANDHILL DRIVE
STA. 23+78.89 TO STA. 26+74.15
STONYBROOK CIRCLE
STA. 18+51.50 TO STA. 22+73.79

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

PROJECT NO. R-3170
SHEET 10 OF 10
FILE NO. 8911168

INDEXED 12-12-90

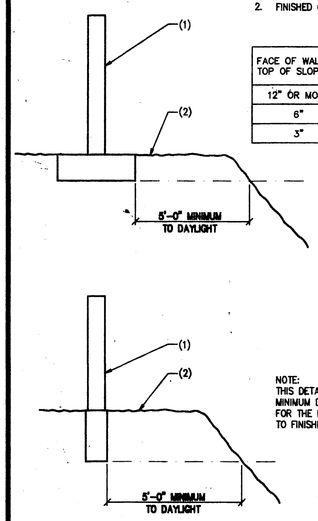


NOTES:
1. POST TENSIONED ROD.
2. END OF WALL.
3. 7" PROTO II WALL.
4. #4 VERTICAL WITH 6" HOOK IN FOUNDATION. PER SPECIFICATIONS – DISTANCE TO NEXT POST TENSIONED ROD.
5. #4 REINFORCING WITH 6" HOOK INTO FOOTING BELOW. FILL WITH GROUT OR 8" HIGH LIFTS OF MORTAR.
6. POST TENSIONED ROD SPACING PER SCHEDULE.
7. FILL CORNER CELL WITH MORTAR (8" HIGH LIFTS) AND LAP HORIZONTAL JOINT REINFORCING.
8. ALTERNATE BLOCK TYPE.
9. THIS PILASTER TO OCCUR BETWEEN POST TENSION RODS. POST TENSION RODS TO BE AT SPACING PER SPECIFICATIONS.

1A

1 SPECIAL WALL CONDITIONS

NO SCALE



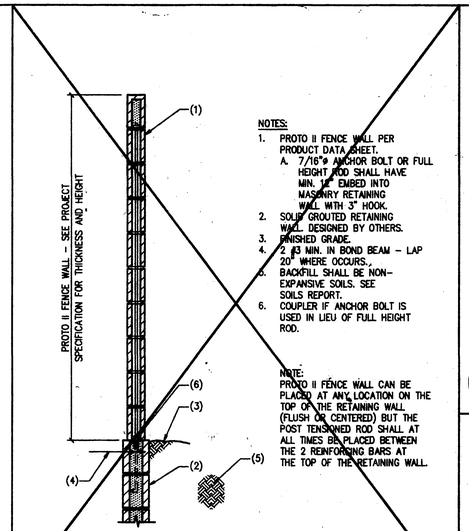
NOTES:
1. FENCE WALL – DETAIL NOT SHOWN FOR CLARITY.
2. FINISHED GRADE.

FACE OF WALL TO TOP OF SLOPE.	DEPTH OF DIP FOOTING OR PIER.
12" OR MORE	2'-4"
6"	2'-7"
3"	2'-9"

NOTE:
THIS DETAIL DESCRIBES THE MINIMUM DISTANCE REQUIREMENTS FOR THE LOWEST FOOTING EDGE TO FINISHED GRADE.

9 5'-0" TO DAYLIGHT DETAIL

NO SCALE

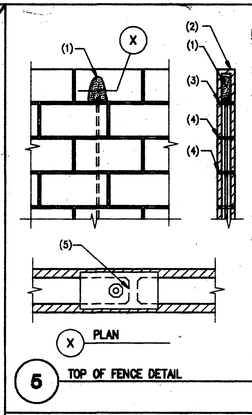


NOTES:
1. PROTO II FENCE WALL PER PRODUCT DATA SHEET.
   A. 7/16"ø ANCHOR BOLT OR FULL HEIGHT ROD SHALL HAVE MIN. 12" EMBED INTO MASONRY RETAINING WALL WITH 3" HOOK.
2. SOLID GROUTED RETAINING WALL DESIGNED BY OTHERS.
3. FINISHED GRADE.
4. 2 #3 MIN. IN BOND BEAM – LAP 20" WHERE OCCURS.
5. BACKFILL SHALL BE NON-EXPANSIVE SOILS. SEE SOILS REPORT.
6. COUPLER IF ANCHOR BOLT IS USED IN LIEU OF FULL HEIGHT ROD.

NOTE:
PROTO II FENCE WALL CAN BE PLACED AT ANY LOCATION ON THE TOP OF THE RETAINING WALL (FLUSH OR CENTERED) BUT THE POST TENSIONED ROD SHALL AT ALL TIMES BE PLACED BETWEEN THE 2 REINFORCING BARS AT THE TOP OF THE RETAINING WALL.

7 PROTO II WALL CONNECTION TO TOP OF CONVENTIONAL MASONRY RETAINING WALL

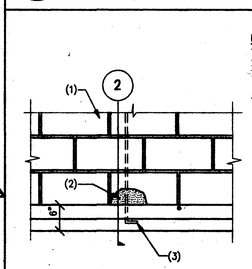
NO SCALE



NOTES:
1. FILL CAP BLOCK WITH MORTAR. IMMEDIATELY "FLIP" ONTO ROD.
2. CAP BLOCK OF SUFFICIENT SIZE TO COVER PLATE AND ROD.
3. STEEL PLATE SIZES:
   A. 4" PROTO II: 1/4" x 3" x 6"
   B. 6" PROTO II: 1/4" x 4 1/2" x 6"
   C. 6" SLUMP PROTO II: 1/4" x 4" x 6"
   D. 8" PROTO II: 1/4" x 6 1/2" x 8"
   STEEL PLATES TO BE PLACED AT THE EDGE OF THE CELL SO THAT THE PLATE BEARS FULLY ON THREE SIDES EXCEPT AT 8" PROTO II WHERE THE STEEL PLATE SHOULD BEAR ON ALL FOUR SIDES.
4. CONTINUOUS HORIZONTAL JOINT REINFORCING PER NOTE #14.
5. CENTER WEB BELOW.

5 TOP OF FENCE DETAIL

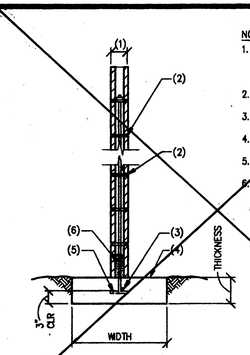
NO. SCALE



NOTES:
1. MASONRY WALL.
2. 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD FOR CORROSION PROTECTION.
3. 7/16"ø FULL HEIGHT POST TENSIONED RODS WITH 3" HOOKS. ROLL THREADS AT TOP FOR NUT ATTACHMENT.

6 FOOTING ELEVATION AT POST TENSIONED ROD

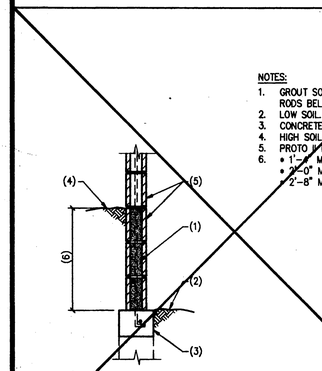
NO SCALE



NOTES:
1. 4" NOMINAL (3 5/8" ACTUAL) OR 6" NOMINAL (5 5/8" ACTUAL) OR 8" NOMINAL (7 5/8" ACTUAL) MASONRY.
2. HORIZONTAL JOINT REINFORCING – SEE NOTE #14.
3. #4 CONT. AT 4" & 6" PROTO II #5 CONT. AT 8" PROTO II
4. SPREAD FOOTING – SEE SCHEDULE.
5. ALTERNATE HOOKS OF POST TENSION RODS.
6. 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD FOR CORROSION PROTECTION.

2 TYPICAL WALL SECTION AT SPREAD FOOTING

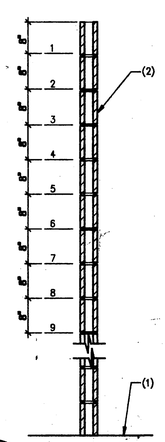
NO SCALE



NOTES:
1. GROUT SOLID AT POST-TENSION RODS BELOW GRADE.
2. LOW SOIL.
3. CONCRETE FOOTING.
4. HIGH SOIL.
5. PROTO II FENCE WALL.
6. • 1'-4" MAX. AT 4" PROTO II.
   • 2'-0" MAX. AT 6" PROTO II.
   • 2'-8" MAX AT 8" PROTO II.

10 DETAIL AT SOIL RETAINAGE

NO SCALE

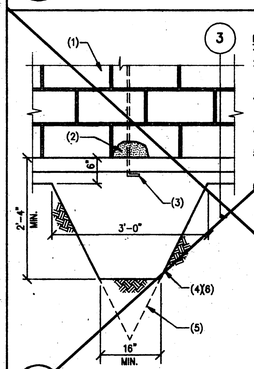


NOTES:
1. TOP OF FOOTING.
2. PROTO II WALL – VERTICAL POST TENSIONED ROD NOT SHOWN FOR CLARITY.
3. 8" HIGH COURSES ARE SHOWN IN DETAIL. OTHER BLOCK SIZES MAY BE USED AS REQUIRED BY THE FENCE WALL DESIGN.

HORIZONTAL JOINT REINFORCING (REF. GENERAL NOTE #14).
1. HORIZONTAL JOINT REINFORCING SHALL BE PLACED AT THE MORTAR JOINTS #2 & #3 BELOW THE PLATE WASHER AND 2'-0" O.C. THEREAFTER UNTIL THE TOP OF FOOTING IS REACHED. (e.g. A NOMINAL 6'-0" HIGH WALL WOULD HAVE JOINT REINFORCING IN AT TOTAL OF THREE COURSES).

8 HORIZONTAL JOINT REINFORCING

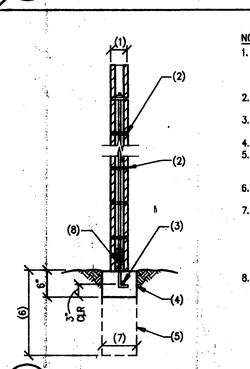
NO SCALE



NOTES:
1. MASONRY WALL.
2. 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD FOR CORROSION PROTECTION.
3. 7/16"ø FULL HEIGHT POST TENSIONED RODS WITH 3" HOOKS. ROLL THREADS AT TOP FOR NUT ATTACHMENT.
4. CONCRETE FOOTING – NO COLD JOINTS PERMITTED.
5. TRENCH MAY BE OVEREXCAVATED AS SHOWN – FILL WITH COMPACTED FILL.
6. 13"ø x 3'-6" DEEP CIRCULAR PIER FOOTING MAY BE USED IN LIEU OF DIP FOOTING. SPACING TO REMAIN THE SAME.

4 DIP FOOTING PROFILE

NO SCALE



NOTES:
1. 4" NOMINAL (3 5/8" ACTUAL) OR 6" NOMINAL (5 5/8" ACTUAL) OR 8" NOMINAL (7 5/8" ACTUAL) MASONRY.
2. HORIZONTAL JOINT REINFORCING – SEE NOTE #14.
3. #4 CONTINUOUS AT 4" & 6" PROTO II #5 CONTINUOUS AT 8" PROTO II.
4. CONCRETE SETTING PAD.
5. DASHED LINE INDICATES LINE OF DIP FOOTING OR LINE OF CONTINUOUS TRENCH FOOTING.
6. DEPTH OF CONTINUOUS TRENCH FOOTING.
7. • 8" AT 4" AND 6" PROTO II.
   • 8" TO 12" AT 8" PROTO II – SEE SCHEDULE.
   • MINIMUM 10" WIDE X 6" DEEP FLANGE REQUIRED AT 8" PROTO II WALLS ON 6" WIDE TRENCH.
8. 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD FOR CORROSION PROTECTION.

3 TYPICAL WALL SECTION AT DIP FOOTING AND TRENCH FOOTING

NO SCALE

GENERAL NOTES

1. WALL IS DESIGNED FOR WIND FORCES AS REQUIRED BY THE LOCAL JURISDICTION BUILDING OFFICIALS SEE SCHEDULE FOR WIND FORCE, POST TENSIONED ROD SPACING, FOOTING SIZE ETC.
2. THESE DESIGNS ARE NOT TO BE USED FOR RETAINING EARTH ABOVE 1'-4" FOR 4" PROTO II, AND 2'-0" FOR 6" PROTO II AND 2'-8" FOR 8" PROTO II AS MEASURED FROM LOW SOIL TO HIGH SOIL.
3. FOOTINGS SHOULD BE LEVEL, OF IF GROUND SLOPES, USE STEP FOOTINGS. EACH STEP SHOULD BE A HEIGHT TO FIT MASONRY SYSTEM. ALL EXCAVATIONS SHOULD BE CLEAN AND CONTAIN NO LOOSE EARTH OR FOREIGN MATTER.
4. SOIL SHALL BE COMPACTED AND HAVE A MINIMUM BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT AND A LATERAL CAPACITY OF 200 POUNDS PER SQUARE FOOT PER FOOT OF DEPTH.
5. SOIL SHALL BE WELL DRAINED FOR FOOTINGS AND FOUNDATIONS, USE CONCRETE WITH A MINIMUM STRENGTH OF 2,000 PSI – TYPE II MINIMUM OF 48 HOURS OLD PRIOR TO TENSIONING.
6. LAP REINFORCING STEEL 40 BARS DIAMETERS (LAP = 20" FOR #4 BARS 25" FOR #5 BARS).
7. CONCRETE MASONRY UNITS SHALL BE 2,000 PSI MINIMUM AND 7 DAYS OLD PRIOR TO TENSIONING.
8. MORTAR SHALL BE TYPE S, 2000 PSI MINIMUM. MORTAR MAY BE USED AS GROUT IN 8" HIGH LIFTS.
9. FIRST COURSE MAY BE SET IN FRESH CONCRETE FOOTING.
10. HEAD JOINTS MAY BE OMITTED IN FIRST COURSE FOR WEEP HOLES.
11. REINFORCING RODS SHALL CONFORM TO ASTM A615 Fy = 40,000 PSI.
12. POST TENSIONING RODS AND ANCHORS SHALL BE 7/16" DIAMETER WITH 1/2" DIAMETER ROLL THREADS OR 1/2" DIAMETER WITH 1/2" DIAMETER CUT THREADS. RODS SHALL CONFORM TO AISI C1008, Fy = 60,000 PSI AREA EQUALS .1503 SQUARE INCHES.
13. LAP HORIZONTAL JOINT REINFORCING 6" OR ONE CROSS WIRE PLUS AN INCH.
14. HORIZONTAL JOINT REINFORCING SHALL BE PLACED PER DETAIL 8. HORIZONTAL JOINT REINFORCING SHALL BE GAGE DIAMETER, LADDER OR TRUSS TYPE, AND CONFORM TO ASTM A82. LAP JOINT REINFORCING ONE FULL SQUARE.
15. IN LIEU OF FULL HEIGHT RODS. CONTRACTOR MAY USE ANCHOR BOLTS AND COUPLERS. 3" HOOK REQUIRED AT END OF ANCHOR BOLT IN FOOTING.
16. POST TENSIONED RODS SHALL BE TENSIONED TO **6,000** POUNDS USING A CALIBRATED TORQUE WRENCH OR OTHER APPROPIATE MEANS.
17. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT 36'-0" MAX. CONTROL JOINTS SHALL BE PLACED BETWEEN POST TENSIONED RODS SUCH THAT RODS ARE WITHIN 4'-6" MAX. OR CONTROL JOINT. MASONRY BLOCKS MAY INTRTLOCK AT JOINT (MORTAR MAY BE OMITTED). HORIZONTAL JOINT REINFORCING MAY BE INTERRUPTED AT CONTROL JOINTS.
18. ALL STEEL THREADS AND NUTS SHALL BE APPROPRIATELY LUBRICATED AND FREE OF RUST.
19. RODS AND/OR ANCHOR BOLTS MAY BE STABBED INTO WET CONCRETE OR TIED IN PLACE AT CONTRACTORS OPTION.

~~20. THE FENCE WALL MAY SLOPE WITH THE GRADE AT THE CONTRACTOR'S OPTION (i.e. THE TOP OF WALL IS NOT LEVEL – BUT INSTEAD FOLLOWS THE GRADE SLOPE). MAXIMUM SLOPE EQUALS 5% CONFIRM ACCEPTABILITY OF DESIGN WITH OWNER.~~

PROTO II FENCE WALL SCHEDULE – CALIFORNIA

EXPLANATION OF WIND LOAD DESIGNATIONS:

DIP FOOTING DESIGN INCLUDES 8" SCHEDULE

WIND LOADS ARE CALCULATED AS FOLLOWS:

p = Ce x Cq x qs x I
p = WIND FORCE IN POUNDS PER SQUARE FOOT (PSF)
Ce = EXPOSURE FACTOR, SEE U.B.C. TABLE 23G
Cq = PRESSURE COEFFICIENT FOR STRUCTURE – SEE U.B.C. TABLE 23H (FOR WALL ELEMENTS Cq = 1.3)
qs = WIND STAGNATION PRESSURE, SEE U.B.C. TABLE 23F AND U.B.C. SECTION 2320
I = IMPORTANCE FACTOR PER U.B.C. TABLE 2406 (FOR FENCES I = 1.0)

EXAMPLE: EXP. C @ 70 MPH REFERS TO EXPOSURE C WITH qs = 70 MPH
p = 1.06 x 1.3 x (.75 x 12.6) x 1.0 = 13.8 PSF
(SEE UBC SECTION 2320)
ABOVE 12'-0" p = 1.06 x 1.3 x 12.6 x 1.0 = 17.4 PSF

PER 1991 UBC

WIND FORCE	WALL HEIGHT	4" PROTO II POST TENSION ROD SPACING	6" PROTO II POST TENSION ROD SPACING	8" PROTO II POST TENSION ROD SPACING	DIP FOOTING SPACING, SEE DETAIL 4 FOR DIP FOOTING PROFILE, SEE DETAIL 3 FOR SECTION	CONTINUOUS TRENCH FOOTING. SEE DETAIL 3 FOR SECTION.	SPREAD FOOTINGS THICKNESS BY WIDTH (INCHES) SEE DETAIL 2 FOR SECTION.
8.4 PSF 70 MPH EXP B	3'-4"	12'-0"	12'-0"	16'-0"	16'-0"	8" x 13"	6 X 13
	4'-0"	12'-0"	12'-0"	16'-0"	16'-0"	8" x 14"	6 X 16
	4'-8"	11'-4"	12'-0"	16'-0"	16'-0"	8" x 15"	6 X 18
	5'-4"	9'-4"	10'-0"	10'-0"	14'-0"	8" x 17"	6 X 20
	6'-0"	6'-0"	8'-0"	8'-0"	11'-0"	8" x 18"	6 X 22
	6'-8"	5'-4"	6'-0"	8'-0"	9'-0"	8" x 19"	6 X 24
	7'-4"	–	7'-4"	8'-0"	7'-4"	8" x 20"	6 X 27
	8'-0"	–	6'-0"	8'-0"	6'-0"	8" x 21"	6 X 29
	8'-8"	–	4'-8"	6'-0"	–	8" x 22"	6 X 31
	9'-4"	–	4'-0"	4'-8"	–	8" x 23"	7 X 32
	10'-0"	–	3'-4"	4'-0"	–	8" x 24"	7 X 34
	10'-8"	–	–	3'-4"	–	8" x 25"	8 X 35
	11'-4"	–	–	3'-4"	–	8" x 26"	8 X 37
	12'-0"	–	–	2'-8"	–	8" x 27"	9 X 38
10.2 PSF ABOVE 12'-0"	12'-8"	–	–	2'-0"	–	10" x 31"	11 X 39
	13'-4"	–	–	2'-0"	–	10" x 32"	11 X 41
8.8 PSF 75 MPH EXP B	3'-4"	12'-0"	12'-0"	16'-0"	16'-0"	8" x 13"	6 X 14
	4'-0"	12'-0"	12'-0"	16'-0"	16'-0"	8" x 14"	6 X 17
	4'-8"	10'-8"	12'-0"	16'-0"	16'-0"	8" x 16"	6 X 19
	5'-4"	8'-0"	10'-0"	10'-0"	13'-0"	8" x 17"	6 X 21
	6'-0"	6'-0"	8'-0"	8'-0"	10'-0"	8" x 18"	6 X 24
	6'-8"	4'-8"	8'-0"	8'-0"	8'-0"	8" x 20"	6 X 26
	7'-4"	–	6'-8"	8'-0"	6'-8"	8" x 21"	6 X 28
	8'-0"	–	5'-4"	7'-4"	5'-8"	8" x 22"	6 X 31
	8'-8"	–	4'-8"	5'-4"	–	8" x 24"	6 X 33
	9'-4"	–	4'-0"	4'-8"	–	8" x 24"	7 X 34
	10'-0"	–	3'-4"	4'-0"	–	8" x 25"	7 X 36
13.8 PSF 70 MPH EXP C	3'-4"	12'-0"	12'-0"	16'-0"	16'-0"	8" x 15"	6 X 19
	4'-0"	8'-8"	12'-0"	16'-0"	14'-8"	8" x 17"	6 X 22
	4'-8"	6'-8"	10'-8"	13'-4"	10'-8"	8" x 19"	6 X 25
	5'-4"	4'-8"	8'-0"	10'-0"	8'-4"	8" x 20"	6 X 28
	6'-0"	3'-4"	6'-0"	8'-0"	6'-8"	8" x 22"	6 X 32
	6'-8"	2'-8"	4'-8"	6'-8"	5'-4"	8" x 23"	6 X 35
	7'-4"	–	4'-0"	4'-8"	4'-4"	8" x 25"	7 X 36
	8'-0"	–	3'-4"	4'-0"	3'-8"	8" x 26"	8 X 38
	8'-8"	–	2'-8"	3'-4"	–	8" x 27"	8 X 41
	9'-4"	–	2'-0"	2'-8"	–	8" x 28"	9 X 42
	10'-0"	–	2'-0"	2'-0"	–	8" x 30"	9 X 45
	10'-8"	–	–	2'-0"	–	10" x 31"	10 X 46
	11'-4"	–	–	1'-4"	–	10" x 32"	11 X 47
	12'-0"	–	–	1'-4"	–	10" x 33"	11 X 50
	12'-8"	–	–	1'-4"	–	12" x 37"	14 X 50
17.4 PSF ABOVE 12'-0"	13'-4"	–	–	0'-8"	–	12" x 39"	14 X 52
16.9 PSF 80 MPH EXP C	3'-4"	10'-8"	12'-0"	16'-0"	16'-0"	8" x 16"	7 X 21
	4'-0"	7'-4"	11'-4"	15'-4"	12'-0"	8" x 18"	7 X 24
	4'-8"	5'-4"	8'-8"	11'-4"	8'-8"	8" x 20"	7 X 28
	5'-4"	3'-4"	6'-8"	8'-0"	6'-8"	8" x 22"	7 X 31
	6'-0"	2'-8"	4'-8"	6'-8"	5'-4"	8" x 23"	7 X 34
	6'-8"	2'-0"	4'-0"	4'-8"	4'-4"	8" x 25"	7 X 38
	7'-4"	–	3'-4"	4'-0"	3'-8"	8" x 26"	8 X 39
	8'-0"	–	2'-8"	2'-8"	3'-0"	8" x 28"	8 X 43
	8'-8"	–	2'-0"	2'-8"	–	8" x 29"	9 X 44
	9'-4"	–	1'-4"	2'-0"	–	8" x 31"	10 X 46
	10'-0"	–	1'-4"	2'-0"	–	10" x 32"	11 X 49

NOTES:
1. FOOTING DESIGN ALLOWABLES: 1000 PSF BEARING, 200 PSF/FT LATERAL.
2. MAXIMUM HEIGHT FOR 4" PROTO II = 6'-8": MAX. HEIGHT FOR 6" PROTO II = 10'-0". MAX. HEIGHT FOR 8" PROTO II = 13'-4" COMBINATION WALLS MAY BE USED.
3. MAXIMUM DIP FOOTING SPACING = 16'-0": MINIMUM SPACING = 3'-4". TOLERANCE IS 12"± BUT THE NUMBER OF DIP FOOTINGS MUST REMAIN THE SAME FOR A GIVEN LENGTH OF WALL.
4. POST TENSION ROD IS INDEPENDENT OF FOOTING SPACING.
5. POST TENSION ROD SPACING TOLERANCE IS ±8" BUT THE NUMBER OF RODS FOR A GIVEN LENGTH OF WALL MUST REMAIN THE SAME.
6. 13"ø x 3'-6" DEEP CIRCULAR PIER FOOTING MAY BE USED IN LIEU OF DIP FOOTING. SPACING TO REMAIN THE SAME.

TRACT NO. 22653-1
STREET PLANS
WALL DETAILS

PROJECT NO. R-3120
SHEET 6A OF 10
HORIZ. SCALE: 1" VERT. SCALE: 1"
FILE NO.

CITY OF RIVERSIDE CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		9/7/95
PARK DEPARTMENT		9-6-95
TRAFFIC DIVISION	—	—
CHIEF P.W. ENGR.		9/14/95
PLANNING		9-7-95

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 9/15/95

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REGISTERED PROFESSIONAL ENGINEER
PAUL G. SCOTT
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EXP. 12/95
4-14-95
STRUCTURAL
STATE OF CALIFORNIA

PROTO II FENCE WALL

*PROTO-II™
4" & 6" THICK
POST-TENSIONED MASONRY WALLS

PATENTED * PTCALB REVISED 6-15-94

JOB NUMBER: 86-286
DRAWN: MSW
CHECKED: PGS
SCALE: AS NOTED
DATE: 6-1-93
SHEET: 1 OF 1