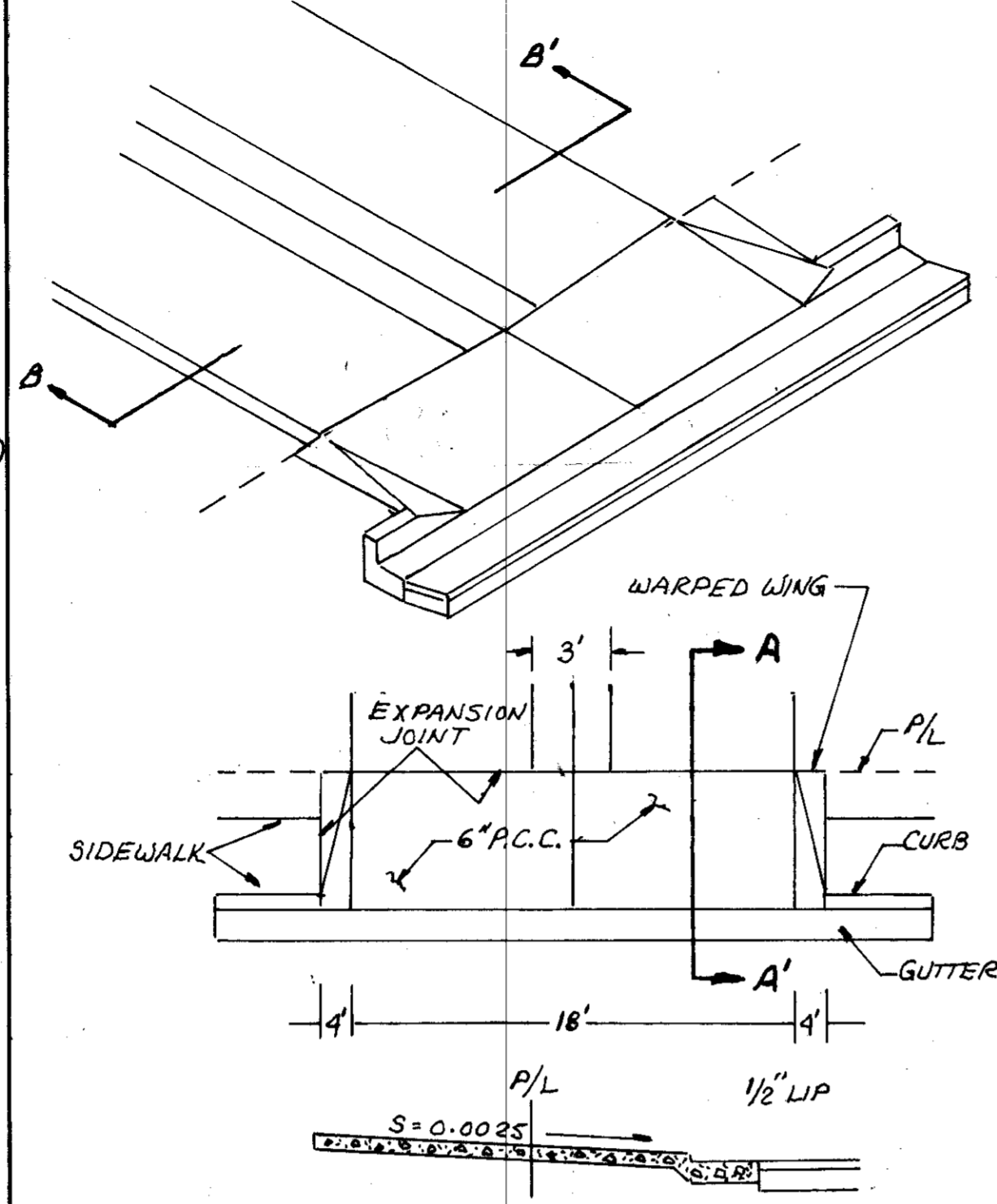
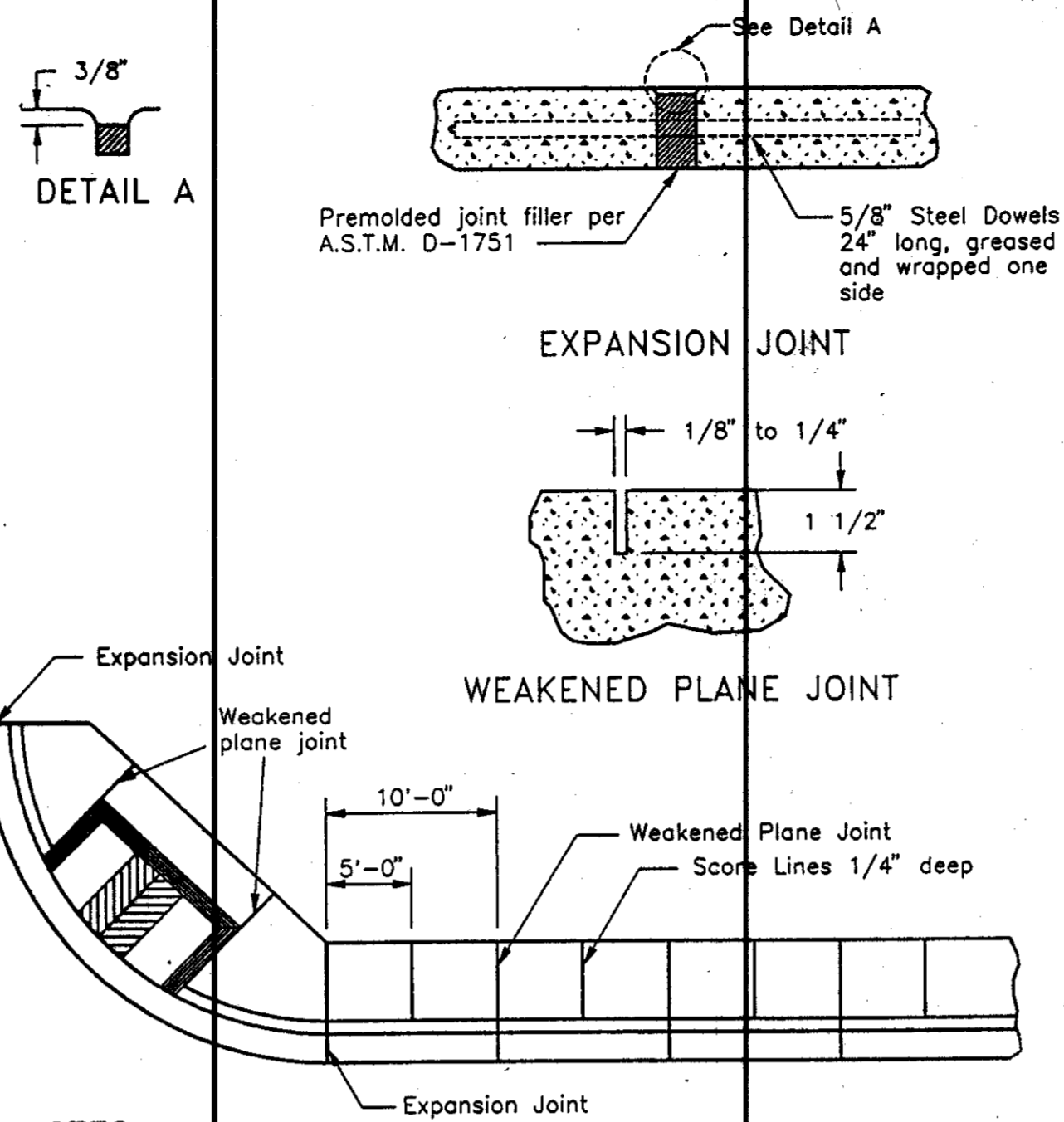


SECTION B-B'



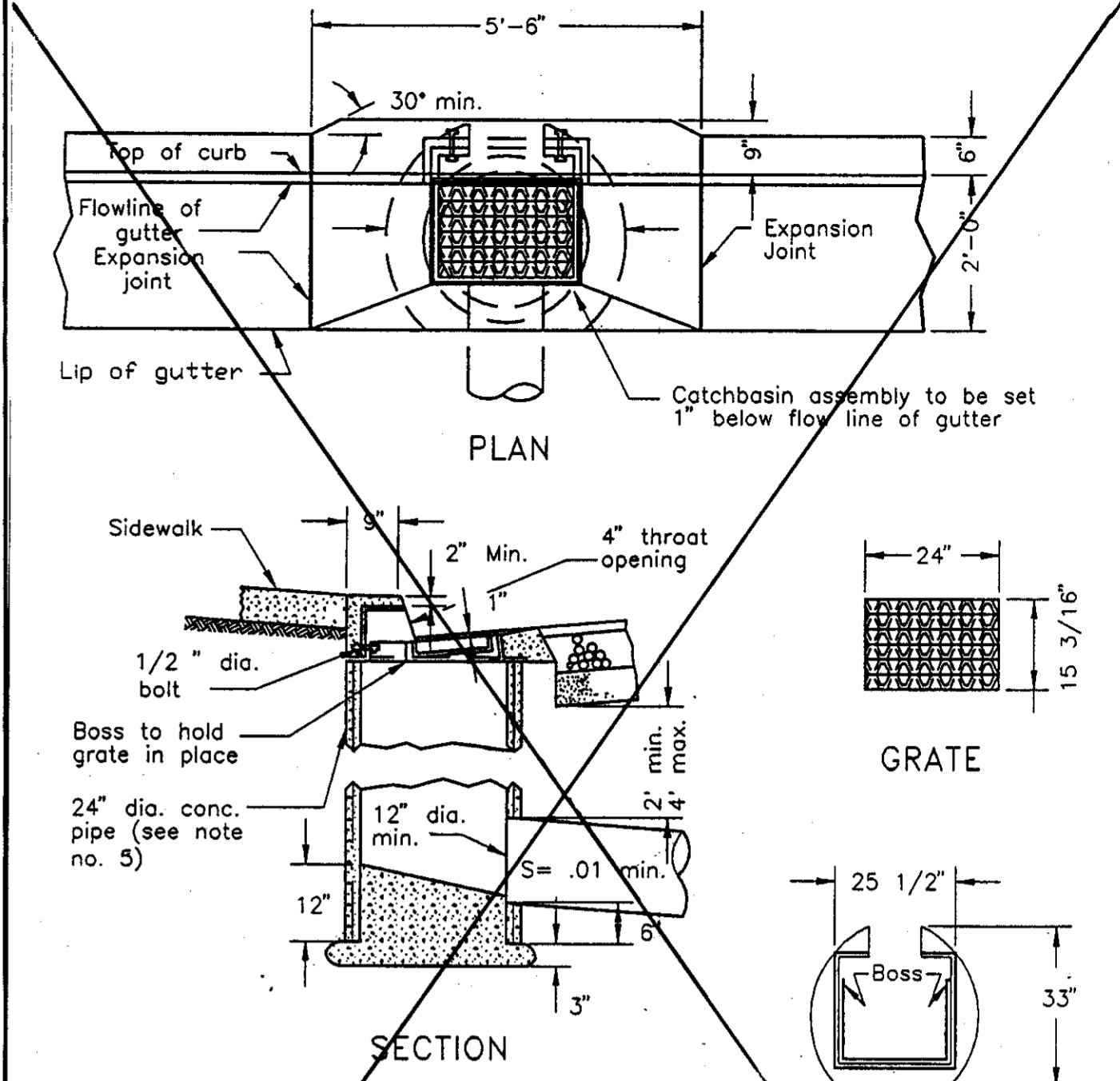
SECTION A-A'  
DRIVEWAY DETAILS  
LOTS 73 & 74



NOTES:  
1. Fine hair broom finish on curb, gutter, and sidewalk.  
2. Construct transverse expansion joints in curb, gutter, and sidewalk at 200' maximum spacing and at returns, light poles, hydrants, both sides of driveways, and other fixed objects. Transverse expansion joints on 200' spacing shall be 3/8\"/>

Checked by	JLD	Approved by	Henry M. Thirata
Drawn by	JLD	Date	SEPT. 1991
Scale	NONE	Drawing No.	R-11

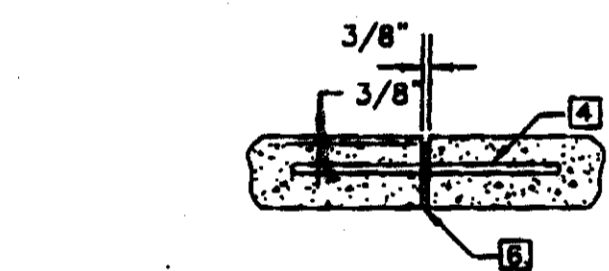
SIDEWALK SCORING  
EXPANSION AND WEAKENED  
PLANE JOINTS  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS



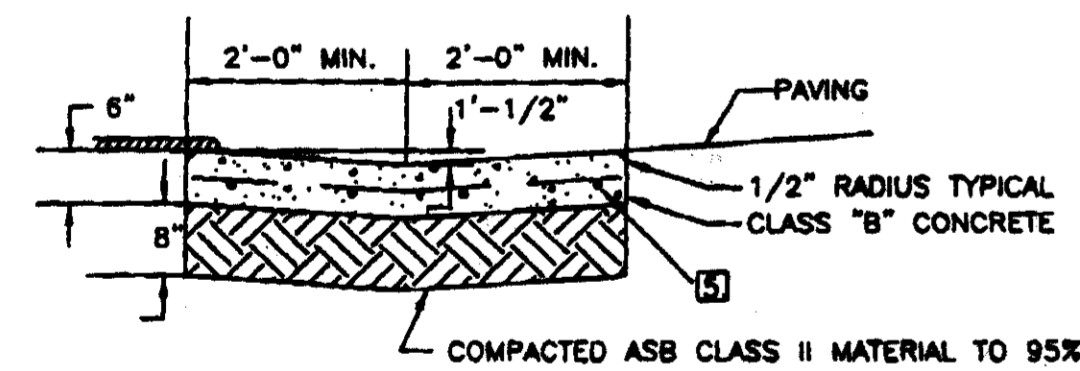
NOTES:  
1. All exposed steel shall be dipped with 2 coats of coal tar pitch heated to a minimum of 180° or galvanized.  
2. Grate, frame and side inlet shall conform to South Bay Foundry A-645 frame with either A-390 riveted or A-290-M fabricated steel grate.  
3. Grate shall be chained to frame.  
4. Grate shall be depressed 1\"/>

Checked by	JLD	Approved by	Henry M. Thirata
Drawn by	JLD	Date	SEPT. 1991
Scale	NONE	Drawing No.	D-13

TYPE 1  
CURB INLET CATCHBASIN  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

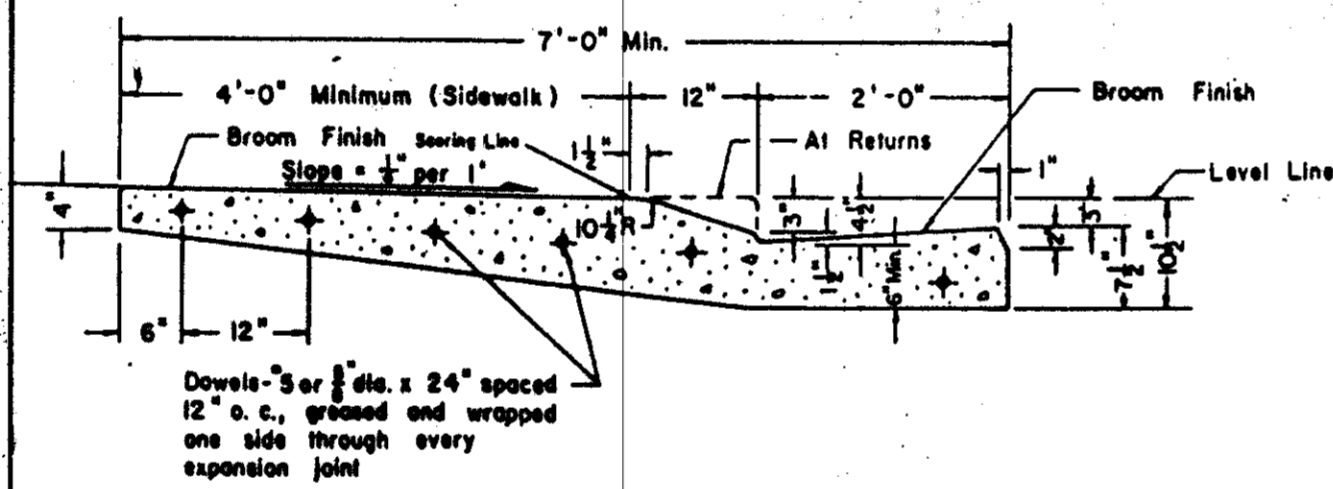


EXPANSION JOINT



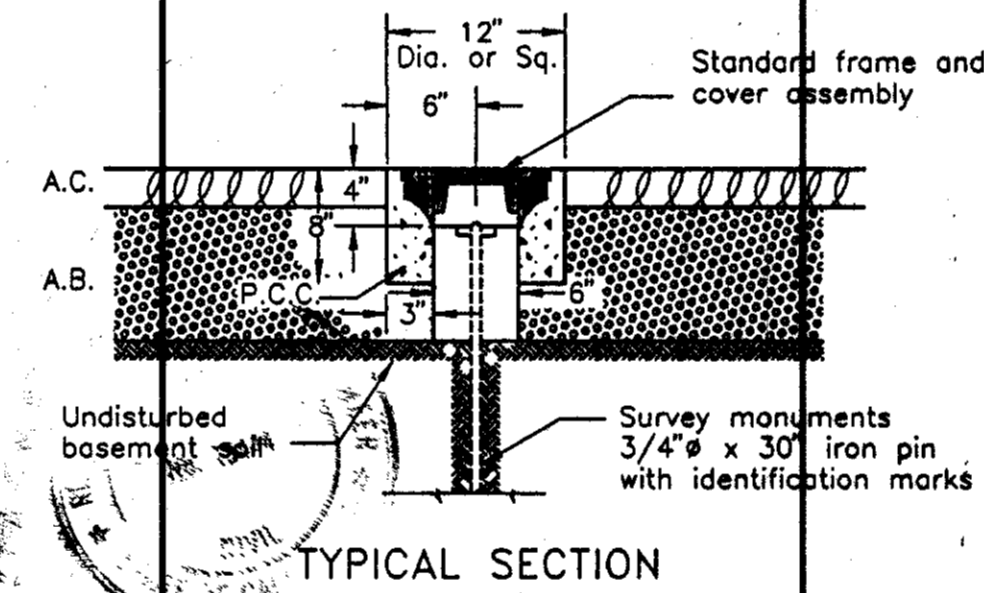
CONCRETE VALLEY GUTTER

NOTES:  
1. CONSTRUCT EXPANSION JOINTS, PER AGENCY REQUIREMENTS AT BEGINNING & ENDS OF CURBS, EACH SIDE OF CATCHBASINS AND OTHER FIXED OBJECTS.  
2. CONCRETE VALLEY GUTTER TO BE USED ONLY WITH SPECIFIC APPROVAL OF THE AGENCY.  
3. MIN. SLOPE OF GUTTER SHALL BE SET BY AGENCY.  
4. FOUR - 5/8\"/>

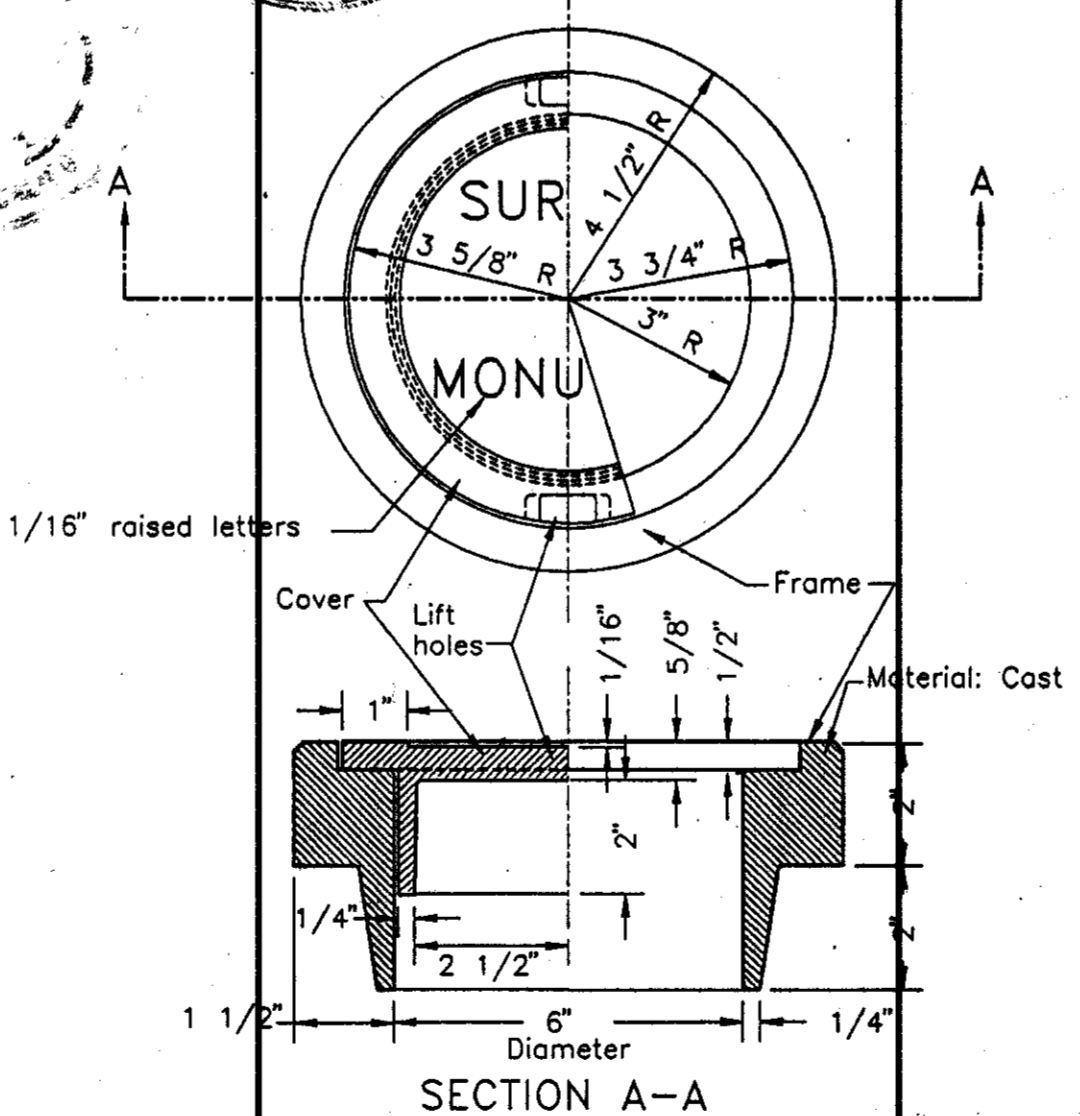


MONOLITHIC BEVEL TYPE  
CURB, GUTTER & SIDEWALK

NOTES:  
Construct expansion joints @ 200' maximum and at returns, around light poles, hydrants and other fixed objects at sidewalk.  
Transverse weakened plane joints shall be constructed @ 12' maximum intervals.



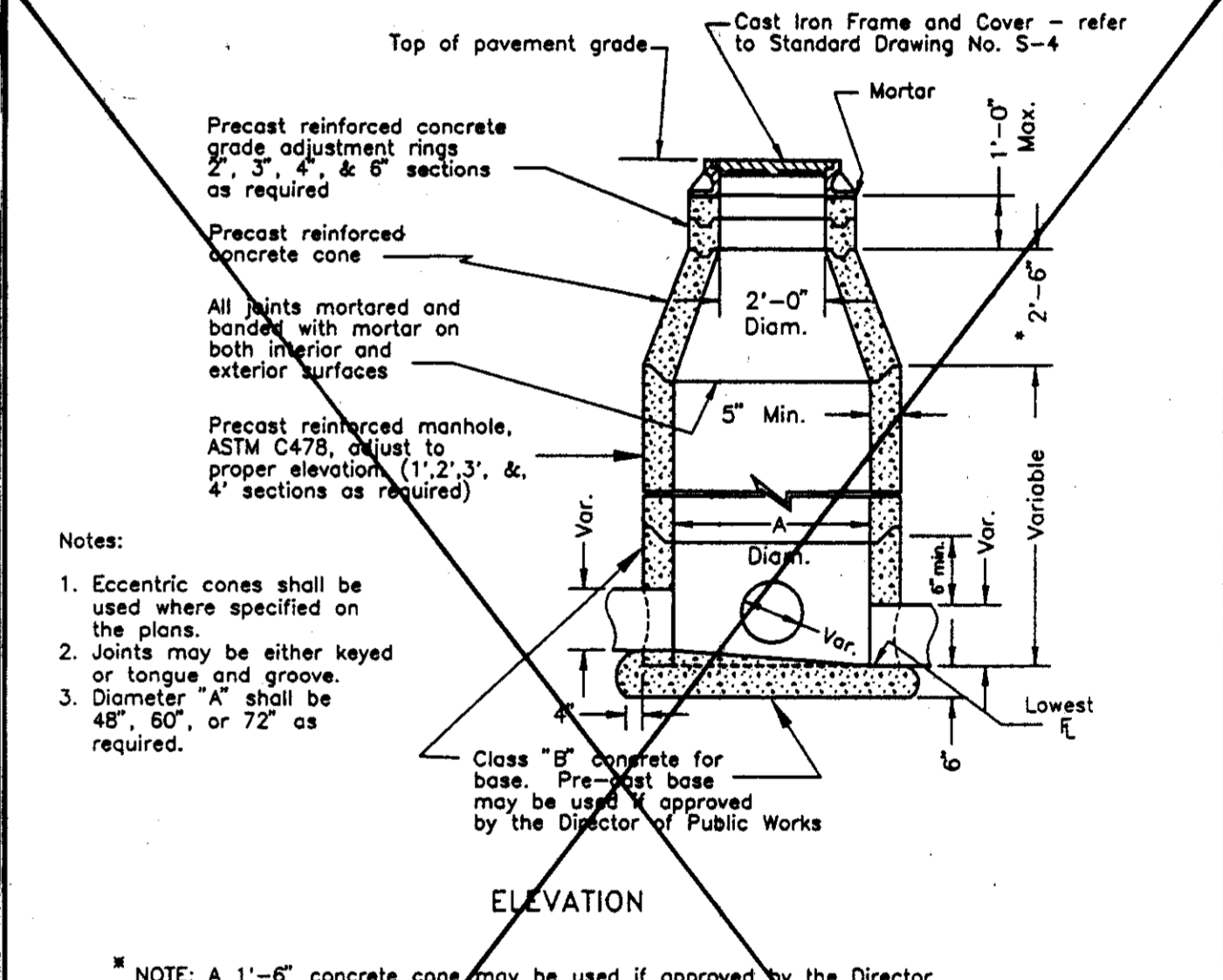
TYPICAL SECTION



SECTION A-A

SURVEY MONUMENT  
FRAME & COVER ASSEMBLY  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

RECORD DRAWING  
Corrections By: [Signature]  
No Changes By: [Signature]  
Date: 9-29-91  
Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work.



ELEVATION

Notes:  
1. Eccentric cones shall be used where specified on the plans.  
2. Joints may be either keyed or tongue and groove.  
3. Diameter "A" shall be 48", 60", or 72" as required.  
Class "B" concrete for base. Pre-cast base may be used if approved by the Director of Public Works.  
NOTE: A 1'-6" concrete cone may be used if approved by the Director of Public Works.  
Flat slab shall be used when depth does not permit use of tapered unit. Use precast H-20 load rated as manufactured by Teichert Precast or equal. Frame shall be secured to riser or flat slab top with cement mortar.

Checked by	JLD	Approved by	Henry M. Thirata
Drawn by	JLD	Date	SEPT. 1991
Scale	NONE	Drawing No.	D-17

STANDARD STORM  
DRAIN MANHOLE  
COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

SU 3153

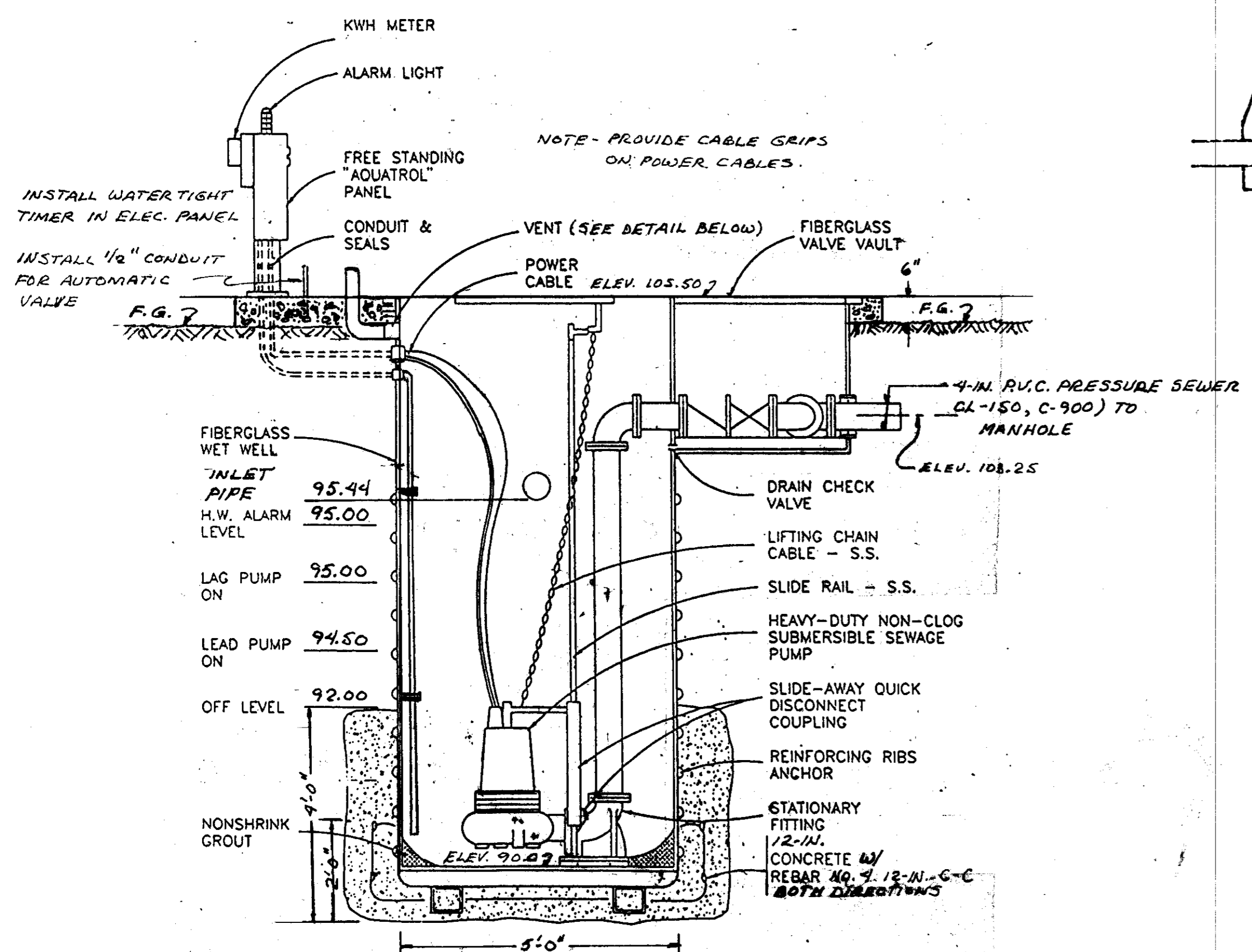
DESIGNED	W. G. A.	REVISED	
DRAWN	W. G. A.		
CHECKED	W. G. A.		
APPROVED	W. G. Atteberry RCA 13444 3-31-01		

**ATTEBERRY & ASSOCIATES**  
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Cambridge, ID. 83610  
(208) 257-3562

LOCKFORD BLUFFS SUBDIVISION UNIT NO. 2  
PHASE 1  
STREET AND STORM DRAIN DETAILS  
SAN JOAQUIN COUNTY, CALIFORNIA

SCALE: AS SHOWN  
DATE: MAR. 1995  
DRAWING NUMBER: 94003  
SHEET: 6 OF 7

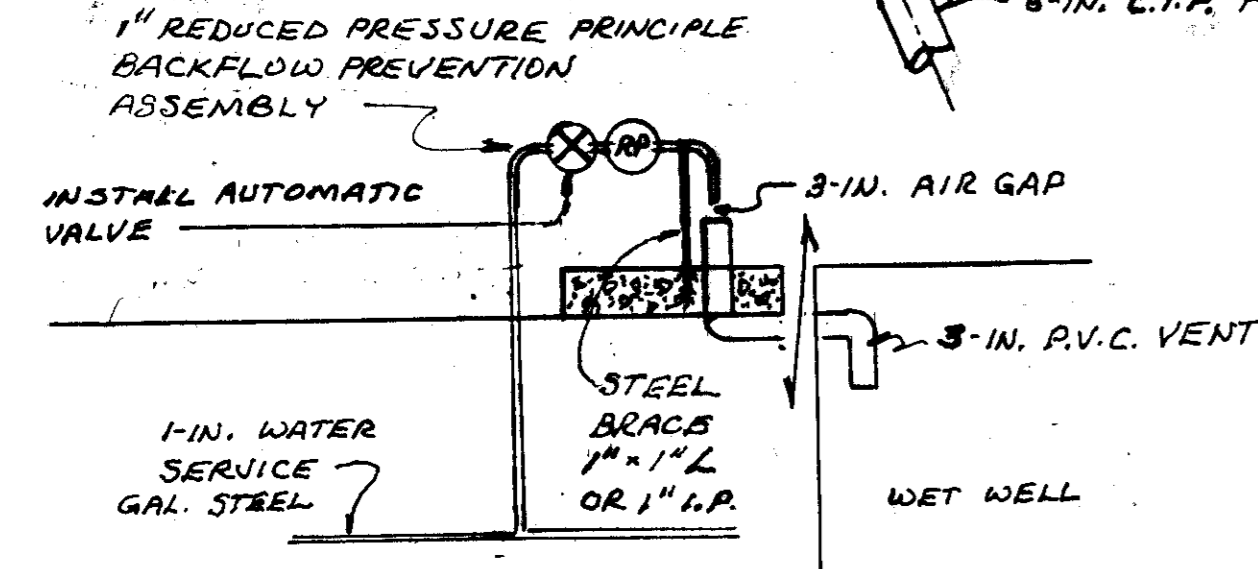
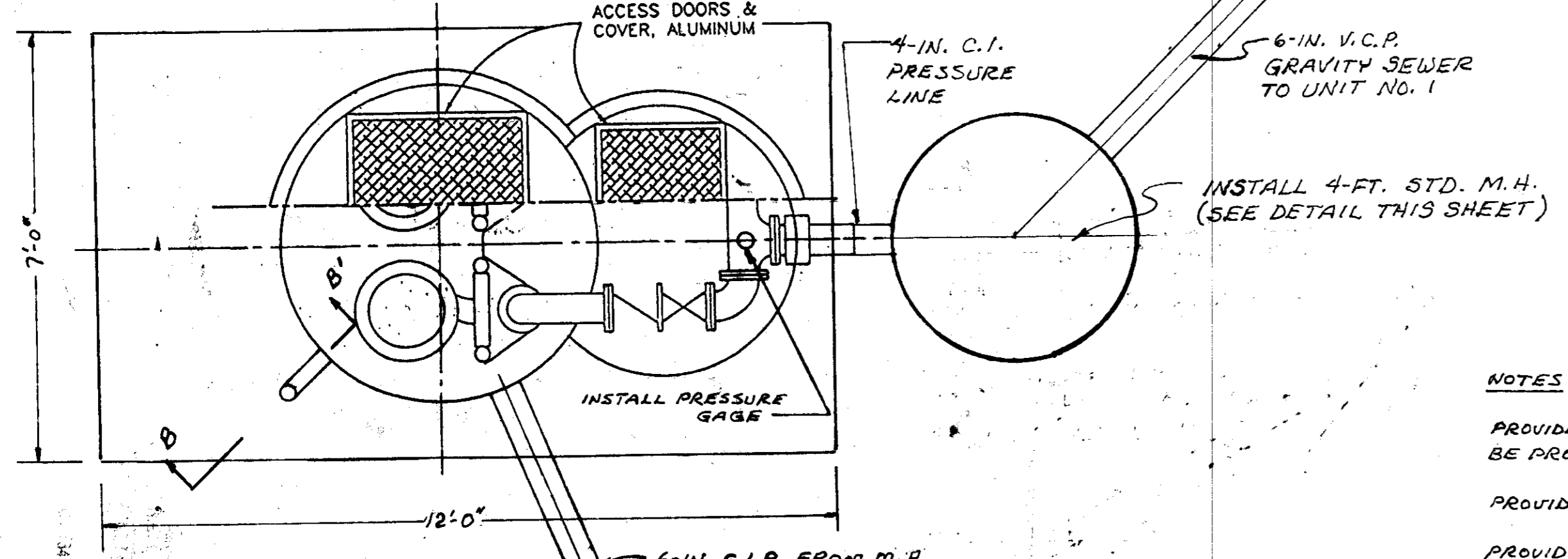
SU 3154



NOTE - PUMPS SHALL BE BARNES PUMPS MODEL NO. 75E2041L, 2.8 HP OR EQUAL. PROVIDE ELAPSED TIME METERS FOR EACH PUMP.

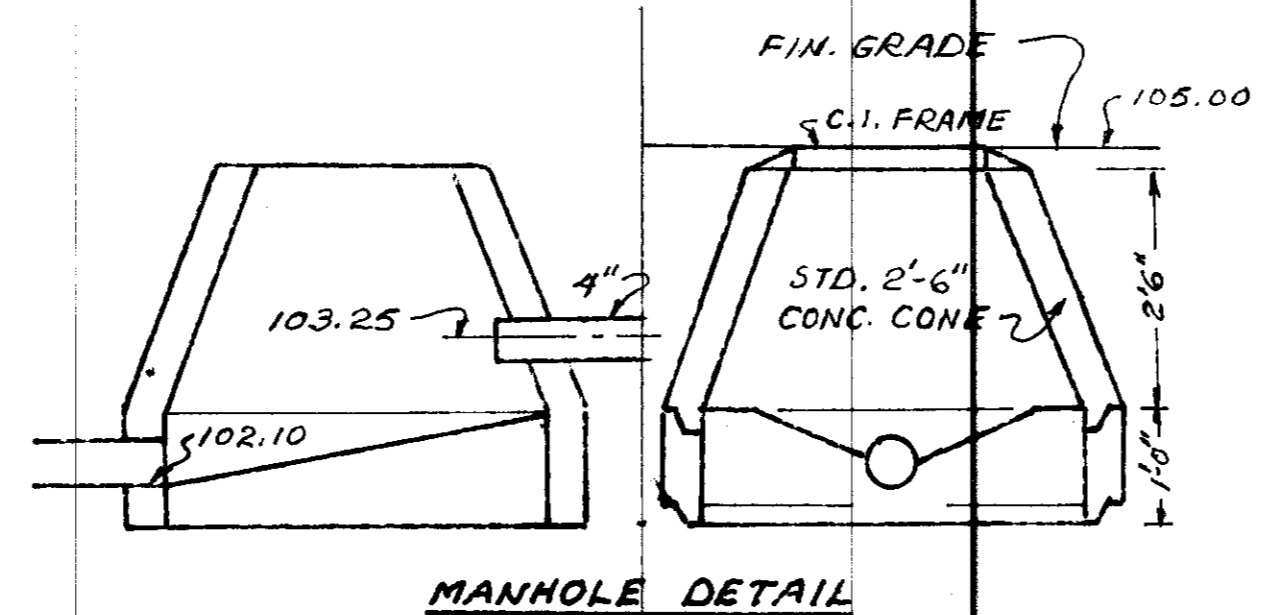
NOTE - SET PUMPS MINIMUM 4-IN. ABOVE BOTTOM OF WET WELL.

NOTE - STATION COVERS AND ACCESS DOORS SHALL BE OF 1/4\"/>

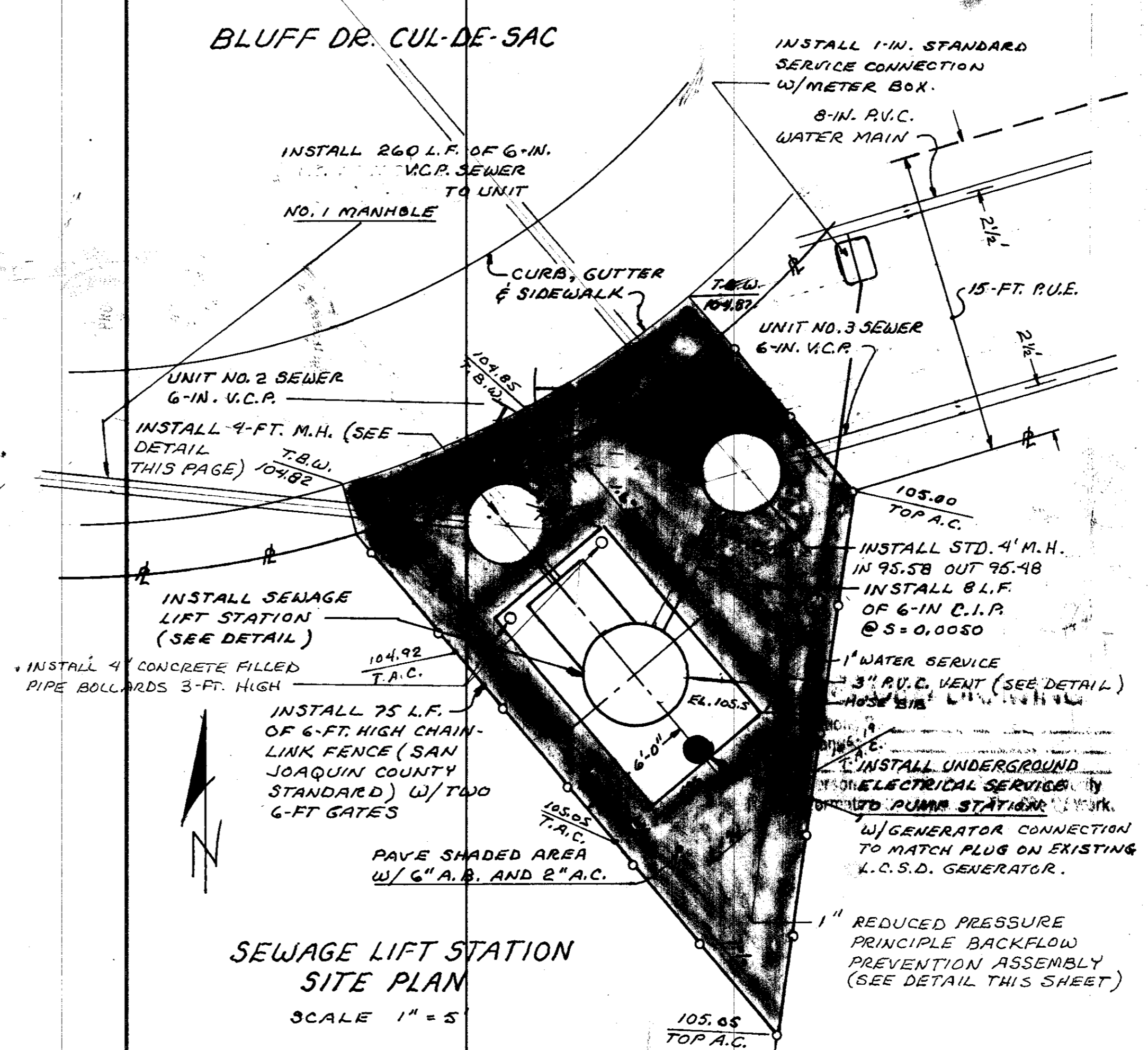


BACKFLOW PREVENTION DETAIL

SECTION B-B'



MANHOLE DETAIL



SEWAGE LIFT STATION SITE PLAN  
SCALE 1" = 5'

NOTES

PROVIDE METAL SIGN IDENTIFYING PUMP STATION. (VERBAGE TO BE PROVIDED BY L.C.S.D.).

PROVIDE LOCKING MECHANISM ON WET WELL HATCH.

PROVIDE AN EXTERIOR, WEATHER PROTECTED, 20-AMP, 120-VOLT OUTLET WITH GFI PROTECTION AT THE CONTROL PANEL.

RECORD DRAWING

Corrections By  
No Changes By  
Date 9-9-99  
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NOTES  
ENGINEERING SPECIFICATIONS FOR SEWAGE LIFT STATION

**SINGLE SOURCE RESPONSIBILITY**

TO ENSURE COMPATIBILITY OF ALL COMPONENTS, THE PACKAGE SEWAGE LIFT STATION AND ITS CONTROL SYSTEM SHALL BE SUPPLIED BY ONE MANUFACTURER WITH FABRICATION, SERVICE AND REPAIR FACILITIES IN NORTHERN CALIFORNIA. TO ENSURE THIS COMPATIBILITY THE STANDBY POWER UNIT, IF SUPPLIED, IS TO BE SIZED, TESTED, AND SUPPLIED AS A PART OF THE TOTAL PACKAGE. THE AUTOMATIC TRANSFER SWITCH (ATS) OF THE STANDBY POWER UNIT SHALL BE AN INTEGRAL PART OF THE STATION CONTROLLER.

**EXPERIENCE**

THE STATION MANUFACTURER SHALL DEMONSTRATE A MINIMUM OF 10 YEARS OF EXPERIENCE IN THIS SPECIFIC FIELD, SHALL SUPPLY UPON REQUEST TYPICAL INSTALLATIONS WITH REFERENCE PHONE NUMBERS. THE MANUFACTURING FACILITIES INCLUDING THE ELECTRICAL SHOP SHALL BE OPEN FOR INSPECTION.

**CONSTRUCTION AND MANUFACTURING**

THE STATION AND INTEGRAL VALVE BOX SHALL BE MANUFACTURED OF A MINIMUM 3/8" THICK KOPPEKS SPECIALTY POLYESTER RESINS WITH A COMPRESSIVE STRENGTH OF 28,400 P.S.I. AND FLEXURAL STRENGTH OF 31,400 P.S.I. THE STATION SHALL INCORPORATE WALL REINFORCING RIBS TO DOUBLE AS ANCHORS INTO THE CONCRETE WHEN INSTALLED. STRUCTURAL CALCULATIONS SHALL BE MADE AVAILABLE UPON DEMAND. THE STATION SHALL BE 60" DIA. X 15" DEEP. STATION COVERS AND ACCESS DOORS SHALL BE 3/4" STEEL REINFORCED WITH 2" ANGLE, BLASTED AND EPOXY COATED WITH NON-SKID ADHESIVE.

**PUMPS AND MOTORS**

SEWAGE PUMPS SHALL BE OF THE HEAVY DUTY NONCLOG GRINDER TYPE, CAPABLE OF HANDLING SEWAGE, MODEL 75E2041L. EACH PUMP SHALL HAVE A CAPACITY OF 80 GPM AGAINST A TOTAL DYNAMIC HEAD OF 17, INCLUDING STATIC HEAD AND PUMP FRICTION, AND A SHUT-OFF HEAD OF 22' MINIMUM. MOTORS SHALL BE 2.8 HP, 1750 RPM, 1 PHASE, 60 CYCLE, 230 VOLTS. BOTH PUMPS AND MOTORS SHALL BE BUILT BY THE PUMP MANUFACTURER AND SHALL HAVE THE CAPABILITY OF RUNNING DRY FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR OR SEALS. DESIGN SHALL BE SUCH THAT THE PUMPING UNITS WILL AUTOMATICALLY CONNECT TO THE DISCHARGE PIPING, BY POSITIVELY LOCKING THE VOLUTE INTO POSITION TO PREVENT ANY MOVEMENT WHEN LOWERED INTO PLACE TO THE DISCHARGE CONNECTION. THE SLIDE AWAY COUPLING AT THE DISCONNECT POINT SHALL HAVE STAINLESS STEEL MATING FACES TO PREVENT CORROSION, WITH THE STATIONARY COUPLING HAVING AN INCLINE PLANE TO PROVIDE A CLOSING ACTION AND SELF CLEANING ARRANGEMENT. THE PUMPS SHALL BE FITTED WITH A STAINLESS STEEL CHAIN TO PERMIT RAISING THE PUMP FOR INSPECTION AND REMOVAL.

THE MOTORS FOR THESE PUMPS SHALL BE OF THE SUBMERSIBLE TYPE, OIL FILLED FOR BETTER HEAT DISSIPATION, WITH STAINLESS STEEL SHAFTS. THE PUMPS SHALL BE EQUIPPED WITH DOUBLE BACK TO BACK MECHANICAL SEALS, LOCATED IN AN OIL RESERVOIR THAT IS PRESSURE EQUALIZED THROUGH A DIAPHRAGM. THE PUMPS SHALL HAVE A MOISTURE DETECTION SYSTEM WHEREBY THE PRESENCE OF MOISTURE IN THE SEAL CAVITY CAN BE DETECTED AND CORRECTED. THE IMPELLERS SHALL BE OF THE TWO VANE SEMI-OPEN TYPE. THE PUMPS SHALL BE OF CAST IRON WITH ALL PARTS COATED WITH A TWO PART EPOXY AND BAKED AT 350 DEGREES FAHRENHEIT AND FINISHED WITH ENAMEL. ALL COMPOSED HARDWARE SHALL BE STAINLESS STEEL. THE CONTROL AND PUMPS SHALL BE A PACKAGE THAT IS SUITABLE FOR A CLASS A, DIVISION I HAZARDOUS LOCATION AS DEFINED BY THE STATE OF CALIFORNIA AS AN EXPLOSION PROOF PACKAGE. BARREL SHALL BE SIZED SO THAT AT ONE HALF THE DESIGN FLOW A GIVEN PUMP WILL NOT START MORE THAN 10 TIMES AN HOUR.

**VALVING AND PIPING**

THE CHECK VALVES SHALL BE STAINLESS STEEL FITTED WITH AN EXTERNAL LEVER AND SPRING OR LEVER AND WEIGHT, ESPECIALLY DESIGNED FOR HANDLING RAW SEWAGE. THE GATE VALVES SHALL BE FLANGED AND OF THE RESILIENT SEAT TYPE, CAPABLE OF ISOLATING EITHER ONE OF THE TWO PUMPS OR BOTH.

VALVES AND INTERNAL PIPING SHALL BE OF THE SAME SIZE AS THE PUMP DISCHARGE OR LARGER. VALVES SHALL BE LOCATED IN A SEPARATE VALVE BOX, ATTACHED TO THE WET WELL, WITH PROVISION TO DRAIN ANY SEEPAGE TO THE WET WELL. THE DRAIN SHALL ALSO HAVE A CHECK VALVE IN THE EVENT OF HIGH WATER.

**CONTROL SYSTEM**

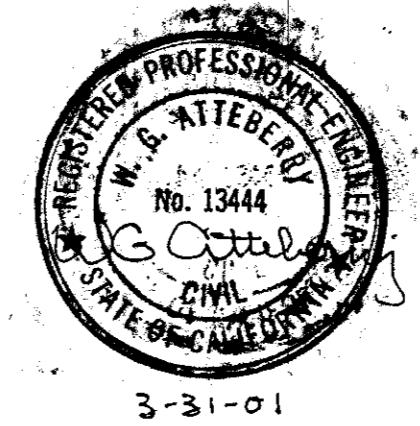
AQUATROL DUPLEX CONTROL SYSTEM SHALL BE IN A WEATHERPROOF NEMA 3 ENCLOSURE, EQUIPPED WITH A LOCKABLE VANDALPROOF OUTER DOOR.

THE PUMPS CONTROLLER SHALL PERFORM THE FOLLOWING FUNCTIONS:

- TURN ALL PUMPS OFF AT SET ADJUSTABLE LEVEL.
- TURN LEAD PUMP ON AT HIGH LEVEL, ALTERNATING PUMPS EACH CYCLE.
- IF WATER CONTINUES TO RISE, TURNS ON LAG PUMP AT 3RD LEVEL.
- IF WATER REACHES HIGH LEVEL, AN ALARM LIGHT WILL BE TURNED ON AND/OR TRANSMITTER ACTIVATED TO SIGNAL AN ALARM.

THE CONTROL PANEL SHALL HAVE CIRCUIT BREAKERS, MAGNETIC STARTERS WITH OVERLOAD PROTECTION, HAND OFF AUTOMATICS, ALTERNATOR, RUN LIGHTS, ELAPSED TIME METERS, ALARM LIGHT, AND ALL NECESSARY RELAYS TO PERFORM ABOVE FUNCTIONS. IT SHALL HAVE TERMINAL BLOCKS CLEARLY LABELED FOR THE CONNECTION OF THE MERCURY SWITCHES, TRANSMITTER AND OTHER ACCESSORIES.

LEVEL SENSING SHALL BE ACCOMPLISHED BY AN AQUATROL BUBBLER SYSTEM WITH PRESSURE SWITCHES ADJUSTABLE AS TO RANGE AND DIFFERENTIAL.



VERTICAL DATUM SEE COVER SHEET.	DESIGNED W.G.A.	REVISED
	DRAWN W.G.A.	
	CHECKED W.G.A.	
	APPROVED W.G. Atteberry ECE 13444 3-31-01	

**ATTEBERRY & ASSOCIATES**  
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3494 Rush Creek Rd.  
Cambridge, ID. 83610  
(208) 257-3562

LOCKEFORD BLUFFS SUBDIVISION UNIT NO. 2  
PHASE 1  
SEWAGE LIFT STATION

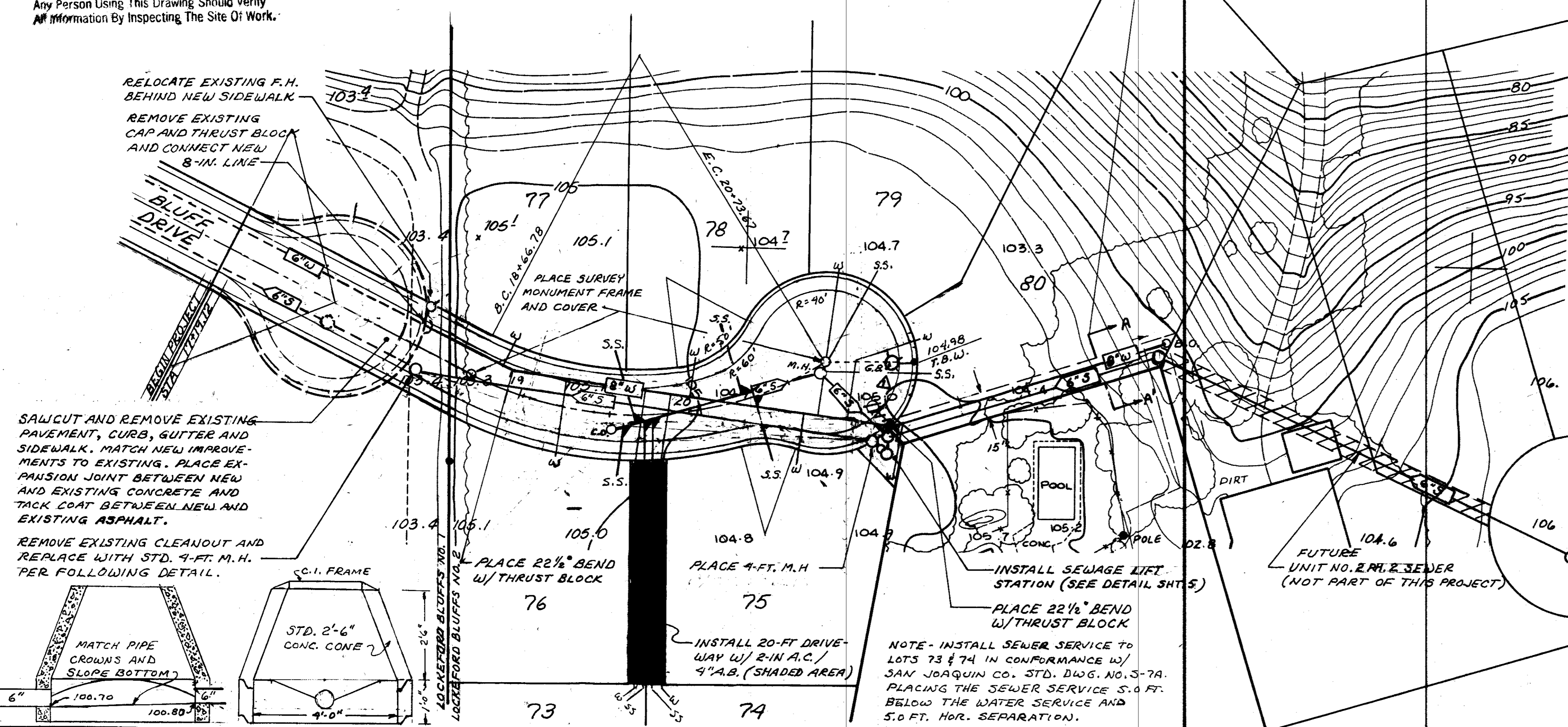
SAN JOAQUIN COUNTY, CALIFORNIA

SCALE AS SHOWN  
DATE MAR. 1995  
DRAWING NUMBER 94003  
SHEET 5 OF 2 SHEETS

**RECORD DRAWING**

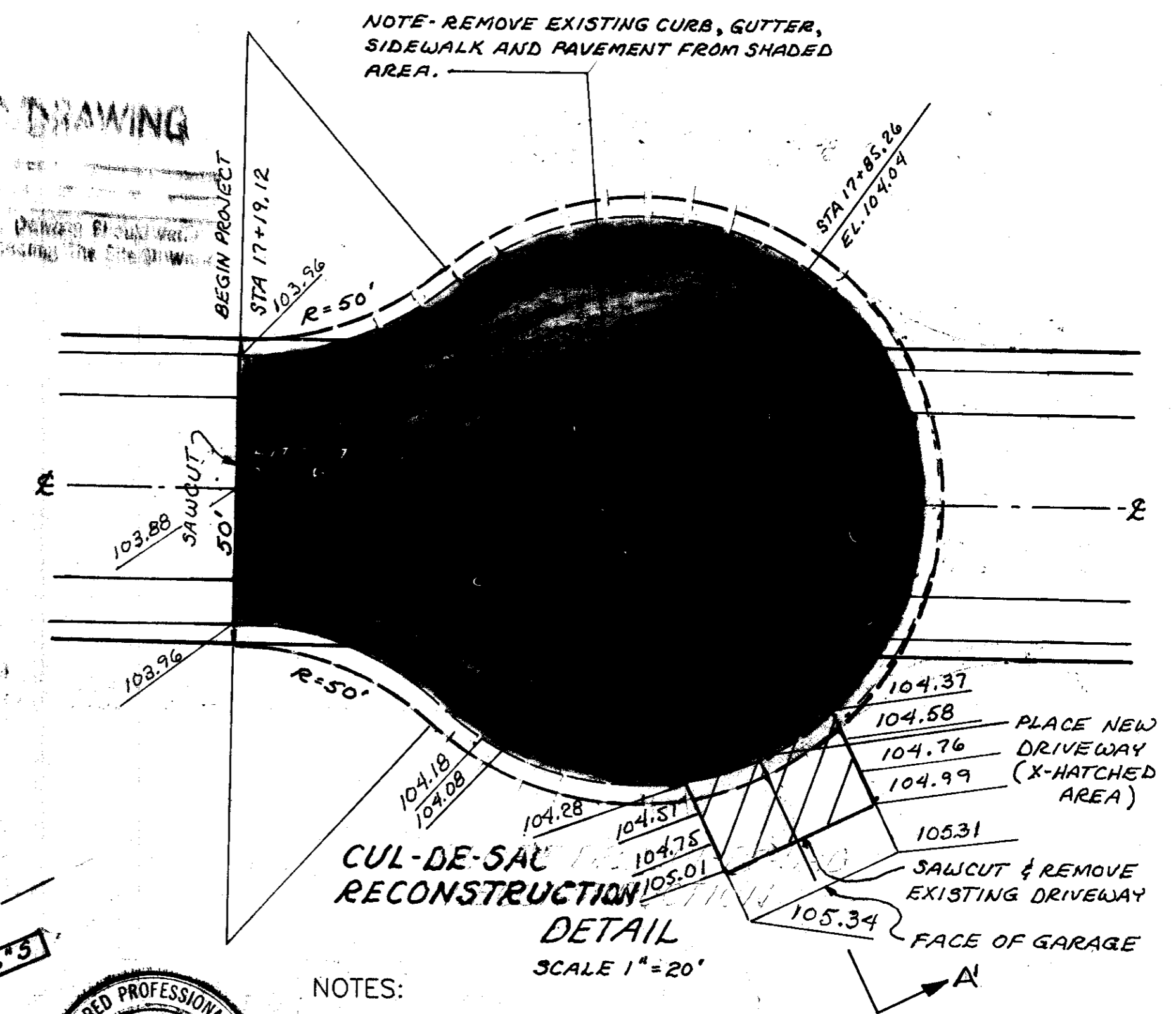
Corrections By W.G. Atteberry  
 No Changes By \_\_\_\_\_  
 Date 9-29-99  
 Any Person Using This Drawing Should Verify  
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SEE TRENCH DETAIL A-A ON SHEET NO. 2



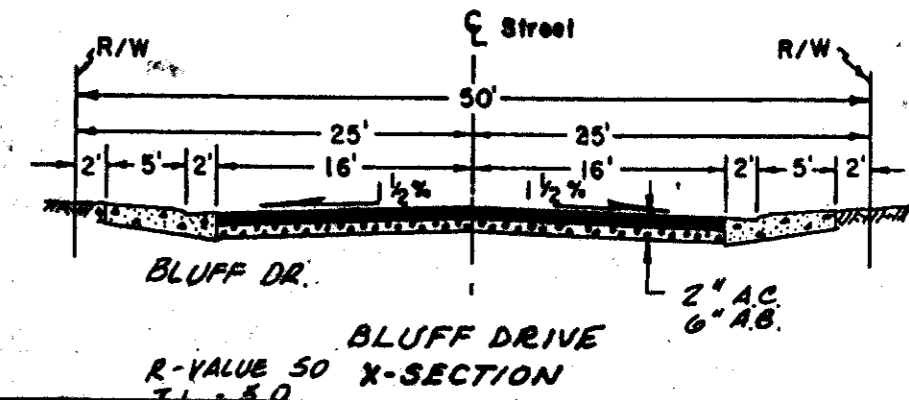
**RECORD DRAWING**

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 No Changes By \_\_\_\_\_  
 Date \_\_\_\_\_  
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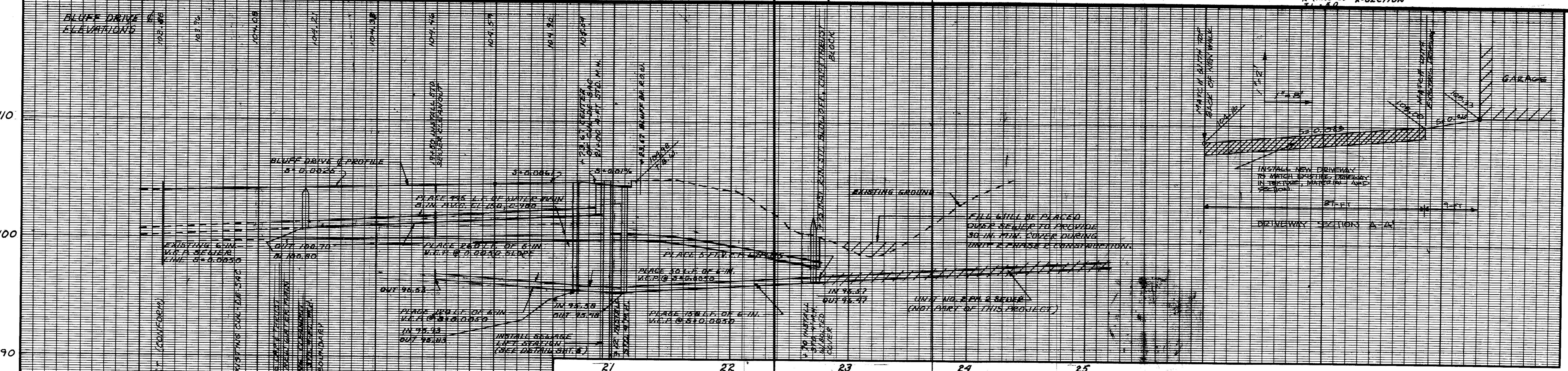


**NOTES:**

- The structural section shall be determined by the roadway design standards and Standard Drawing No. R-27.
- For curb, gutter and sidewalk details, refer to Standard Drawing No. R-5 and R-6.



SU 3155



VERTICAL DATUM U.S.G.S. BENCH MARK BRASS DISK STAMPED "1106" "1960", LOCATED ON NORTH SIDE OF S.R. 88, STA 407+50, TOP OF CONCRETE CULVERT HEADWALL, B.M. EL. 102.145	DESIGNED <u>W.G.A.</u>	REVISED <u>9-29-99</u>	ATTEBERRY & ASSOCIATES ENGINEERS - SURVEYORS - PLANNERS 3494 Rush Creek Rd. Cambridge, ID 83610 (208) 237-3562	LOCKEFORD BLUFFS SUBDIVISION UNIT NO. 2 PHASE 1 BLUFF DRIVE PLAN AND PROFILE SAN JOAQUIN COUNTY, CALIFORNIA	SCALE 1" = 20' DATE <u>MAR. 1995</u> DRAWING NUMBER 97003	SHEET 4 OF 7 SHEETS
	DRAWN <u>W.G.A.</u>	MOVE STREETLIGHT				
	CHECKED <u>W.G.A.</u>					
	APPROVED <u>W.G. Atteberry</u> BCE 13444 3-31-01					

**SITE PREPARATION AND GRADING**

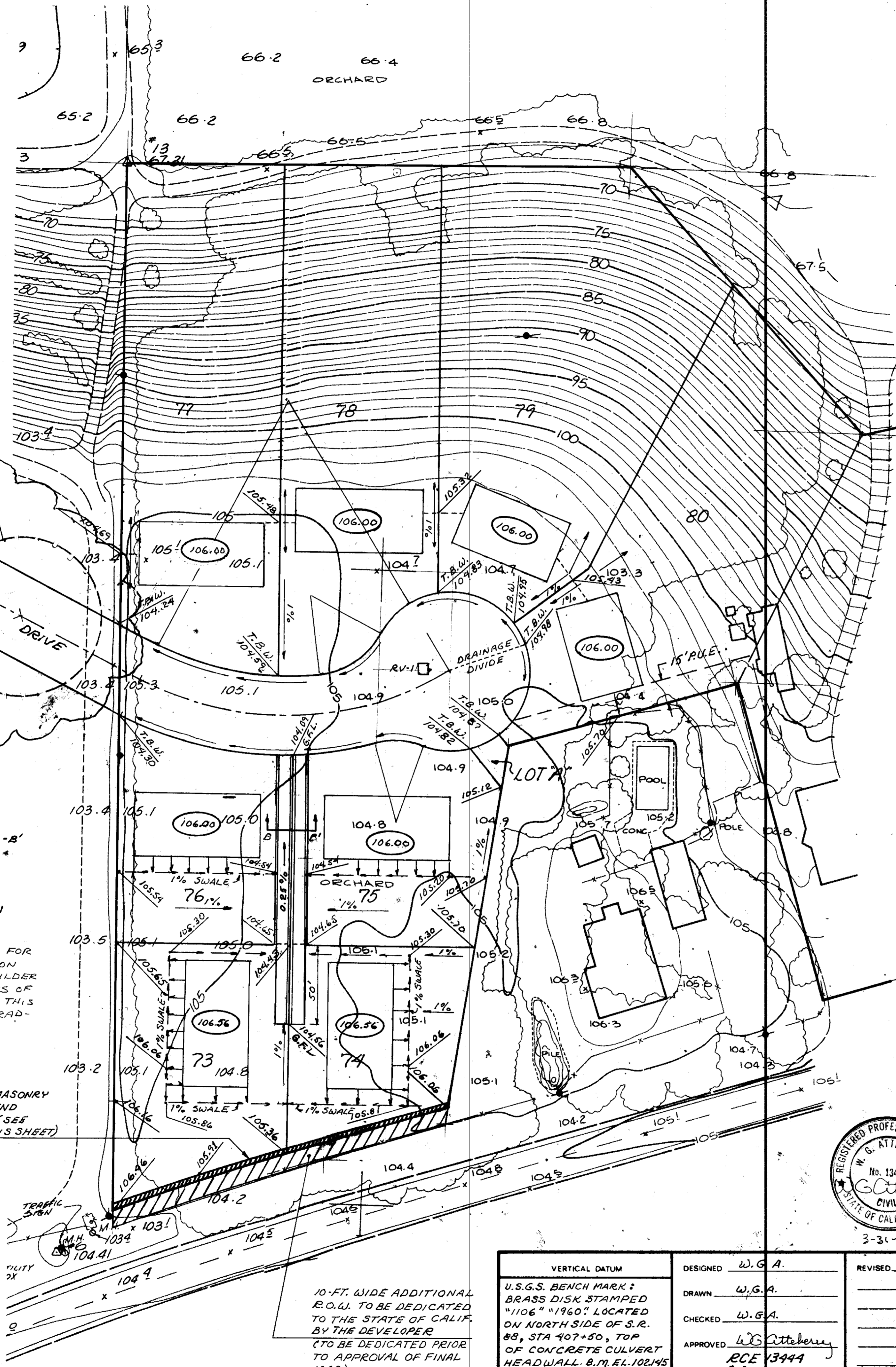
SITE PREPARATION SHOULD INCLUDE THE STRIPPING AND REMOVAL OF VEGETATION, STRUCTURES AND ALL DEBRIS FROM THE AREAS OF CONSTRUCTION. THE ACTUAL DEPTH OF STRIPPING SHOULD BE DETERMINED IN THE FIELD BY A SOILS ENGINEER. ALL STRIPPED VEGETATION AND DEBRIS SHOULD BE REMOVED FROM THE SITE AND NOT INCORPORATED IN ANY OF THE STRUCTURAL FILLS. VOIDS LEFT BY THE REMOVAL OF FOUNDATIONS, TREES, GRAPEVINES, OR OTHER BURIED OBJECTS SHOULD BE OVEREXCAVATED AND RECOMPACTED.

AFTER STRIPPING AND REMOVAL OF VEGETATION AND DEBRIS, AND BEFORE PLACEMENT OF ANY ENGINEERED FILL, THE EXPOSED SURFACE SOIL WITHIN AND TO A MINIMUM OF 3 FEET BEYOND ALL BUILDING AREAS, SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED TO 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 TEST PROCEDURE AT A MOISTURE CONTENT NEAR OPTIMUM. ANY LOOSE OR SOFT POCKETS OF SOIL ENCOUNTERED DURING THIS PROCESS SHOULD BE OVEREXCAVATED AND RECOMPACTED.

ANY FILL REQUIRED TO BRING THE SITE TO FINISHED GRADE SHOULD CONSIST OF ON-SITE SOILS OR IMPORTED GRANULAR NONEXPANSIVE SOIL HAVING A MAXIMUM PERCENTAGE PASSING THE #200 SIEVE OF 40, A MAXIMUM PLASTICITY INDEX OF 8, AND A MINIMUM R-VALUE (RESISTANCE-VALUE) OF 40. SUCH IMPORTED FILL SHOULD BE COMPACTED AT A MOISTURE CONTENT AT OR NEAR OPTIMUM. SAMPLES OF ANY PROPOSED IMPORTED FILL SOIL SHALL BE SUBMITTED TO THE SOILS ENGINEER FOR APPROVAL PRIOR TO BEING BROUGHT TO THE SITE. ENGINEERED FILL SHOULD BE PLACED IN HORIZONTAL LAYERS A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 TEST PROCEDURE.

STRUCTURAL AND TRENCH BACKFILL SHALL BE PLACED IN THE SAME MANNER AS ENGINEERED FILL. TRENCH BACKFILLS MAY BE JETTED OUTSIDE BUILDING AREAS. HOWEVER, IF JETTING IS PERFORMED, SUFFICIENT TIME SHOULD BE SET ASIDE TO ALLOW CONSOLIDATION TO OCCUR. IN ADDITION, DENSITY TESTS SHOULD BE TAKEN TO VERIFY THE RECOMMENDED COMPACTION.

IN AREAS TO RECEIVE ASPHALTIC CONCRETE, THE SUBGRADE SOILS, TO A DEPTH OF AT LEAST 6 INCHES BE COMPACTED AT OR NEAR OPTIMUM MOISTURE CONTENT, TO A MINIMUM OF 95 PERCENT OF THE REFERENCED TEST PROCEDURE.



FOR DETAIL SEE SHEET NR-4

NOTE - FOR DRIVEWAY SECTION A-A' SEE DETAIL ON SHEET NO. 6.

RV-1 □ R-VALUE TEST LOCATION

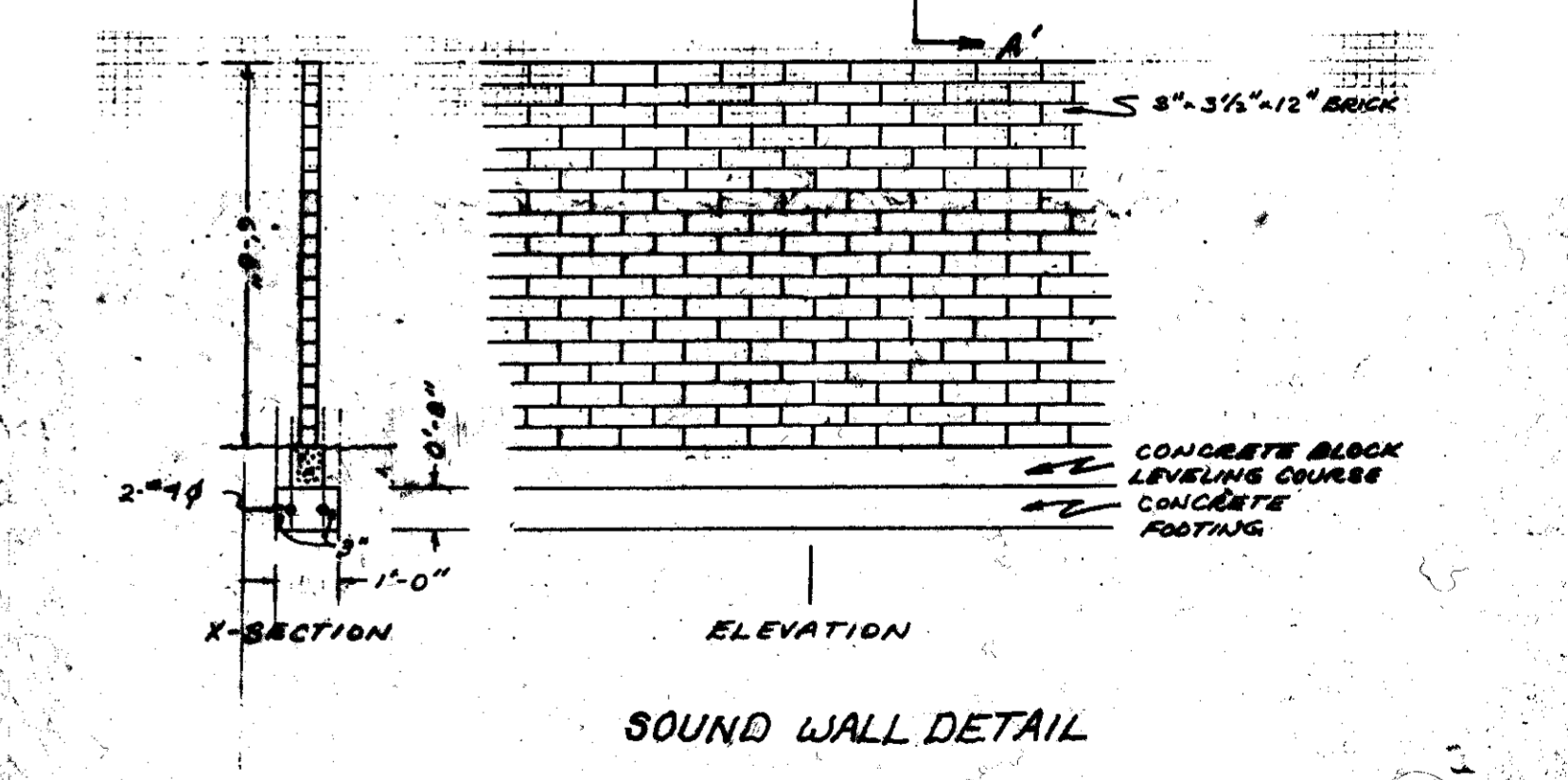
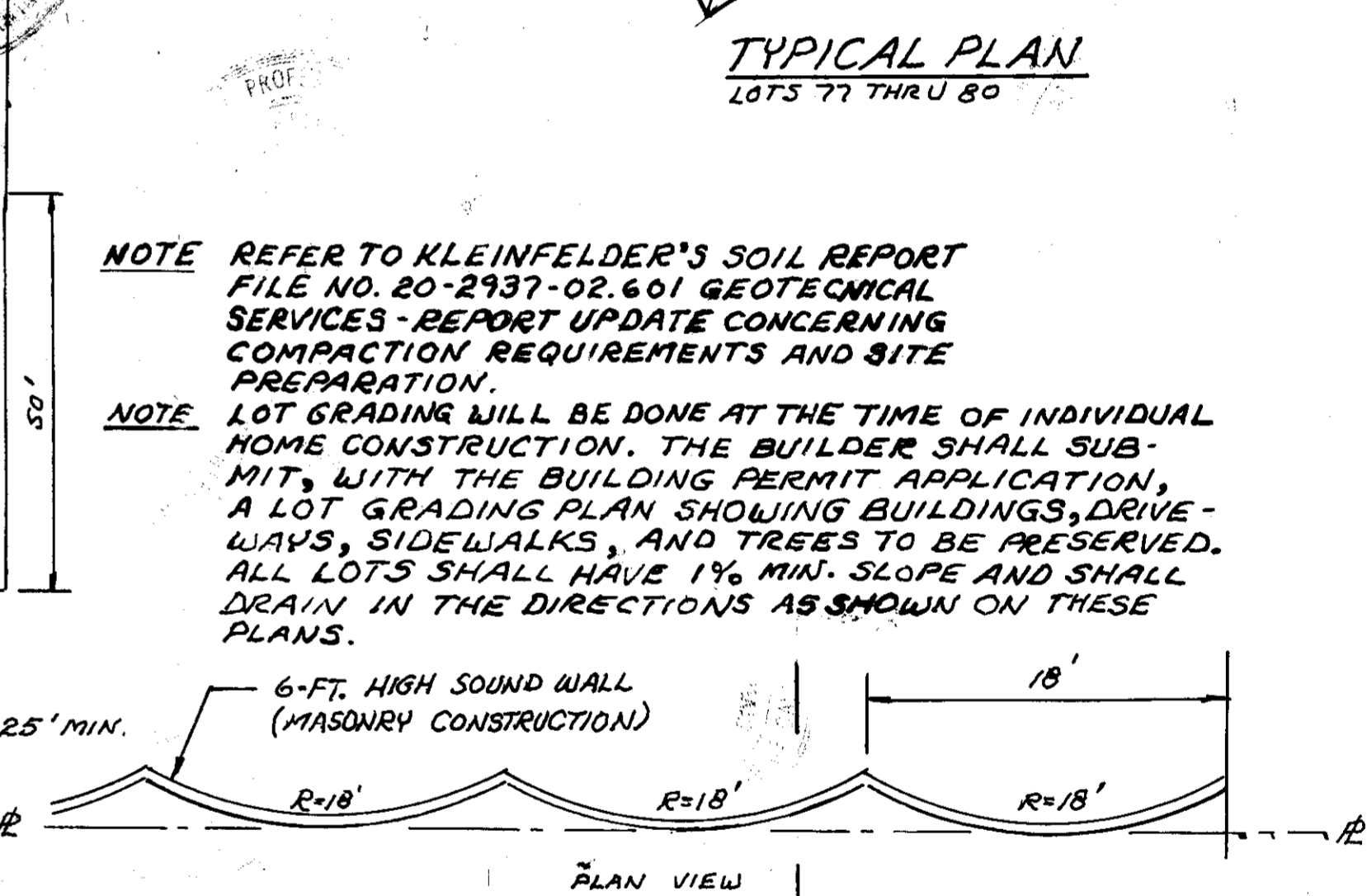
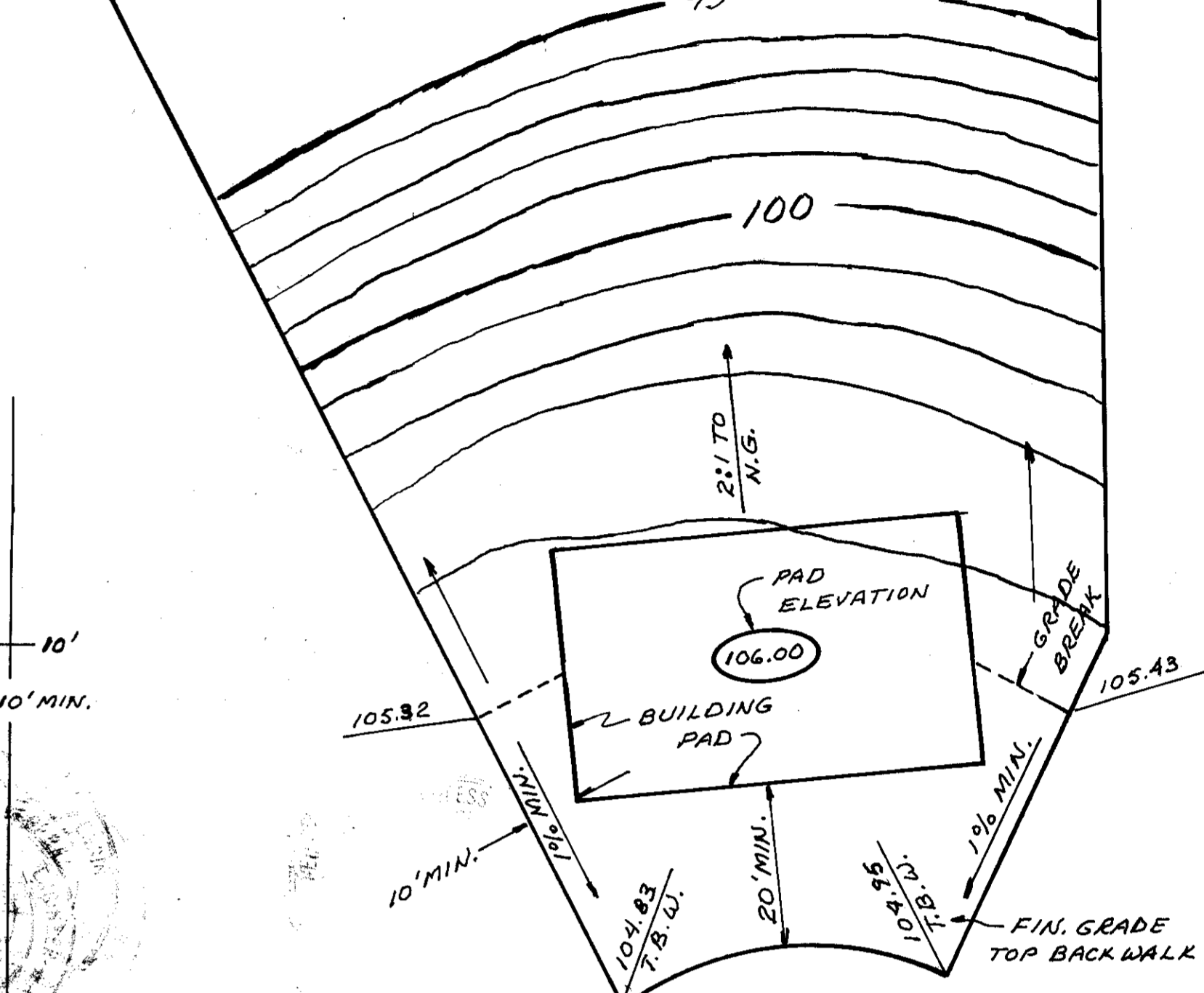
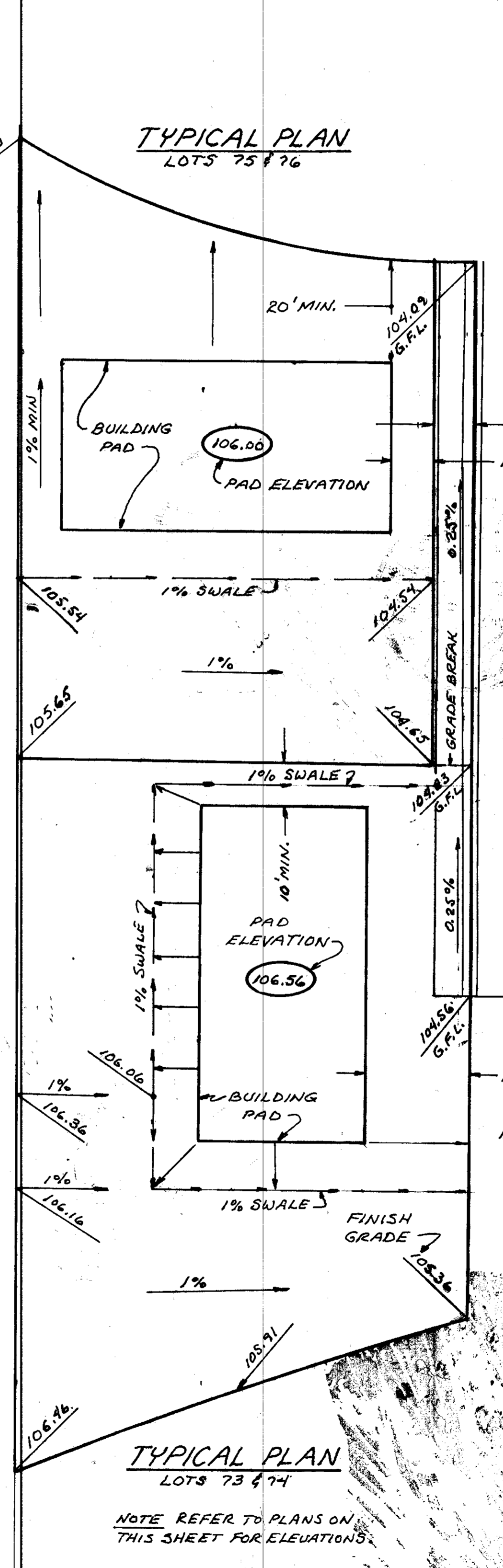
NOTE - THIS GRADING PLAN IS FOR CONCRETE SLAB CONSTRUCTION AND MAY BE MODIFIED BY BUILDER TO ACCOMMODATE OTHER TYPES OF CONSTRUCTION. SEE NOTE ON THIS PAGE RE: INDIVIDUAL LOT GRADING PLANS.

6-FT. HIGH MASONRY FENCE SOUND BARRIER (SEE DETAIL THIS SHEET)

10-FT. WIDE ADDITIONAL R.O.W. TO BE DEDICATED TO THE STATE OF CALIF. BY THE DEVELOPER (TO BE DEDICATED PRIOR TO APPROVAL OF FINAL MAP)

**RECORD DRAWING**

Corrections By \_\_\_\_\_  
 No Changes By W.G. Atteberry  
 Date 9-29-99  
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NOTE REFER TO KLEINFELDER'S SOIL REPORT FILE NO. 20-2937-02.601 GEOTECHNICAL SERVICES - REPORT UPDATE CONCERNING COMPACTION REQUIREMENTS AND SITE PREPARATION.

NOTE LOT GRADING WILL BE DONE AT THE TIME OF INDIVIDUAL HOME CONSTRUCTION. THE BUILDER SHALL SUBMIT, WITH THE BUILDING PERMIT APPLICATION, A LOT GRADING PLAN SHOWING BUILDINGS, DRIVEWAYS, SIDEWALKS, AND TREES TO BE PRESERVED. ALL LOTS SHALL HAVE 1% MIN. SLOPE AND SHALL DRAIN IN THE DIRECTIONS AS SHOWN ON THESE PLANS.



VERTICAL DATUM U.S.G.S. BENCH MARK # BRASS DISK STAMPED "1106" "1960" LOCATED ON NORTH SIDE OF S.R. 88, STA 407+50, TOP OF CONCRETE CULVERT HEADWALL B.M. EL. 102.45	DESIGNED <u>W.G.A.</u> DRAWN <u>W.G.A.</u> CHECKED <u>W.G.A.</u> APPROVED <u>W.G. Atteberry</u> <u>RCE 3444</u> 3-31-01	REVISED
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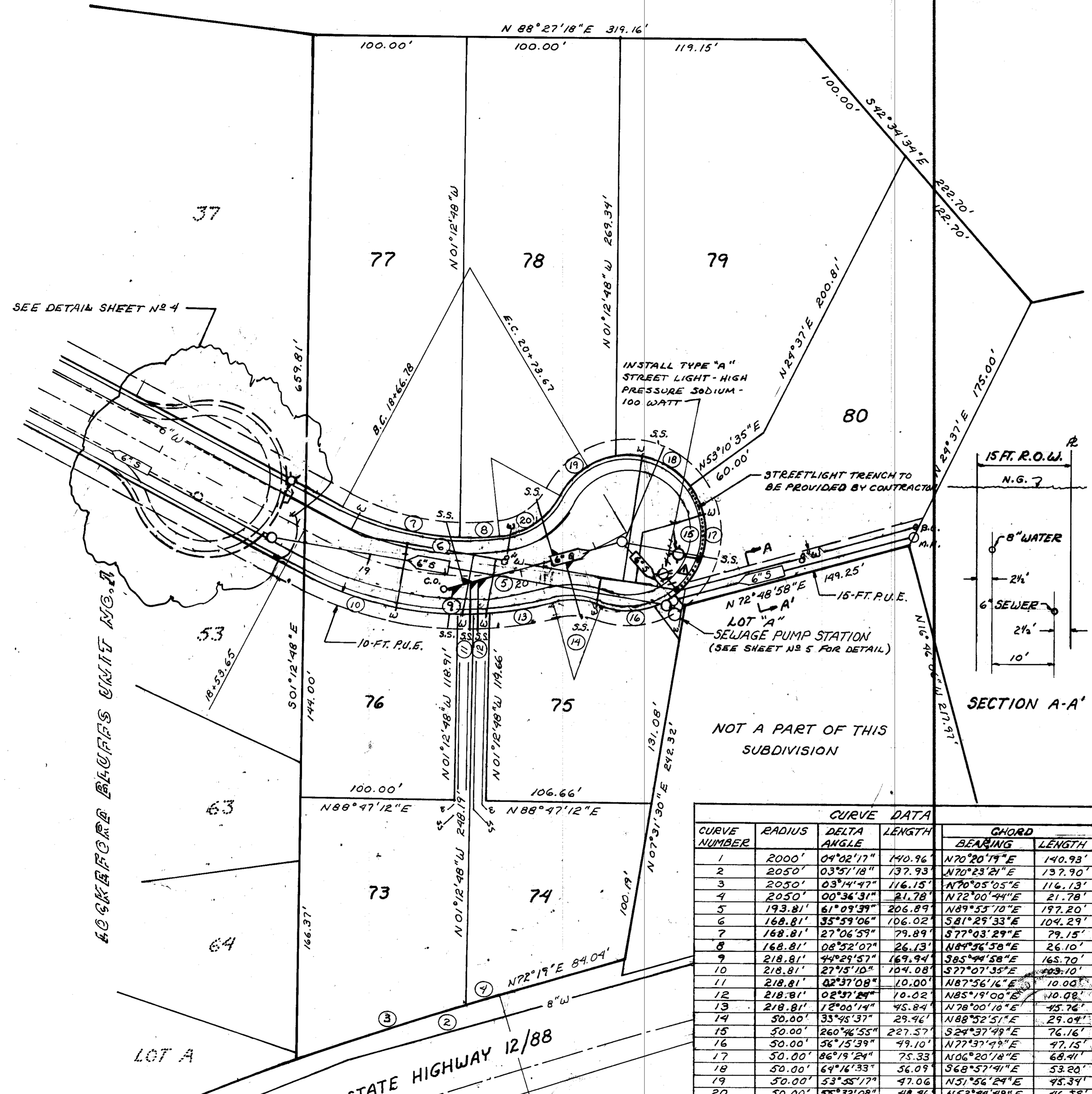
**ATTEBERRY & ASSOCIATES**  
 ENGINEERS - ARCHITECTS - PLANNERS  
 3994 Bush Creek Rd.  
 Suite 1000 - 17 - 83444  
 95626

LOCKFORD BLUFFS SUBDIVISION UNIT NO. 2  
 PHASE 1  
**GRADING PLAN**  
 SAN JOAQUIN COUNTY, CALIFORNIA

SCALE 1"=40'  
 DATE MAR. 1999  
 DRAWING NUMBER 94003  
 SHEET 3 OF 7

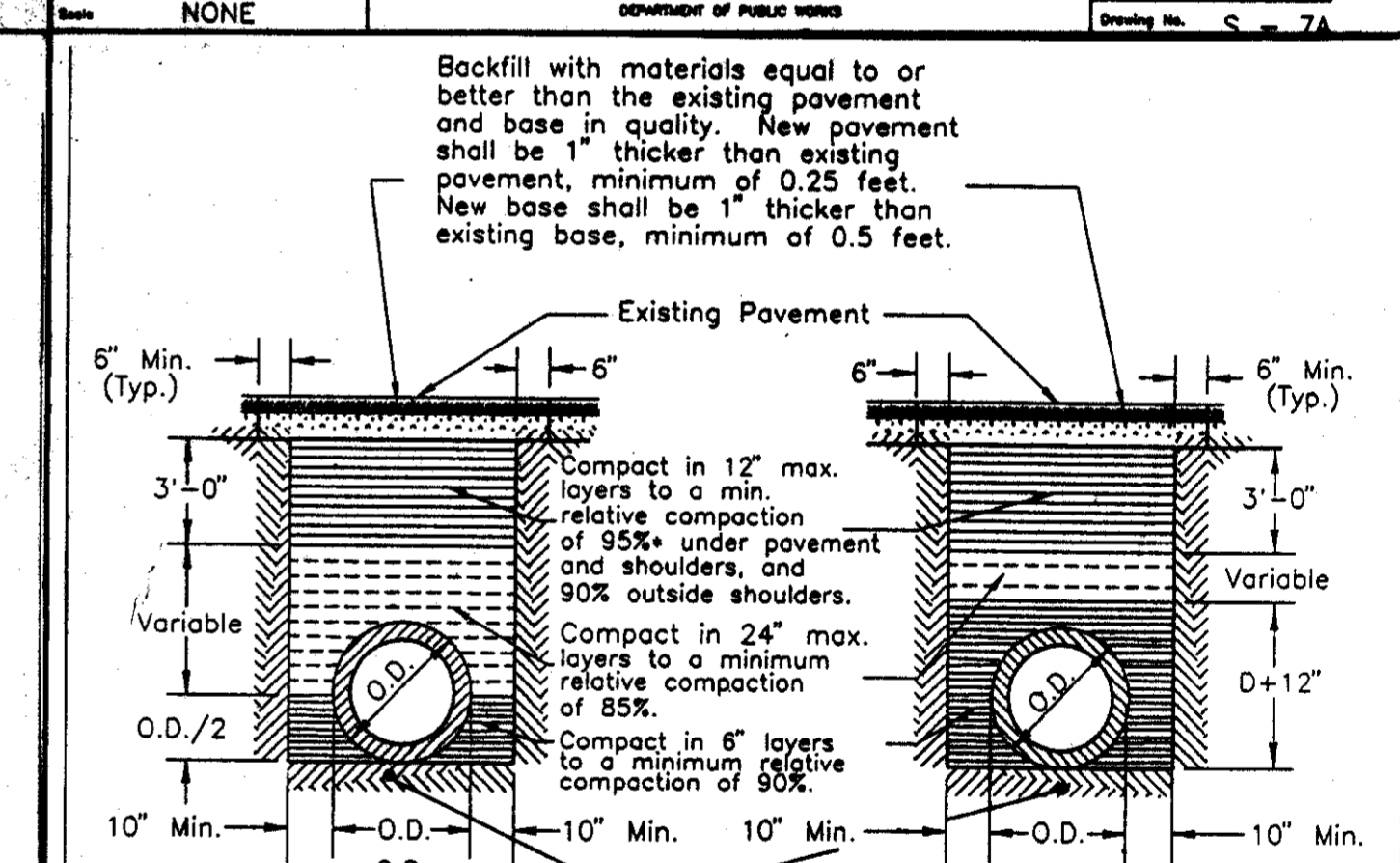
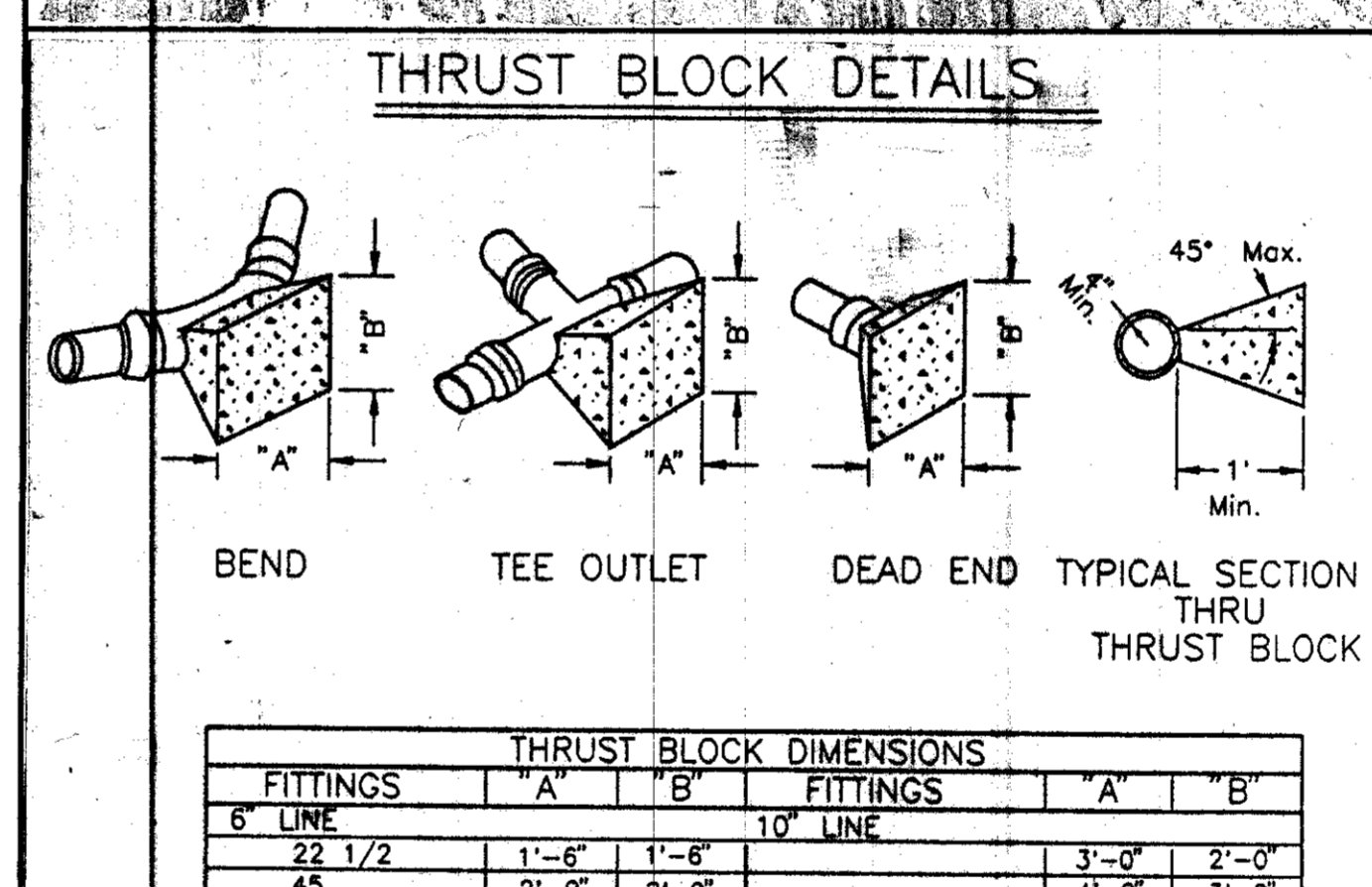
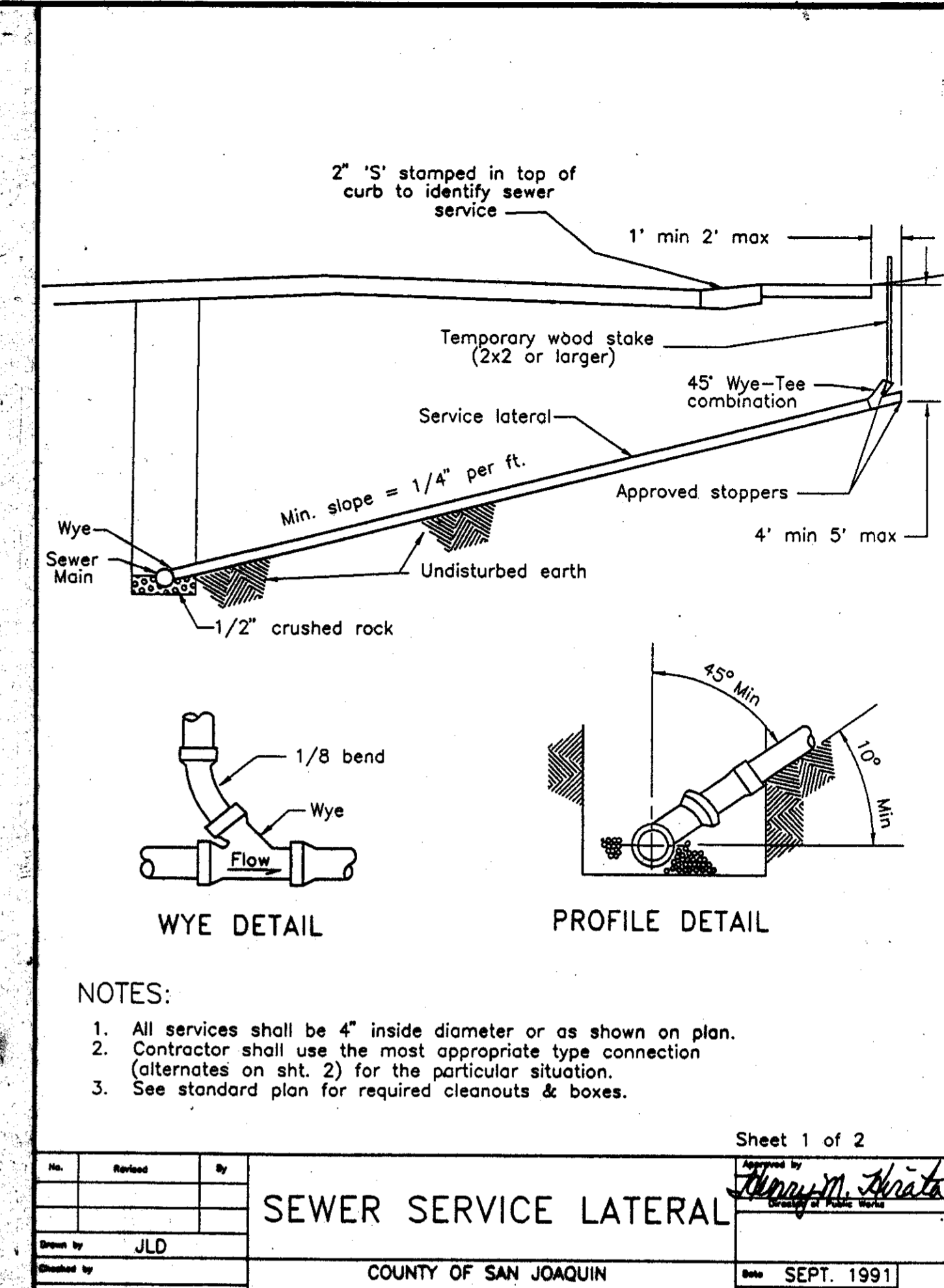
SU 3156

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 Corrections By: \_\_\_\_\_  
 No Changes By: \_\_\_\_\_  
 Date: 9-29-99  
 Any Person Using This Drawing Without the Written Consent of the Designer is Doing So at Their Own Risk.  
 All Information by Reference to this Drawing is the Property of the Designer.



**CURVE DATA**

CURVE NUMBER	RADIUS	DELTA ANGLE	LENGTH	CHORD	
				BEARING	LENGTH
1	2000'	04°02'17"	140.96'	N70°20'19"E	140.93'
2	2050'	03°51'18"	137.93'	N70°23'21"E	137.90'
3	2050'	03°51'47"	116.15'	N70°05'05"E	116.13'
4	2050'	00°36'31"	21.78'	N72°00'44"E	21.78'
5	193.81'	61°09'39"	206.89'	N89°55'10"E	197.20'
6	168.81'	35°59'06"	106.02'	S81°25'33"E	104.29'
7	168.81'	27°06'59"	79.89'	S77°03'29"E	79.15'
8	168.81'	08°52'07"	26.13'	N84°56'58"E	26.10'
9	218.81'	44°29'57"	169.94'	S85°56'58"E	165.70'
10	218.81'	27°53'10"	104.08'	S77°03'35"E	103.10'
11	218.81'	02°37'08"	10.00'	N87°56'16"E	10.00'
12	218.81'	02°37'10"	10.02'	N85°59'00"E	10.02'
13	218.81'	12°00'14"	45.84'	N78°00'10"E	45.78'
14	50.00'	33°45'37"	29.46'	N88°52'51"E	29.04'
15	50.00'	26°46'55"	22.57'	S24°37'49"E	22.16'
16	50.00'	56°15'39"	49.10'	N77°37'49"E	47.15'
17	50.00'	86°19'24"	75.33'	N06°20'18"E	68.41'
18	50.00'	64°16'33"	56.09'	S68°57'41"E	53.20'
19	50.00'	53°55'17"	47.06'	N51°56'24"E	45.34'
20	50.00'	55°32'08"	48.46'	N52°44'49"E	46.39'



**THRUST BLOCK DIMENSIONS**

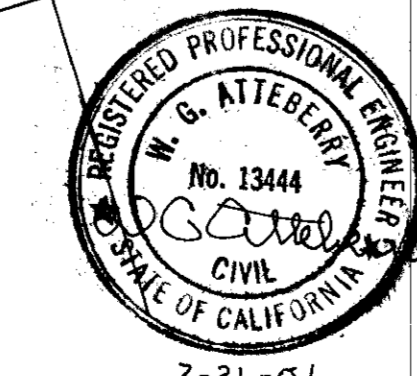
FITTINGS	"A"		"B"	
	MIN.	MAX.	MIN.	MAX.
6" LINE	1'-6"	1'-6"	1'-6"	1'-6"
45	2'-0"	2'-0"	4'-0"	3'-0"
90	3'-0"	2'-6"	5'-6"	4'-0"
TEE OUTLET	3'-0"	2'-0"	4'-0"	4'-0"
DEAD END	3'-0"	2'-0"	4'-0"	4'-0"
8" LINE	2'-0"	2'-0"	3'-0"	3'-0"
45	3'-0"	2'-6"	4'-8"	4'-0"
90	4'-0"	3'-6"	8'-0"	4'-0"
TEE OUTLET	3'-6"	3'-0"	5'-6"	4'-0"
DEAD END	3'-6"	3'-0"	5'-6"	4'-0"

**ATTEBERRY & ASSOCIATES**  
 ENGINEERS • SURVEYORS • PLANNERS  
 3494 Rush Creek Rd.  
 Cambridge, CA, 93610  
 (209) 257-3552

**LOCKFORD BLUFFS SUBDIVISION UNIT NO. 2**  
**PHASE 1**  
**UTILITY PLAN**

COUNTY OF SAN JOAQUIN  
 DEPARTMENT OF PUBLIC WORKS

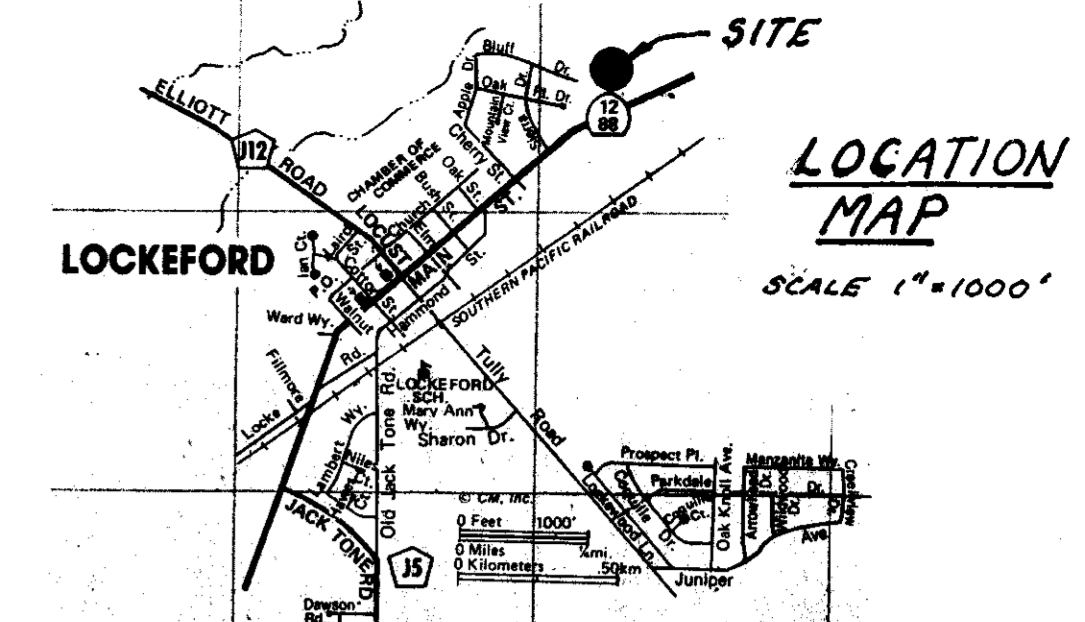
DATE: SEPT. 1991  
 DRAWING NUMBER: 94003  
 SHEET: 2 OF 7



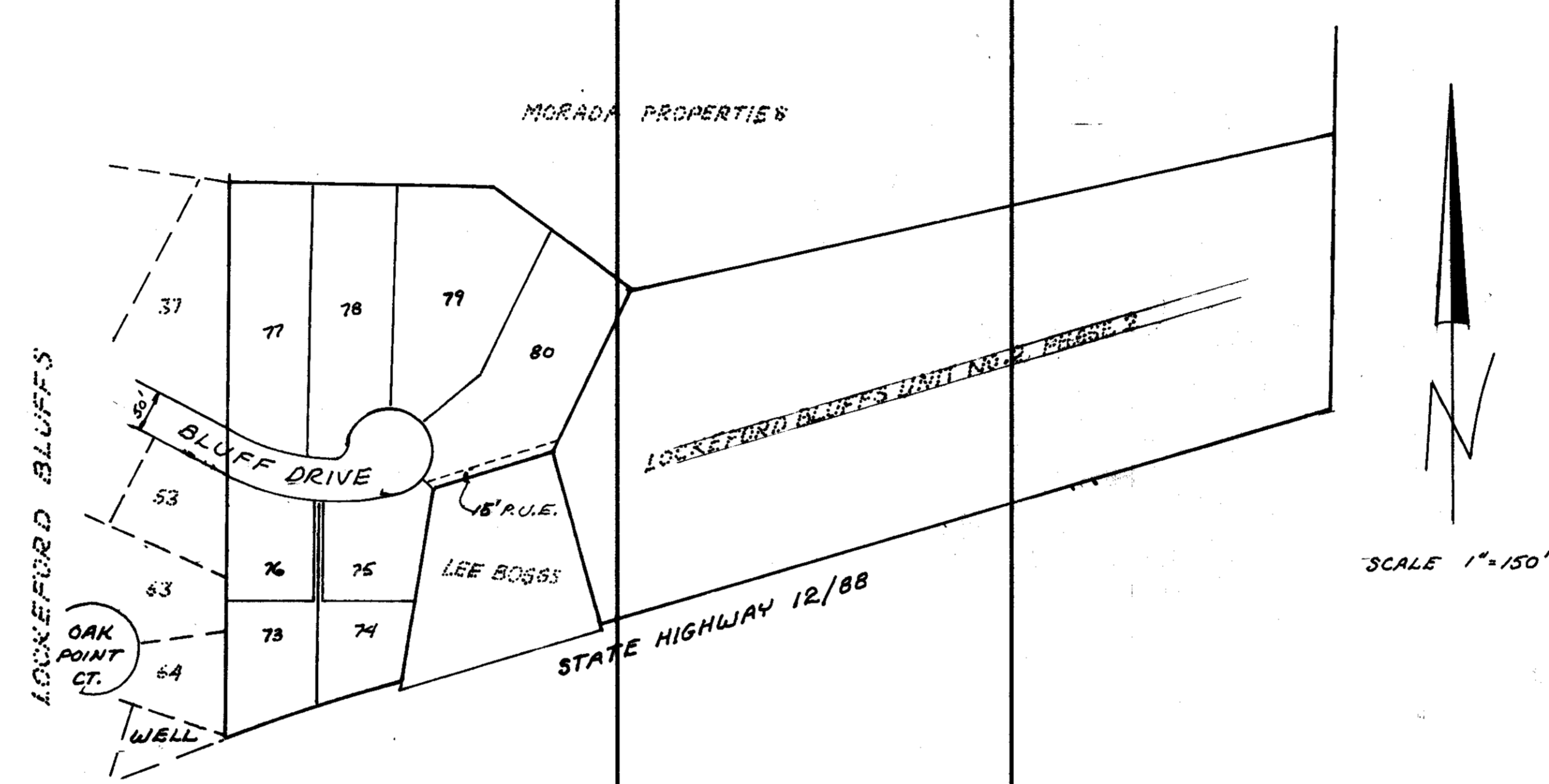
DESIGNED: W.G. A.  
 DRAWN: W.G. A.  
 CHECKED: W.G. A.  
 APPROVED: W.G. Atteberry  
 RCE 13444  
 3-31-01

SU 3157

# CONSTRUCTION PLANS LOCKEFORD BLUFFS UNIT NO. 2 PHASE 1 SAN JOAQUIN COUNTY, CALIFORNIA



<b>OWNER</b>	Morada Properties c/o Pablo Zeiter 6102 E. Roberta Court Stockton, CA 95212 Phone: 931-5312	<b>ENGINEER</b>	W.G. Atteberry Atteberry & Associates 3494 Rush Creek Road Cambridge, ID 83610 Phone: (208) 257-3562
<b>UTILITIES</b>	Water: Lockeford Community Services District PO Box Z, Lockeford, CA 95237 Phone: 727-5035 Sewer: Lockeford Community Services District PO Box Z, Lockeford, CA 95237 Phone: 727-5035 Electric: Pacific Gas & Electric Co. 4040 West Lane Stockton, CA 95201 Phone: 466-2261 Gas: Pacific Gas & Electric Co. 4040 West Lane Stockton, CA 95201 Phone: 466-2261 Telephone: Pacific Bell Telephone Co. Drainage: San Joaquin County Dept. of Public Works, CSA 45 Street Lighting: San Joaquin County Dept. of Public Works Lockeford Public Highway Lighting Dist. Landscape Maintenance: Lockeford Community Services District PO Box Z, Lockeford CA 95237 Phone: 727-5035		



### LEGEND

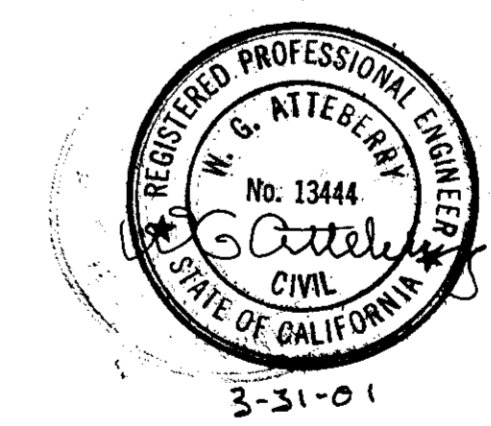
Description	To Be Constructed	Existing
Sanitary sewer.....		
Storm sewer.....		
Gas line.....		
Water line.....		
Telephone.....		
Cable television.....		
Gas valve.....		
Water valve.....		
Electrical conduit.....		
Match line.....		
Manhole.....		
Catchbasin.....		
Gas meter.....		
Water meter.....		
Curb and gutter.....		
Sidewalk.....		
Driveway.....		
Conform pavement.....		
Fire hydrant.....		
Sign.....		
Sanitary sewer cleanout.....		
Utility pole.....		
Guard rail.....		
Barricade.....		
Fence.....		
Railroad.....		
Wheelchair ramp.....		
Sanitary sewer service.....		
Lamp pole.....		
Street Light.....		

### SHEET INDEX

1. COVER SHEET
2. UTILITY PLAN
3. GRADING PLAN
4. BLUFF DRIVE
5. SEWAGE LIFT STATION
6. STREET & STORM DRAIN DETAILS
7. WATER & SEWER DETAILS

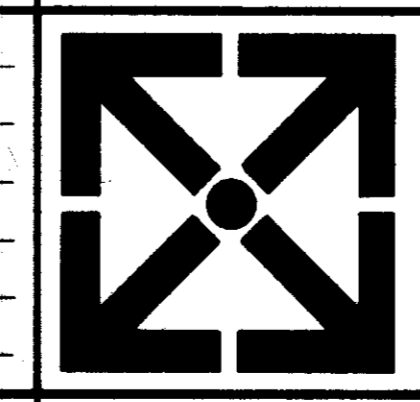
### RECORD DRAWING

Corrections By \_\_\_\_\_  
 No Changes By W.G. Atteberry  
 Date 3-21-92  
 Any Person Using This Drawing Should Verify  
 All Information By Inspecting The Site Work



NO.	DESCRIPTION	COUNTY APPROVAL
REVISIONS		APPROVED BY DATE

DESIGNED <u>W.G.A.</u>	REVISED _____
DRAWN <u>W.G.A.</u>	
CHECKED <u>W.G.A.</u>	
APPROVED <u>W.G. Atteberry</u> RCE 13444 3-31-91	



**ATTEBERRY & ASSOCIATES**  
 ENGINEERS • SURVEYORS • PLANNERS  
 3494 Rush Creek Rd.  
 Cambridge, ID. 83610  
 (208) 257-3562

LOCKEFORD BLUFFS SUBDIVISION UNIT NO. 2 PHASE 1 COVER SHEET		SCALE <u>AS SHOWN</u>	SHEET <u>1</u> OF <u>7</u>
DATE <u>MAR. 1995</u>	DRAWING NUMBER <u>97003</u>	SAN JOAQUIN COUNTY, CALIFORNIA	

**GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, THE LATEST EDITION OF THE SAN JOAQUIN COUNTY IMPROVEMENT STANDARDS, AND LOCKEFORD COMMUNITY SERVICES DISTRICT REQUIREMENTS.
2. CONTRACTOR SHALL BE IN RECEIPT OF COUNTY AND DISTRICT APPROVED PLANS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AFFECTED BY THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.
4. CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" (PHONE 800-642-2444) 48 HOURS IN ADVANCE BEFORE ANY DIGGING.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND/OR OTHER SURVEY MONUMENTS AND SHALL NOTIFY SAN JOAQUIN COUNTY SURVEYOR OF ANY DAMAGED OR REMOVED COUNTY, STATE OR FEDERAL MONUMENTS.
6. CONTRACTOR SHALL NOTIFY LOCKEFORD COMMUNITY SERVICES DISTRICT UPON APPLICATION FOR PERMIT AND PAYMENT OF REQUIRED FEES FOR SEWER AND WATER CONNECTION.
7. THE CONTRACTOR SHALL VERIFY ALL STREET NAMES WITH COMMUNITY DEVELOPMENT DEPARTMENT BEFORE ORDERING STREET SIGNS.
8. EXCEPT WHERE SPECIFICALLY AUTHORIZED BY VALID PERMITS FROM FISH AND GAME, CORP OF ENGINEERS, AND COUNTY FLOOD CONTROL DISTRICT, THE CONTRACTOR SHALL CONDUCT HIS OPERATION ENTIRELY OUTSIDE OF ANY FLOODPLAIN BOUNDARIES. FLOODPLAIN BOUNDARIES SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL CONDUCT THIS OPERATION ENTIRELY OUTSIDE OF ANY NO GRADING AREA. THESE AREAS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.
10. WHERE WORK IS BEING DONE IN AN OFFSITE EASEMENT, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 48 HOURS PRIOR TO COMMENCING WORK.
11. THE CIVIL ENGINEER SHALL SET ALL SURVEY CONTROLS AND CONSTRUCTION STAKES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY AND CONSTRUCTION STAKES, AND ANY SURVEY OR CONSTRUCTION STAKES THAT ARE LOST OR DESTROYED DUE TO CONTRACTOR'S NEGLIGENCE WILL BE RESET BY THE CIVIL ENGINEER AT THE CONTRACTOR'S EXPENSE.
12. ALL EXISTING IRRIGATION LINES WITHIN THE R.O.W. SHALL BE REMOVED.
13. WATER USED IN ANY PHASE OF CONSTRUCTION, SUCH AS BACKFILL, COMPACTION, DUST CONTROL, TESTING OR OTHER PURPOSES, SHALL BE INCLUDED IN THE UNIT PRICE OR LUMP SUM.
14. WHERE WORK IS ADJACENT TO A TRAFFIC LANE AND THERE IS A PAVEMENT CUT, DITCH OR TRENCH GREATER THAN 2 INCHES IN DEPTH, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS BARRICADES SPACED AT APPROXIMATELY 50 FOOT INTERVALS. IF THE CUT, DITCH OR TRENCH IS GREATER THAN 10 FEET FROM A TRAFFIC LANE, THE SPACING MAY BE GREATER, BUT SHALL NOT EXCEED 300 FEET. EXISTING A.C. SURFACES SHALL BE CUT IN A NEAT STRAIGHT LINE PARALLEL WITH OR PERPENDICULAR TO THE STREET CENTERLINE AS APPLICABLE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND RESEALED PRIOR TO PAVING.
15. WINTERIZATION NOTE:  
THE FOLLOWING CONDITIONS ARE REQUIRED IF GRADING AND DRAINAGE IMPROVEMENTS ARE INCOMPLETE BY 1 OCTOBER:  
(A) EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2:1 OR GREATER.  
(B) GRADE GUTTER SAG POINTS TO DRAIN.  
(C) PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN DOWNSTREAM PIPES.
16. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 06-09 OF THE STANDARD CONSTRUCTION SPECIFICATIONS AND AS DIRECTED BY THE PUBLIC WORKS DEPT. SAFETY VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. 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, SAN JOAQUIN COUNTY, LOCKEFORD COMMUNITY SERVICES DISTRICT, ITS ENGINEERING REPRESENTATIVE, AND CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
17. CONTRACTOR SHALL GIVE THE CIVIL ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY CONSTRUCTION SURVEYS.
18. CONTRACTOR SHALL NOTIFY THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS AND THE LOCKEFORD COMMUNITY SERVICES DISTRICT AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK ON THE PROJECT. PHONE (209) 468-3000.
19. NO EXTRA WORK SHALL BE PERFORMED, AND NO CHANGE SHALL BE MADE, EXCEPT PURSUANT TO A WRITTEN CHANGE ORDER FROM THE OWNER STATING THAT THE EXTRA WORK OR CHANGE IS AUTHORIZED, AND NO CLAIM FOR ANY ADDITION TO THE CONTRACT SUM OR TIME FOR COMPLETION SHALL BE VALID UNLESS SO ORDERED; PROVIDED, HOWEVER, THAT NOTHING IN THIS ARTICLE SHALL EXCUSE CONTRACTOR FROM PROCEEDING WITH THE PROTECTION OF THE WORK SO CHANGED. CONTRACTOR SHALL, WHEN REQUIRED BY THE ENGINEER, FURNISH AN ITEMIZED BREAKDOWN OF THE QUANTITIES AND PRICES USED IN COMPUTING THE VALUE OF THE CHANGE REQUESTED BY THE CONTRACTOR, OR THAT MAY HAVE BEEN ORDERED BY THE OWNER.
20. TRAFFIC SIGNS AND MARKERS SHALL BE ACCORDING TO SAN JOAQUIN COUNTY STANDARDS, CONFORMING WITH THE "UNIFORM TRAFFIC CONTROL DEVICES MANUAL." NO CHANGE SHALL BE MADE TO UTILITY IMPROVEMENTS WITHOUT PRIOR APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS AND THE LOCKEFORD COMMUNITY SERVICES DISTRICT.

**GRADING**

21. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH CHAPTER 70 OF THE 1994 EDITION OF THE UNIFORM BUILDING CODE, AND THE APPROVED GRADING PLAN.
22. CONTRACTOR'S ATTENTION IS DIRECTED TO "PRELIMINARY GEOTECHNICAL INVESTIGATION PROPOSED LOCKEFORD BLUFFS SUBDIVISION" PREPARED BY J.H. KLEINFELDER & ASSOCIATES, A COPY OF WHICH CAN BE OBTAINED FROM THE CIVIL ENGINEER OR OWNER.
23. COMPACTION TESTING WILL BE PERFORMED BY THE OWNER IN CONFORMANCE WITH THE STANDARDS OF SAN JOAQUIN COUNTY AND THE LOCKEFORD COMMUNITY SERVICES DISTRICT.

**UTILITIES**

24. PACIFIC BELL TELEPHONE COMPANY, P.G.&E., LOCKEFORD COMMUNITY SERVICES DISTRICT, AND LORI CABLE TV, ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-624-2444. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.
25. THE TYPES, LOCATIONS, SIZE AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS 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. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER 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.
26. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THE UNDERGROUND UTILITIES WHERE SUCH FACILITIES MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE IMPROVEMENT PLANS.
27. THE CONTRACTOR SHALL EXPOSE THE ENDS OF EXISTING SEWER AND DRAIN LINES AND VERIFY THEIR LOCATION AND ELEVATION PRIOR TO PLACEMENT OF PIPE. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE PAID FOR VARIOUS OTHER ITEMS OF WORK.
28. THE STREET LIGHT SYSTEM SHALL BE INSTALLED BY THE PACIFIC GAS & ELECTRIC CO.
29. HOUSE SERVICES, FIRE HYDRANT LATERALS, AND STREET LIGHT CONDUIT SHALL BE INSTALLED PRIOR TO CURB AND GUTTER CONSTRUCTION. ALL UNDERGROUND UTILITIES WITHIN THE STREET AREA, INCLUDING GAS AND TELEPHONE LINES, SHALL BE INSTALLED PRIOR TO PAVING.

**WATER AND SEWER**

30. WATER FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THESE PLANS AND THE LOCKEFORD COMMUNITY SERVICES DISTRICT STANDARD SPECIFICATION FOR WATER DISTRIBUTION SYSTEMS.
31. SEWER FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THESE PLANS AND THE COUNTY OF SAN JOAQUIN IMPROVEMENTS SPECIFICATIONS AND STANDARDS AS MODIFIED HEREIN AND APPROVED BY THE LOCKEFORD COMMUNITY SERVICES DISTRICT.
32. ALL SEWER/WATER CROSSINGS SHALL CONFORM TO STATE HEALTH DEPARTMENT REGULATIONS. CONTRACTOR SHALL CONTACT LCSD 48 HOURS PRIOR TO BEGINNING OF WATER LINE INSTALLATION (727-5035).
33. ALL VALVES SHALL BE FLANGED TO TEES AND/OR CROSSES.
34. A MINIMUM OF 12" CLEARANCE SHALL BE MAINTAINED WHEN CROSSING OVER OR UNDER WATER LINES WITH ALL OTHER FACILITIES.
35. WHERE WATER CROSSES SD OR SS USE AN 18-20 FT. LENGTH OF CL. 200 PIPE, CENTERED OVER THE SS OR SD IF: A) THE WATER IS UNDER THE SS OR SD. B) THE VERTICAL CLEARANCE IS LESS THAN 1 FT.
36. SANITARY SEWER SERVICES SHALL BE MARKED BY THE CURB & GUTTER CONTRACTOR WITH AN "S" STAMPED ON THE TOP OF CURB.
37. WATER SERVICES SHALL BE MARKED BY THE CURB AND GUTTER CONTRACTOR WITH A "W" STAMPED ON THE TOP OF CURB.
38. SEPARATION OF WATER AND SEWER MAINS (INCLUDING CROSSINGS) AND SEWER LATERALS CROSSING OVER WATER MAINS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
39. ALL WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, FLUSHED AND TESTED FOR BACTERIA IN CONFORMANCE WITH THE SAN JOAQUIN COUNTY HEALTH CODE REQUIREMENTS PRIOR TO CONNECTING TO EXISTING WATER LINE.
40. NO MATERIALS RESULTING FROM TAPPING PROCEDURES MAY ENTER DISTRICT SEWER.
41. EACH SEWER SERVICE SHALL HAVE A CLEAN OUT AT THE PROPERTY LINE.
42. NOTE THAT INSPECTION OF ALL UNDERGROUND UTILITIES WILL BE PERFORMED BY SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS AND LOCKEFORD COMMUNITY SERVICES DISTRICT. THEY MUST BE INSPECTED BEFORE BACKFILL. NOTIFY INSPECTORS 48 HOURS PRIOR TO REQUIRING THEIR SERVICES. PHONE (209) 727-3035.
43. PERMITTED STRENGTHS ALLOWED FOR UNDERGROUND UTILITIES ARE AS FOLLOWS: STORM DRAIN (SD) - RCP OR ACP - CL. 15 PER AWWA STD. (S) - VCP, EXTRA STRENGTH, PER ASTM STD. C-700, WATER (W) - PVC, CL. 150 PER AWWA STD. C-900.

**CHANGES ON PLANS & SPECIFICATIONS**

44. ANY CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS MUST BE PREPARED AND CERTIFIED BY THE "CIVIL ENGINEER", AND SHALL BE SUBMITTED TO THE DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO IMPLEMENTATION.

SU 3158