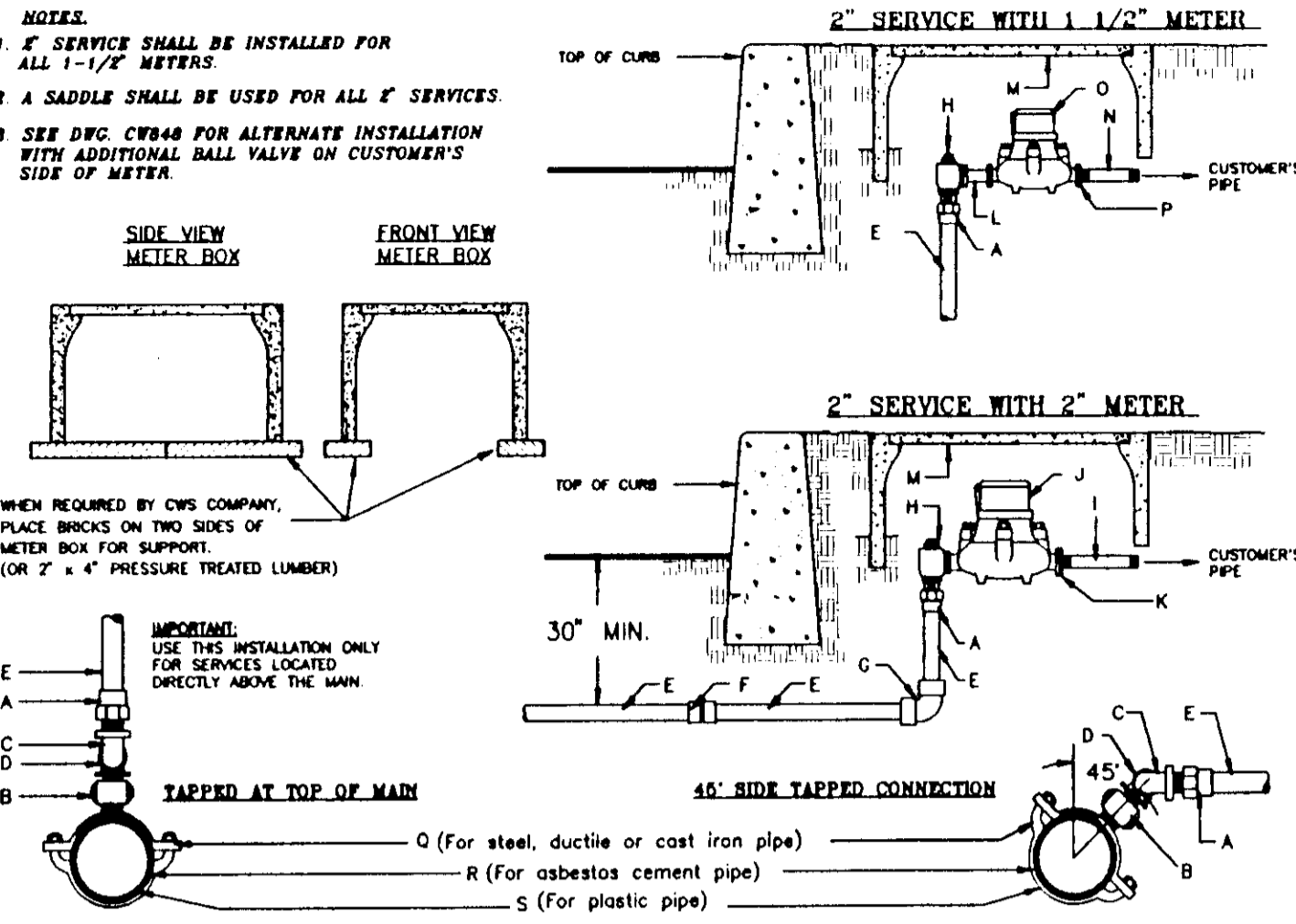
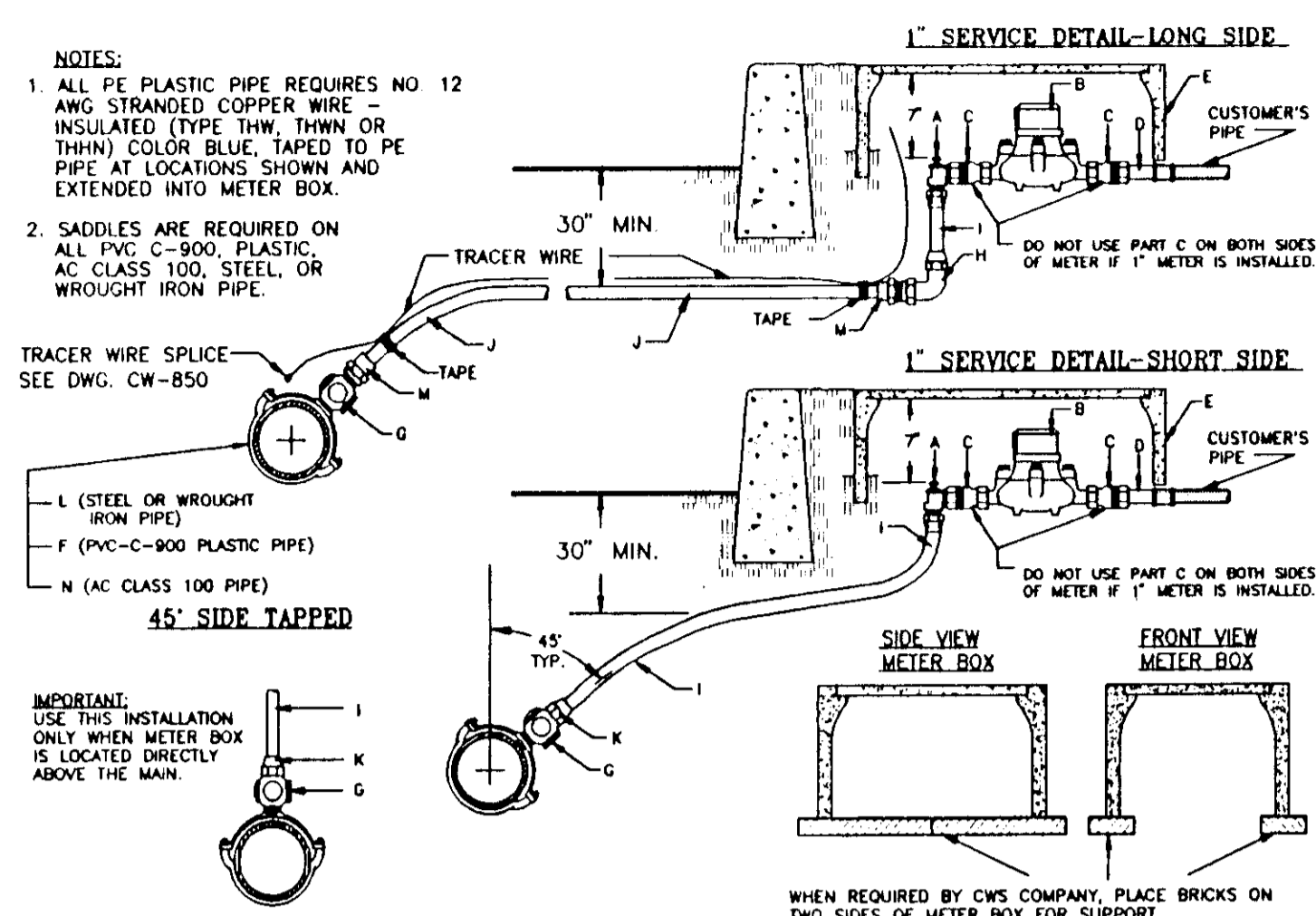


SU-2973



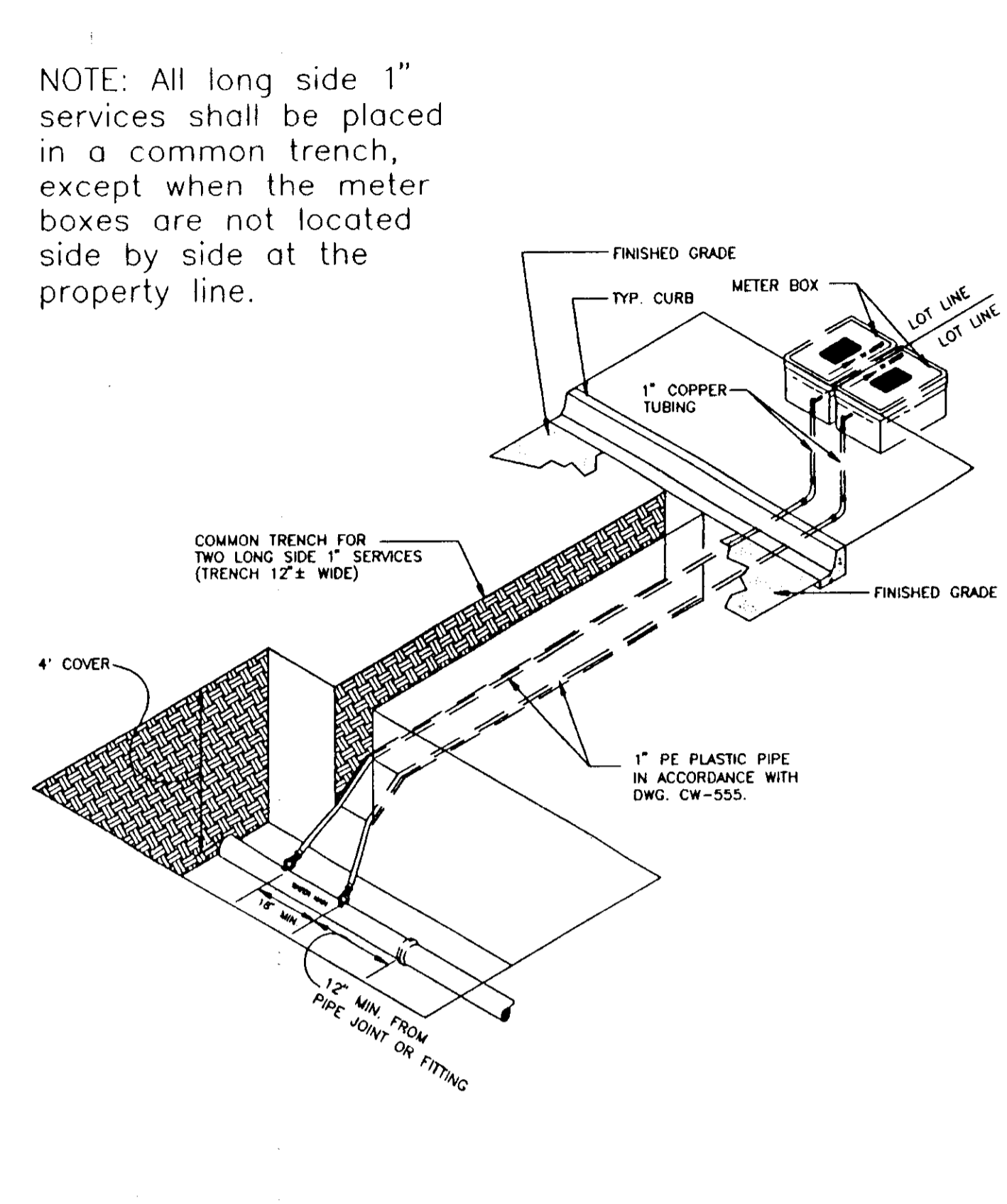
MATERIAL REQUIREMENTS		MATERIAL REQUIREMENTS	
PART	DESCRIPTION	PART	DESCRIPTION
A	2" ADAPTER C TO I.P.T. MALE STREAMLINE	L	METER FLG ADAPTER, FORD A83-2" MET FLO 1-1/2" MET FLO
B	CORPORATION STOP-W/ MUELLER H-10003 1-1/2" CC 1" M.I.P., OR FORD FB-800 1-1/2" CC 1" M.I.P. OR, JAMES JONES J-89 1-1/2" CC x 2" M.I.P.	M	BOX, METER, (FOR 2" AND 1-1/2" METER) 17" x 28" NOMINAL BROOKS CONCRETE #85 BOX W/ #855 CONCRETE COVER & LID CHRISTY CONCRETE #85 BOX W/ BASE CONCRETE COVER & LID NOTE: CAST IRON COVERS REQUIRED IN TRAFFIC AREAS.
C	2" ELL STD. BRASS W/ (F.I.P. x F.I.P.)	N	1-1/2" NIPPLE STD. BRASS
D	2" ELL STREET STD. BRASS W/ (F.I.P. x M.I.P.)	O	1-1/2" METER, (BY CWS COMPANY) LENGTH 13" NOTE: DEVELOPER'S CONTRACTOR SHALL INSTALL SPACER IN PLACE OF METER, PER CWS CO'S DIRECTION.
E	2" TUBING COPPER, TYPE "K", SOFT	P	1-1/2" METER FLG. (FLG. x F.I.P.) BRONZE W/ FULL FACE GASKET AND #304 STAINLESS STEEL BOLTS & NUTS
F	2" COUPLING C TO C STREAMLINE	Q	SADDLE, MALLEABLE IRON, DOUBLE STRAP, MUELLER H-10500, FORD F202, JAMES JONES, ROCKWELL INT'L.
G	2" ELL C TO C STREAMLINE 90°	R	SERVICE SADDLE, ALL BRONZE, DOUBLE STRAP, FORD 2028 STYLES, OR JAMES JONES J-978, OR ROCKWELL INTERNATIONAL, NO. 323, MUELLER H-18000
H	2" BALL ANGLE METER VALVE - F.I.P. x METER FLANGE - FULL PORT MUELLER B-24286, FORD BF413-777W, JAMES JONES J-1974 W	S	SERVICE SADDLE, ALL BRONZE, DOUBLE STRAP, FORD METER BOX CO. S-90 STYLES, OR MUELLER H-13400 SERIES
I	2" NIPPLE STD. BRASS		
J	2" METER, (BY CWS COMPANY) LENGTH 17" NOTE: DEVELOPER'S CONTRACTOR SHALL INSTALL SPACER IN PLACE OF METER, PER CWS CO'S DIRECTION.		
K	2" METER FLG. (FLG. x F.I.P.) BRONZE WITH FULL FACE GASKET AND #304 STAINLESS STEEL BOLTS & NUTS.		

**CW 436R6** STANDARD 2" SERVICE CONNECTION FOR 2" METER OR 1-1/2" METER

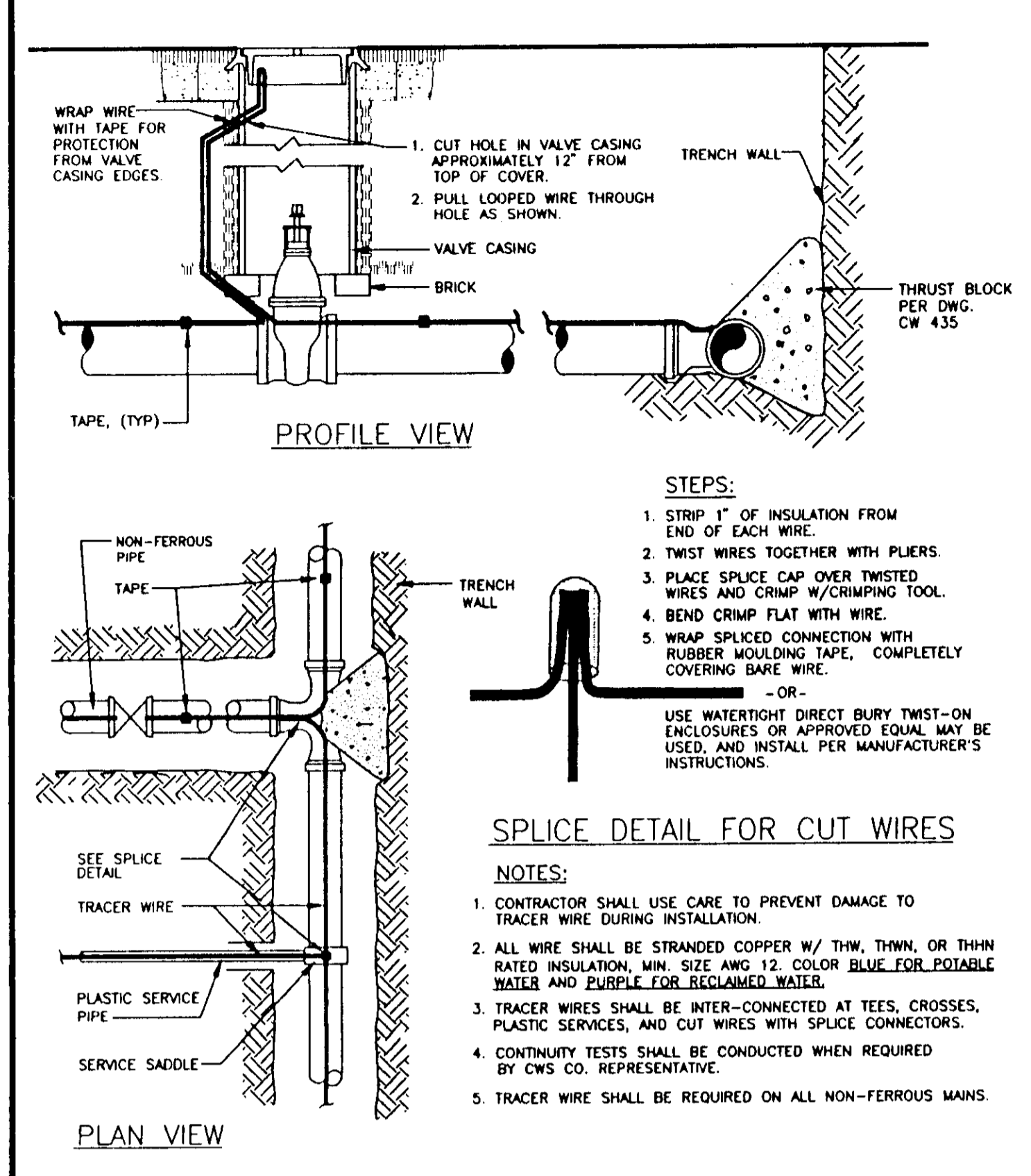


MATERIAL LIST		MATERIAL LIST	
PART	DESCRIPTION	PART	DESCRIPTION
A	1" ANGLE METER STOP, FLANGE C x METER SWIVEL NUT, MUELLER H-14250, OR FORD X52-444W, OR JAMES JONES J-1525	G	CORPORATION STOP, MUELLER H-10003 3/4" CC 1" M.I.P., OR FORD F 800-3 3/4" CC 1" M.I.P., OR JAMES JONES J-89 3/4" CC x 1" M.I.P.
B	METER, BY CWS COMPANY 3/4" x 3/4" METER (USE FOR LOT SIZE < 10,000 SQ. FT.) LENGTH 7-1/2" 1/2" METER (USE FOR LOT SIZE 10,000 SQ. FT. OR LARGER OR # REQ'D TO MEET CITY'S FIRE SPRINKLER ORDINANCE) LENGTH 10-3/4" NIPPLE, DEVELOPER'S CONTRACTOR SHALL INSTALL SPACER PVC SCHEDULE 80 NIPPLE IN PLACE OF METER, PER CWS CO'S DIRECTION.	H	1" ELL, MUELLER H1530 C FLANGED - PT MALE, OR JAMES JONES J-1550 C FLANGED - PT MALE, OR FORD I-28-44 C FLANGED - PT MALE
C	METER ADAPTER, (CHANGES 5/8" x 3/4" METER TO 1" SPOU SIZE & LENGTH) FORD ADAPTER A24	I	1" TUBING, COPPER, TYPE "K", SOFT
D	FOR 1/2" x 3/4" METER AND 1" METER 1" METER COUPLING (M.I.P. x METER SWIVEL NUT) MUELLER H-10990, FORD C58-04, OR JAMES JONES J-134	J	1" F.I.P., PE PLASTIC, (PE 3408, PC 200, OR ?)
E	BOX, METER, (FOR 5/8" x 3/4" AND 1" METERS) BROOKS #37 BOX WITH #875 CONCRETE COVER & LID, OR CHRISTY #812 BOX WITH #875 CONCRETE COVER & LID NOTE: CAST IRON COVERS REQUIRED IN TRAFFIC AREAS.	K	1" COUPLING, MUELLER H-15450 C FLANGED-PT FEMALE, OR FORD C21-44 C FLANGED-PT FEMALE, OR JAMES JONES J-1530 C FLANGED-PT FEMALE
F	SADDLE, SERVICE, ALL BRONZE, MUELLER H13400 SERIES, OR FORD 590 STYLES, OR JAMES JONES J-994 SERIES	L	SERVICE SADDLE, MALLEABLE IRON, DOUBLE STRAP, FORD I-TEN BOX CO. OR ROCKWELL INT'L. OR MUELLER CO., OR MFC-CO. CONNECTS
		M	1" COUPLING, MUELLER H15458
		N	SERVICE SADDLE, ALL BRONZE, DOUBLE STRAP, FORD #208 STYLES, OR JAMES JONES J-978, OR ROCKWELL INTERNATIONAL, NO. 323

**CW 558R10** STANDARD 1" SERVICE CONNECTION FOR 5/8" x 3/4" METER AND 1" METER



**CW 837R1** TWO 1" LONG SIDE SERVICES IN COMMON TRENCH



**CW 850R1** STANDARD INSTALLATION DETAILS FOR TRACER WIRE ON MAINS

ENGINEERING

DEPARTMENT

KEYVISIONS:

SCALE:

N.T.S.

DRAWN BY:

A. GALINDO

DESIGNED BY:

CHECKED BY:

A.F.G.

APPROVED BY:

CALIFORNIA WATER SERVICE CO.  
STANDARD DRAWINGS & DETAILS

TITLE:

DISTRICT:

ALL

DATE:

7-94

FOLDER NO.:

ESTIMATE NO.:

DRAWING NO.:

CWDWGS2

SHEET 2 OF 2

11 11



EXTENSIONS:

DATE: \_\_\_\_\_

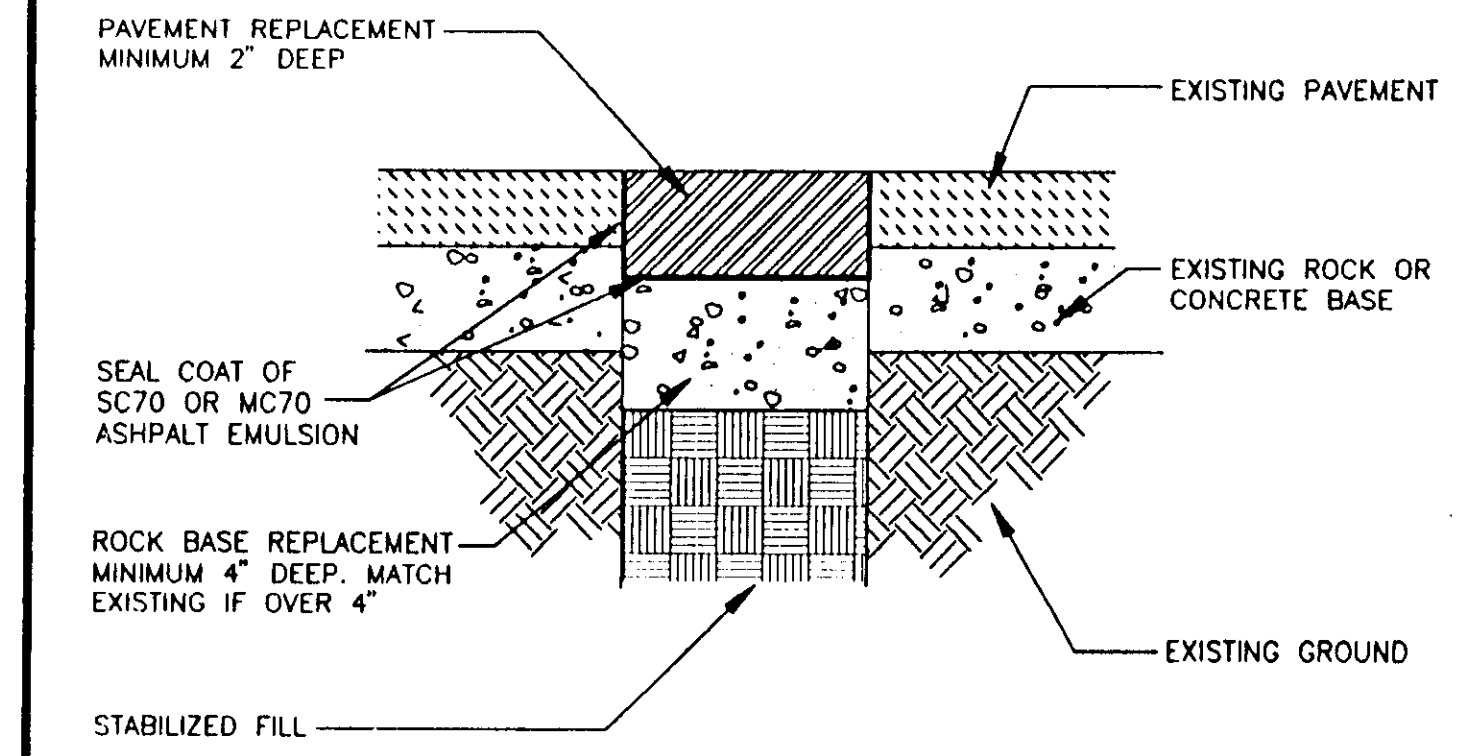
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DRAWN BY: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

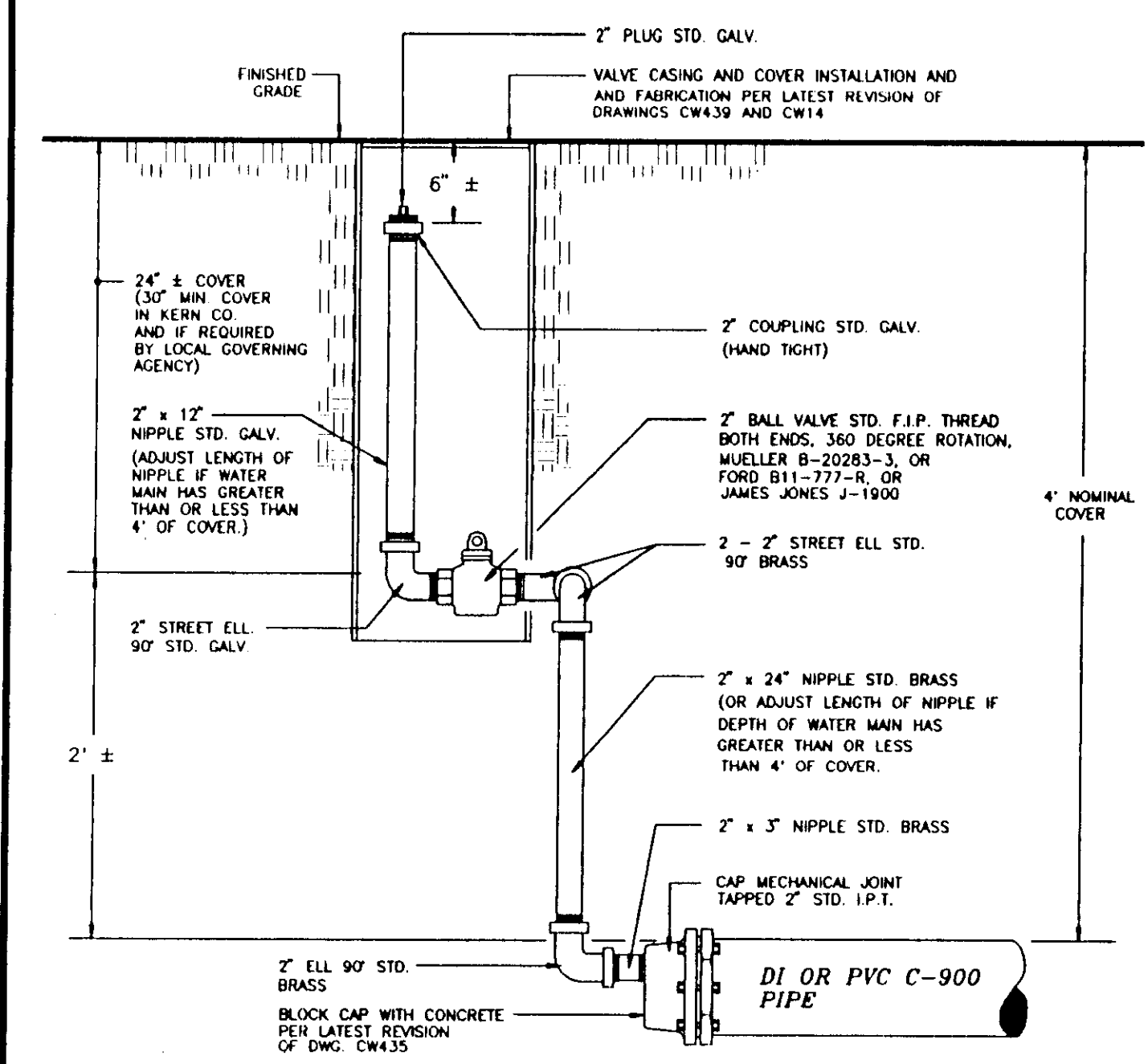
CHECKED BY: \_\_\_\_\_

A.P.G. APPROVED BY: \_\_\_\_\_

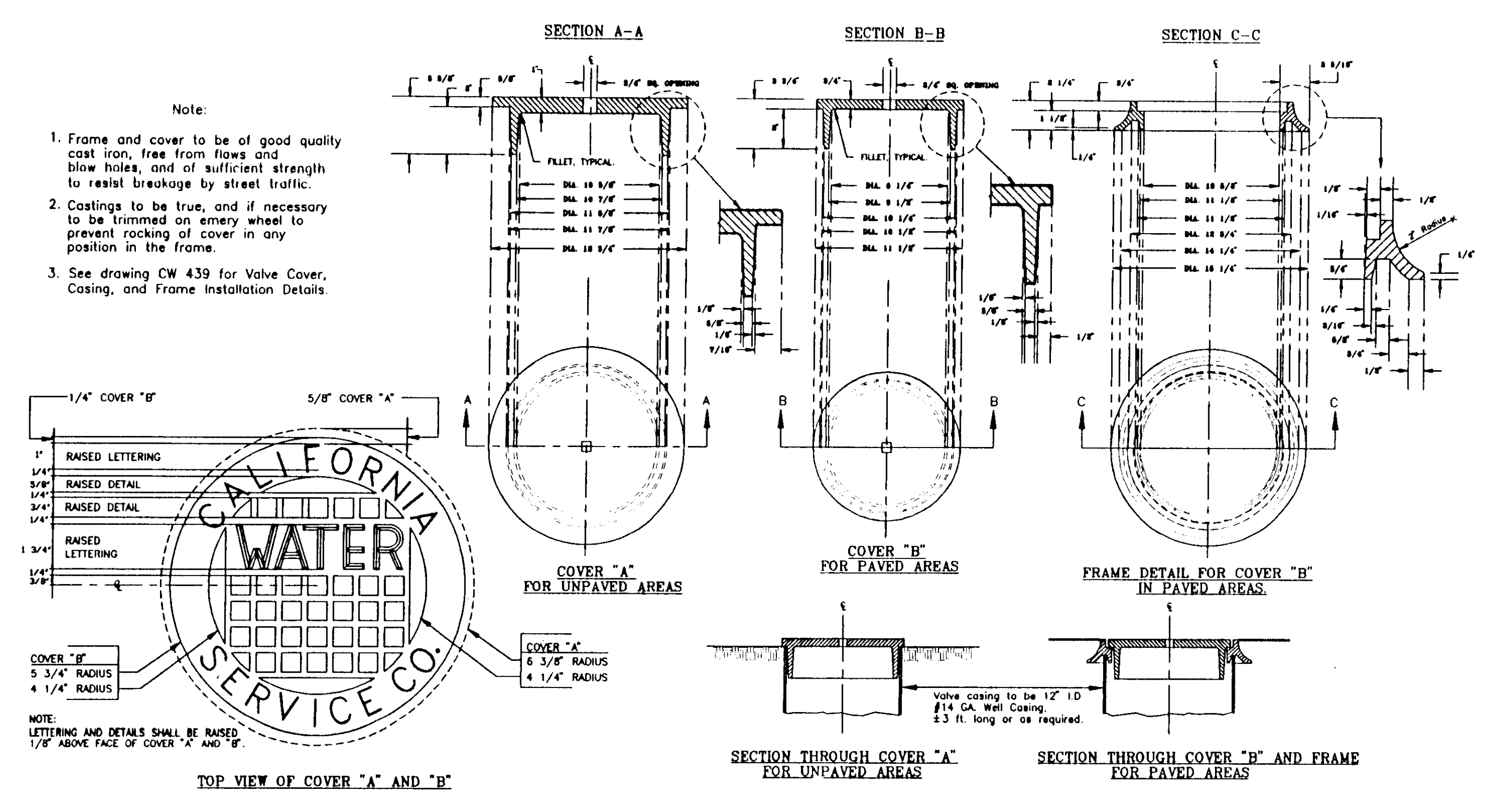


- NOTES
- Place seal coat as shown on base in all cases before placing top pavement.
  - If the paving being replaced is A.C., then the replacement paving and rock base shall match the existing pavement section, or with a minimum of four inches of rock base and two inches of A.C., whichever is the greater.
  - Pavement base shall be replaced as concrete to match existing when concrete has been removed.
  - If the paving being replaced is oil and screenings, then the replacement paving and rock base shall match the existing pavement section.

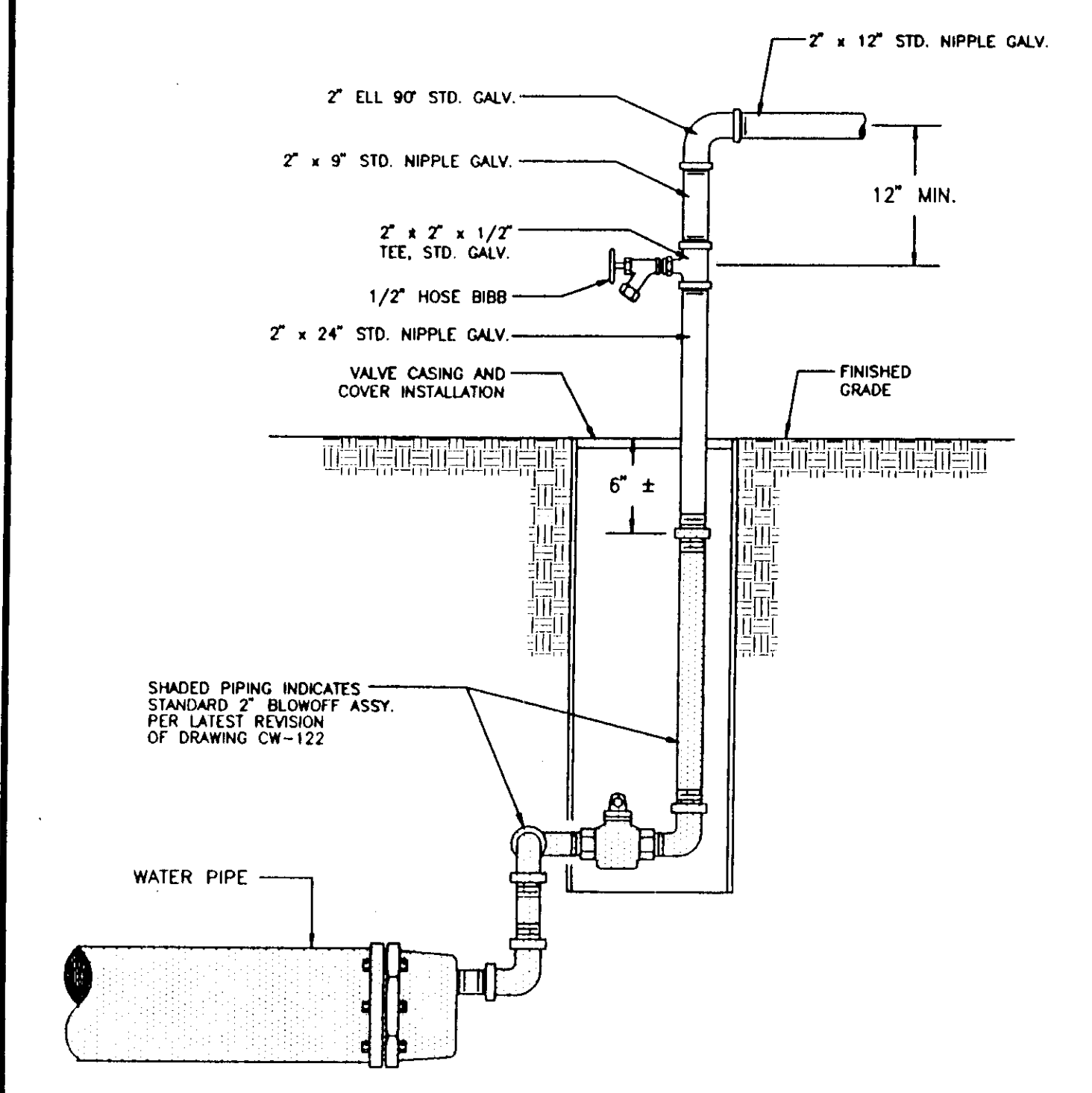
CW 236R2 RECOMMENDED PLAN AND SPECIFICATIONS FOR REPLACING PAVEMENT



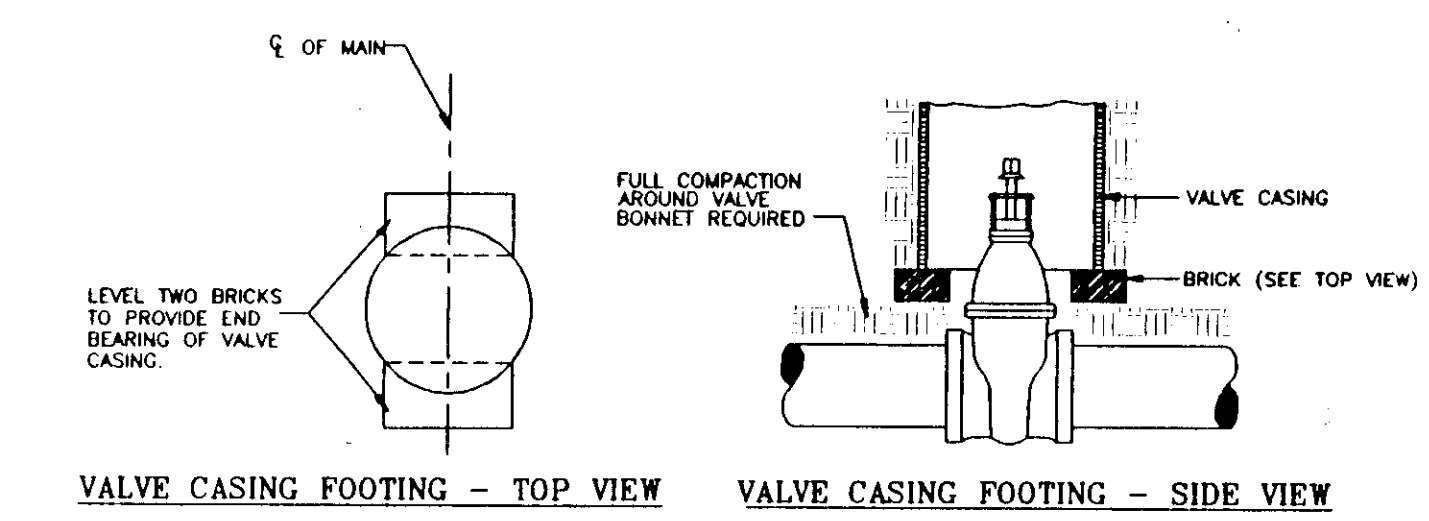
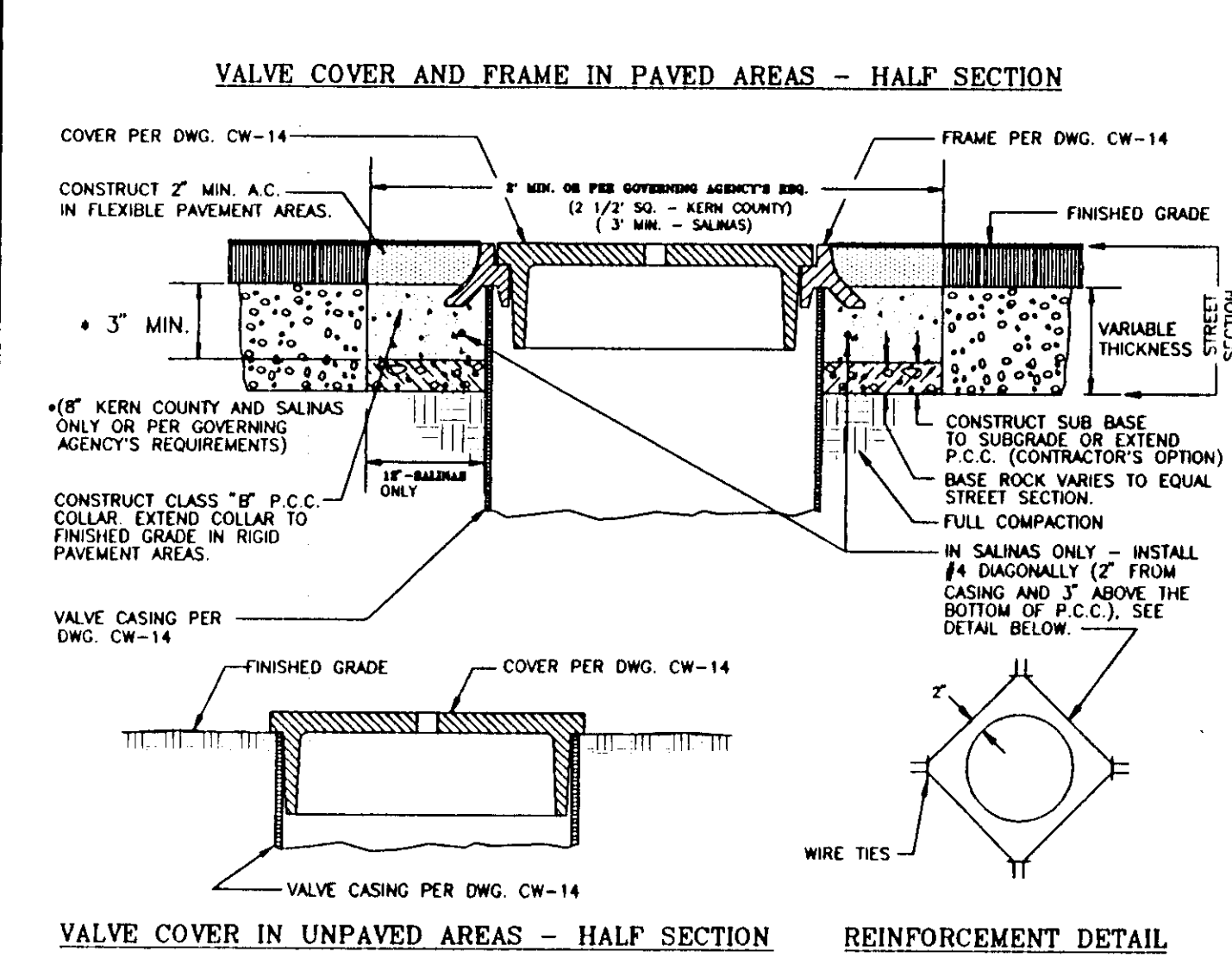
CW 122R2 STANDARD 2" BLOW OFF ASSEMBLY



CW 14R2 VALVE COVER AND FRAME FABRICATION DETAILS FOR PAVED AND UNPAVED AREAS

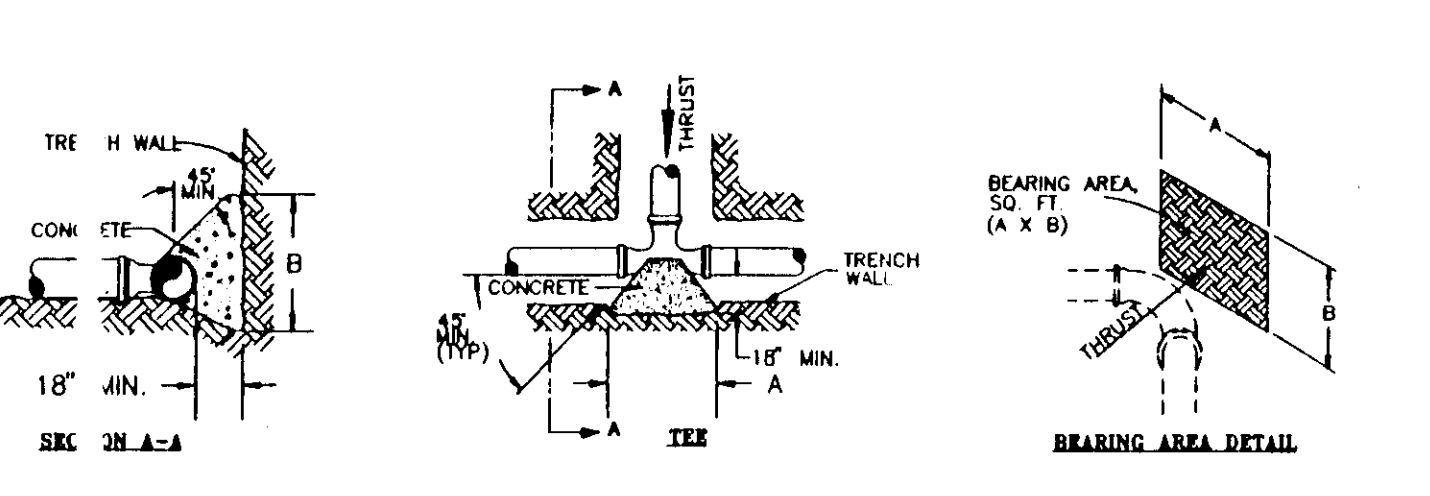


CW 638R1 SAMPLING DEVICE FOR 2" BLOW-OFF

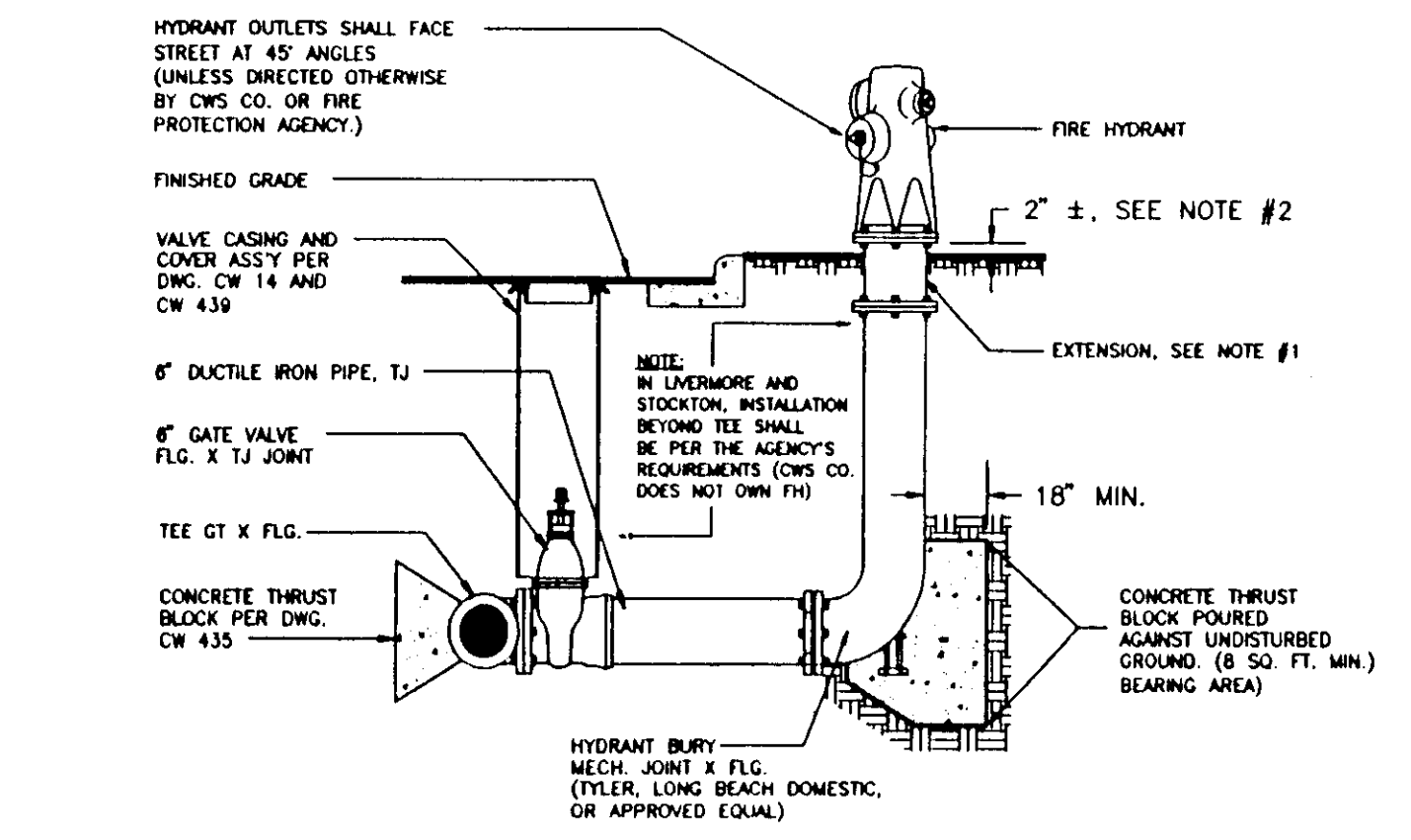


CW 439R2 VALVE CASING, COVER, AND FRAME INSTALLATION DETAILS

PIPE SIZE	FITTING	THRUST BLOCK SCHEDULE							
		TYPE OF SOIL							
		SOFT CLAY (2000 P.S.F.)		SAND (2000 P.S.F.)		ROCK (2000 P.S.F.)			
		MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.)	MIN. BEARING AREA (SQ. FT.)		
6"	PLUG, CAP	8	3	2	3	2	1.5	2	1
	90° ELL	8	3.2	2.5	4.1	2.7	1.5	3	2
	22 1/2° ELL	4.4	2.2	2	2.3	1.5	1.5	1.5	1
8"	PLUG, CAP	10	4	2.5	7	2.8	2.5	3	2
	90° ELL	10	4	2.5	7	2.8	2.5	3	2
	22 1/2° ELL	4	2	2	2	1.5	1.5	1	1
12"	PLUG, CAP	24	8	4	12	4	3	7.5	3
	90° ELL	24	8	4	12	4	3	7.5	3
	22 1/2° ELL	10	4	2.5	5	2.5	2	3.3	2.2
14"	PLUG, CAP	32	8.5	5	16	4.6	3.5	10.8	3.8
	90° ELL	32	8.5	5	16	4.6	3.5	10.8	3.8
	22 1/2° ELL	12	4	3	4	3	2	4	3
16"	PLUG, CAP	40	7.4	5.5	20	5	4	13.5	4.5
	90° ELL	40	7.4	5.5	20	5	4	13.5	4.5
	22 1/2° ELL	15	4.5	3.5	7.8	3	2.6	5.2	2.8
18"	PLUG, CAP	52	8	6.5	28.4	6.8	4	17.5	5
	90° ELL	52	8	6.5	28.4	6.8	4	17.5	5
	22 1/2° ELL	20	5	4	10.5	3.5	3	6.9	3



CW 43R3 TYPICAL THRUST BLOCK INSTALLATION



- NOTES:
- A hydrant extension may be required to adjust for finished grade.
  - For wet barrel hydrants this dimension is from finished grade to bury's flange or extension's flange when an extension is required.
  - Push-on, flanged fitting joints, and/or threaded-flanged risers may be required in certain fire protection districts. Verify with a C.W.S. Co. representative all fire hydrant material prior to the installation. (In Livermore and Stockton verify with the Fire Protection Agency that has jurisdiction.)
  - Fire hydrant barricades shall be required when a vertical or rolled curb does not exist, or when the fire hydrant needs to be protected from moving vehicles, per drawing CW 622.
  - All underground machine bolts and nuts shall be 304 stainless steel, except for breakout bolts or bolts installed above the finished grade.
  - A 90° Elbow may be required for the fire hydrant installation when space is limited and the hydrant lead must run parallel to the main or the location of the fire hydrant requires the bend.
  - Protect all underground bolts and nuts per CWS Co. Standard Coating Specification.
  - For temporary or additional restraint, a "Field Lok" gasket may be used on the TJ end of the gate valve and at all TJ pipe joints, and a "Mega A Lug" retainer gland may be used on the mech. joint end of the bury. This installation does not eliminate the use of thrust blocks.

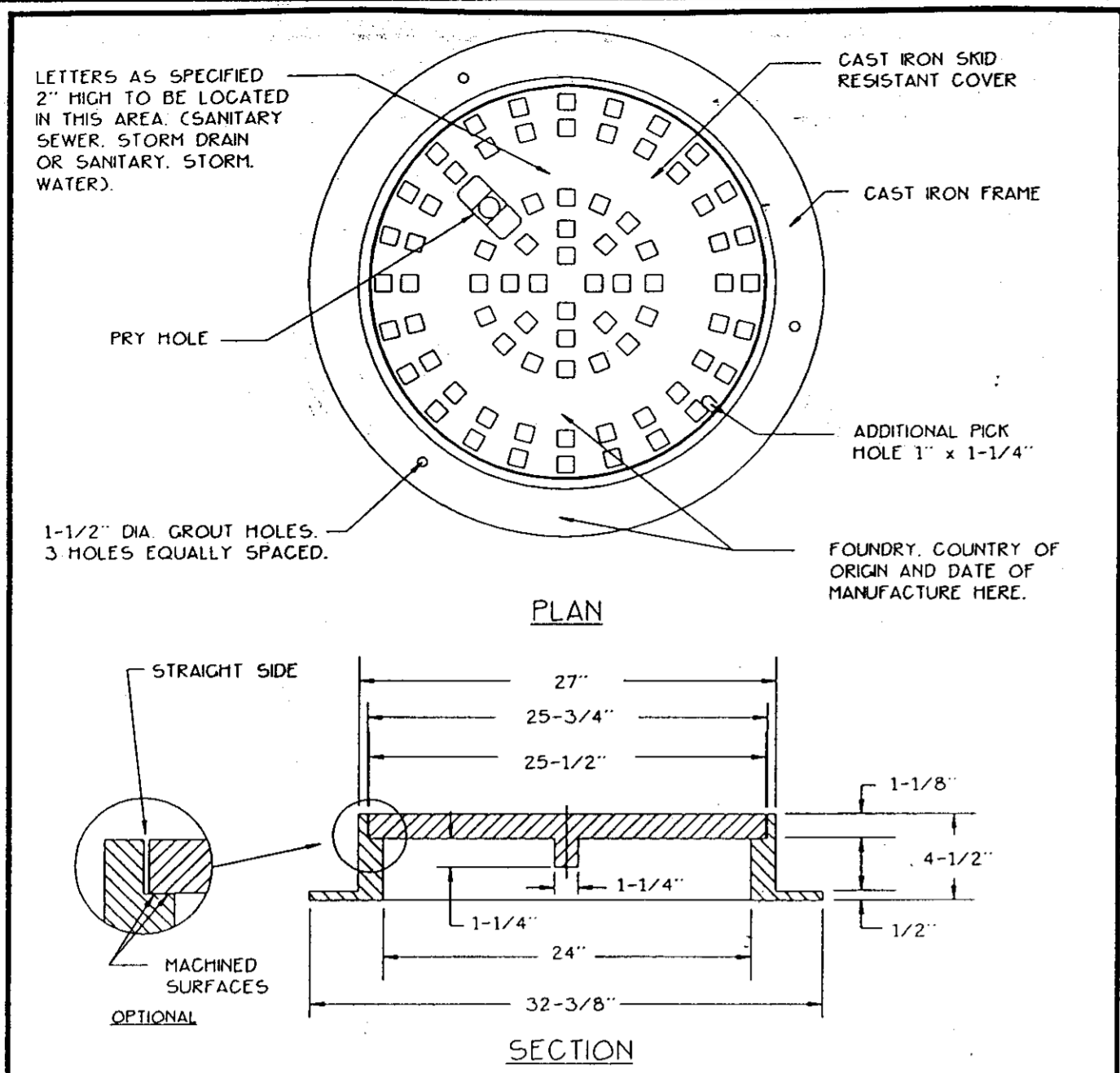
CW 380R8 TYPICAL FIRE HYDRANT INSTALLATION

SU-2914

CALIFORNIA WATER SERVICE CO. STANDARD DRAWINGS





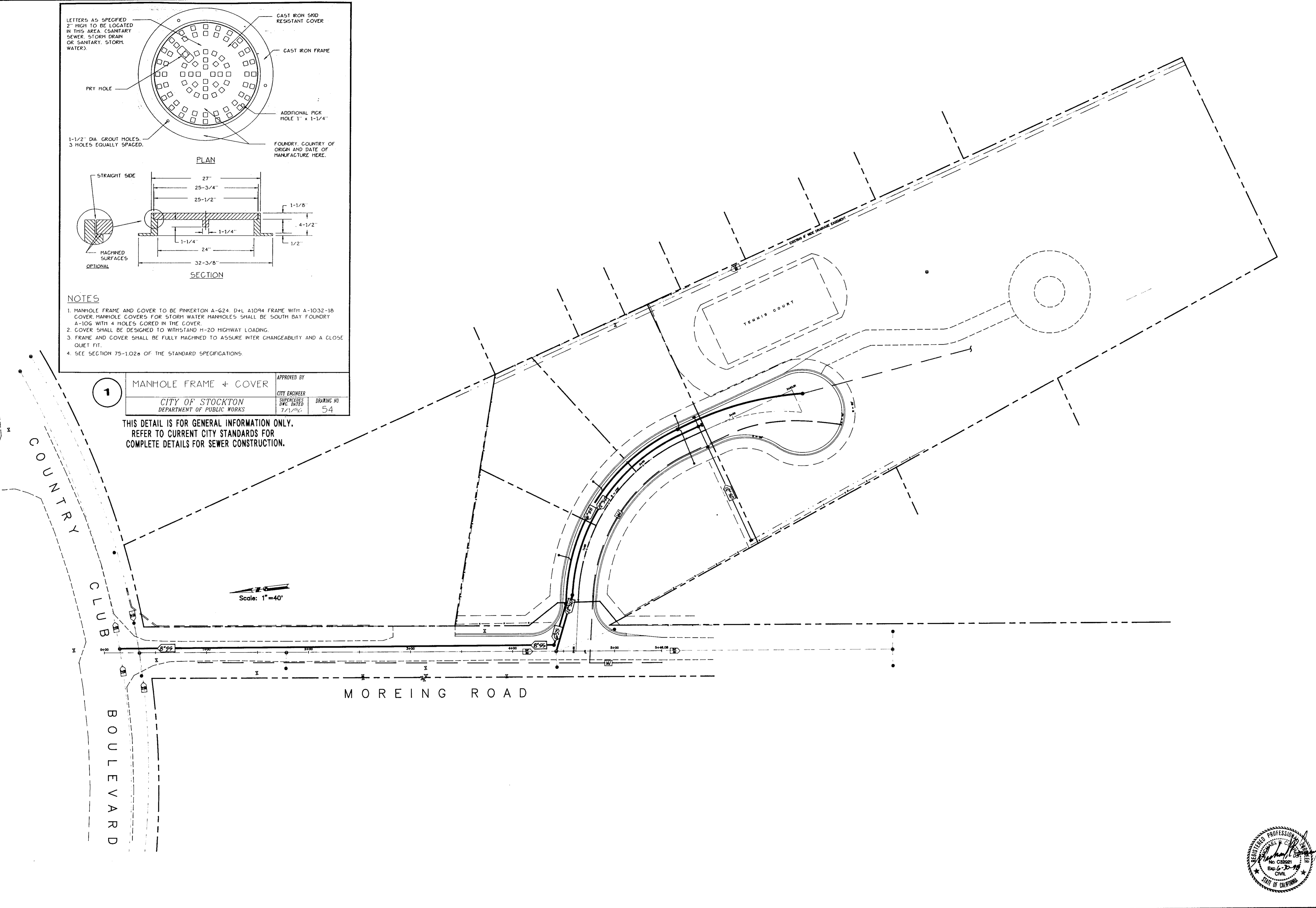


**NOTES**

1. MANHOLE FRAME AND COVER TO BE PINKERTON A-624, D-4L A1094 FRAME WITH A-1032-18 COVER. MANHOLE COVERS FOR STORM WATER MANHOLES SHALL BE SOUTH BAY FOUNDRY A-106 WITH 4 HOLES CORED IN THE COVER.
2. COVER SHALL BE DESIGNED TO WITHSTAND H-20 HIGHWAY LOADING.
3. FRAME AND COVER SHALL BE FULLY MACHINED TO ASSURE INTER CHANGEABILITY AND A CLOSE QUIET FIT.
4. SEE SECTION 75-1.02a OF THE STANDARD SPECIFICATIONS.

<b>1</b>	<b>MANHOLE FRAME + COVER</b>	APPROVED BY
	CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS	CITY ENGINEER SUPERCEDES DWG. DATED 7/1/95
		DRAWING NO. 54

THIS DETAIL IS FOR GENERAL INFORMATION ONLY.  
REFER TO CURRENT CITY STANDARDS FOR  
COMPLETE DETAILS FOR SEWER CONSTRUCTION.

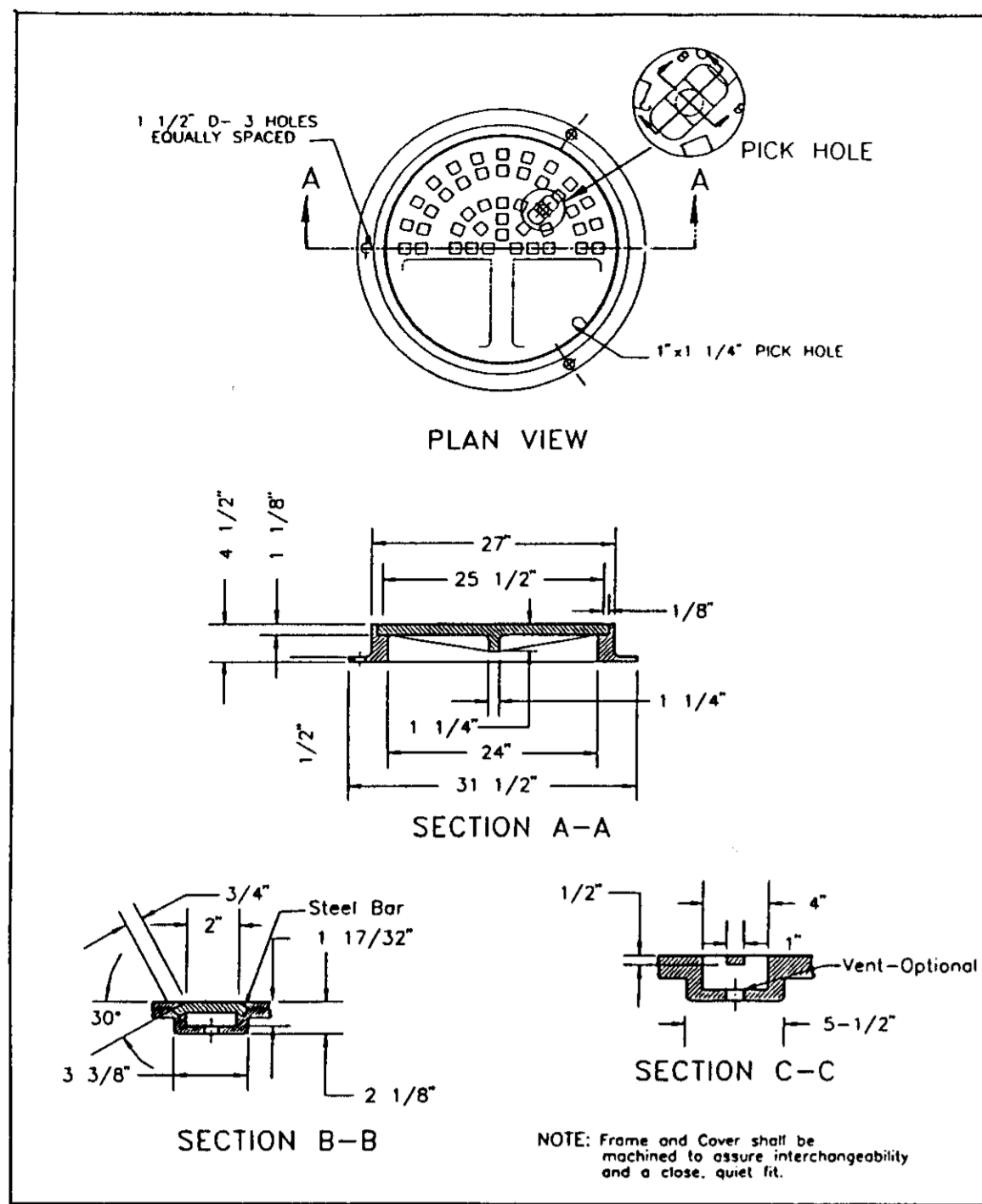


UTILITY LAYOUT PLAN

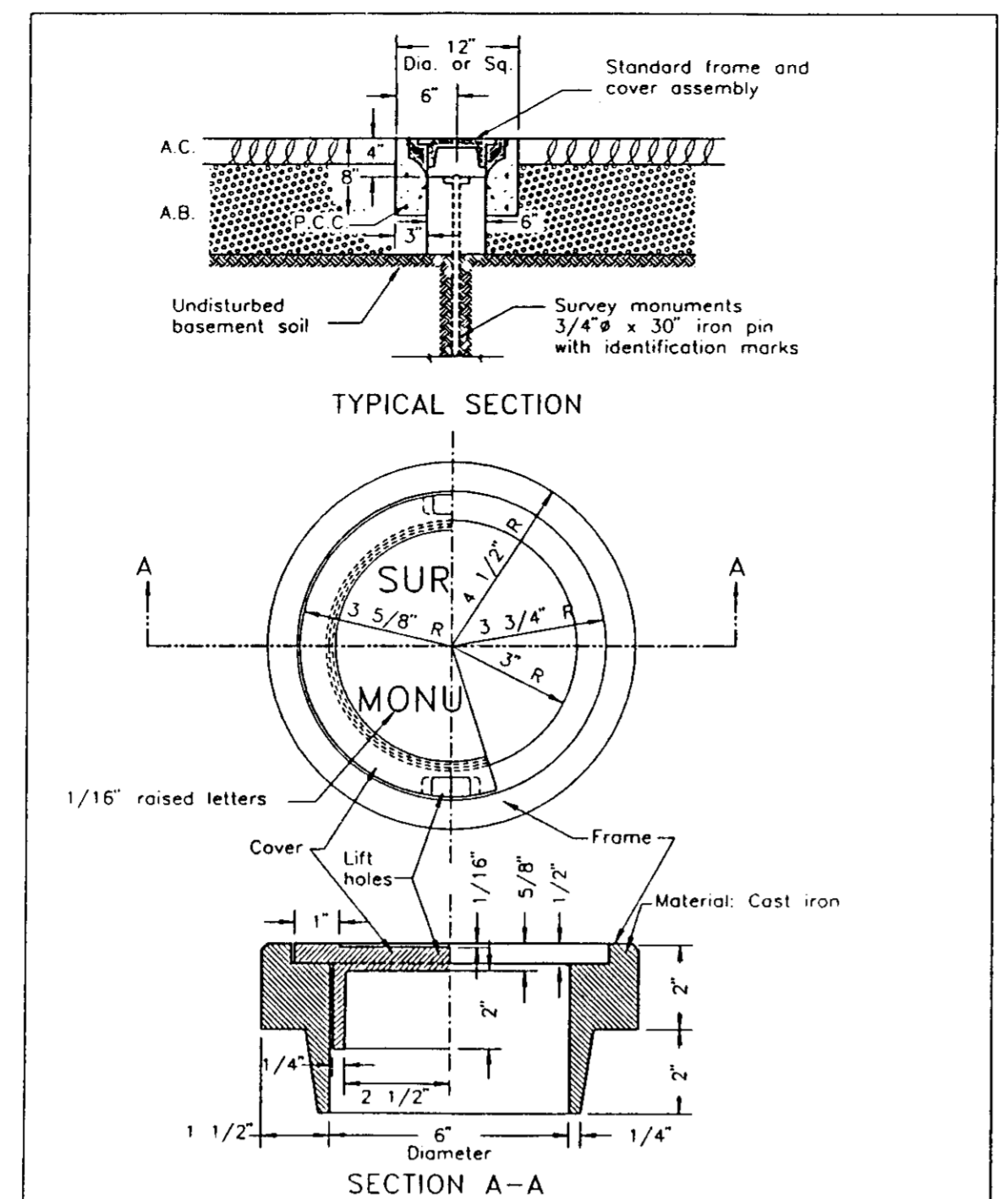
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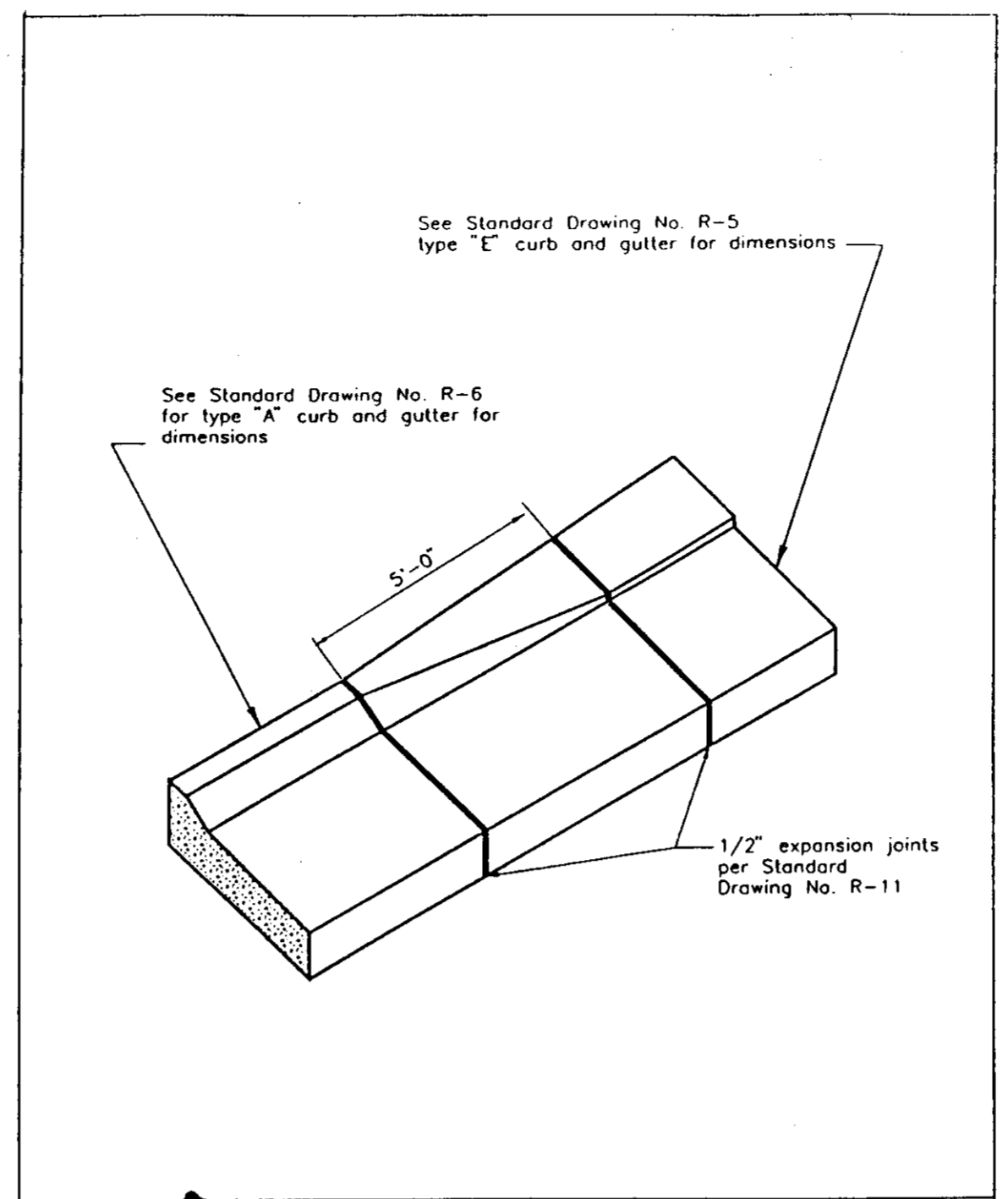
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Drawn	C.G.C.												
Check	K.L.K.												
Revisions	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/16/94</td> <td>C.C. S.J.C.O. COMMENTS</td> </tr> <tr> <td>2</td> <td>4/27/94</td> <td>209 S.J. Co. COMMENTS</td> </tr> <tr> <td>3</td> <td>1/17/95</td> <td>209 S.J. Co. COMMENTS</td> </tr> </tbody> </table>	No.	Date	Description	1	5/16/94	C.C. S.J.C.O. COMMENTS	2	4/27/94	209 S.J. Co. COMMENTS	3	1/17/95	209 S.J. Co. COMMENTS
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2	4/27/94	209 S.J. Co. COMMENTS											
3	1/17/95	209 S.J. Co. COMMENTS											
<b>KJELSEN-SINNOCK &amp; ASSOCIATES, INC.</b> CONSULTING CIVIL ENGINEERS													
1113 W. FREMONT STREET STOCKTON, CALIFORNIA 95203 (209) 946-0265													
COLLINS SUBDIVISION IMPROVEMENT PLANS <b>DETAILS &amp; UTILITY          LAYOUT PLAN</b>													
Date	6/8/95												
Job Number	1224-001												
Scale	HORIZ. 1" = 40'												
Sheet Number	7 of 11												
File Number	E-1742												



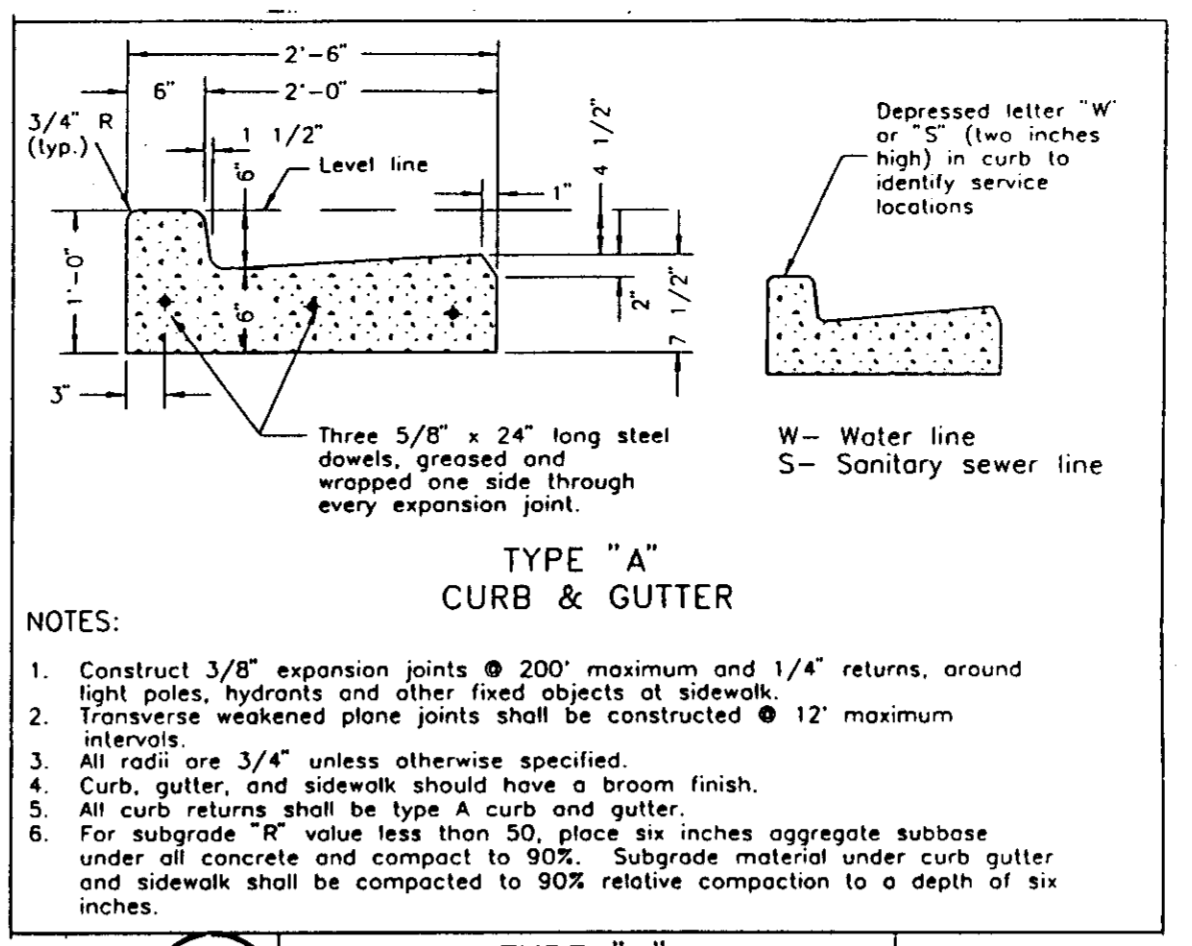
**15** FRAME & COVER (MANHOLE)



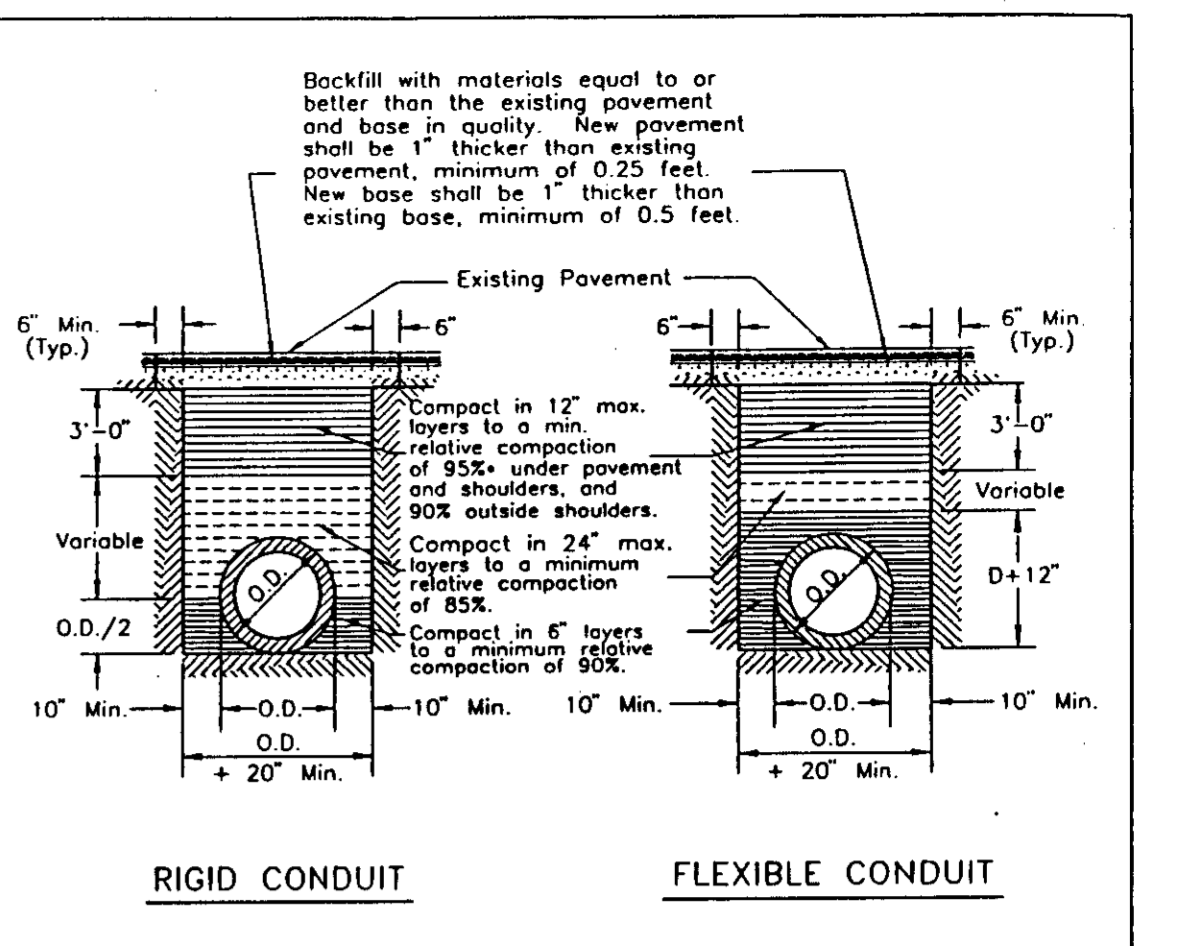
**12** SURVEY MONUMENT FRAME & COVER ASSEMBLY



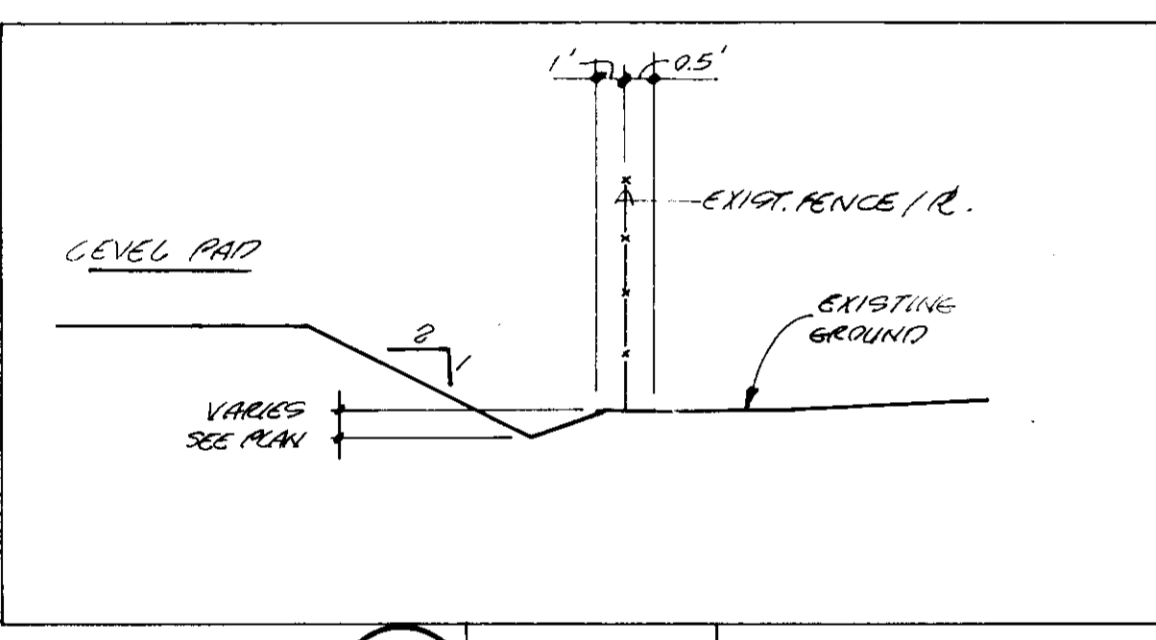
**9** CURB TRANSITION DETAIL



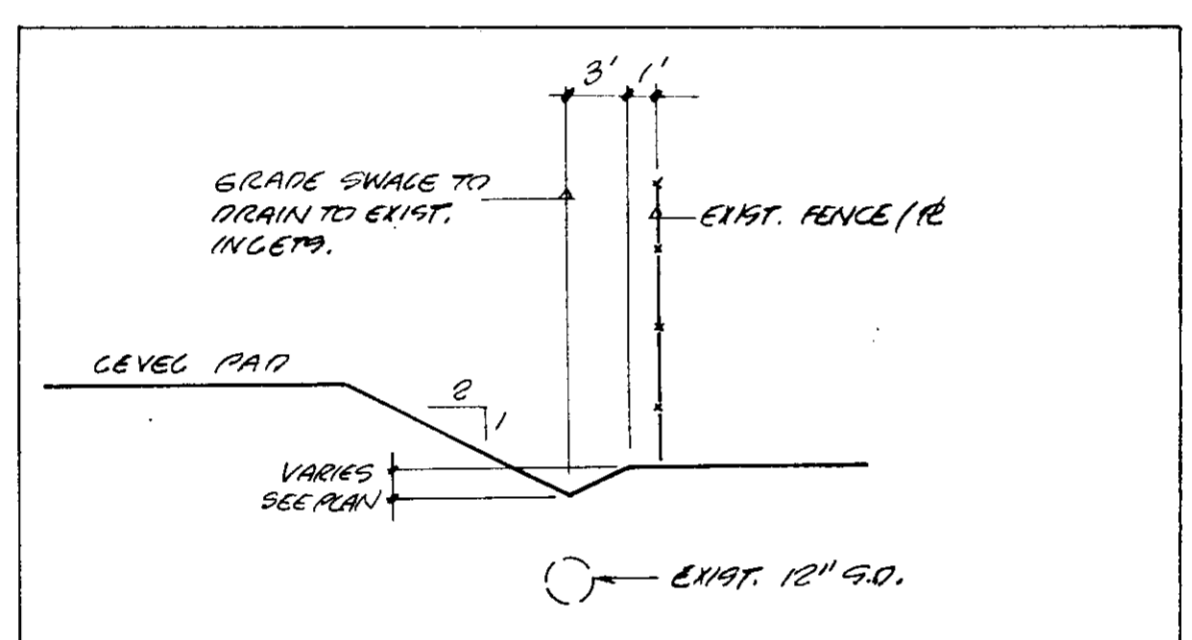
**6** TYPE "A" CURB, GUTTER, & SIDEWALK COMMERCIAL & INDUSTRIAL



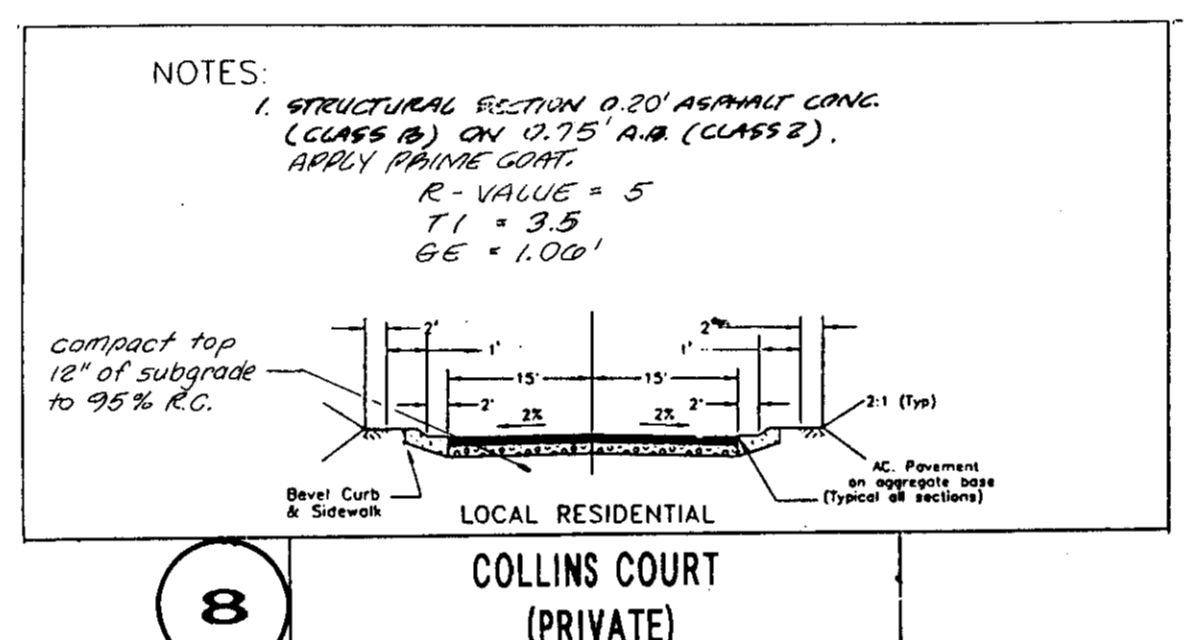
**3** TYPICAL TRENCH BACKFILL



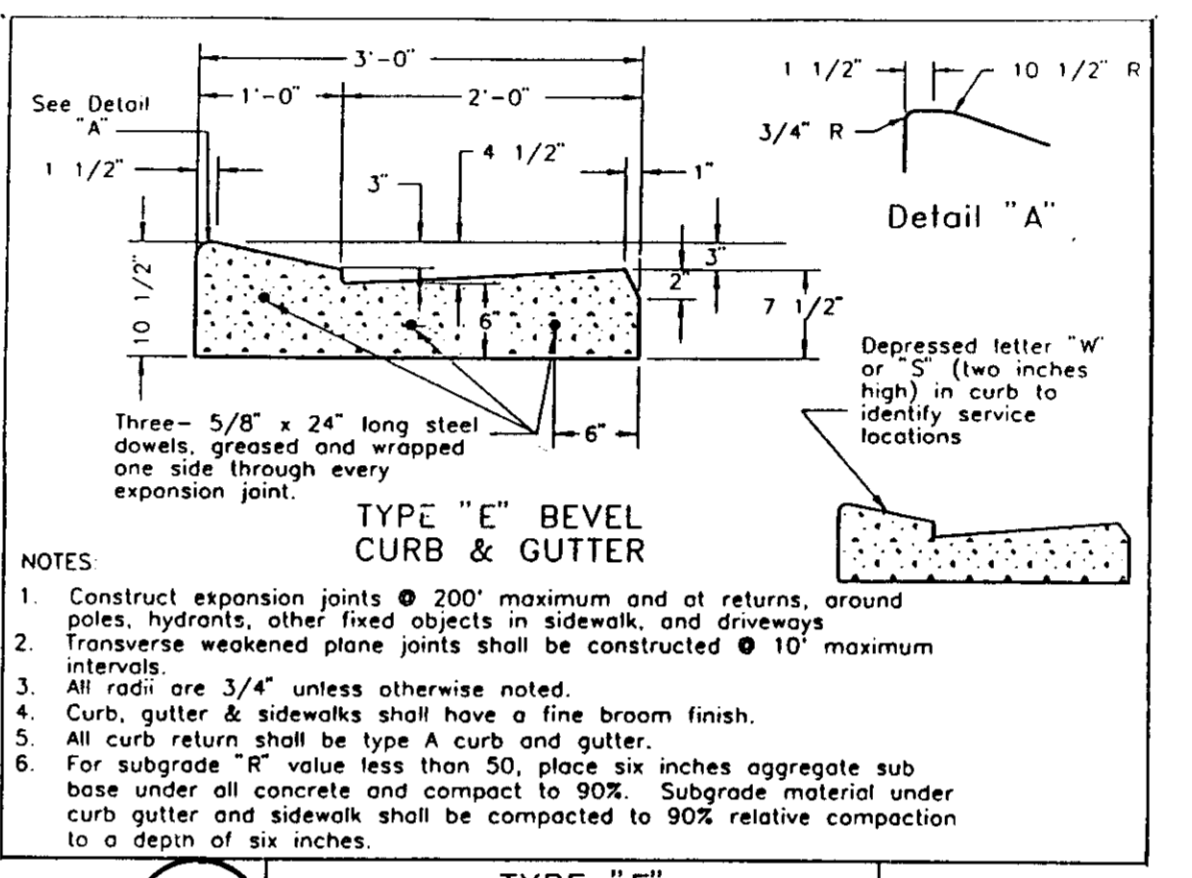
**14** SECTION A-A



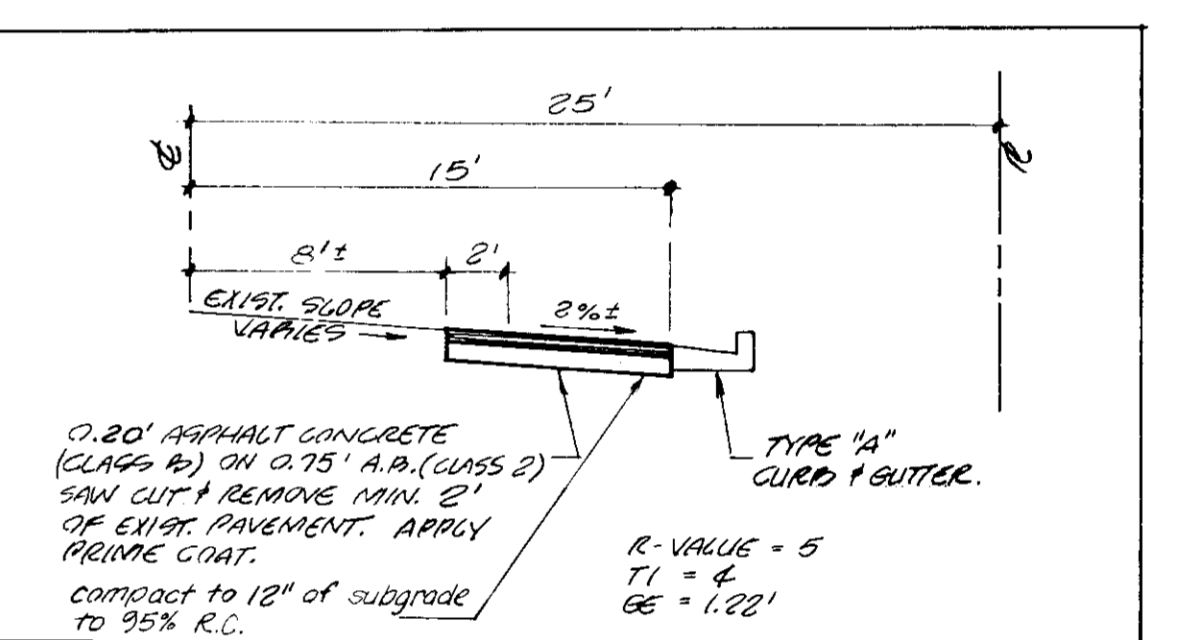
**11** SECTION B-B



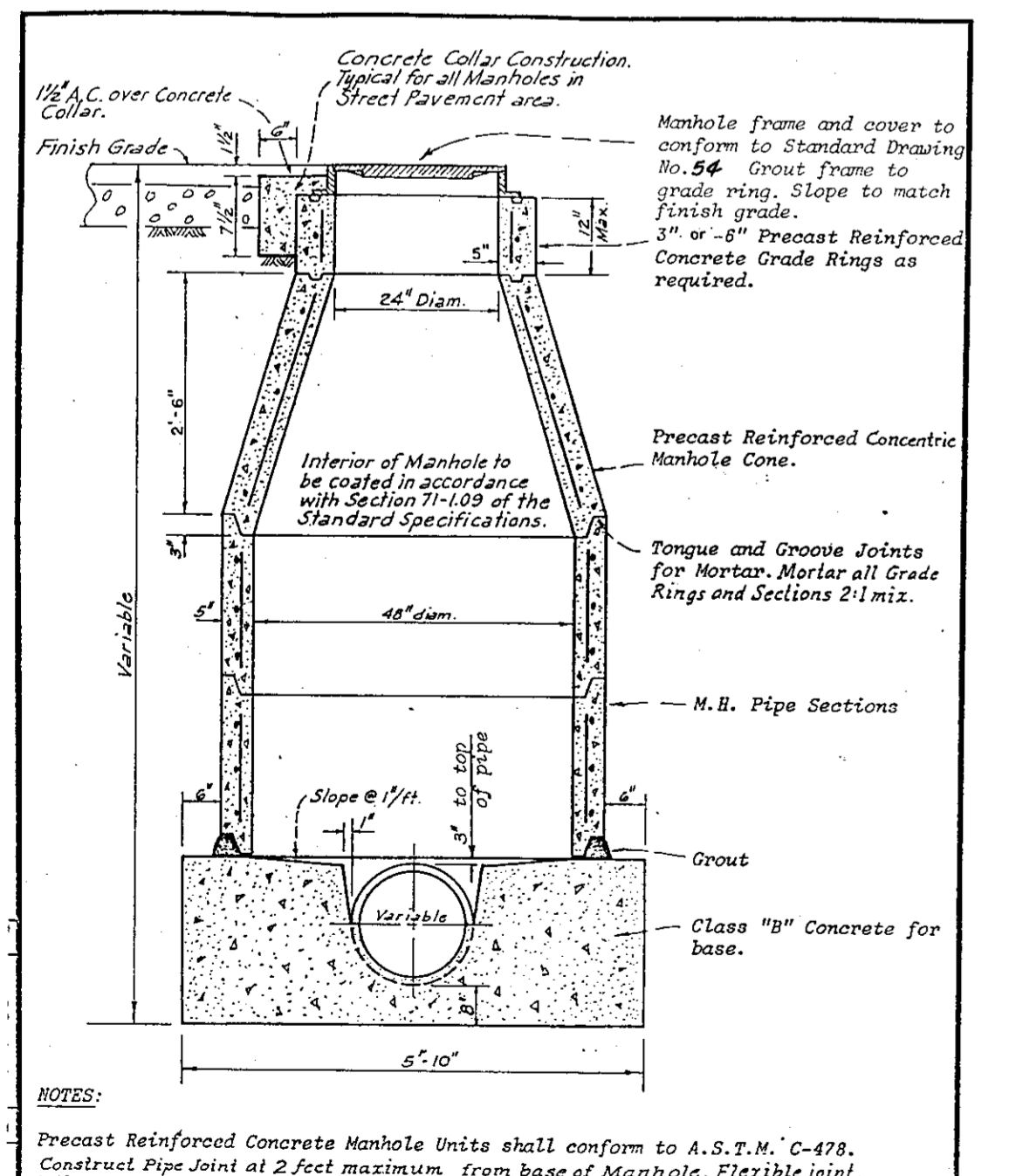
**8** COLLINS COURT (PRIVATE)



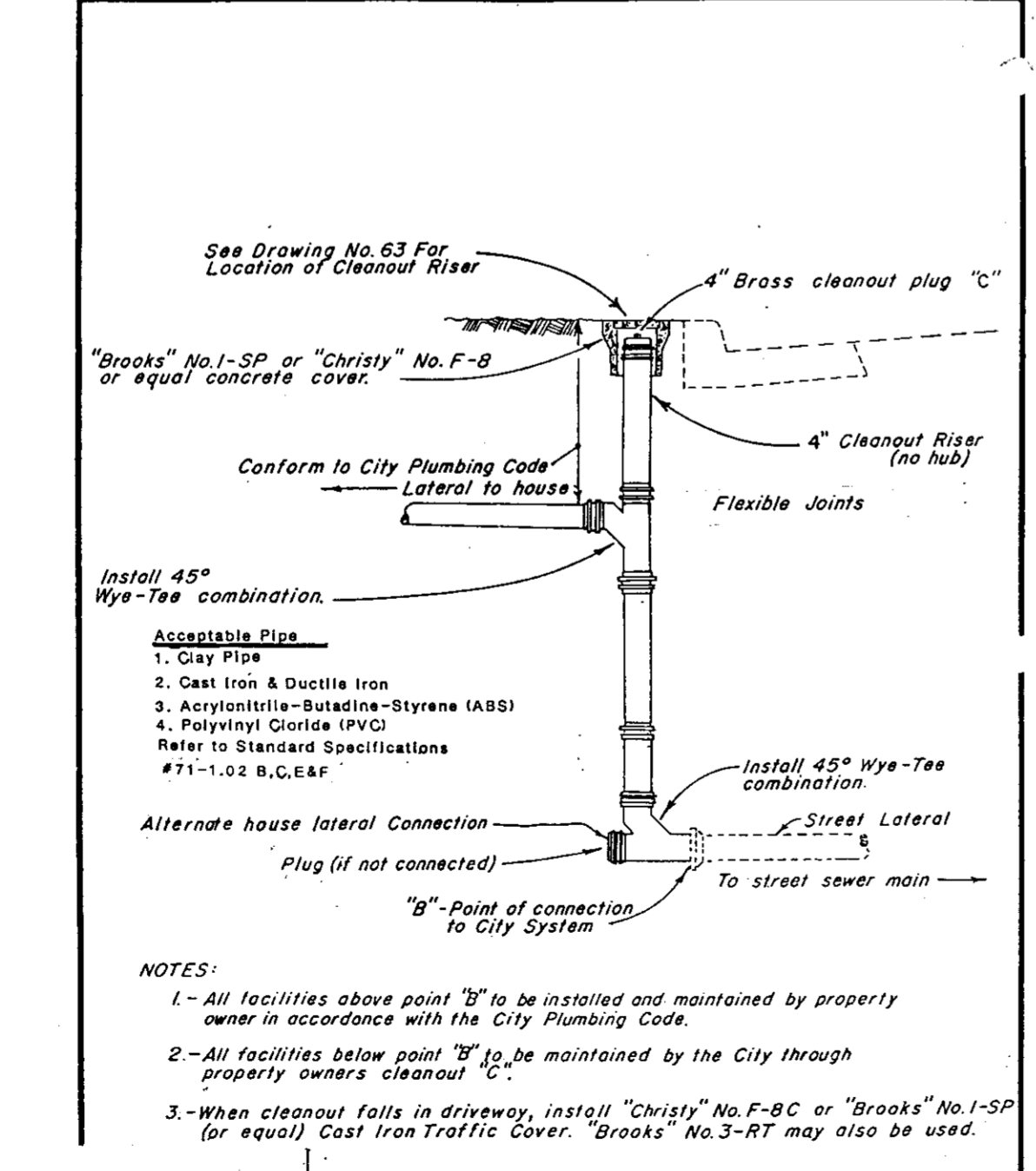
**5** TYPE "E" CURB & GUTTER RESIDENTIAL STREETS



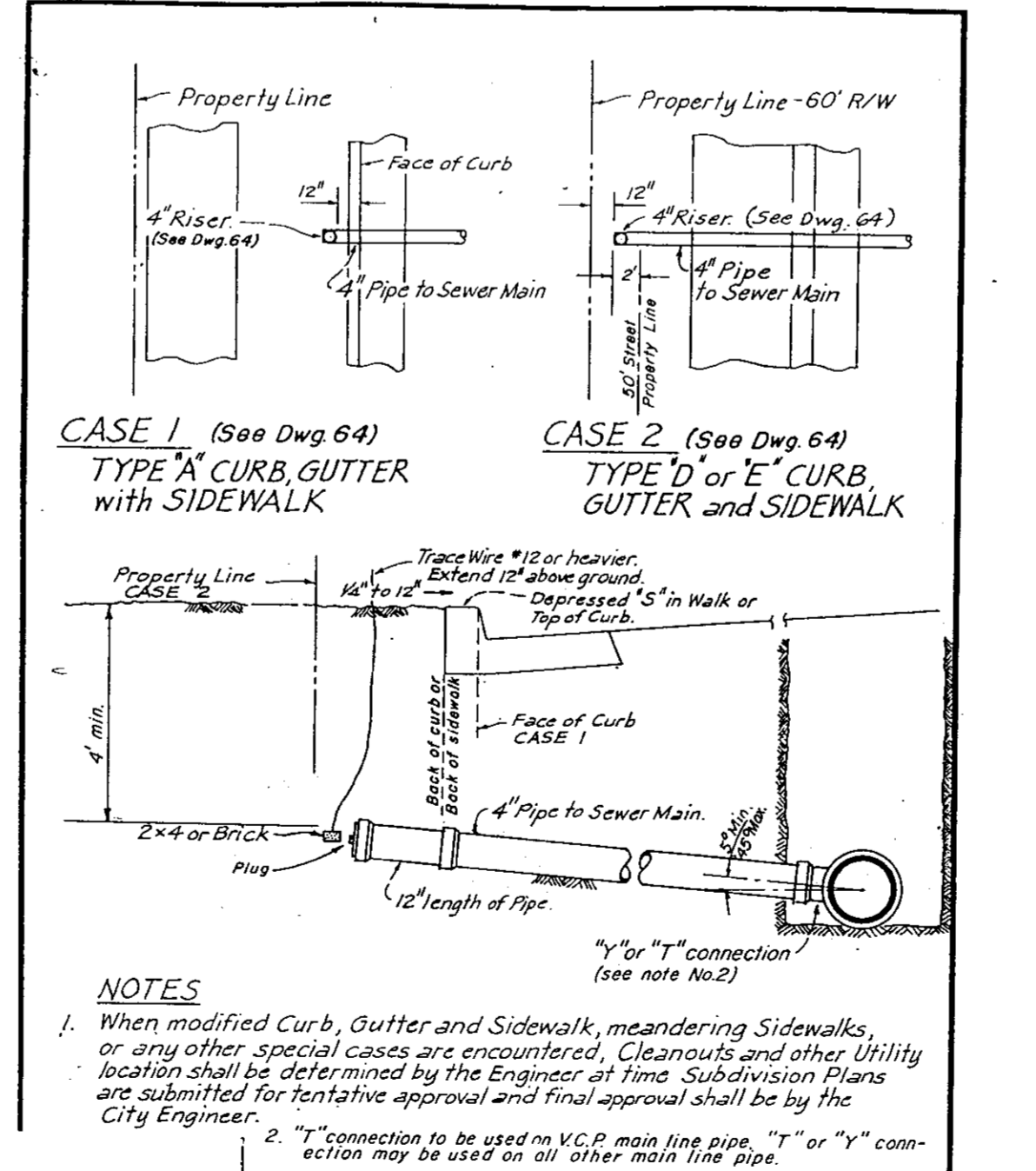
**2** MOREING ROAD



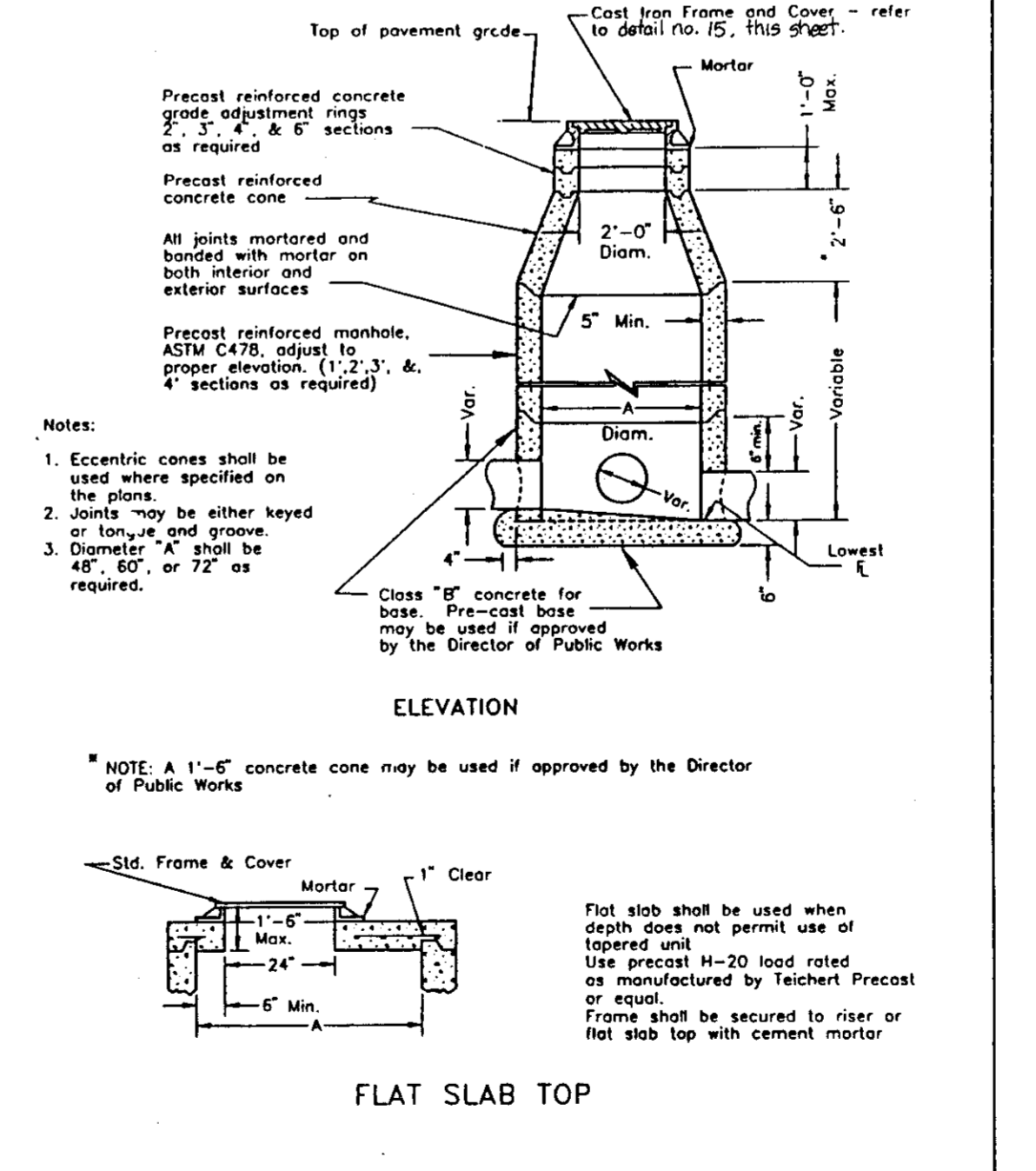
**13** MANHOLE TYPE I FOR PIPES 33\"/>



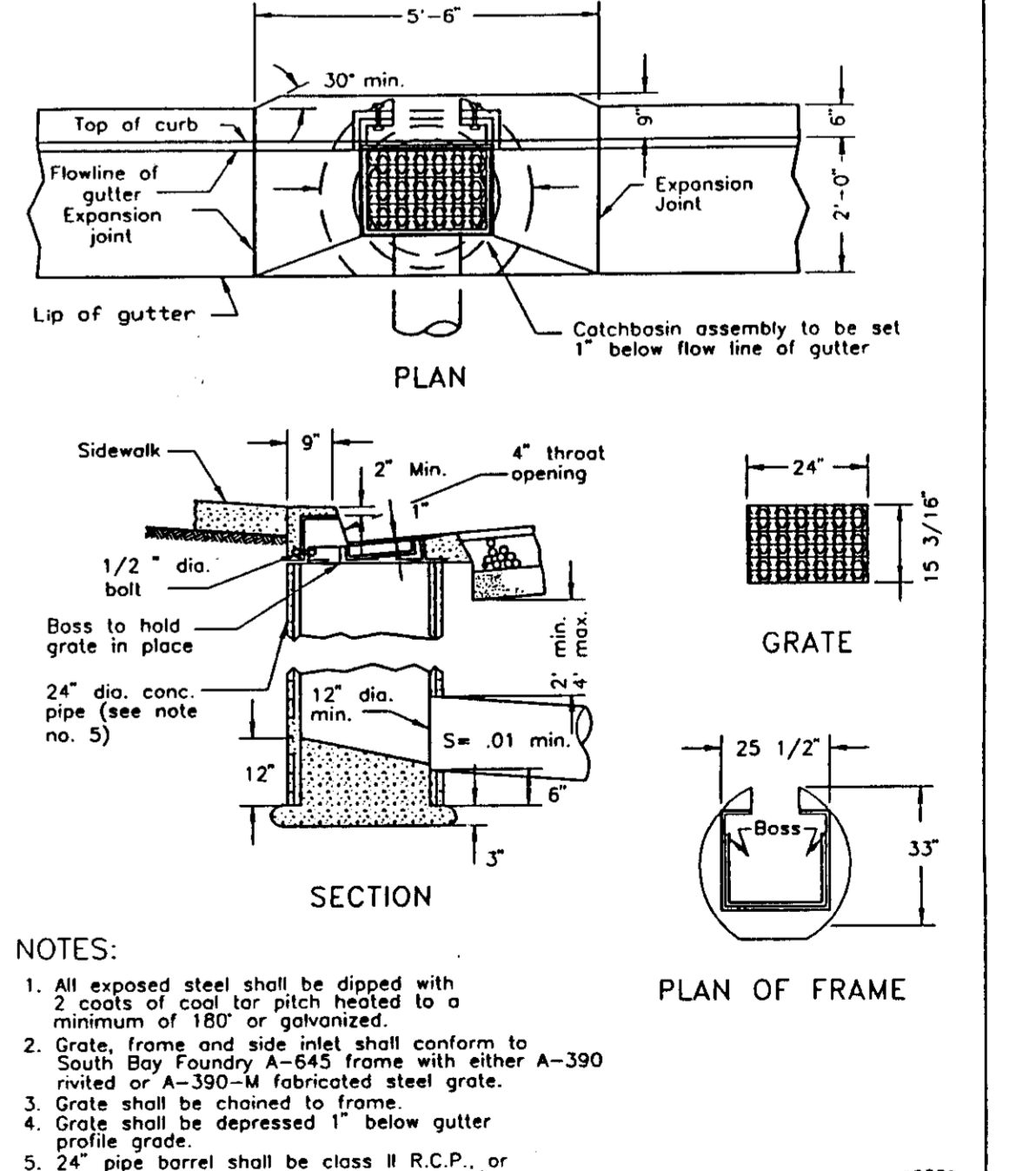
**10** CLEANOUT



**7** HOUSE LATERAL



**4** STANDARD STORM DRAIN MANHOLE



**1** TYPE 1 CURB IN LET CATCHBASIN

SU-2718

THESE DETAILS ARE FOR GENERAL INFORMATION ONLY. REFER TO CURRENT CITY STANDARDS FOR COMPLETE DETAILS FOR SEWER CONSTRUCTION.

Design: M.R.C.  
 Drawn: C.G.C.  
 Check: K.L.K.

**KJELSDEN-SINNOCK & ASSOCIATES, INC.**  
 CONSULTING CIVIL ENGINEERS

1113 W. FREEMONT STREET  
 STOCKTON, CALIFORNIA  
 (209) 946-0888

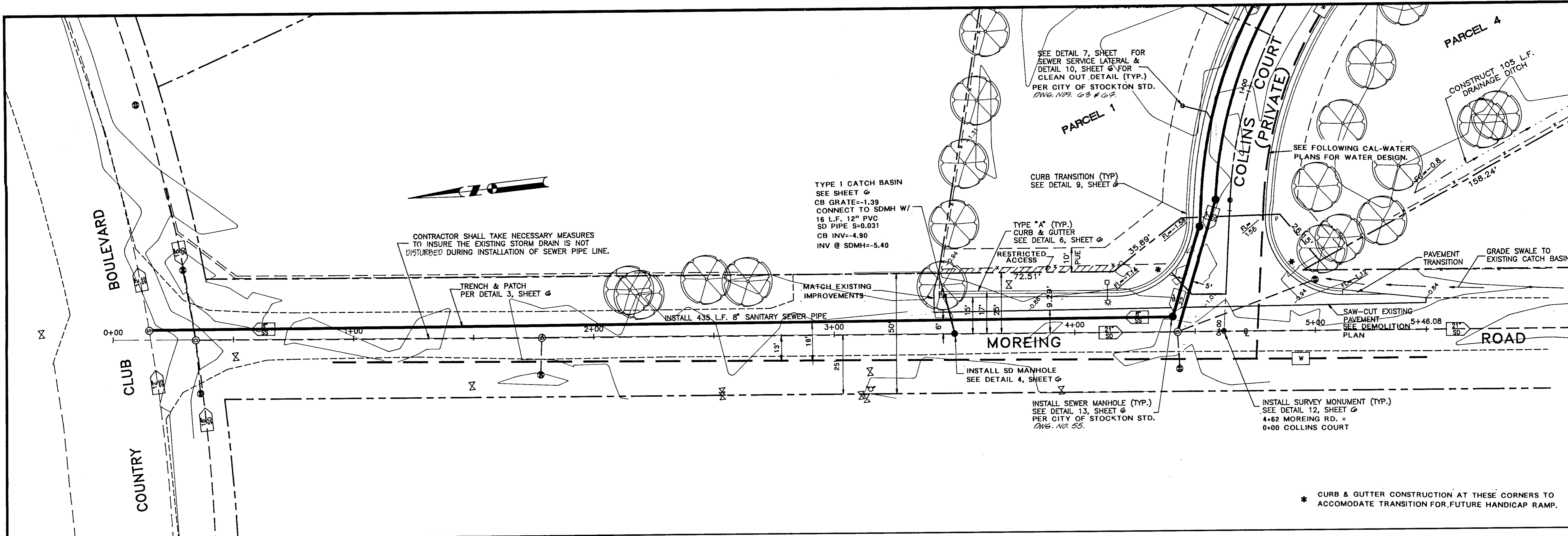
Submitted: \_\_\_\_\_  
 Approved: \_\_\_\_\_

DATE: 5/7/93  
 JOB NUMBER: 1224-001  
 SCALE: NO-SCALE  
 SHEET NUMBER: 6 OF 11  
 FILE NUMBER: E-1742

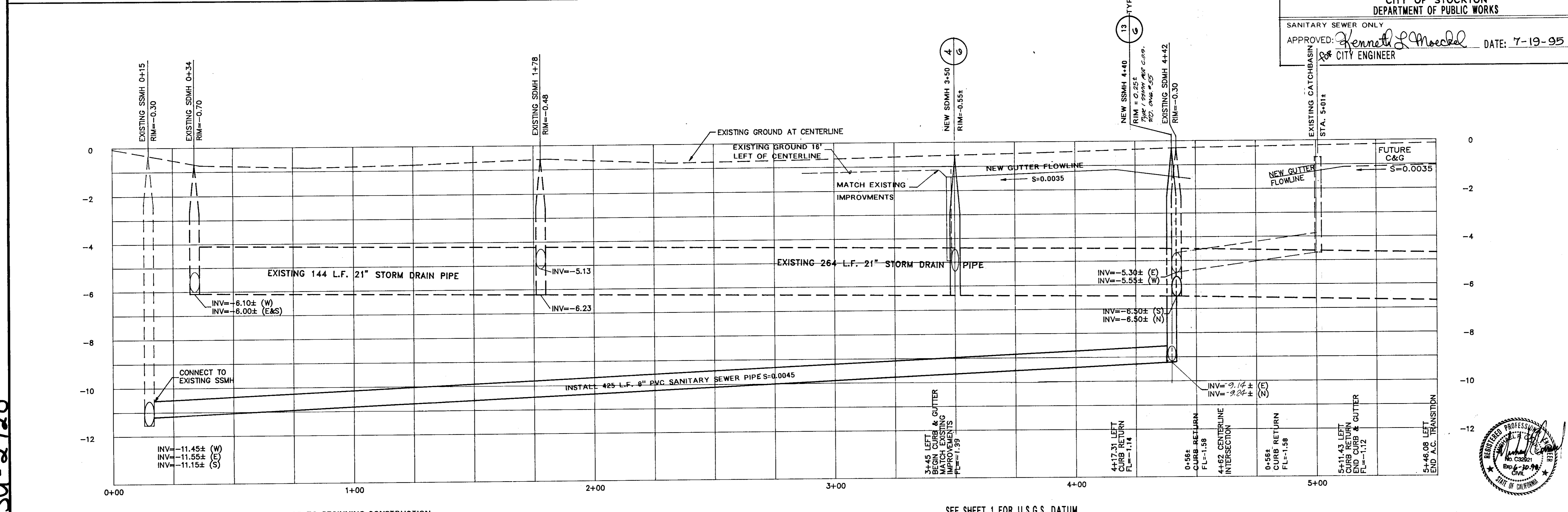
COLLINS SUBDIVISION IMPROVEMENT PLANS

DETAILS





MOREING ROAD PLAN SCALE: 1" = 20'



MOREING ROAD PROFILE SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 2'

Design	m.r.c.												
Drawn	c.g.c.												
Check	k.l.k.												
Revisions	<table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/18/93</td> <td>S.I.C.O. COMMENTS</td> </tr> <tr> <td>2</td> <td>7/19/95</td> <td>S.I.C.O. COMMENTS</td> </tr> <tr> <td>3</td> <td>7/19/95</td> <td>S.I.C.O. COMMENTS</td> </tr> </tbody> </table>	No.	Date	Description	1	5/18/93	S.I.C.O. COMMENTS	2	7/19/95	S.I.C.O. COMMENTS	3	7/19/95	S.I.C.O. COMMENTS
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Submitted													
Date													
R.C.E.													

**KJELDSEN-SINNOCK & ASSOCIATES, INC.**  
 CONSULTING CIVIL ENGINEERS  
 1113 W. FREMONT STREET  
 STOCKTON, CALIFORNIA 95203  
 (209) 946-0268

COLLINS SUBDIVISION IMPROVEMENT PLANS  
 MOREING ROAD  
 PLAN & PROFILE

Date: 5/18/93  
 Job Number: 1224-001  
 Scale: HORIZ. 1" = 20' VERT. 1" = 2'  
 Sheet Number: 4 of 11  
 File Number: E-1742

REGISTERED PROFESSIONAL CIVIL ENGINEER  
 No. 60221  
 Exp. 6-30-96  
 STATE OF CALIFORNIA

383130



Design: m.r.c.

Drawn: c.g.c.

Check: k.l.k.

Revisions	No.	Date	By	Description
	1	5/18/93	C.C.	S.J.C.C. COMMENTS
	2	9/22/94	dlg	S.J.C.C. COMMENTS
	3	7/17/95	dlg	S.J.C.C. COMMENTS

**KJELDSEN-SINNOCK & ASSOCIATES, INC.**  
CONSULTING CIVIL ENGINEERS

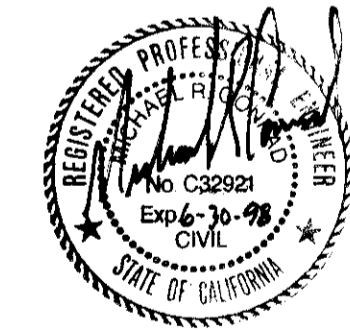
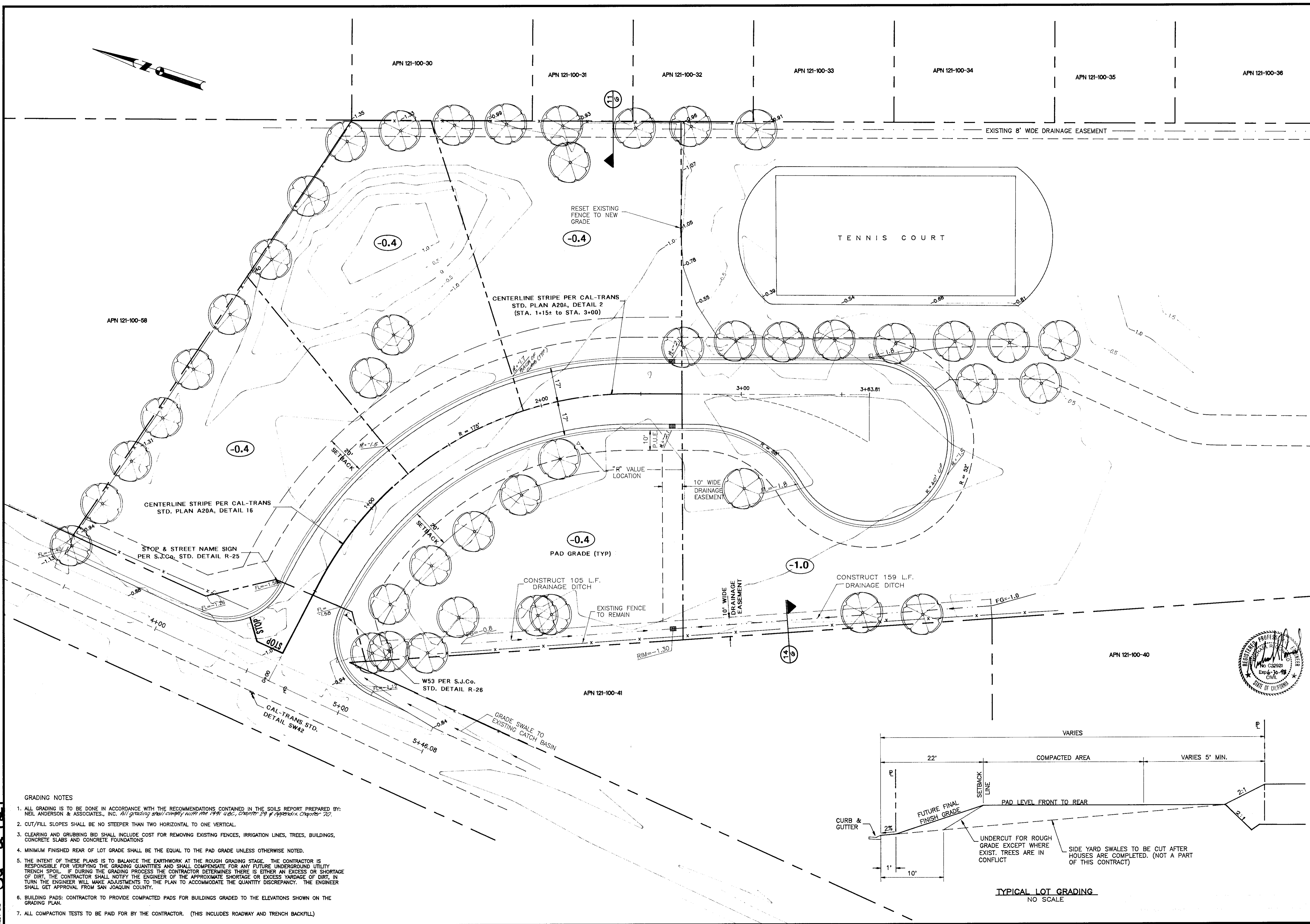
Submitted: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E. \_\_\_\_\_

1113 W. FREMONT STREET  
STOCKTON, CALIFORNIA 95203  
(209) 946-0288

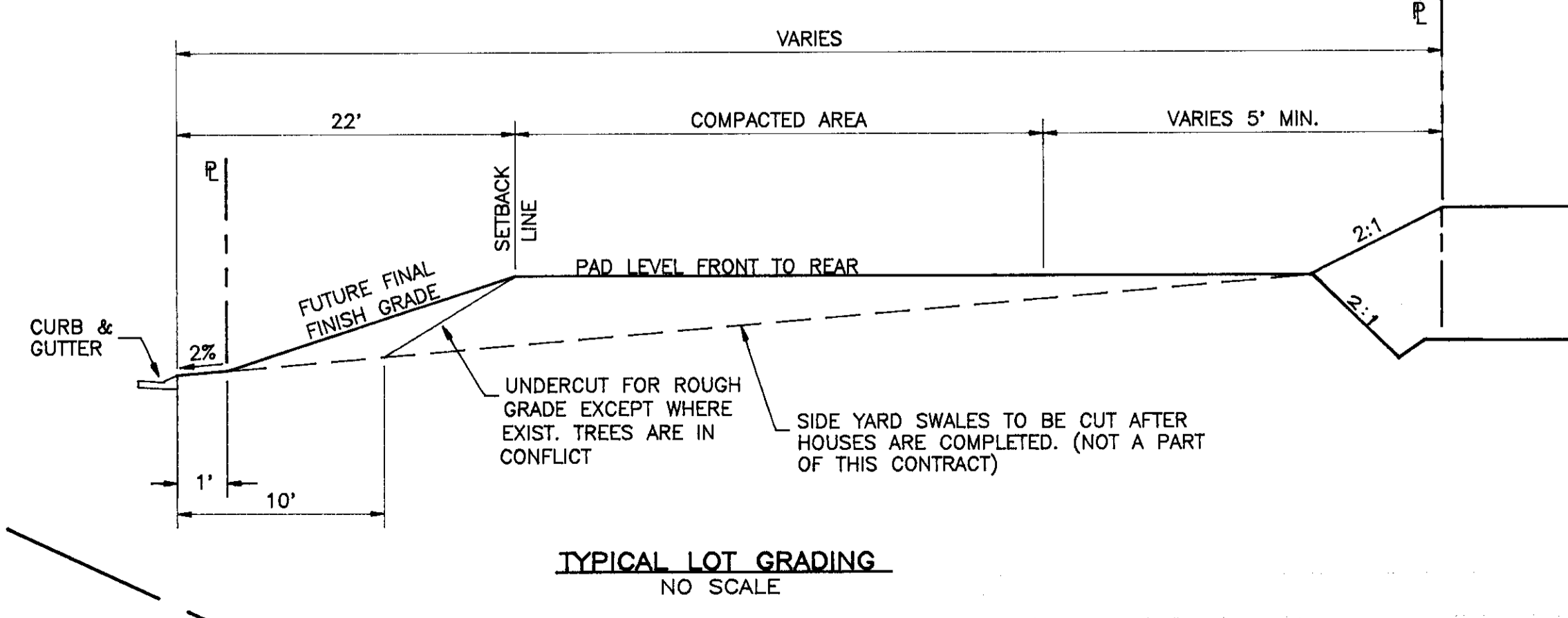
**COLLINS SUBDIVISION  
IMPROVEMENT PLANS**

**GRADING PLAN**

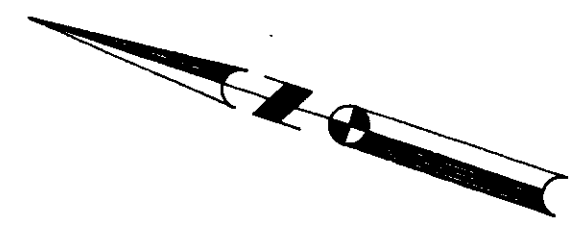
Date: 5/18/93  
Job Number: 1224-001  
Scale: 1"=20'  
Sheet Number: 3 of 11  
File Number: E-1742



- GRADING NOTES**
- ALL GRADING IS TO BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT PREPARED BY: NEIL ANDERSON & ASSOCIATES, INC. All grading shall comply with the 1991 C.C.C. Chapter 29 & Appendix Chapter 72.
  - CUT/FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
  - CLEARING AND GRUBBING BID SHALL INCLUDE COST FOR REMOVING EXISTING FENCES, IRRIGATION LINES, TREES, BUILDINGS, CONCRETE SLABS AND CONCRETE FOUNDATIONS.
  - MINIMUM FINISHED REAR OF LOT GRADE SHALL BE THE EQUAL TO THE PAD GRADE UNLESS OTHERWISE NOTED.
  - THE INTENT OF THESE PLANS IS TO BALANCE THE EARTHWORK AT THE ROUGH GRADING STAGE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE GRADING QUANTITIES AND SHALL COMPENSATE FOR ANY FUTURE UNDERGROUND UTILITY TRENCH SPOIL. IF DURING THE GRADING PROCESS THE CONTRACTOR DETERMINES THERE IS EITHER AN EXCESS OR SHORTAGE OF DIRT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE APPROXIMATE SHORTAGE OR EXCESS YARDAGE OF DIRT. IN TURN THE ENGINEER WILL MAKE ADJUSTMENTS TO THE PLAN TO ACCOMMODATE THE QUANTITY DISCREPANCY. THE ENGINEER SHALL GET APPROVAL FROM SAN JOAQUIN COUNTY.
  - BUILDING PADS: CONTRACTOR TO PROVIDE COMPACTED PADS FOR BUILDINGS GRADED TO THE ELEVATIONS SHOWN ON THE GRADING PLAN.
  - ALL COMPACTION TESTS TO BE PAID FOR BY THE CONTRACTOR. (THIS INCLUDES ROADWAY AND TRENCH BACKFILL)



SU-2921



APN 121-100-30

APN 121-100-31

APN 121-100-32

APN 121-100-33

APN 121-100-34

APN 121-100-35

APN 121-100-36

APN 121-100-58

APN 121-100-41

APN 121-100-40

EXISTING FENCE TO REMAIN

RESET EXISTING FENCE TO NEW GRADE

TENNIS COURT

EXISTING TENNIS COURT & PLANTER TO REMAIN

EXISTING DRAINAGE INLET

REMAINDER

EXISTING 8' WIDE DRAINAGE EASEMENT

EXISTING ROADWAY

SAW-CUT AND REMOVE EXISTING PAVEMENT

REMOVE EXISTING DROP INLET PLUG & ABANDON PIPE IN-PLACE

REMOVE EXISTING GATE

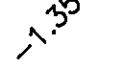
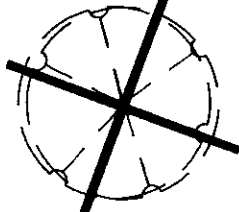
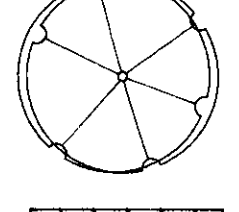
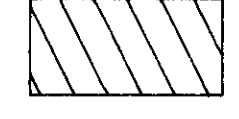
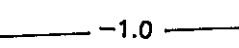
REMOVE EXISTING CURB & FENCING BOTH SIDES TYP.

EXISTING PLANTER TO BE REMOVED

EXISTING FENCE TO REMAIN

EXISTING DROP INLET & DRAIN PIPE TO REMAIN

LEGEND

-  EXISTING GRADE
-  TREE TO BE REMOVED
-  TREE TO REMAIN
-  EXISTING PAVEMENT TO BE REMOVED
-  EXISTING CONTOUR



Design m.r.c.

Drawn c.g.c.

Check k.l.k.

Revisions	No.	Date	By	Description
	1	5/6/94	C.C.	S.J.CO. COMMENTS
	2	9/22/94	dbf	S.J.CO. COMMENTS

**KJELDTSEN-SINNOCK & ASSOCIATES, INC.**  
CONSULTING CIVIL ENGINEERS

Submitted \_\_\_\_\_ Date \_\_\_\_\_  
R.C.F. \_\_\_\_\_

1113 W. FREMONT STREET  
STOCKTON, CALIFORNIA 95203  
(209) 946-0268

COLLINS SUBDIVISION  
IMPROVEMENT PLANS  
**DEMOLITION PLAN**

Date 5/18/93  
Job Number 1224-001  
Scale 1"=20'  
Sheet Number 2 of 11  
File Number E-1742

3031.1C

# COLLINS SUBDIVISION

## IMPROVEMENT PLANS

### SAN JOAQUIN COUNTY, CALIFORNIA

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THIS PROJECT.
- ALL IMPROVEMENTS TO BE DONE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SAN JOAQUIN COUNTY, AND THE LATEST EDITION OF THE STATE CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
- THE INTENT IS THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. HE SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY UTILITY COMPANIES TWENTY-FOUR HOURS IN ADVANCE OF ANY CONSTRUCTION. (UNDERGROUND SERVICE ALERT - (800) 642-2444).
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL AND/OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT SPECIFIC APPROVAL OF THE DIRECTOR.
- HANDICAPPED RAMPS ARE LOCATED AT ALL CURB RETURNS PER SAN JOAQUIN COUNTY STANDARD DRAWING R-10b UNLESS OTHERWISE NOTED.
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, 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 THE OWNER & 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 OR OWNER.
- THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, SLOPING OR PROVISIONS TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATIONS (CAL-OSHA, OSHA).
- THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY ENCROACHMENT PERMITS, THE PERMITS TO BE OBTAINED FROM SAN JOAQUIN COUNTY BEFORE BEGINNING OF WORK.
- ALL TRENCHES AND CROSS TRENCHES ON ALL EXISTING STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE TRENCHES ARE EXCAVATED.
- CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN, AND DOMESTIC WATER, SHALL BE DONE BY KJELSDEN-SINNOCK & ASSOCIATES INC.. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF HIS NEED FOR STAKING.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT KJELSDEN-SINNOCK & ASSOCIATES INC. FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ASBESTOS CEMENT MATERIALS SHALL NOT BE USED IN THE CONSTRUCTION OF ANY FACILITIES WITHIN THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE, WITH ENGINEER'S APPROVAL, FOR MATCHING EXISTING SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADES, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- THE CONTRACTOR SHALL EXPOSE AND CHECK INVERTS ON EXISTING SEWERS, STORM DRAINS, AND CLEARANCES OF KNOWN CROSSINGS WITH OTHER UTILITIES BEFORE CONSTRUCTING NEW PIPELINES. IF CONTRACTOR DETERMINES THE EXISTING INVERTS ARE NOT IN CONFORMANCE WITH THE PLANS, HE SHALL NOTIFY THE ENGINEER BEFORE PERFORMING ANY WORK.
- EXCAVATION TRENCH WIDTH FOR ALL PIPES WITH THE EXCEPTION OF WATER PIPING SHALL BE A MINIMUM OF 20 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. THE SAFETY REQUIREMENTS OF THE OCCUPATION SAFETY AND HEALTH ACT (OSHA & CAL OSHA) SHALL BE COMPLIED WITH FOR TRENCH SHORING AND BRACING.
- WHERE PAVEMENT IS TO BE EXTENDED, EXISTING IMPROVEMENT ENDS MUST BE SAW-CUT. ANY A.C. OR P.C.C. PAVEMENT REMOVED MUST BE SAW-CUT OR REMOVED TO AN EXISTING EXPANSION JOINT.
- ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF CONCRETE UNLESS FORMS ARE CHECKED BY THE ENGINEER PRIOR TO ANY POURING.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH CALTRANS AND CAL-OSHA SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE SITE AND SURROUNDING AREAS RESULTING FROM OPERATIONS PRIOR TO ACCEPTANCE OF HIS WORK.
- THE TYPES, LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES; HOWEVER, KJELSDEN-SINNOCK & ASSOCIATES INC. CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO REPAIR, TO THE SATISFACTION OF THE COUNTY, ANY FACILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- WHERE EXISTING FENCES ARE TO BE REMOVED FOR CONSTRUCTION PURPOSES THE CONTRACTOR SHALL REMOVE AND REPLACE THE FENCING IN KIND. WHERE THE EXISTING FENCE IS USED FOR PROPERTY SECURITY AND/OR CONTAINMENT THE CONTRACTOR SHALL ERECT TEMPORARY FENCING DURING CONSTRUCTION AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER.
- ALL LANDSCAPING AND SPRINKLER SYSTEMS DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED AND RECONSTRUCTED TO THEIR ORIGINAL LOCATION AND CONDITION, UNLESS OTHERWISE SHOWN HEREON OR AS DIRECTED BY THE ENGINEER.
- ALL TRAFFIC SIGNS AND MARKINGS SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CALTRANS TRAFFIC MANUAL AND SAN JOAQUIN COUNTY STANDARDS.

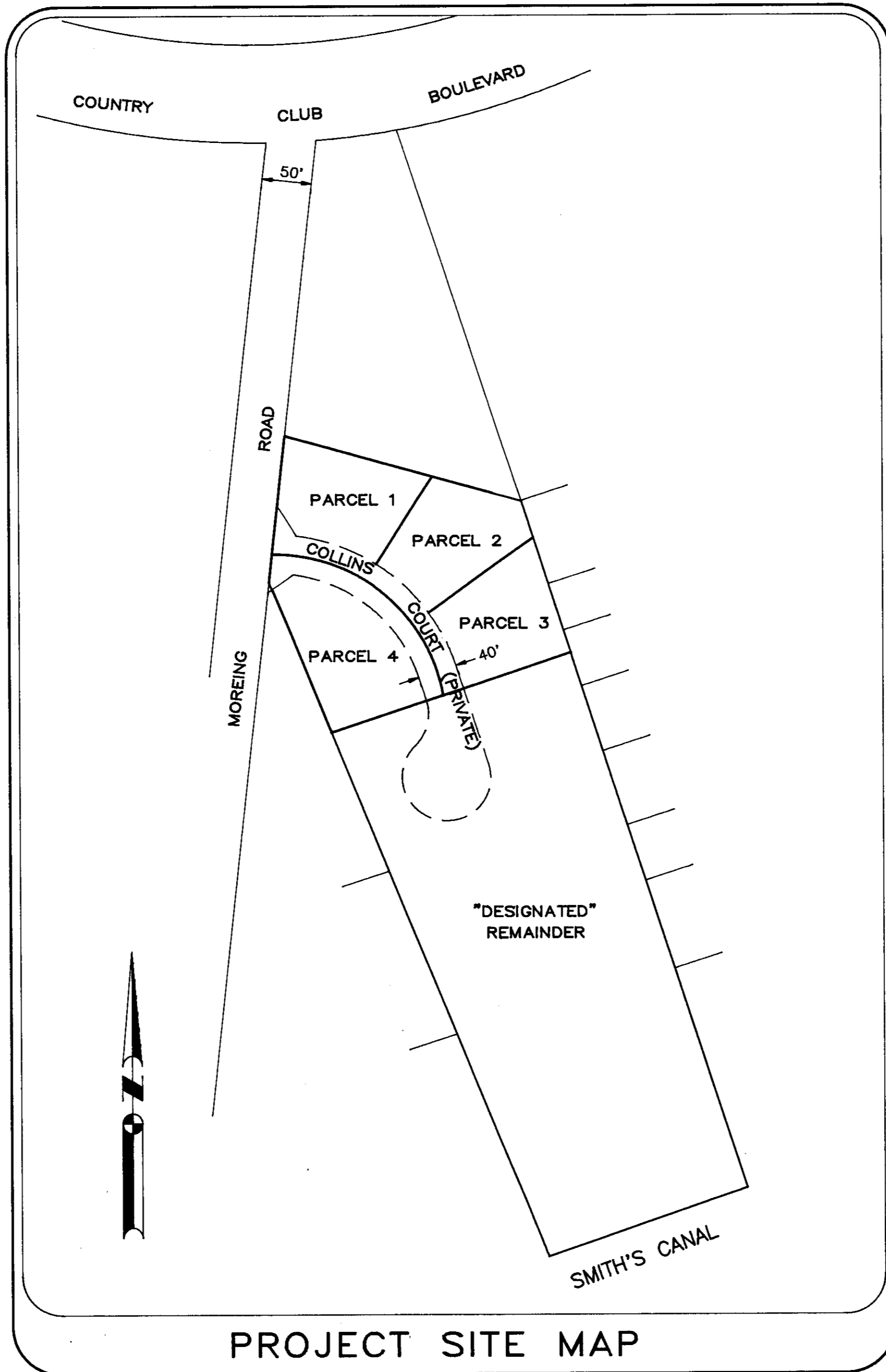
**SANITARY SEWER NOTES**

- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF STOCKTON'S STANDARDS SPECIFICATIONS AND PLANS, 1981 EDITION & ALL AMENDMENTS THERE BE TO DATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY MARKING INSTALLED LOCATIONS OF SERVICE LATERALS. THE CONTRACTOR SHALL STAMP THE LETTER "S" IN THE CURB FACE DIRECTLY ABOVE THE LOCATION OF THE LATERAL CENTER.
- ALL SERVICE LATERALS SHALL BE EXTENDED PAST PROPERTY LINE AND PLUGGED & MARKED WITH A 4" X 4" TREATED D.F. POST EXTENDED A MIN. 2' ABOVE FINISH GRADE AS PER CITY OF STOCKTON DWG. NO. 64.
- CONTRACTOR TO BE RESPONSIBLE FOR ALL TESTING OF SEWER FACILITIES INCLUDING CLOSED CIRCUIT T.V. OF ALL LINES AND PRESSURE TESTS. CONTRACTOR TO FURNISH THE CITY OF STOCKTON UTILITY DIVISION WITH VIDEO TAPE.
- ALL VALVES, MANHOLE RIMS, CLEANOUTS, AND FLUSHER BRANCHES TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR THE CORRESPONDING ITEM.
- ALL SERVICE LATERALS SHALL BE LOCATED AT THE CENTER OF LOT UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL CONTACT WALT NICHOLS (937-8279) OF THE CITY OF STOCKTON FOR A PRE-CONSTRUCTION CONFERENCE.
- CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF STOCKTON PUBLIC WOTKS. FOR ANY WORK CARRIED OUTSIDE THE CITY RIGHT-OF-WAY AND/OR ON PUBLIC IMPROVEMENTS, THE CITY SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY WORK STARTING WHICH IS REQUIRED BY THESE PLANS.
- AFTER THE SANITARY SEWER PIPE HAS BEEN LAID AND BACKFILLED, A LOW PRESSURE AIR TEST SHALL BE MADE ON EACH SECTION OF PIPE BETWEEN MANHOLES. THE PRESSURE TEST SHALL BE CONDUCTED AS PERSIBERED BY THE CITY ENGINEER AND SHALL MEET AIR PRESSURE LOSS PER TIME PERIOD IN ACCORDANCE WITH CITY OF STOCKTON STANDARD SPECIFICATIONS. SHOULD ANY TEST ON ANY SECTION OR PIPELINE DISCLOSE AN AIR LOSS GREATER THAN THAT PERMITTED, THE CONTRACTOR SHALL, AT HIS OWN COST, LOCATE AND REPAIR THE DEFECTIVE JOINTS OR PIPE AND RETEST UNTIL THE AIR LOSS IS WITHIN THE SPECIFIED ALLOWANCE. ANY DEFECTS FOUND BY THE CITY OF STOCKTON BY TELEVISION INSPECTION SHALL BE REPAIRED BY THE CONTRACTOR, PRIOR TO CONSTRUCTION OF THE STREET PAVEMENT.

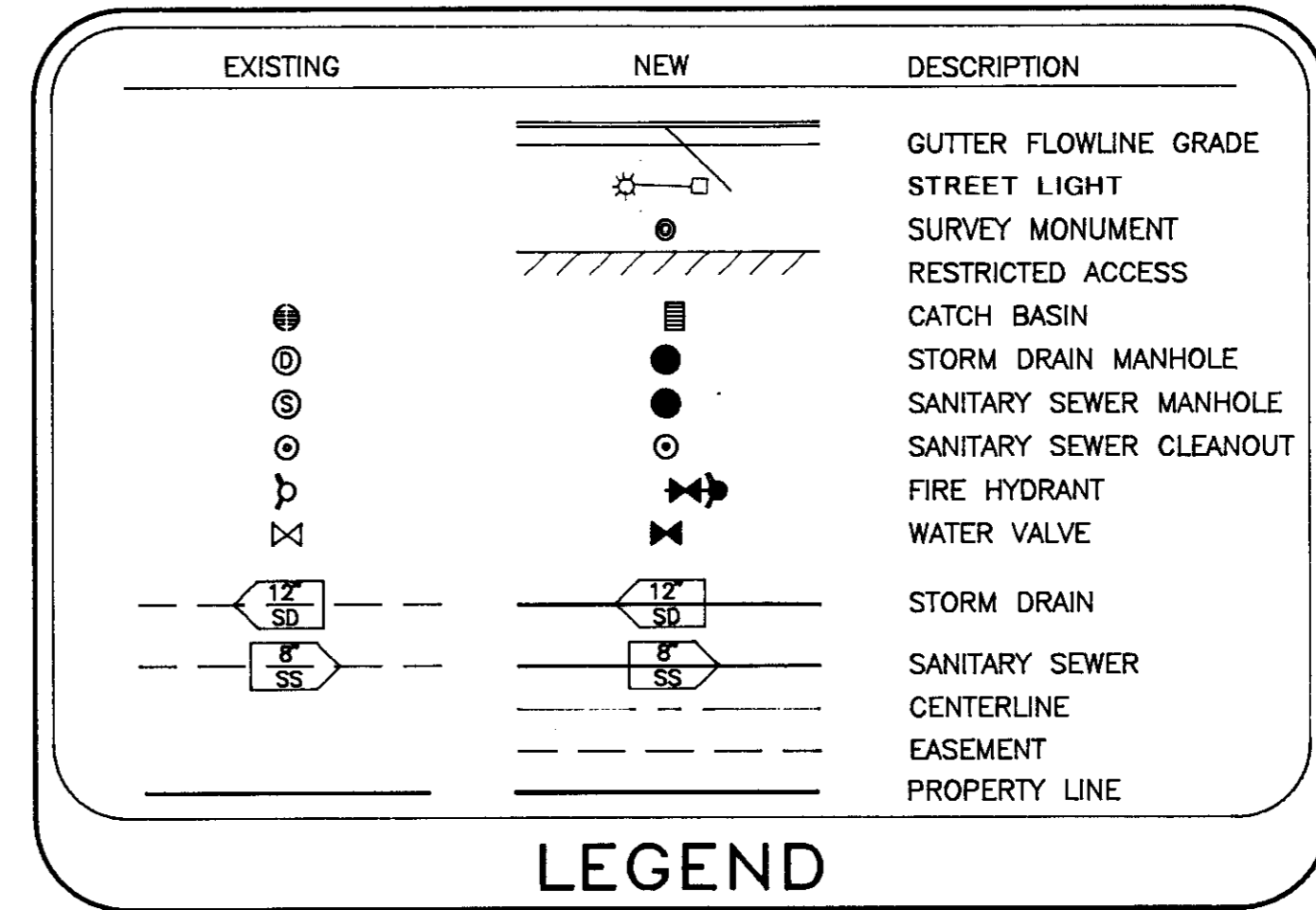
**WATER SYSTEM NOTES**

- WATER SYSTEM SHALL BE DESIGNED AND INSTALLED BY CALIFORNIA WATER SERVICE COMPANY. (SEE SHEETS 7 - 10)

**GENERAL NOTES:**



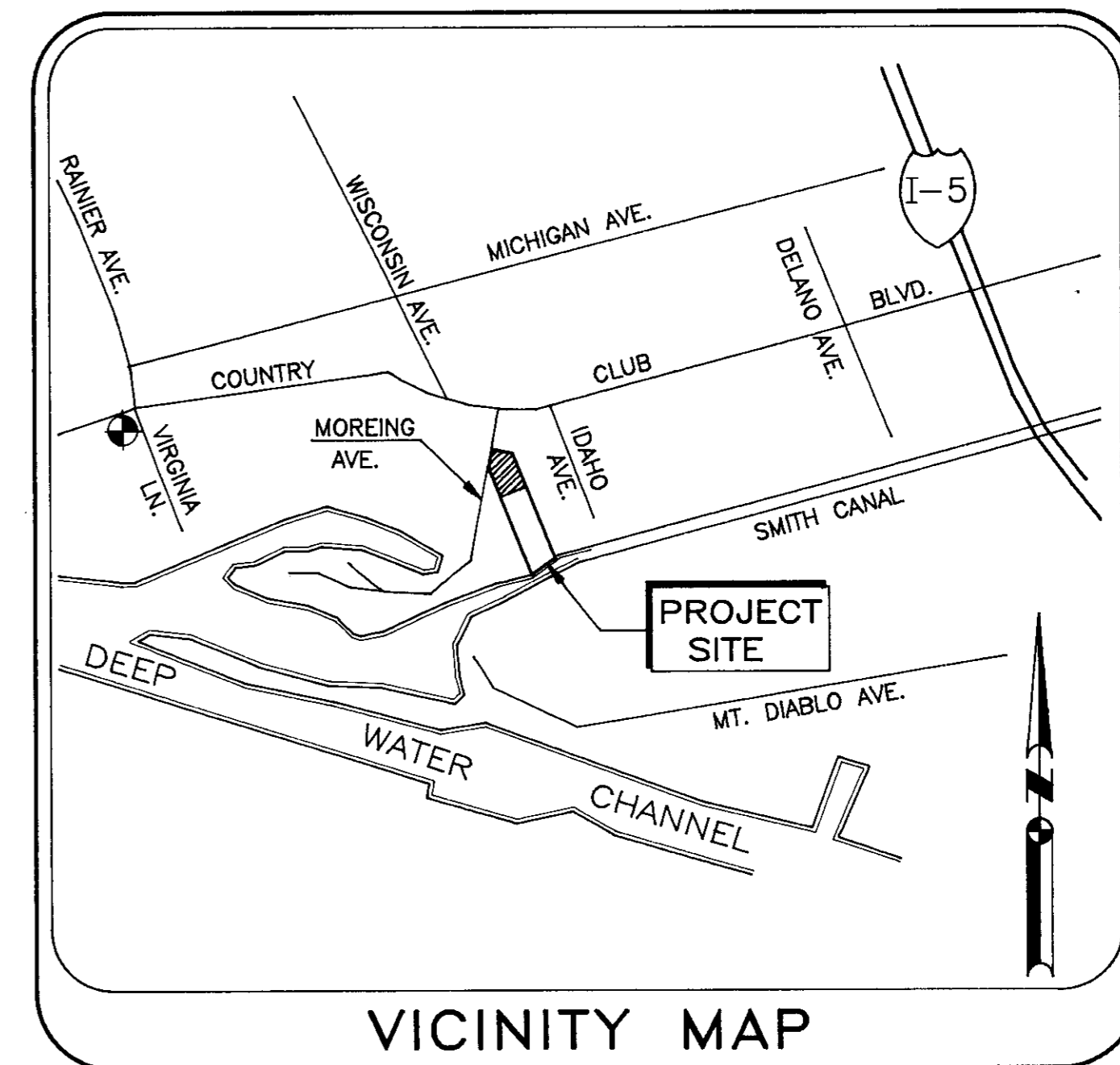
PROJECT SITE MAP



LEGEND

- TITLE SHEET
- DEMOLITION PLAN
- GRADING PLAN
- PLAN & PROFILE (MOREING ROAD)
- PLAN & PROFILE (COLLINS COURT)
- DETAILS
- DETAILS & UTILITY LAYOUT PLAN
- 8-11 CAL-WATER PLANS & SPECS.

INDEX



VICINITY MAP

NOTE: THE CITY OF STOCKTON WILL ACCEPT FOR OWNERSHIP & MAINTENANCE ONLY THE SEWER IMPROVEMENTS.

BENCHMARK:

NE CORNER OF CONCRETE PAD OF P.G. & E. RISER @ SW CORNER @ ENTRANCE OF VIRGINIA LANE & COUNTRY CLUB BLVD. -1.43 U.S.G.S. DATUM

COUNTY OF SAN JOAQUIN HEALTH DISTRICT	CITY OF STOCKTON DEPARTMENT OF MUNICIPAL UTILITIES	CITY OF STOCKTON DEPARTMENT OF PUBLIC WORKS
APPROVED: <i>Raymond Bourge</i> DATE: 6-16-95	ACCEPTABLE TO: <i>Samuel M. Dudge</i> DATE: 7-17-95 ASST. DIRECTOR MUNICIPAL UTILITIES	APPROVED: <i>Henry M. Strata</i> DATE: 8-2-95 RCE NO: 21258 DIRECTOR OF PUBLIC WORKS
FIRE PROTECTION BUREAU	RECLAMATION DISTRICT NO. 1614	COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS
APPROVED: <i>Steve Dalton</i> DATE: 10-13-94	APPROVED: <i>Christopher H. Hudock</i> DATE: 10-10-94	APPROVED: <i>Henry M. Strata</i> DATE: 8-2-95 RCE NO: 21258 EXP DATE: 9/30/97

Design	m.r.c.																				
Drawn	c.g.c.																				
Check	k.l.k.																				
Revisions	<table border="1"> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> <tr> <td>1</td> <td>5/17/94</td> <td>C.C.</td> <td>S.J.Co. COMMENTS</td> </tr> <tr> <td>2</td> <td>5/17/94</td> <td>dbq</td> <td>Added Sheet 2 &amp; Sheet 3</td> </tr> <tr> <td>3</td> <td>9/22/94</td> <td>dbq</td> <td>S. J. Co. Comments</td> </tr> <tr> <td>4</td> <td>11/17/95</td> <td>dbq</td> <td>S. J. Co. Comments</td> </tr> </table>	No.	Date	By	Description	1	5/17/94	C.C.	S.J.Co. COMMENTS	2	5/17/94	dbq	Added Sheet 2 & Sheet 3	3	9/22/94	dbq	S. J. Co. Comments	4	11/17/95	dbq	S. J. Co. Comments
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R.C.E.																					

**KJELSDEN-SINNOCK & ASSOCIATES, INC.**  
CONSULTING CIVIL ENGINEERS

1113 W. FREMONT STREET  
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(209) 946-0268

**COLLINS SUBDIVISION  
IMPROVEMENT PLANS**

**TITLE SHEET**

Date: 6/25/93  
Job Number: 1224-001  
Scale: NO-SCALE  
Sheet Number: 1 of 11  
File Number: E-1742

SU-2923