

CONSTRUCTION PLANS FOR THE
REDEVELOPMENT AGENCY
 OF THE
CITY OF SIGNAL HILL
GUNDRY AVENUE
 WILLOW STREET TO 27TH STREET

PROJECT NO. 343



ON PROJECTS FINANCED BY REDEVELOPMENT AGENCY FUNDS ONLY

ON ALL PROJECTS

ON DEVELOPER FINANCED PROJECTS ONLY

ON PROJECTS FINANCED BY REDEVELOPMENT AGENCY FUNDS ONLY

GENERAL NOTES

1. SEE CITY OF SIGNAL HILL STANDARD PLAN NO. 122 AND STANDARD PLAN NO. 400 FOR ALL GENERAL NOTES.

PAVING NOTES

- AGGREGATE BASE SHALL BE CRUSHED AGGREGATE BASE ONLY, AS SPECIFIED IN SECTION 200-2 OF THE STANDARD SPECIFICATIONS. PLACEMENT SHALL BE AS SPECIFIED IN SECTION 301-2 OF THE STANDARD SPECIFICATIONS AND AT THE DEPTH AND LOCATIONS SHOWN ON THE PLANS.
- A TACK COAT SHALL BE APPLIED TO ALL CONTACT SURFACES, INCLUDING ALL AREAS COLD PLANNED OR SAWCUT, AND BETWEEN SUCCESSIVE COURSES AT A RATE OF 0.05 GALLON PER SQUARE YARD. TACK COAT SHALL BE AR-1000 PAVING ASPHALT.
- REMOVE ALL ABANDONED PIPE LINES AND RELOCATE ALL ACTIVE PIPE LINES WITHIN 12 INCHES OF BOTTOM OF THE CRUSHED AGGREGATE BASE AT NO COST TO THE CITY.
- THE ASPHALT CONCRETE BASE COURSE SHALL BE CLASS 5 WITH AR-4000 PAVING ASPHALT. THE ASPHALT CONCRETE FOR THE SURFACE COURSE, ASPHALT CONCRETE TRANSITIONS, LEVELING COURSE AND OVERLAYS SHALL BE CLASS C2 OR D2 WITH AR-1000 PAVING ASPHALT.
- MINIMUM STRUCTURAL SECTION FOR ON-SITE CONSTRUCTION IS 3" AC/1" CAB. STRUCTURAL SECTION SHALL BE BASED ON THE 'R' VALUE STATED IN THE SOIL REPORT AND A MINIMUM TI = 4.0.
 - OFF-SITE (PUBLIC RIGHT OF WAY):
 STREET (LOCAL) MINIMUM - 4" AC/6" CAB, TI = 5.0
 ALLEY MINIMUM - 6" PCC/4" CAB, TI = 5.0
 SPECIAL DESIGN REQUIRED FOR OTHER STREETS
- SPECIAL DESIGN IS REQUIRED WHERE SITE IS USED BY OIL COMPANIES TO SERVICE THEIR FACILITIES AND REQUIRES APPROVAL OF THE OIL COMPANY WITH SIGNATURE ON THE PLANS.

INDEX OF DRAWINGS

sht. no. description location

DESCRIBE EACH SHEET

ON DEVELOPER FINANCED PROJECTS ONLY. SCALE: 1" = 100' TO 1" = 300'

INDEX MAP

CITY OF SIGNAL HILL BENCH MARK NO.000

DESCRIBE BENCH MARK

BASIS OF BEARINGS

GIVE BASIS OF BEARINGS

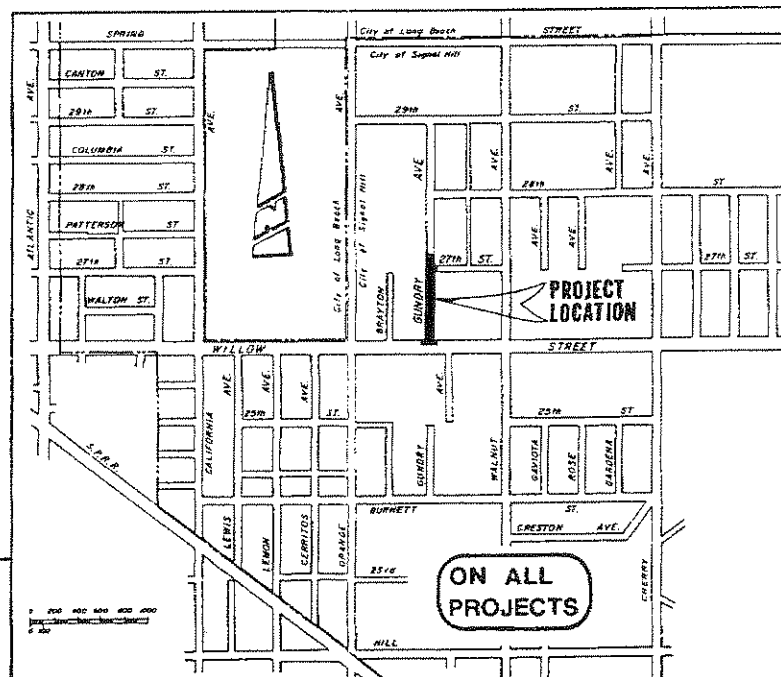
PLACE OWNERS NAME, ADDRESS AND TELEPHONE NUMBER ON DEVELOPER FINANCED PROJECTS

CIVIL ENGINEERS SEAL OR STAMP WITH R.C.E. EXPIRATION DATE

PLANS PREPARED BY:

XYZ

CONSULTING CIVIL ENGINEERS
 ADDRESS
 CITY, STATE
 TELEPHONE NO.



VICINITY MAP

ON ALL PROJECTS

TO BE SIGNED AND DATED BY R.C.E.

SUBSTRUCTURE NOTICES

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR SUBSTRUCTURES SHOWN ON THESE PLANS WAS OBTAINED FROM A SEARCH OF AVAILABLE RECORDS AND POTHOLES SHOWN ON PLANS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE UTILITIES OR SUBSTRUCTURES SHOWN AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES, NOT LIMITED TO THOSE INDICATED BELOW, AT LEAST 48 HOURS PRIOR TO THE START OF ANY EXCAVATION.
 - UNDERGROUND SERVICE ALERT 1-(800)-422-4133
 - SOUTHERN CALIFORNIA Edison COMPANY REPRESENTATIVE'S NAME AND TELEPHONE NUMBER
 - GENERAL TELEPHONE COMPANY REPRESENTATIVE'S NAME AND TELEPHONE NUMBER
 - SOUTHERN CALIFORNIA GAS COMPANY REPRESENTATIVE'S NAME AND TELEPHONE NUMBER
 - LONG BEACH GAS DEPARTMENT REPRESENTATIVE'S NAME AND TELEPHONE NUMBER

CITY STAFF TO ASSIGN PLAN NO.

REVISIONS				
NO.	DATE	INITIAL	DESCRIPTION	APP.
1			ALL REVISIONS SHALL BE DONE ON ORIGINAL TRACINGS	
2			ALL REVISIONS SHALL BE APPROVED BY CITY ENGINEER	

REFERENCES	
STREET	PLANS FOR THESE IMPROVEMENTS
STREET	
SEWER	

LIST PLAN REFERENCES

SCALE PREPARED UNDER THE SUPERVISION OF

P.C.E. NO.

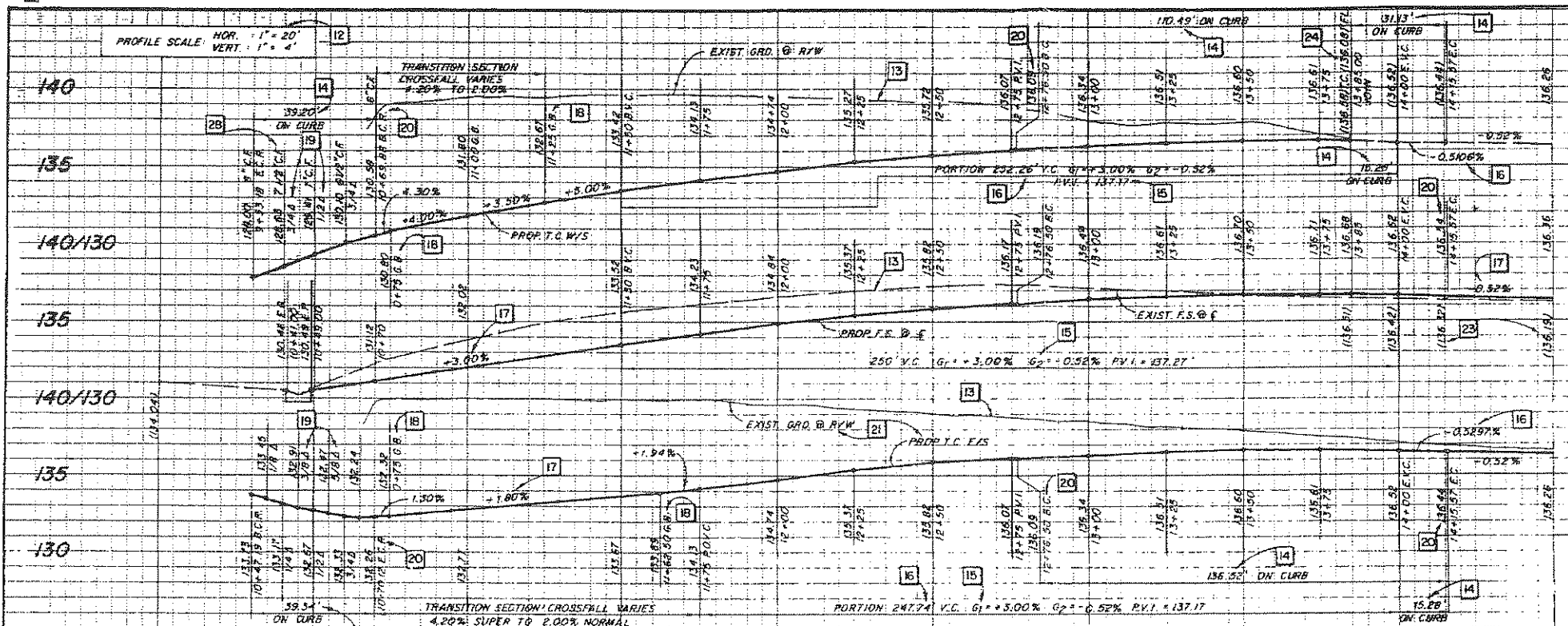
CHECKED BY:

RECD. BY:

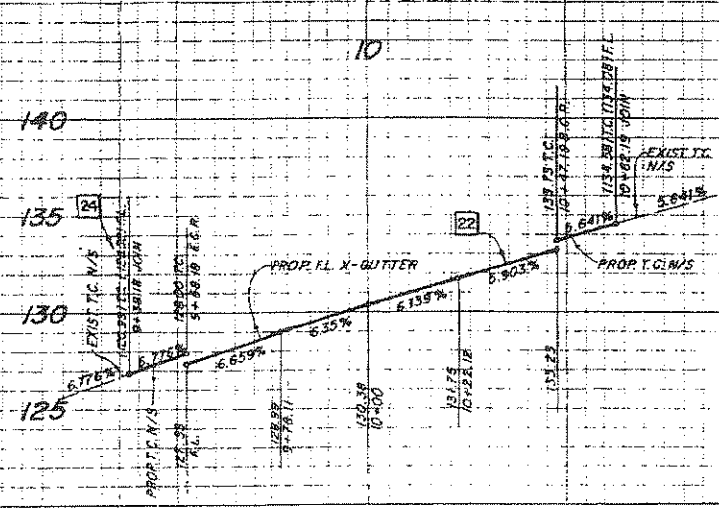
APPROVED: *Jamela Beery* 6/2/89
 CITY ENGINEER

TITLE SHEET
GUNDRY AVENUE
 WILLOW STREET TO 27th STREET
 CITY OF SIGNAL HILL

SHEET 1 of
 STANDARD PLAN
123
 PLAN NUMBER



N/S WILLOW STREET PROFILE

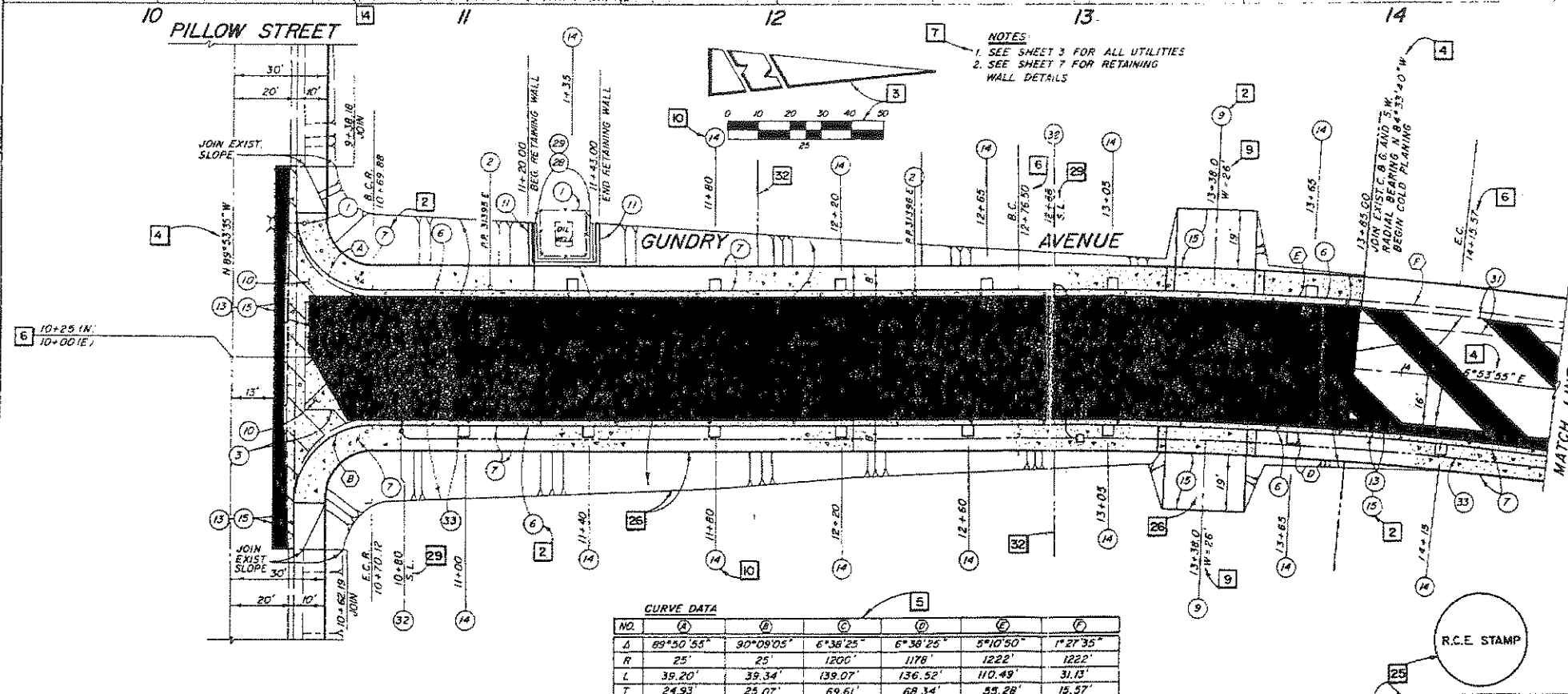


CONSTRUCTION NOTES

1. PROTECT IN PLACE TO BE RELOCATED, ADJUSTED OR REMOVED BY OTHERS
2. REMOVE EXISTING R.C.C. CROSSGUTTER & SPANDREL
3. EXCAVATE AND GRADE PER TYPICAL SECTIONS
4. CONSTR. 6" R.C.C. CURB & 24" GUTTER PER CITY STD. 203

INSTRUCTIONAL NOTES

1. ALL DRAFTING TO USE STANDARD CITY SYMBOLS, LEGENDS, AND ABBREVIATIONS.
2. LIST ALL APPLICABLE CONSTRUCTION NOTES ON EACH SHEET.
3. SHOW NORTH ARROW AND GRAPHIC SCALE
4. SHOW ALL CENTERLINE BEARINGS AND INTERMEDIATE RADIAL BEARINGS.
5. SHOW ALL CURVE DATA IN TABULATED FORM
6. SHOW ALL CENTERLINE STATIONING. STATIONING SHALL INCREASE FROM LEFT TO RIGHT, RUN SOUTH TO NORTH OR WEST TO EAST. USE EXISTING STATIONING IF AVAILABLE AND APPLICABLE. REFERENCE EXISTING STATIONS IF NOT USED.
7. REFERENCE ALL SHEETS FOR SAME REACH AND FOR DETAILS.
8. SHOW MATCH LINE STATION AND SHEET NUMBER.
9. SHOW ALL DRIVEWAYS WITH CENTERLINE STATION AND WIDTH.
10. SHOW AND STATION ALL TREEWELLS AT LOCATIONS DETERMINED BY THE CITY.
11. SHOW ALL STREET DIMENSIONS.
12. SHOW PROFILE SCALE.
13. SHOW EXISTING PROFILES AT CENTERLINE AND RIGHT-OF-WAY LINES.
14. SHOW ALL CURB CURVE LENGTHS IN PROFILE.
15. SHOW LENGTH, TANGENT GRADES AND PVI. ELEVATION FOR ALL VERTICAL CURVES.
16. SHOW GRADES AND VERTICAL CURVE LENGTHS ON ACTUAL LENGTH OF CURS.
17. SHOW ALL RATES OF GRADE TO 2 PLACES MINIMUM. MINIMUM GRADE IS 0.50%.
18. LABEL ALL GRADE BREAKS. 100% MAXIMUM WITHOUT USING A VERTICAL CURVE. BREAK CURB RETURN INTO MAXIMUM OF 8 CHORDS WITH 3.00% MAXIMUM GRADE BREAK BETWEEN CHORDS.
19. SHOW ELEVATIONS AT ALL B.C.'S, E.C.R.'S, B.C.'S AND E.C.'S.
20. LABEL ALL PROFILES.
21. SHOW PROFILE FOR ALL CROSSGUTTERS.
22. SHOW EXISTING ELEVATIONS FOR ALL OVERLAY PROFILES.
23. SHOW TOP OF CURB AND FLOW LINE ELEVATIONS AT ALL JOINS.
24. ALL SHEETS TO BE SIGNED, STAMPED AND DATED BY R.C.E. WITH LICENSE EXPIRATION DATE.
25. RIGHT OF ENTRY OR EASEMENT REQUIRED FOR ALL WORK ON PRIVATE PROPERTY.
26. PLAN NUMBER TO BE ASSIGNED BY THE CITY.
27. INDICATE WHERE CURB FACE HEIGHT VARIES.
28. SHOW STREET LIGHTS AND CONDUIT AT LOCATIONS DETERMINED BY THE CITY.
29. SHOW PLAN DESCRIPTION, STREET NAME AND SHEET LIMITS.
30. LIST ALL EXISTING PLAN NUMBERS USED FOR REFERENCE.
31. SHOW ALL LOT LINES.



CURVE DATA

NO.	(A)	(B)	(C)	(D)	(E)	(F)
Δ	89°50'55"	90°09'05"	6°38'25"	6°38'25"	5°10'50"	1°27'35"
R	25'	25'	1200'	1178'	1222'	
L	39.20'	39.34'	139.07'	136.52'	110.49'	31.13'
T	24.93'	25.07'	69.61'	68.34'	55.28'	15.57'

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION
1			ALL REVISIONS SHALL BE DONE ON ORIGINAL TRACINGS.
2			ALL REVISIONS SHALL BE APPROVED BY CITY ENGINEER.

REFERENCES

PLANS FOR THESE IMPROVEMENTS	WATER	WOOD
STREET R000		
SEWER S000		
STORM DRAIN D000		

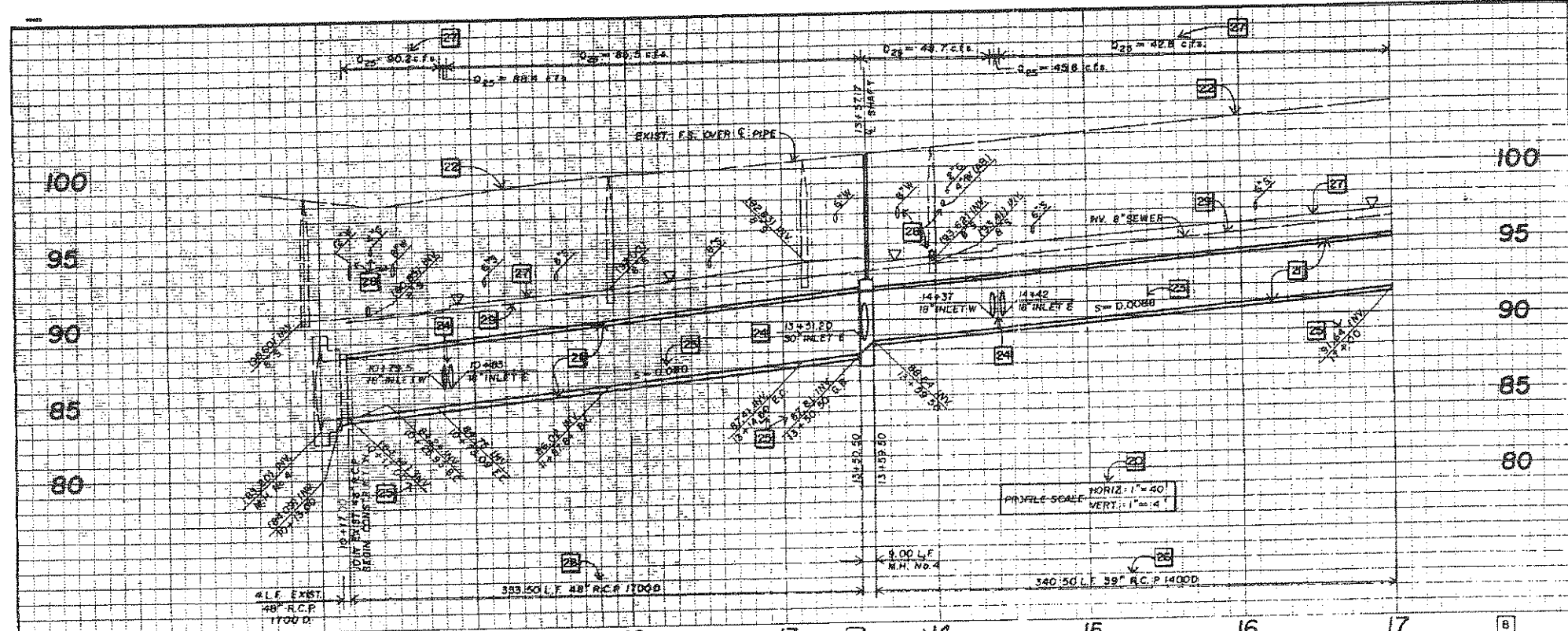
SCALE 1" = 20'

DATE 6/21/89

APPROVED: James A. Berry
CITY ENGINEER

PLAN AND PROFILE OF
GUNDRY AVENUE
WILLOW AVENUE TO STATION 14+50
CITY OF SIGNAL HILL

SHEET 4 OF 12
STANDARD PLAN
124
PLAN NUMBER 27

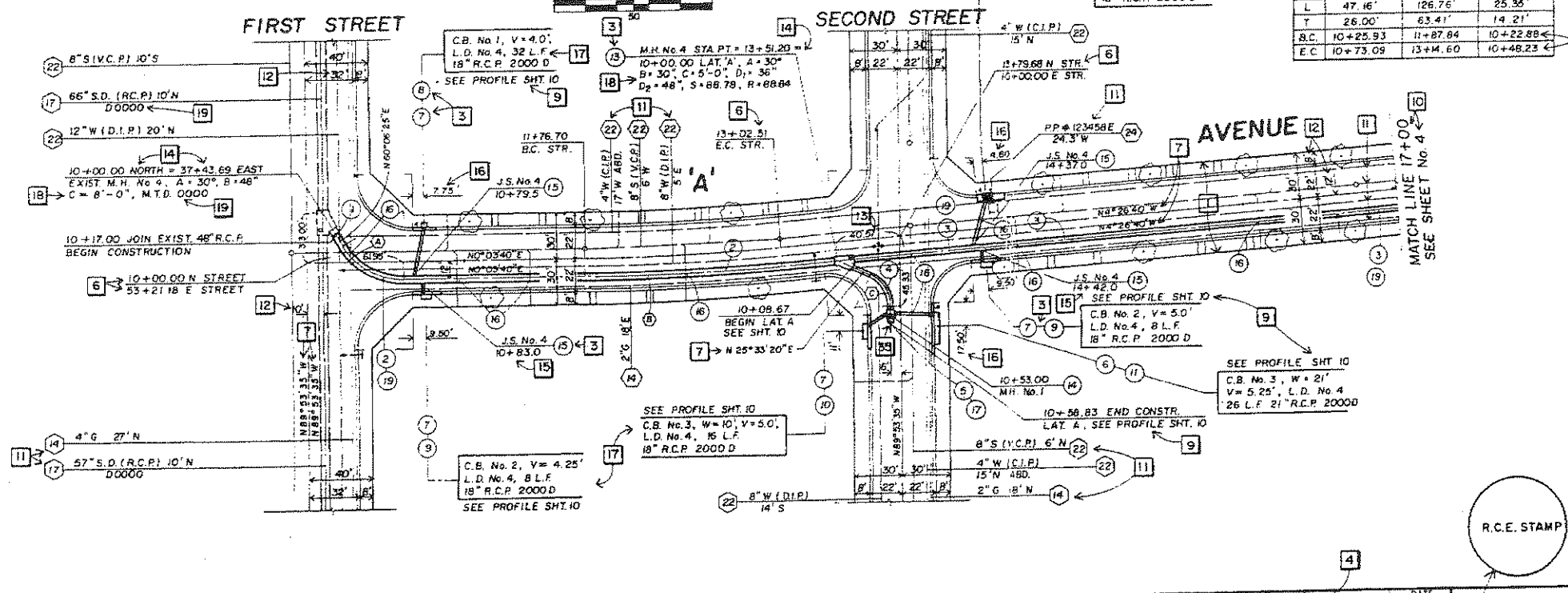


NOTE:
 SEE SHT. 2 FOR UTILITY PLAN,
 SHT. 5 FOR SEWER PLAN, SHT. 7
 FOR WATER PLAN & SHT. 10
 FOR MISCELLANEOUS DETAILS.



E PIPE CURVE DATA

NO.	(A)	(B)	(C)
Δ	60°02'46"	4°30'20"	64°33'05"
R	45'	1512'	22.50'
L	47.16'	126.76'	25.35'
T	26.00'	63.41'	14.21'
B.C.	10+25.93	11+87.84	10+22.88
E.C.	10+73.09	13+4.60	10+48.23



- CONSTRUCTION NOTES**
- REMOVE EXIST. BRICK & MORTAR PLUG AND JOIN EXIST. R.C.P.
 - FURNISH AND PLACE 48" R.C.P.
 - FURNISH AND PLACE 39" R.C.P.
 - FURNISH AND PLACE 30" R.C.P.
 - FURNISH AND PLACE 27" R.C.P.
 - FURNISH AND PLACE 21" R.C.P.
 - FURNISH AND PLACE 18" R.C.P.
 - CONSTR. C.E. No. 1 B.L.D. No. 4 PER L.A.C.F.C.D. STD'S. 2-DIGO B 2-0415
 - FURNISH & PLACE PERMANENT SURFACING PER SCHEDULE ON SHT. No. 2 AND CITY STD. No. 241.

- INSTRUCTIONAL NOTES**
- ALL DRAFTING TO USE STANDARD SYMBOLS, LEGEND AND ABBREVIATIONS.
 - ALL DESIGN AND CONSTRUCTION TO BE PER LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND/OR CITY CRITERIA AND STANDARDS.
 - LIST ALL APPLICABLE CONSTRUCTION NOTES ON EACH SHEET.
 - SHOW NORTH ARROW AND GRAPHIC SCALE. PLAN SCALE SHALL BE 1"=40'.
 - ALL STATIONING SHALL BE ALONG CENTERLINE OF STORM DRAIN. ALL STATIONING SHALL RUN LEFT TO RIGHT, SOUTH TO NORTH OR WEST TO EAST AND SHALL ALWAYS RUN UPSTREAM ON STORM DRAIN.
 - REFERENCE STREET OR SURVEY STATIONING AT ALL CENTERLINE INTERSECTIONS, B.C.'S AND E.C.'S.
 - SHOW ALL CENTERLINE BEARINGS.
 - SHOW ALL CURVE DATA IN TABULATED FORM.
 - REFERENCE ALL OTHER SHEETS FOR SAME REACH AND FOR DETAILS.
 - SHOW MATCHLINE STATION AND SHEET NUMBER.
 - SHOW ALL UTILITY LINES PERTINENT TO STORM DRAIN CONSTRUCTION. LABEL UTILITIES PER CITY STANDARD.
 - SHOW ALL STREET AND STORM DRAIN DIMENSIONS.
 - ALL STORM DRAIN B.C.'S, E.C.'S AND MAJOR JUNCTION POINTS SHALL BE TIED TO KNOWN CENTERLINE POINTS BY DIMENSION OR STREET STATION.
 - SHOW STATIONING EQUATION FOR ALL LATERAL PIPE JUNCTIONS.
 - SHOW ALL CONNECTOR PIPE JUNCTION STATIONS.
 - ALL CATCH BASIN CENTERLINES SHALL BE TIED TO CURB B.C.R./E.C.R. OR A STREET STATION WILL BE SHOWN.
 - SHOW CATCH BASIN TYPE, SIZE, 'V' DEPTH, LOCAL DEPRESSION TYPE AND CONNECTOR PIPE LENGTH, SIZE AND D-LOAD FOR EACH CATCH BASIN AS SHOWN.
 - LIST ALL DATA REQUIRED BY STANDARD PLANS. REFERENCE EXISTING STORM DRAIN.
 - SHOW PROFILE SCALE.
 - SHOW PIPE I.D. AND O.D. IN PROFILE.
 - SHOW EXISTING AND/OR PROPOSED SURFACE PROFILE OVER STORM DRAIN.
 - SHOW PIPE SLOPE TO 4 PLACES MINIMUM.
 - SHOW INLET PIPES WITH STATION, SIZE AND DIRECTION OF INLET, ALONG WITH ANY OTHER DATA REQUIRED BY STANDARD PLANS.
 - SHOW INVERT ELEVATIONS AT ALL JOINS, B.C.'S, E.C.'S, MANHOLES, MATCH LINES AND ANY OTHER REQUIRED LOCATIONS.
 - SHOW LENGTH, PIPE SIZE AND D-LOAD FOR ALL PIPE REACHES.
 - SHOW HYDRAULIC GRADE LINE, 'Q' AND 'V' FREQUENCY FOR ALL PIPE REACHES.
 - SHOW ALL UTILITIES IN PROFILE THAT CROSS THE STORM DRAIN.
 - SHOW PARALLEL SEWERS IN PROFILE WITH INVERT ELEVATIONS AT ALL MANHOLES AND CROSSINGS.
 - LIST ALL PLAN NUMBERS USED FOR REFERENCE.
 - ALL SHEETS TO BE SIGNED, STAMPED AND DATED BY R.C.E. WITH LICENSE EXPIRATION DATE.
 - SHOW PLAN DESCRIPTION, STREET NAME AND SHEET LIMITS.
 - M.T.D. NUMBER TO BE ASSIGNED BY LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. (IF APPLICABLE) R.C.E. SHALL APPLY FOR REQUIRED PERMIT.
 - PLAN NUMBER TO BE ASSIGNED BY CITY.
 - SHOW HYDRAULIC GRADE LINE ELEVATION, IN PROFILE, AT ALL ENDS OF PIPE FOR FUTURE EXTENSION.

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP.
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2			ALL REVISIONS SHALL BE APPROVED BY THE CITY ENGINEER	

REFERENCES

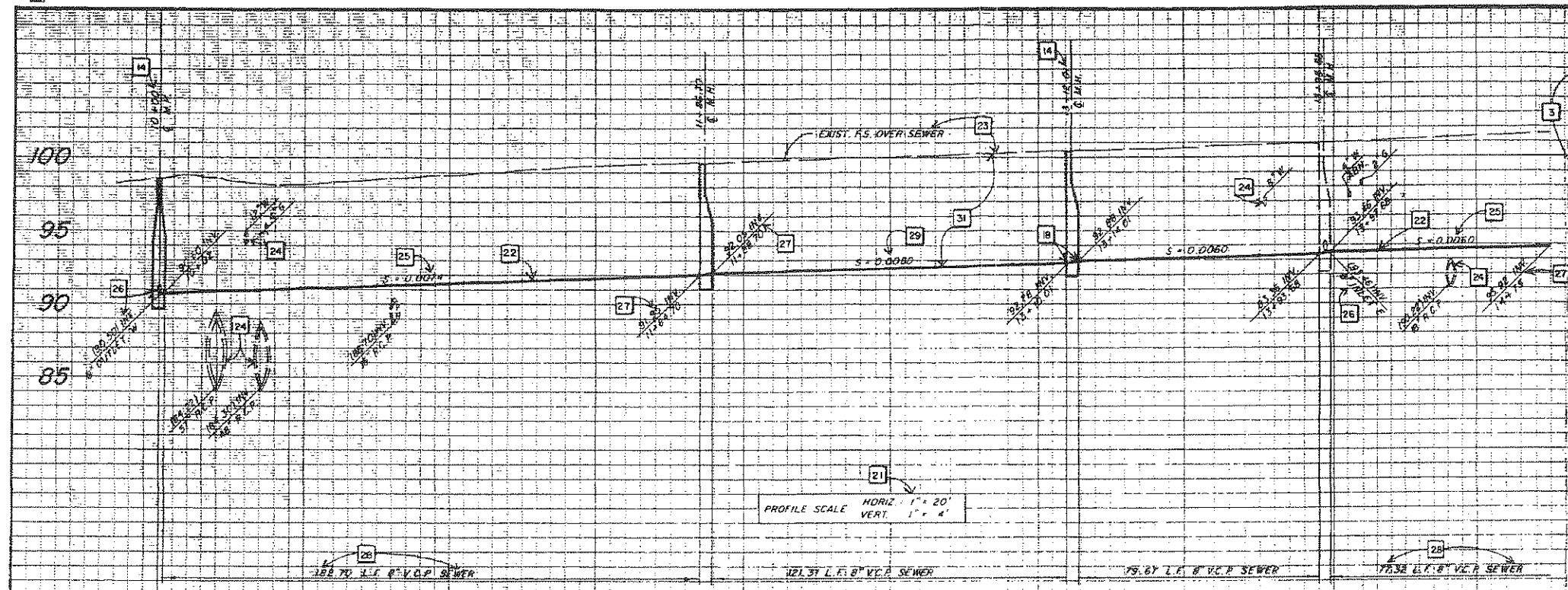
PLANS FOR THESE IMPROVEMENTS	STREET	ROAD	SEWER	WOOD	WATER	WOOD
STORM DRAIN	0000					

SCALE: 1" = 40'
 DATE: 6/21/89
 PREPARED UNDER THE SUPERVISION OF:
 R.C.E. NO. _____
 CHECKED BY: _____
 RECD BY: _____
 APPROVED: James A. Barry, CITY ENGINEER

R.C.E. STAMP

STORM DRAIN PLAN AND PROFILE
 'A' AVENUE
 FIRST STREET TO STATION 17+00
 CITY OF SIGNAL HILL

M.T.D. # 1234
 SHEET 3 OF 10
 STANDARD PLAN
 125
 PLAN NUMBER

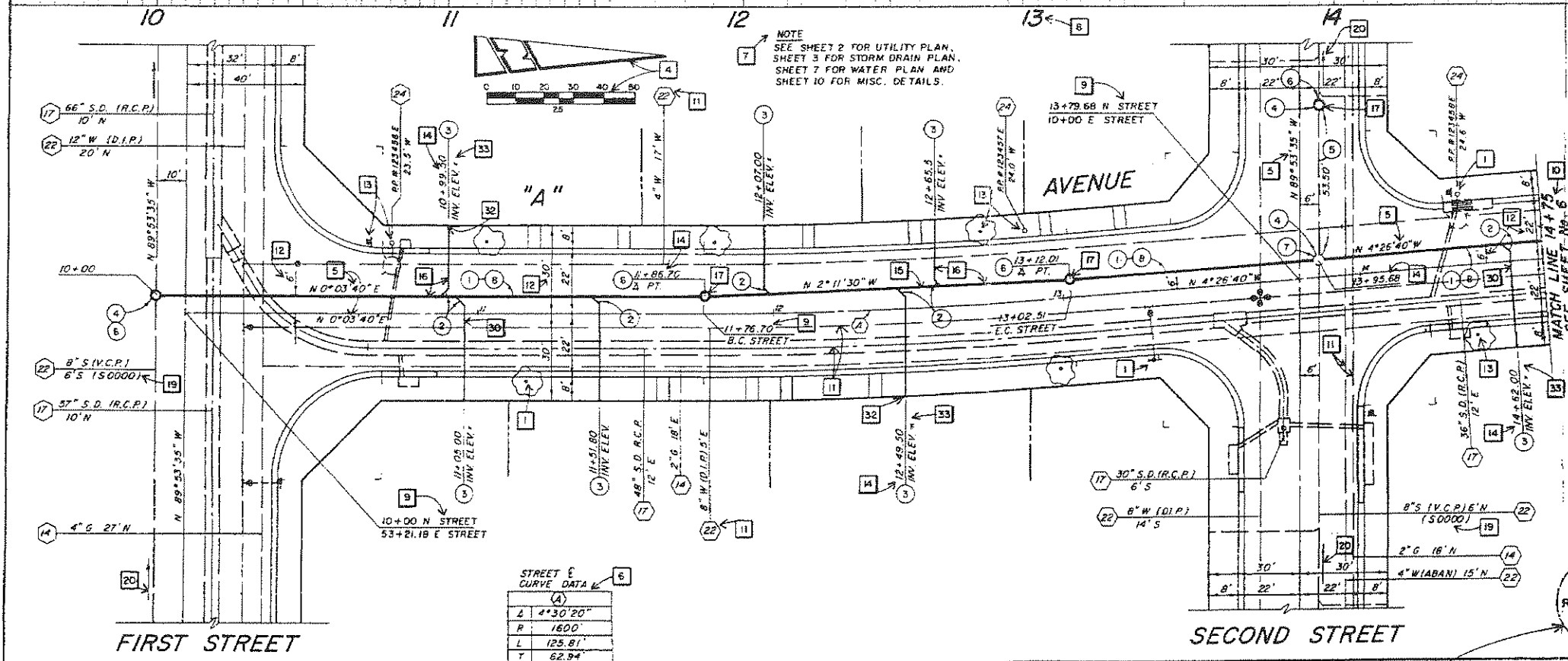


CONSTRUCTION NOTES

- 1 FURNISH AND PLACE 8" V.C.P. SEWER PER CITY STD'S 300 AND 301.
- 2 FURNISH AND PLACE 8"x8"x6" V.C.P. WYE PER CITY STD. 307.
- 3 FURNISH AND PLACE 6" V.C.P. SEWER LATERAL PER CITY STD'S. 309 AND 311.
- 4 REMOVE INTERFERING PORTION 8" V.C.P. SEWER.
- 5 ABANDON EXISTING 8" V.C.P. SEWER IN PLACE, PLUG ENDS.
- 6 CONSTRUCT SEWER MANHOLE PER CITY STD. 302.
- 7 BREAK INTO EXISTING P.C.C. MANHOLE, RECHANNEL BASE PER CITY STD. 305 AND DETAIL ON SHEET 10-7.
- 8 FURNISH AND PLACE PERMANENT SURFACING PER CITY STD. 304, TYPE B.

INSTRUCTIONAL NOTES

- 1 ALL DRAFTING TO USE STANDARD SYMBOLS, LEGENDS AND ABBREVIATIONS.
- 2 ALL DESIGN AND CONSTRUCTION TO BE PER CITY OF SIGNAL HILL CRITERIA AND STANDARDS.
- 3 LIST ALL APPLICABLE CONSTRUCTION NOTES ON EACH SHEET.
- 4 SHOW NORTH ARROW AND GRAPHIC SCALE (MAXIMUM SCALE: 1" = 20').
- 5 SHOW ALL STREET AND SEWER MAIN BEARINGS.
- 6 SHOW ALL STREET CENTERLINE CURVE DATA IN TABULATED FORM.
- 7 REFERENCE ALL OTHER SHEETS FOR SAME REACH AND FOR DETAILS.
- 8 ALL STATIONING WILL RUN ALONG CENTERLINE OF SEWER. ALL STATIONING WILL RUN LEFT TO RIGHT, SOUTH TO NORTH OR WEST TO EAST AND WILL ALWAYS RUN UPSTREAM ALONG SEWER MAIN.
- 9 REFERENCE STREET OR SURVEY STATIONING AT ALL CENTERLINE INTERSECTIONS, B.C.'S AND E.C.'S.
- 10 SHOW MATCH LINE STATION AND SHEET NUMBER.
- 11 SHOW ALL UTILITY LINES PERTINENT TO SEWER CONSTRUCTION. LABEL UTILITIES PER CITY STANDARDS.
- 12 SHOW ALL STREET AND SEWER DIMENSIONS.
- 13 SHOW ALL PARKWAY TOPOGRAPHY.
- 14 STATION ALL SEWER MANHOLES AND HOUSE CONNECTIONS.
- 15 NO CURVES SHALL BE DESIGNED ALONG SEWER MAIN.
- 16 SEWER MAINS SHALL BE 8" MINIMUM AND HOUSE CONNECTIONS SHALL BE 6" MINIMUM.
- 17 MANHOLES ARE REQUIRED AT MAXIMUM 350' SPACINGS, CHANGE OF DIRECTION OR SLOPE AND AT TERMINAL ENDS.
- 18 ALL MANHOLES SHALL HAVE A MINIMUM 0.10' FALL ACROSS INSIDE DIAMETER.
- 19 REFERENCE EXISTING SEWER PLANS.
- 20 SHOW DIRECTION OF FLOW ARROWS ON ALL EXISTING SEWER MAINS.
- 21 SHOW PROFILE SCALE.
- 22 SHOW INVERT ONLY OF SEWER MAIN IN PROFILE.
- 23 SHOW EXISTING AND/OR PROPOSED SURFACE OVER SEWER IN PROFILE.
- 24 SHOW ALL UTILITIES IN PROFILE THAT CROSS SEWER MAIN.
- 25 SHOW PIPE SLOPE TO 4 PLACES MINIMUM.
- 26 SHOW SIDE INLET/OUTLET PIPES AT MANHOLES WITH SIZE, DIRECTION OF INLET/OUTLET AND INVERT ELEVATION.
- 27 SHOW INVERT ELEVATIONS AT ALL JOINS, MANHOLES, MATCH LINES ANY OTHER NECESSARY LOCATION.
- 28 SHOW LENGTH AND SEWER MAIN SIZE FOR ALL PIPE REACHES IN PROFILE.
- 29 MINIMUM SLOPE ON SEWER MAINS SHALL BE 0.0050.
- 30 MINIMUM SLOPE ON HOUSE CONNECTIONS SHALL BE 0.0200.
- 31 MINIMUM DEPTH OF SEWER MAIN SHALL BE 6'.
- 32 MINIMUM DEPTH OF HOUSE CONNECTION SHALL BE 4' BELOW TOP OF CURB AT RIGHT-OF-WAY LINE.
- 33 HOUSE CONNECTION INVERT ELEVATION TO BE PLACED ON PLANS AS CONSTRUCTED.
- 34 LIST ALL PLAN NUMBERS USED FOR REFERENCE.
- 35 ALL SHEETS TO BE SIGNED, STAMPED AND DATED BY R.C.E. WITH LICENSE EXPIRATION DATE.
- 36 SHOW PLAN DESCRIPTION, STREET NAME AND SHEET LIMITS. PLAN NUMBER TO BE ASSIGNED BY CITY.



REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP.
1			ALL REVISIONS TO BE MADE ON ORIGINAL TRACING.	
2			ALL REVISIONS TO BE APPROVED BY CITY ENGINEER.	

REFERENCES

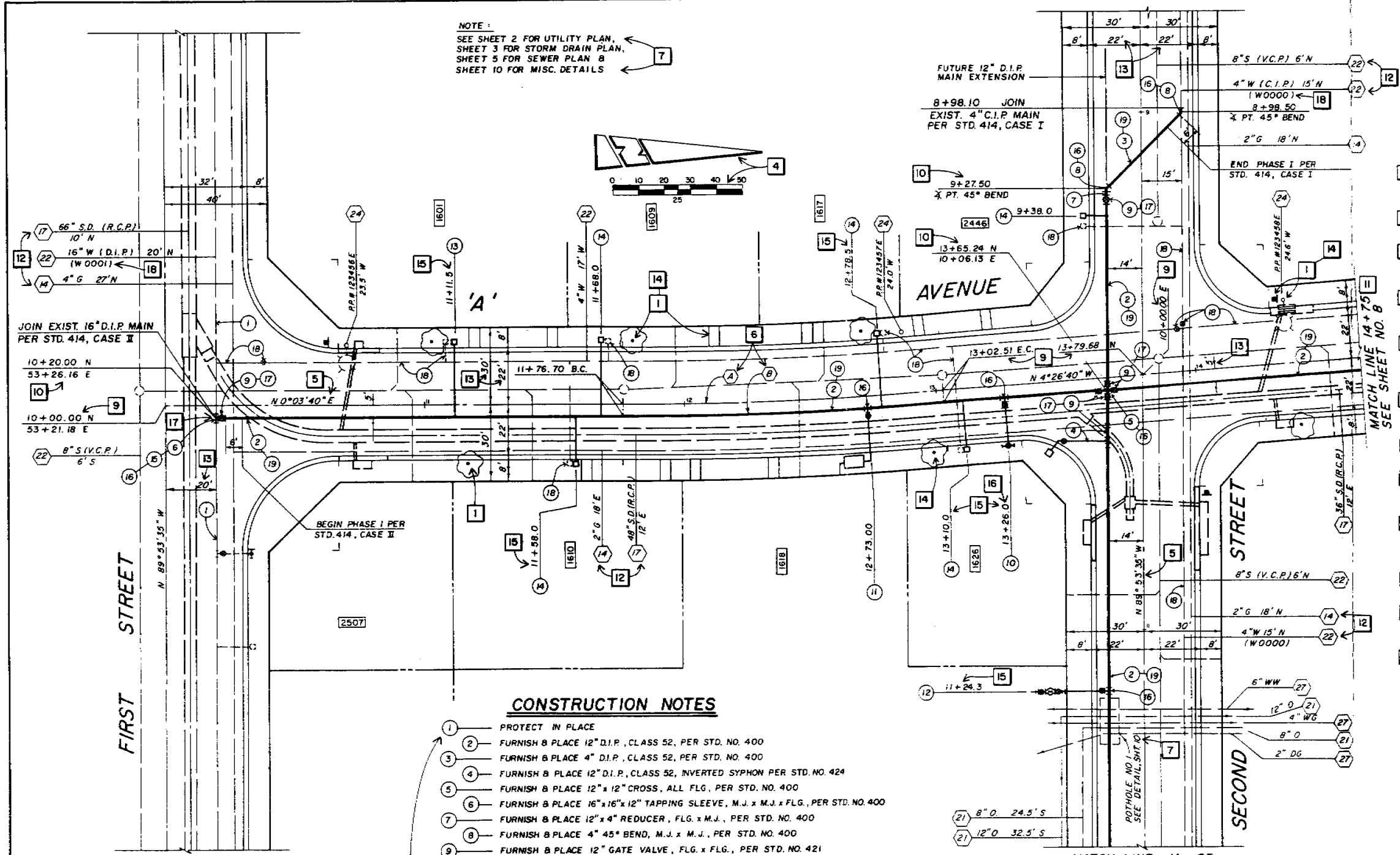
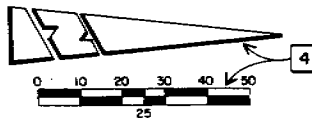
PLANS FOR THESE IMPROVEMENTS	
STREET	R0000
SEWER	S0000
STORM DRAIN	D0000
WATER	W0000

SCALE: 1" = 20'
 PREPARED UNDER THE SUPERVISION OF
 R.C.E. NO.
 CHECKED BY
 IN CHARGE BY
 APPROVED: *James O. Ryan*
 CITY ENGINEER
 DATE: 6/21/89

SANITARY SEWER PLAN AND PROFILE
 'A' AVENUE
 FIRST STREET TO STATION 14+75
 CITY OF SIGNAL HILL

SHEET 5 OF 10
 STANDARD PLAN
 126
 PLAN NUMBER 37

NOTE:
SEE SHEET 2 FOR UTILITY PLAN,
SHEET 3 FOR STORM DRAIN PLAN,
SHEET 5 FOR SEWER PLAN &
SHEET 10 FOR MISC. DETAILS



INSTRUCTIONAL NOTES

- 1 ALL DRAFTING TO USE STANDARD SYMBOLS, LEGENDS AND ABBREVIATIONS.
- 2 ALL DESIGN AND CONSTRUCTION TO BE PER CITY OF SIGNAL HILL CRITERIA AND STANDARDS.
- 3 LIST ALL APPLICABLE CONSTRUCTION NOTES ON EACH SHEET.
- 4 SHOW NORTH ARROW AND GRAPHIC SCALE (MAXIMUM SCALE: 1" = 20')
- 5 SHOW ALL STREET CENTERLINE BEARINGS.
- 6 SHOW ALL STREET CENTERLINE AND WATER MAIN CURVE DATA IN TABULATED FORM.
- 7 REFERENCE ALL OTHER SHEETS FOR SAME REACH AND FOR DETAILS.
- 8 ALL STATIONING WILL RUN ALONG STREET CENTERLINE. ALL STATIONING WILL RUN LEFT TO RIGHT, SOUTH TO NORTH OR WEST TO EAST.
- 9 REFERENCE STREET OR SURVEY STATIONING AT ALL CENTERLINE INTERSECTIONS, B.C.'S AND E.C.'S.
- 10 SHOW STATIONS OF ALL WATER MAIN INTERSECTIONS, JUNCTIONS, ANGLE POINTS, B.C.'S AND E.C.'S.
- 11 SHOW MATCH LINE STATION AND SHEET NUMBER.
- 12 SHOW ALL UTILITY LINES PERTINENT TO WATER MAIN CONSTRUCTION. LABEL UTILITIES PER CITY STANDARDS.
- 13 SHOW ALL STREET AND WATER MAIN DIMENSIONS.
- 14 SHOW ALL PARKWAY TOPOGRAPHY.
- 15 STATION ALL WATER SERVICES, FIRE HYDRANTS AND ANY OTHER CONNECTIONS TO WATER.
- 16 EXACT FIRE HYDRANT LOCATIONS TO BE SET BY CITY ENGINEER.
- 17 HOT TAP ON EXISTING WATER MAIN SHALL BE MINIMUM ONE SIZE LESS THAN EXISTING WATER MAIN SIZE, EXCEPT WITH PRIOR APPROVAL OF CITY ENGINEER.
- 18 REFERENCE EXISTING WATER PLANS BY PLAN NUMBER.
- 19 MINIMUM DEPTH OF WATER MAIN SHALL BE 42"
- 20 LIST ALL PLAN NUMBERS USED FOR REFERENCE.
- 21 ALL SHEETS TO BE SIGNED, STAMPED AND DATED BY P.C.E. WITH LICENSE EXPIRATION DATE.
- 22 SHOW PLAN DESCRIPTION, STREET NAME AND SHEET LIMITS.
- 23 PLAN NUMBER TO BE ASSIGNED BY CITY.

CONSTRUCTION NOTES

- 1 PROTECT IN PLACE
- 2 FURNISH & PLACE 12" D.I.P., CLASS 52, PER STD. NO. 400
- 3 FURNISH & PLACE 4" D.I.P., CLASS 52, PER STD. NO. 400
- 4 FURNISH & PLACE 12" D.I.P., CLASS 52, INVERTED SYPHON PER STD. NO. 424
- 5 FURNISH & PLACE 12" x 12" CROSS, ALL FLG., PER STD. NO. 400
- 6 FURNISH & PLACE 16" x 16" x 12" TAPPING SLEEVE, M.J. x M.J. x FLG., PER STD. NO. 400
- 7 FURNISH & PLACE 12" x 4" REDUCER, FLG. x M.J., PER STD. NO. 400
- 8 FURNISH & PLACE 4" 45° BEND, M.J. x M.J., PER STD. NO. 400
- 9 FURNISH & PLACE 12" GATE VALVE, FLG. x FLG., PER STD. NO. 421
- 10 FURNISH & PLACE FIRE HYDRANT ASSEMBLY PER STD. NO. 419
- 11 FURNISH & PLACE 6" D.I.P. LATERAL & 6" METER PER STD. NO. 406 & 408
- 12 FURNISH & PLACE 4" D.I.P. LATERAL & 4" FIRE SERVICE PER STD. NO. 406 & 412
- 13 FURNISH & PLACE 2" WATER SERVICE PER STD. NO. 404
- 14 FURNISH & PLACE 1" WATER SERVICE PER STD. NO. 402
- 15 HOT TAP EXIST. 16" D.I.P. WATER MAIN PER STD. NO. 425
- 16 CONSTRUCT THRUST BLOCK PER STD. NO. 416
- 17 CONSTRUCT VALVE ANCHOR BLOCK PER STD. NO. 418
- 18 ABANDONE PER STD. NO. 409
- 19 FURNISH & PLACE PERMANENT SURFACING PER STD. NO. 401, TYPE B

CURVE DATA

	A	B
Δ	4° 30' 20"	4° 30' 20"
R	1600'	1605'
L	125.81'	126.21'
T	62.94'	63.14'

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP.
1			ALL REVISIONS TO BE MADE ON ORIGINAL TRACING	
2			ALL REVISIONS TO BE APPROVED BY CITY ENGINEER	

REFERENCES

PLANS FOR THESE IMPROVEMENTS	
STREET	R0000
SEWER	S0000
STORM DRAIN	D0000
WATER	W0000 & W0001

SCALE: 1" = 20'
PREPARED UNDER THE SUPERVISION OF
R.C.E. NO.
CHECKED BY
RECD. BY
APPROVED: *James A. Perry*
CITY ENGINEER
DATE: 6/21/89

WATER MAIN IMPROVEMENT PLAN
'A' STREET: FIRST STREET TO STATION 4+75
SECOND STREET: WEST OF 'A' STREET TO STATION 11+85
CITY OF SIGNAL HILL

SHEET 7 OF 10
STANDARD PLAN
127
PLAN NUMBER

R.C.E. STAMP