



## **SECTION H**

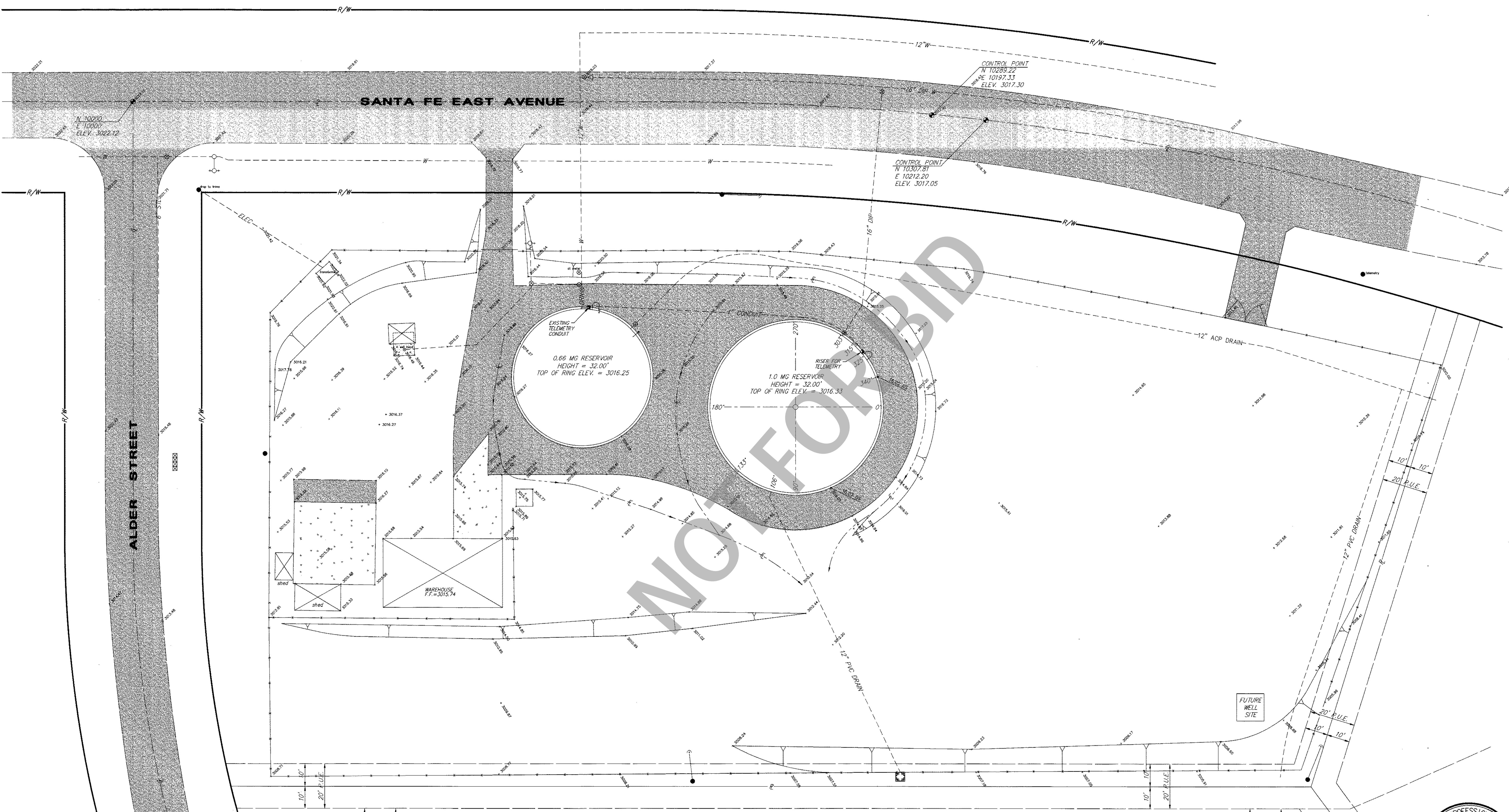
### **CSA 64 TANK 2A AND 2B** **AS-BUILTS**

### **CSA 64 RECOATING TANKS** **2A AND 2B PROJECT**

FOR

**COUNTY SERVICE AREA 64**  
**HESPERIA, CALIFORNIA**

**PROJECT NO.: 30.30.0115**



NOT FOR BID

**RESERVOIR 2B SITE PLAN**

SCALE: 1"=20'



REV.	REVISION	DESCRIPTION	BY	DATE

DESIGNED BY: <b>T.E.R.</b>	PROJECT ENGINEER
DRAWN BY: <b>G.R.C.</b>	MICHAEL PODEGRACZ R.C.E. No. 33445 DATE
CHECKED BY:	SUBMITTED BY
	WILSON F. SO R.C.E. No. 21651 DATE

PREPARED BY:  
**So & Associates Engineers Inc.**  
 16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712  
 APPLE VALLEY, CALIFORNIA 92307  
 (619) 242-2365 • FAX (619) 242-3083

APPROVED BY: <i>Gary Martin</i> 2-24-97	DATE
SPECIAL DISTRICT	
COUNTY SERVICE AREA 64	DATE

SCALE: AS SHOWN
WORK ORDER NO. 101.0520

**COUNTY SERVICE AREA 64**  
 COUNTY OF SAN BERNARDINO  
 SPECIAL DISTRICTS DEPARTMENT  
**CSA 64 RESERVOIR No. 2B - "AS-BUILT"**  
**RESERVOIR SITE AND GRADING PLAN**

SHEET 1
OF 1
DRAWING NO. C-1

# COUNTY SERVICE AREA 64

SAN BERNARDINO COUNTY, CALIFORNIA

DRAWINGS FOR CONSTRUCTION OF:

## 1.0 MG RESERVOIR

### BOARD OF SUPERVISORS:

MARSHA TUROCI . . . . . (Chairperson) First District  
JON D. MIKELS . . . . . Second District  
BARBARA CRAM RIORDAN . . . . . Third District  
LARRY WALKER . . . . . Fourth District  
JERRY EAVES . . . . . Fifth District

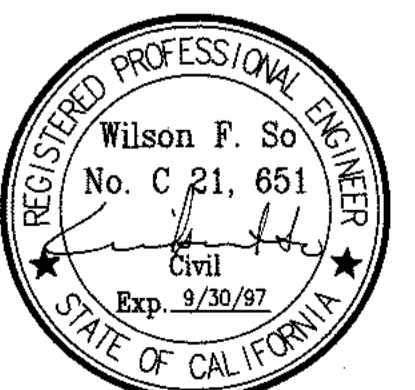
PROJECT ADMINISTRATION BY OFFICE OF SPECIAL DISTRICTS  
BILL SMILLIE, WATER FACILITIES MANAGER

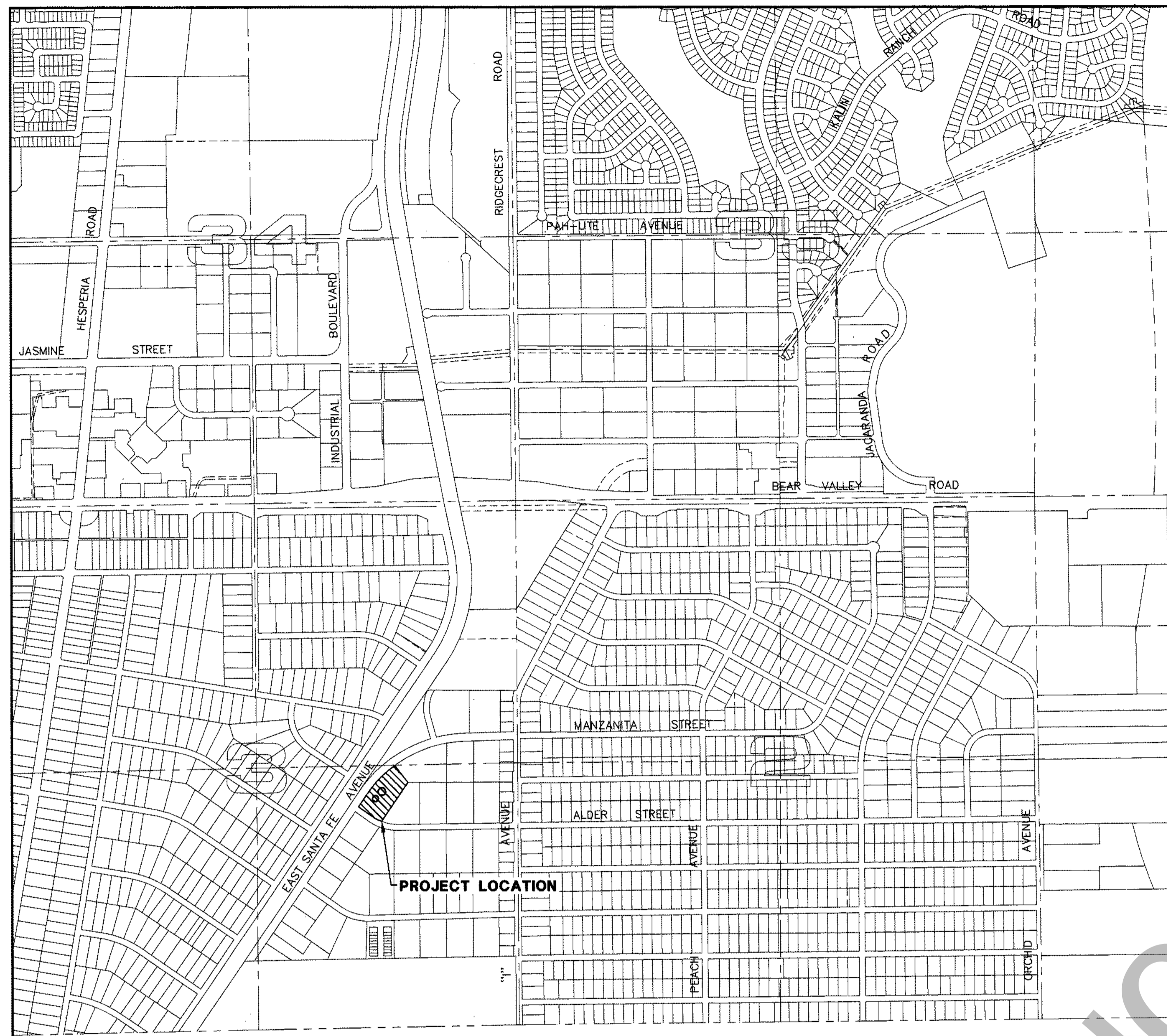
REVIEWED BY: Bill Smillie Em 11-17-95  
WATER FACILITIES MANAGER DATE

SO & ASSOCIATES ENGINEERS, INC.

16209 KAMANA ROAD - P.O. BOX 1712

APPLE VALLEY, CALIFORNIA 92307



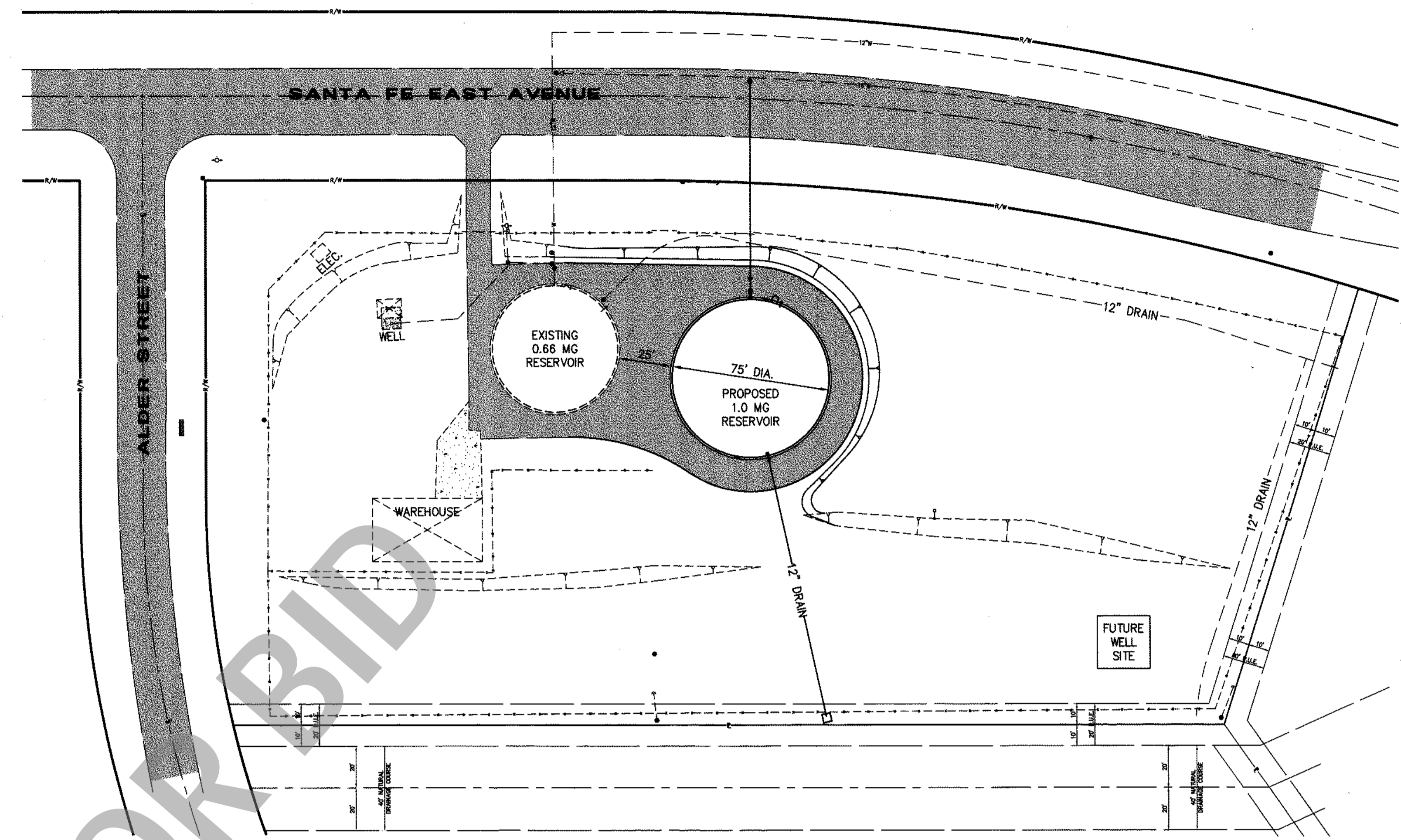


**VICINITY MAP**  
SCALE: 1"=800'

**LEGEND**

	CUT	BF	BLIND FLANGE		MAIL BOX
	SCARIFY AND RECOMPACT	CL	CENTERLINE		TELEPHONE PEDESTAL
	FILL SLOPE	C.M.L.&C.	CEMENT MORTAR LINED AND COATED		GATE VALVE
	CUT SLOPE	DIA.	DIAMETER		FIRE HYDRANT
	FLOWLINE	DIP	DUCTILE IRON PIPE		CONTROL POINT
	NEW ASPHALT PAVEMENT	DWG	DRAWING		FLANGED
	EXISTING ASPHALT PAVEMENT	FG	FINISH GRADE		FINISH SURFACE
	GROUTED ROCK RIP-RAP	---3075---	CONTOUR LINE		FLOW LINE
	CONCRETE SLAB	---	CONSTRUCTION LIMIT BOUNDARY		GRADE BREAK
AC	ASBESTOS CEMENT PIPE	-*-*-*	CHAIN LINK FENCE	OH T	OVERHEAD TELEVISION OR TELEPHONE
BV	BUTTERFLY VALVE	●	POWER POLES	PE	PLAIN END
STD	STANDARD	S	SLOPE	PL	PROPERTY LINE

**BENCHMARK**  
CITY OF HESPERIA  
H-8  
ELEVATION 3060.548



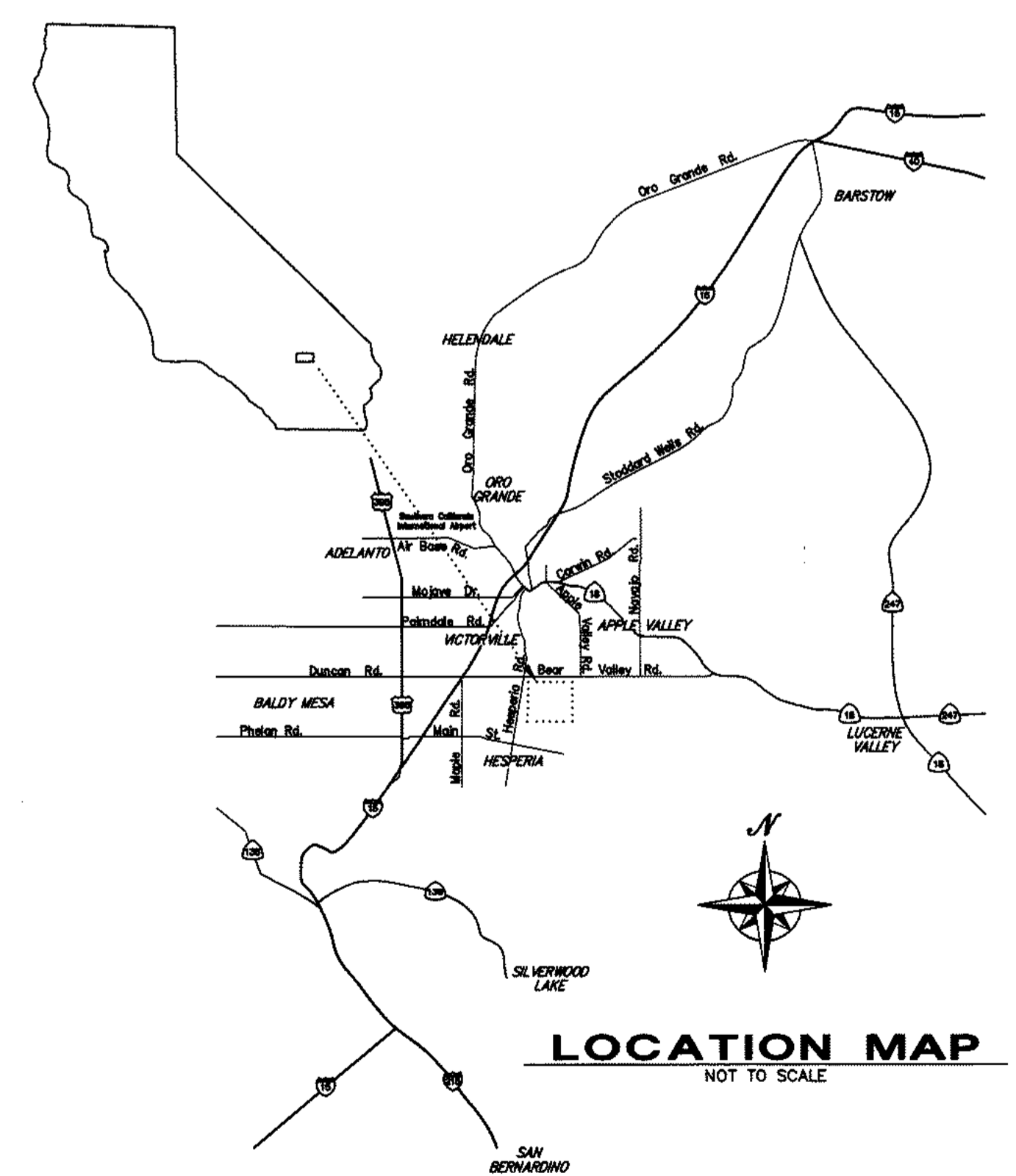
**LIST OF DRAWINGS**

TITLE	.....	G-1
GENERAL NOTES, LEGEND, INDEX, AND LOCATION MAPS	.....	C-1
SITE AND GRADING PLAN	.....	C-2
CROSS SECTIONS AND DETAILS	.....	C-3
MISCELLANEOUS DETAILS	.....	

**SITE PLAN**  
SCALE: 1"=40'

**GENERAL NOTES**

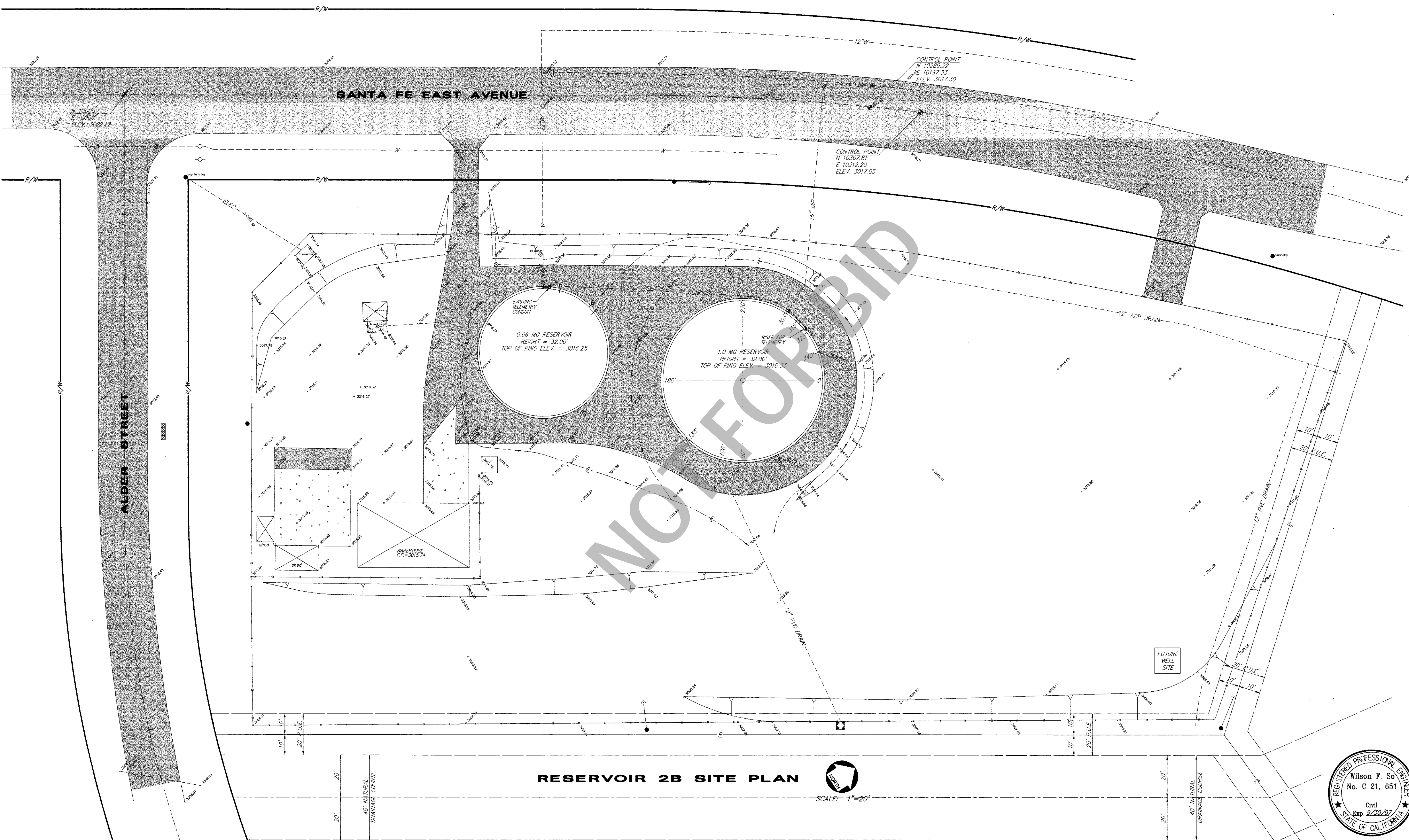
1. THE RESERVOIR SITE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS AND PROVISIONS OF THE PRELIMINARY GEOTECHNICAL INVESTIGATION, COUNTY SERVICE AREA 64 RESERVOIR SITE PREPARED BY LOR GEOTECHNICAL GROUP, INC. DATED OCTOBER, 1995.
2. THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS AND FABRICATION DRAWINGS TO DISTRICT ENGINEER. SAID CALCULATIONS AND DRAWINGS SHALL BE APPROVED BY THE DISTRICT ENGINEER PRIOR TO FABRICATION.
3. ALL RESERVOIR MATERIAL SHALL BE OFF-LOADED FROM TRUCKS UTILIZING A CRANE OR OTHER MECHANICAL MEANS (DRAGGING OFF SUPPLY TRUCKS WILL NOT BE ALLOWED).
4. GROUTED ROCK RIP RAP SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH SECTION 72-5 (METHOD "A" OR "B") OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
5. THE CONTRACTOR SHALL SCARIFY BELOW THE PROPOSED RESERVOIR PAD TO ELEVATION 3014.25 AND RECOMPACT THE SCARIFIED MATERIAL, RECOMPACT TO 95% OF MAXIMUM DRY DENSITY.
6. UPON COMPLETION OF RESERVOIR ERECTION, ALL CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE PROJECT SITE.
7. UPON COMPLETION OF RESERVOIR INTERIOR SANDBLASTING, ALL SAND SHALL BE REMOVED FROM THE PROJECT SITE AND HAULED TO AN OWNER APPROVED LANDFILL. NO OTHER PAINTING OR COATING WORK SHALL BE PERMITTED UNTIL SAND IS DISPOSED OF.
8. ALL CONSTRUCTION DEBRIS (WELDING RODS, PAINT CANS, TRASH, ETC.) SHALL BE REMOVED FROM THE PROJECT SITE AT THE CLOSE OF EACH WORK WEEK.
9. DIESEL FUEL, OIL OR PAINT SPILLS WITHIN THE PROJECT SITE SHALL IMMEDIATELY BE CLEANED AND ALL CONTAMINATED SOIL REMOVED TO AN APPROVED DISPOSAL SITE.
10. ALL EXCESS CUT MATERIAL SHALL BE SPREAD EVENLY OVER THE PROJECT AREA UNLESS OTHERWISE DIRECTED. ALL EXCESS MATERIAL WILL BE COMPACTED TO 90% MAXIMUM DENSITY.
11. PRIOR TO FINAL ASPHALT PAVEMENT, CONTRACTOR TO COMPACT THE TOP 12" BELOW FINISH GRADE TO 95% MAXIMUM DENSITY.



**LOCATION MAP**  
NOT TO SCALE



DESIGNED BY: <b>T.E.R.</b>	PROJECT ENGINEER	PREPARED BY: <b>So &amp; Associates Engineers Inc.</b>	APPROVED BY: <b>Larry Martin</b> 11-20-95	SCALE: AS SHOWN	COUNTY SERVICE AREA 64	SHEET 2 OF 5
DRAWN BY: <b>J.B.C.</b>	R.C.E. No. _____ DATE _____	16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712	SPECIAL DISTRICTS	WORK ORDER NO. 101.0520	COUNTY OF SAN BERNARDINO	DRAWING NO. G-1
CHECKED BY: <b>mp</b>	SUBMITTED BY DISTRICT ENGINEER	APPLE VALLEY, CALIFORNIA 92307	<b>Wilson F. So</b> 11-19-95		SPECIAL DISTRICTS DEPARTMENT	
REV. _____	WILSON F. SO R.C.E. No. 21651 DATE 11-14-95	(619) 242-2365 • FAX (619) 242-3083	COUNTY SERVICE AREA 64		CSA 64 RESERVOIR No. 2B	
REVISION DESCRIPTION BY DATE					GENERAL NOTES, LEGEND, INDEX, AND LOCATION MAPS	



**RESERVOIR 2B SITE PLAN**

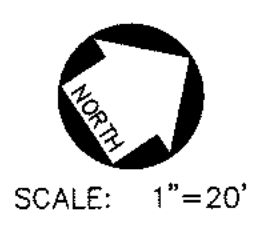
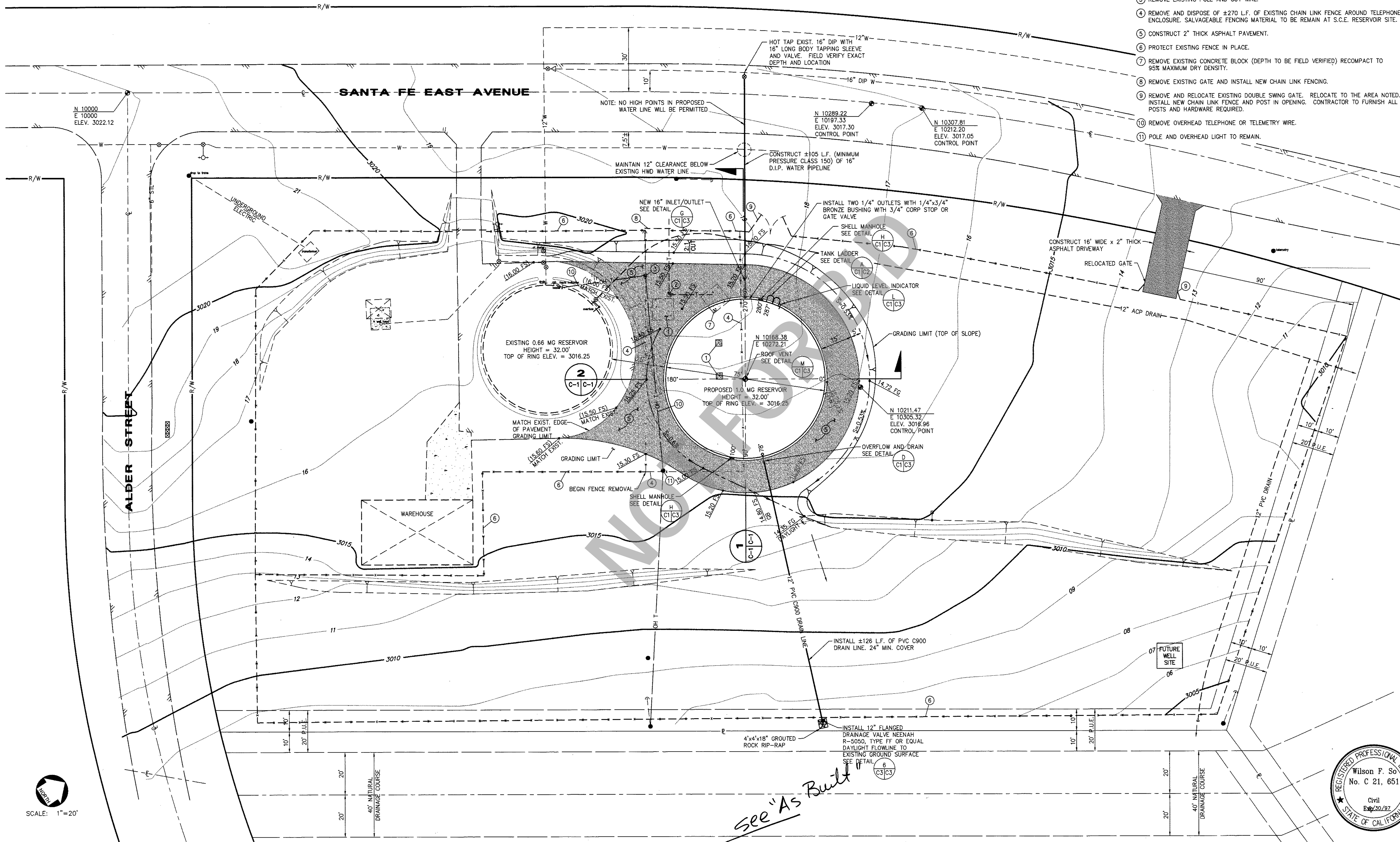
SCALE: 1"=20'



REV.	REVISION	DESCRIPTION	BY	DATE	DESIGNED BY: <u>T.E.R.</u>	PROJECT ENGINEER	<p>16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712 APPLE VALLEY, CALIFORNIA 92307 (619) 242-2365 • FAX (619) 242-3083</p>	APPROVED BY: <u>Gary Martin</u> <u>2-24-97</u>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64 COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS DEPARTMENT <b>CSA 64 RESERVOIR No. 2B - "AS-BUILT"</b> RESERVOIR SITE AND GRADING PLAN	SHEET 1
					DRAWN BY: <u>G.R.C.</u>	MICHAEL PODEGRACZ R.C.E. No. 33445 DATE		SPECIAL DISTRICTS	DATE		WORK ORDER NO. 101.0520
					CHECKED BY:	WILSON F. SO R.C.E. No. 21651 DATE	COUNTY SERVICE AREA 64	DATE			DRAWING NO. C-1

**DEMOLITION AND GRADING NOTES**

- ① REMOVE EXISTING CONCRETE PAD (ALL CONCRETE IS TO BE REMOVED FROM SITE AND TRANSPORTED TO HI-GRADE MATERIALS CO., 17671 BEAR VALLEY ROAD UNLESS OTHERWISE DIRECTED).
- ② REMOVE EXISTING PEDESTAL AND ALL UNDERGROUND CABLES AND CONDUITS TO A LIMIT OF 10 FEET BEYOND NEW EDGE OF ASPHALT.
- ③ REMOVE EXISTING POLE AND GUY WIRE.
- ④ REMOVE AND DISPOSE OF ±270 L.F. OF EXISTING CHAIN LINK FENCE AROUND TELEPHONE ENCLOSURE. SALVAGEABLE FENCING MATERIAL TO BE REMAIN AT S.C.E. RESERVOIR SITE.
- ⑤ CONSTRUCT 2" THICK ASPHALT PAVEMENT.
- ⑥ PROTECT EXISTING FENCE IN PLACE.
- ⑦ REMOVE EXISTING CONCRETE BLOCK (DEPTH TO BE FIELD VERIFIED) RECOMPACT TO 95% MAXIMUM DRY DENSITY.
- ⑧ REMOVE EXISTING GATE AND INSTALL NEW CHAIN LINK FENCING.
- ⑨ REMOVE AND RELOCATE EXISTING DOUBLE SWING GATE. RELOCATE TO THE AREA NOTED. INSTALL NEW CHAIN LINK FENCE AND POST IN OPENING. CONTRACTOR TO FURNISH ALL POSTS AND HARDWARE REQUIRED.
- ⑩ REMOVE OVERHEAD TELEPHONE OR TELEMETRY WIRE.
- ⑪ POLE AND OVERHEAD LIGHT TO REMAIN.

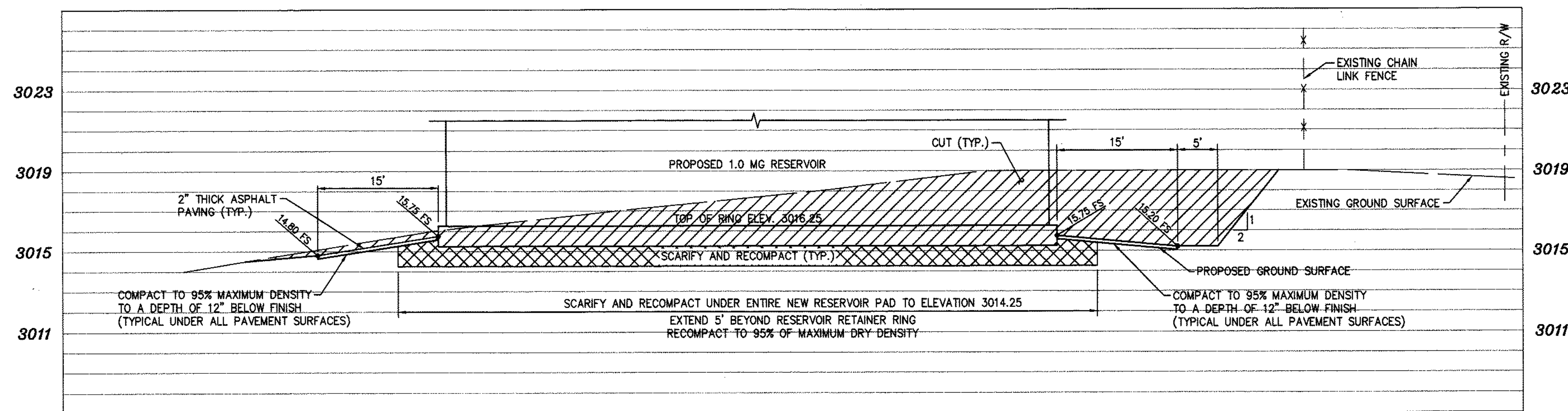


SCALE: 1"=20'

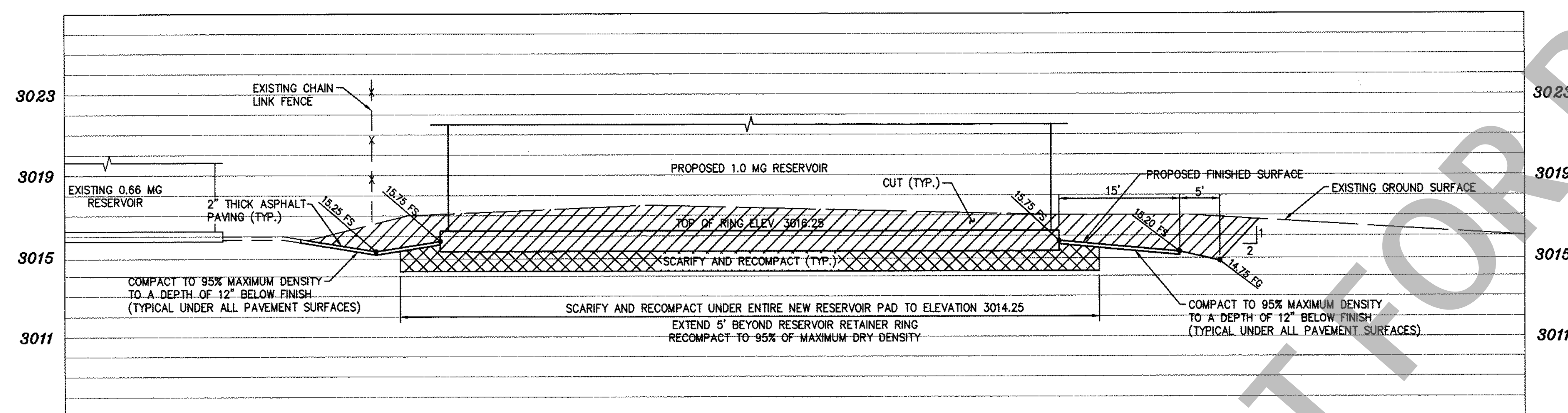
*See "As Built"*



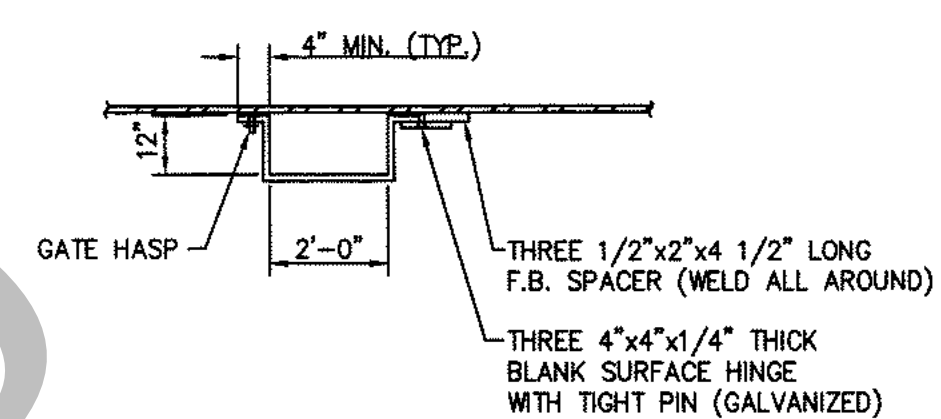
REV.	1	See "As Built" 5/17.1 of 1	WS	2-24-97	DESIGNED BY: T.E.R.	PROJECT ENGINEER	PREPARED BY:	APPROVED BY:	SCALE:	COUNTY SERVICE AREA 64 COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS DEPARTMENT	SHEET 3 OF 5
					DRAWN BY: J.C./G.C.	MICHAEL PODEGRACZ SUBMITTED BY DISTRICT ENGINEER	So & Associates Engineers Inc.	Special Districts	AS SHOWN		
					CHECKED BY: W.P.	WILSON F. SO R.C.E. No. 21651	16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712 APPLE VALLEY, CALIFORNIA 92307 (619) 242-2365 • FAX (619) 242-3083	Will Small FM COUNTY SERVICE AREA 64	11-20-95 DATE	11-17-95 DATE	CSA 64 RESERVOIR No. 2B RESERVOIR SITE AND GRADING PLAN



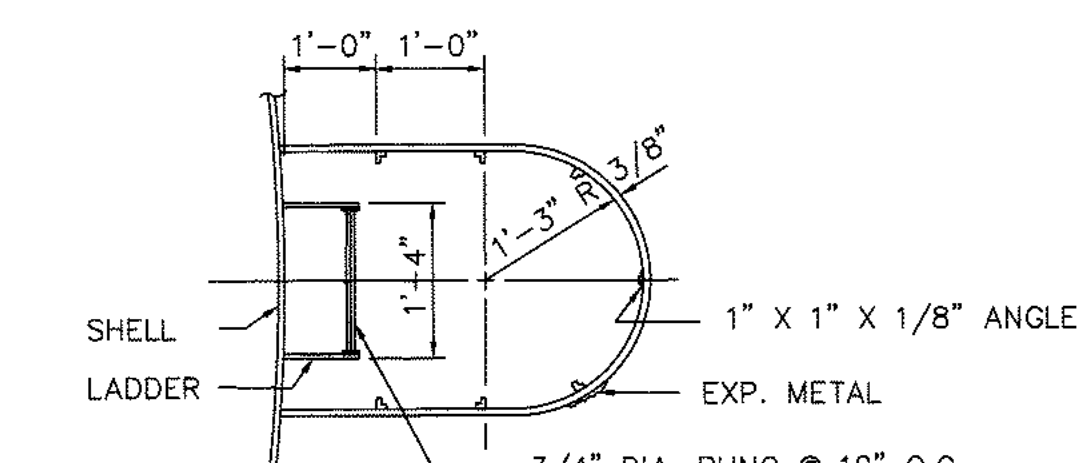
**SECTION 1**  
SCALE:  
HORIZ.: 1"=10'  
VERT.: 1"=4'



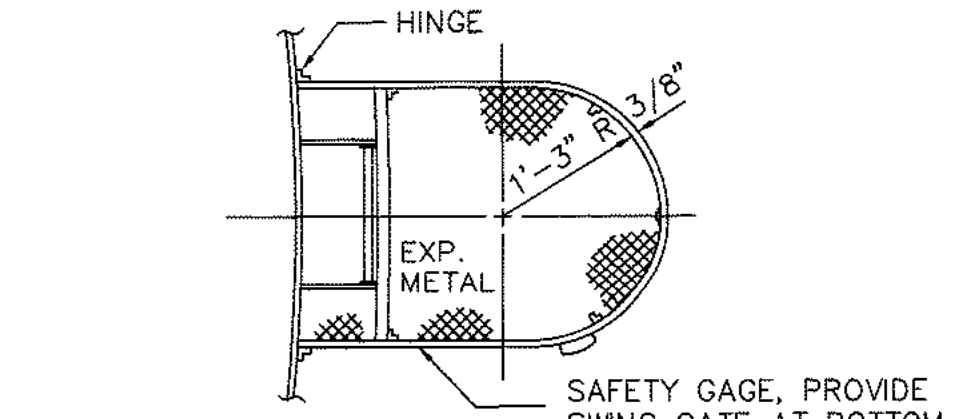
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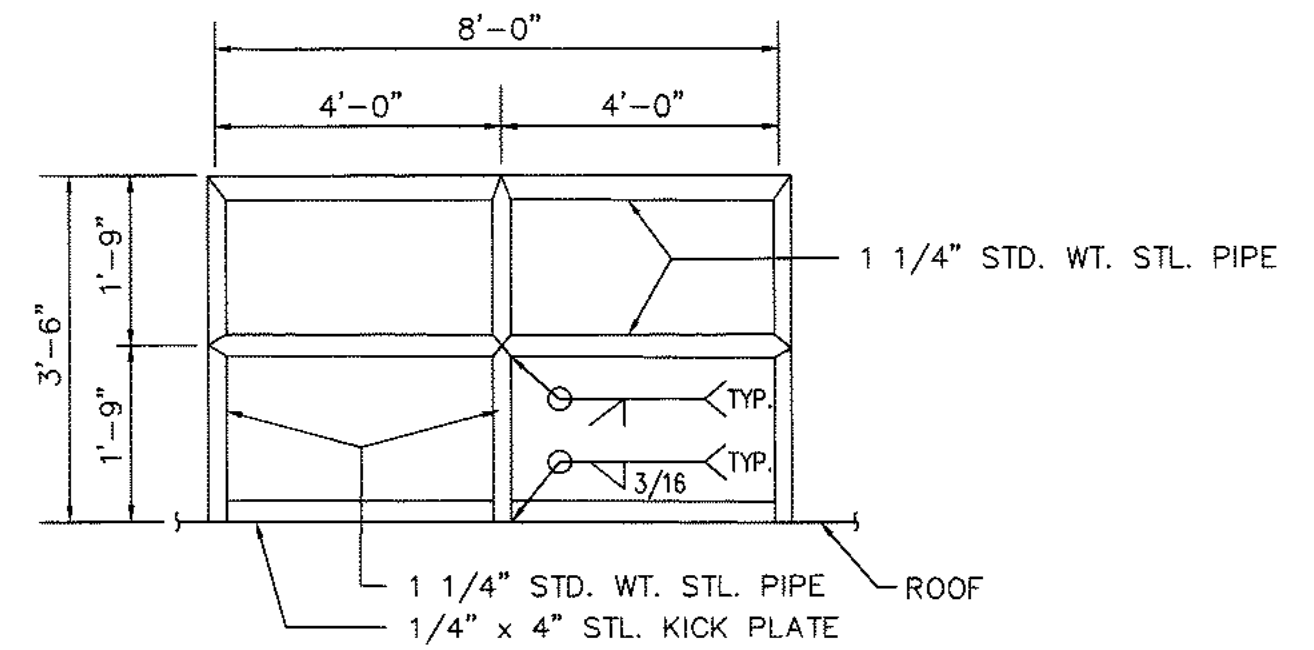
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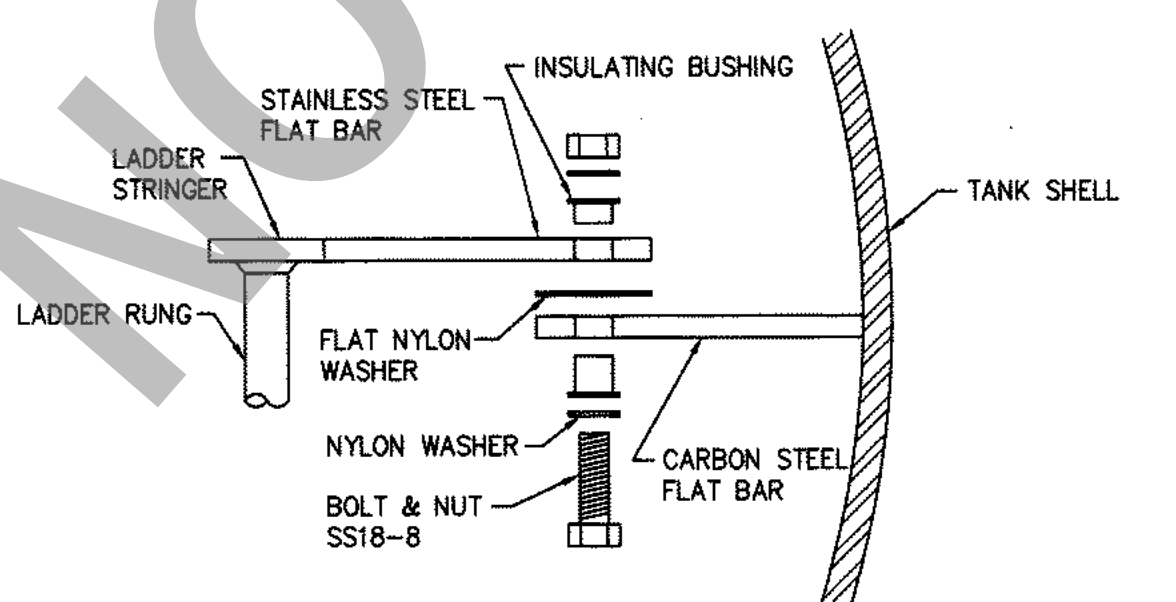
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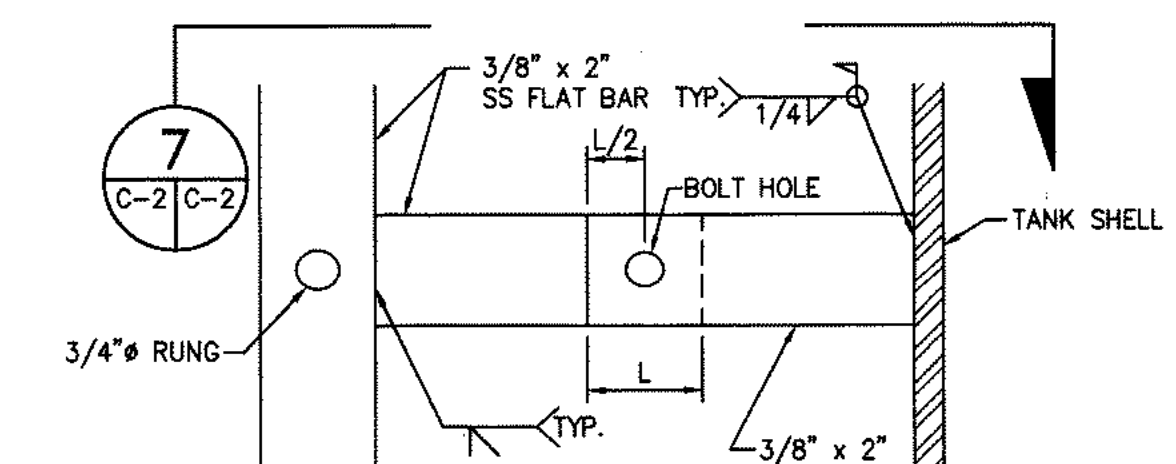
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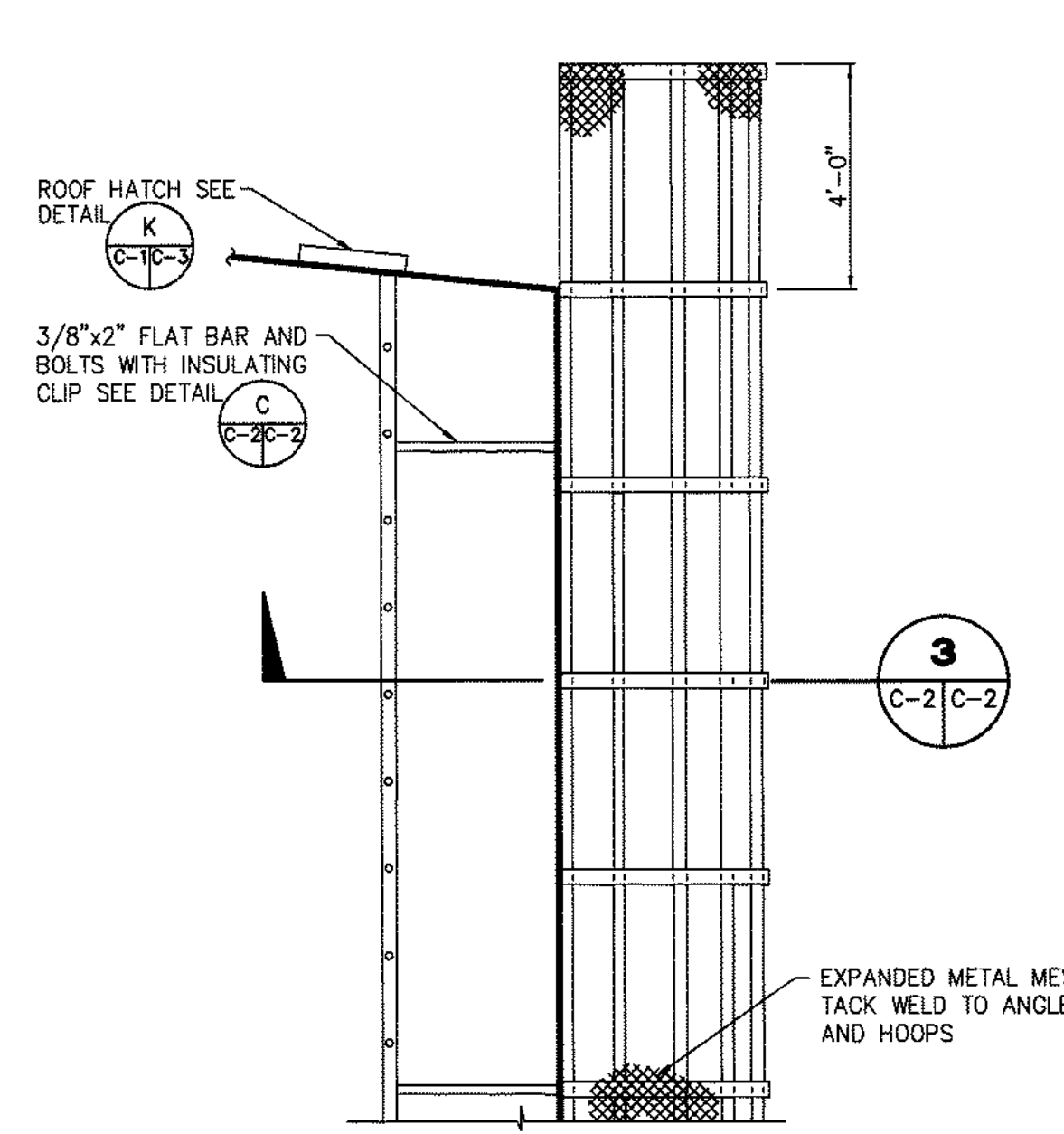
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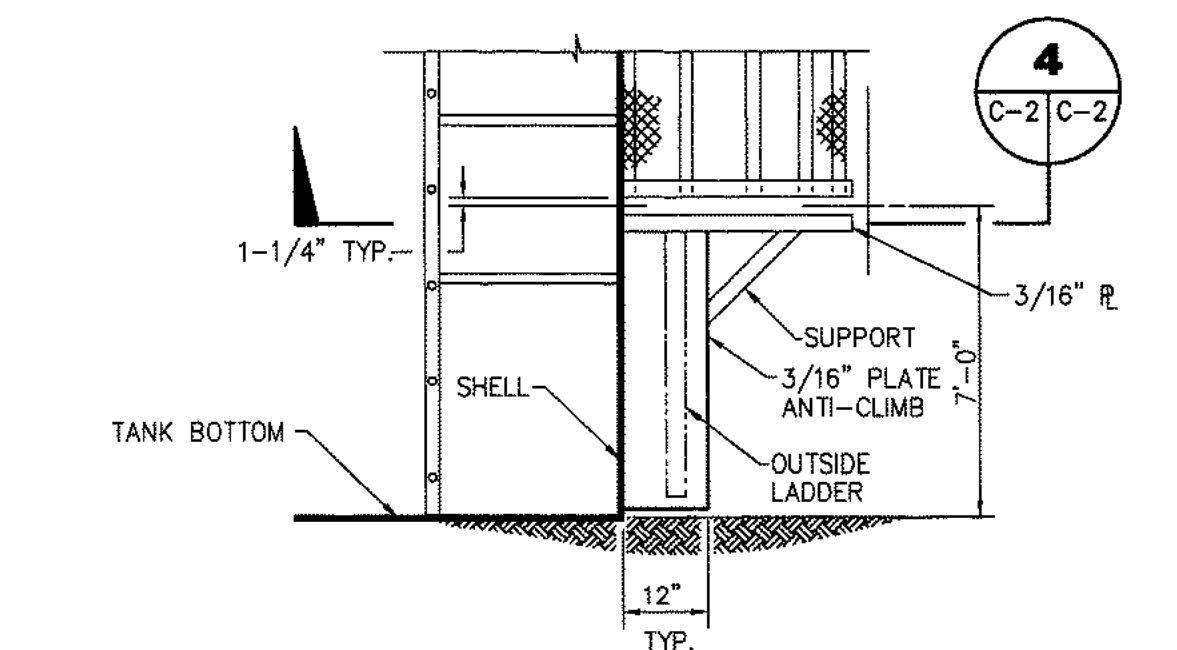
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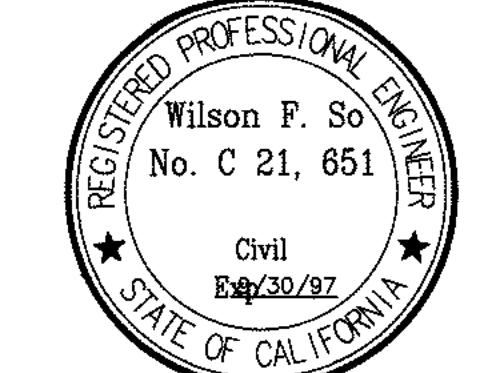
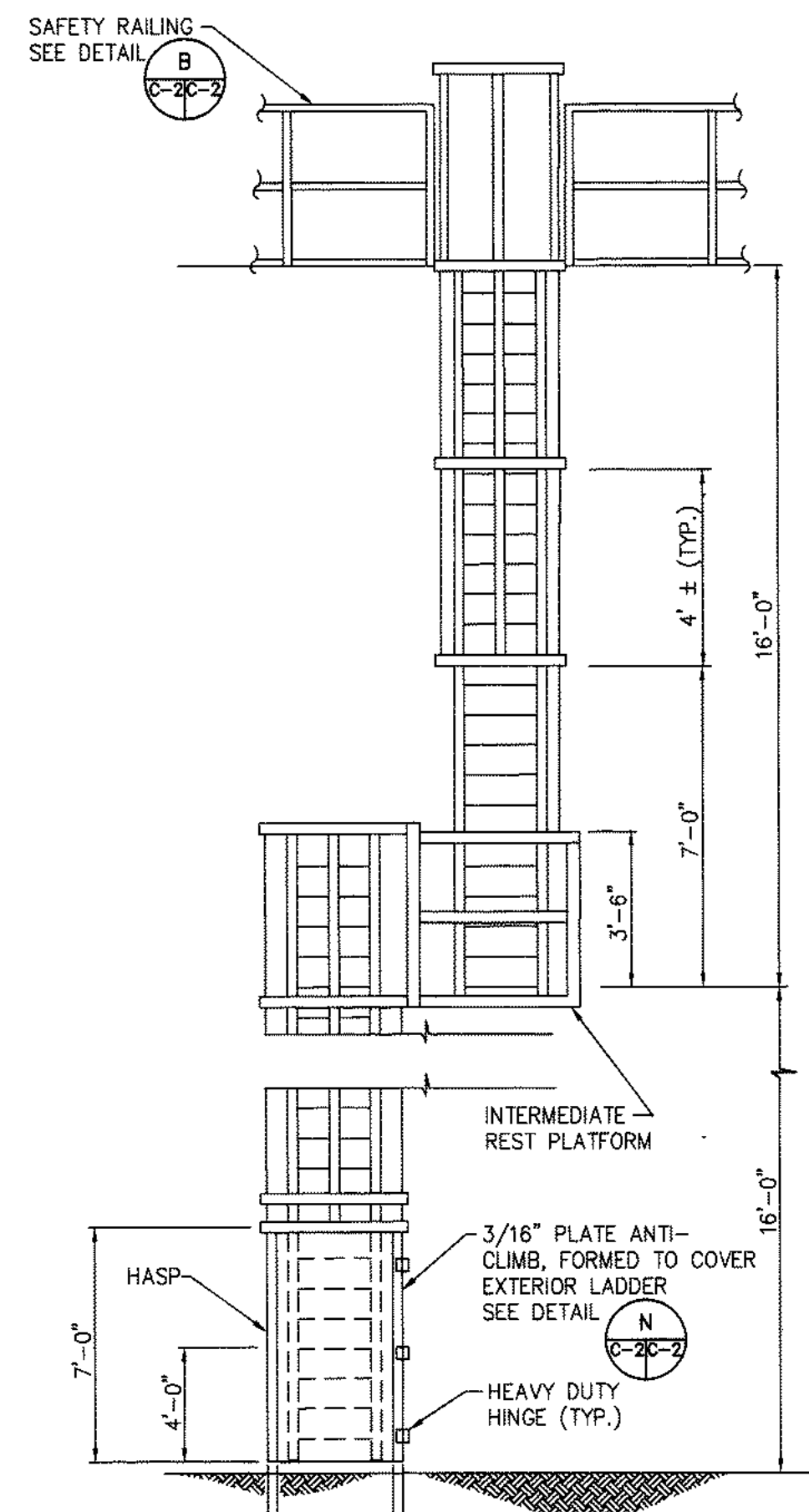
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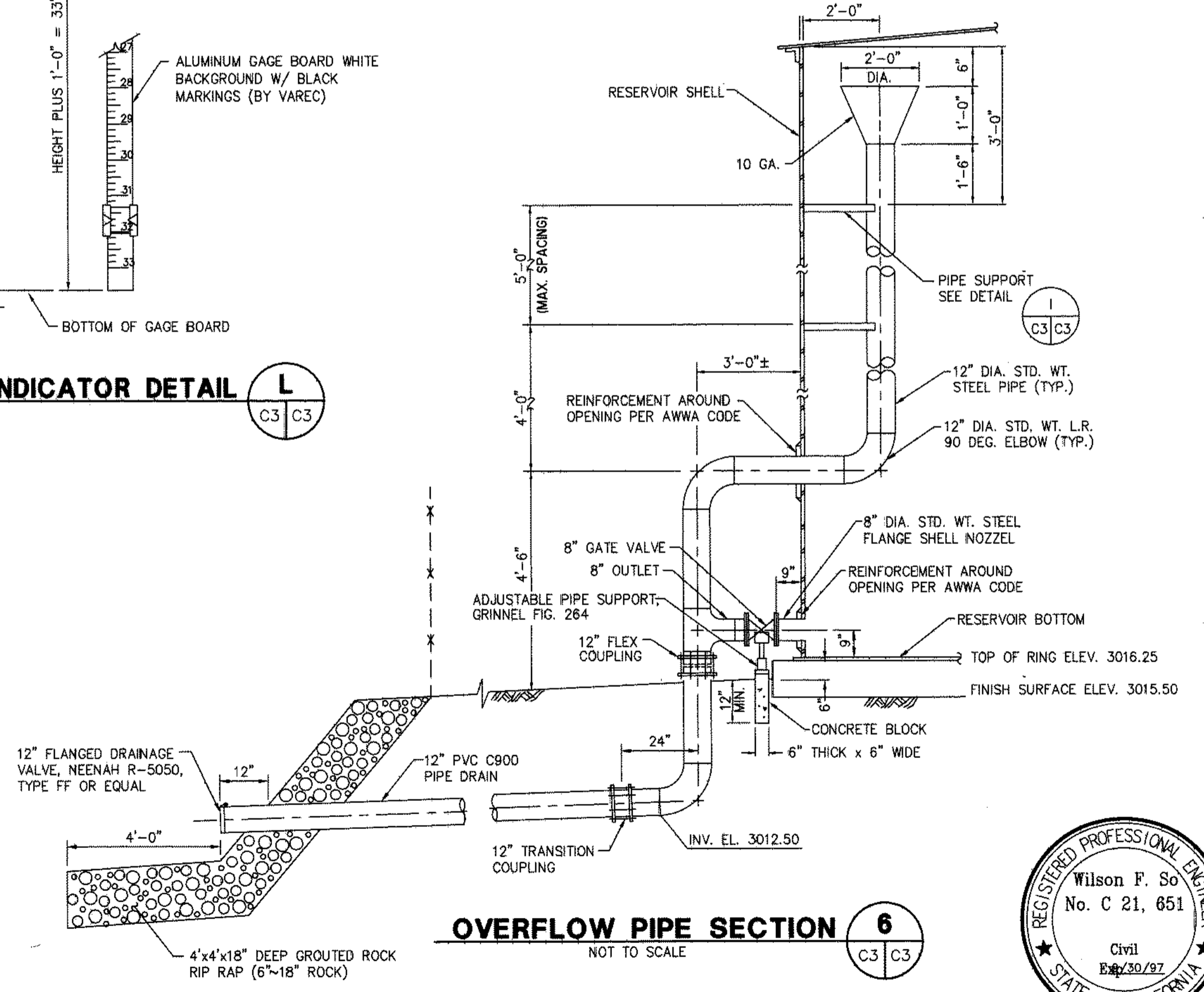
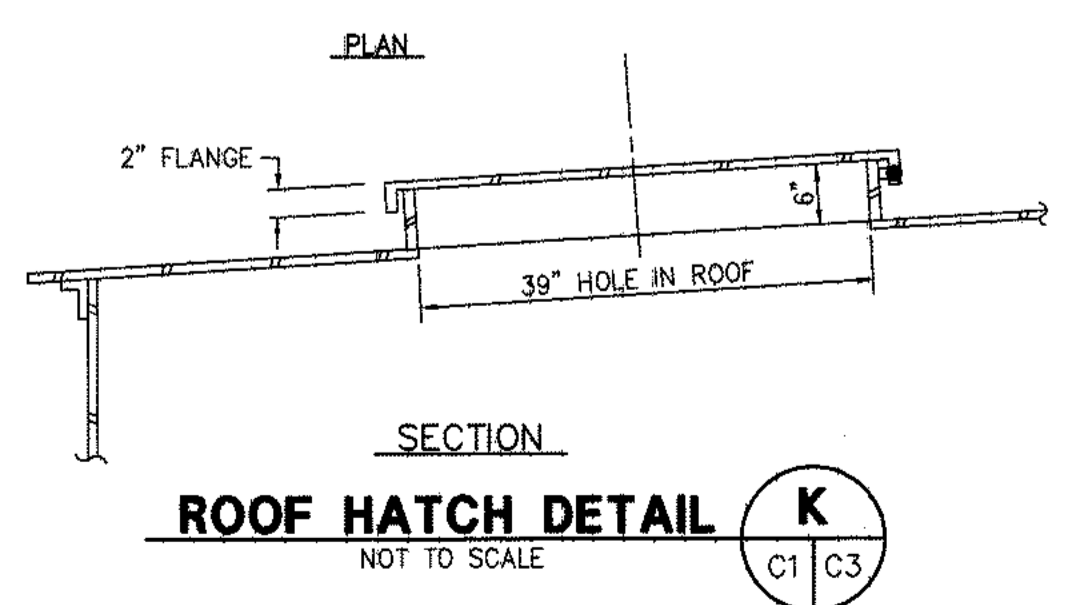
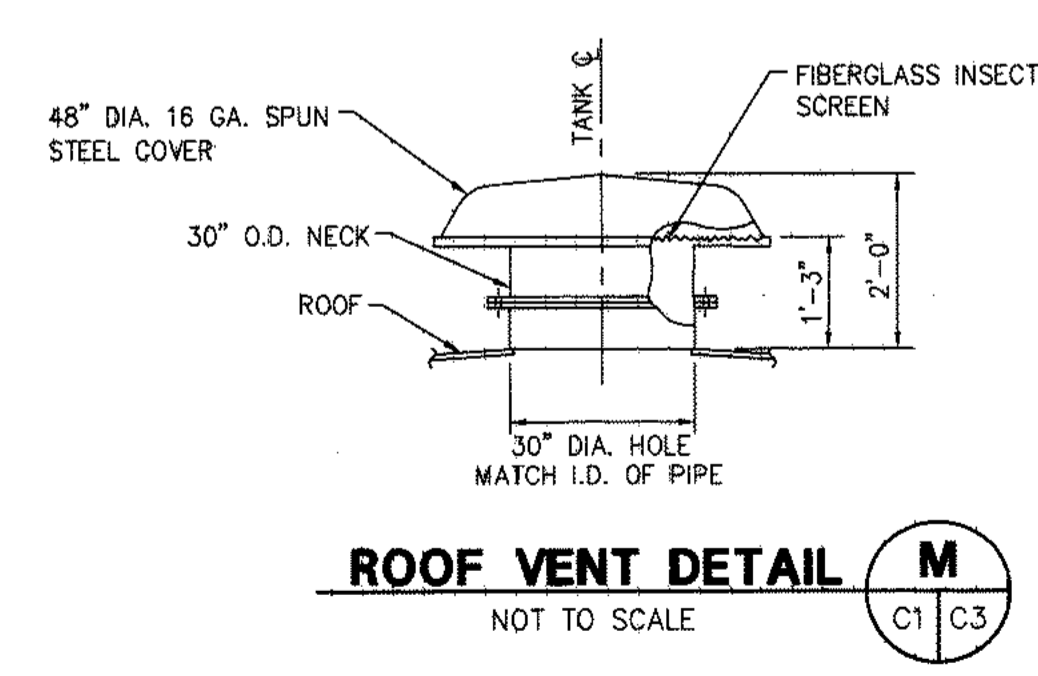
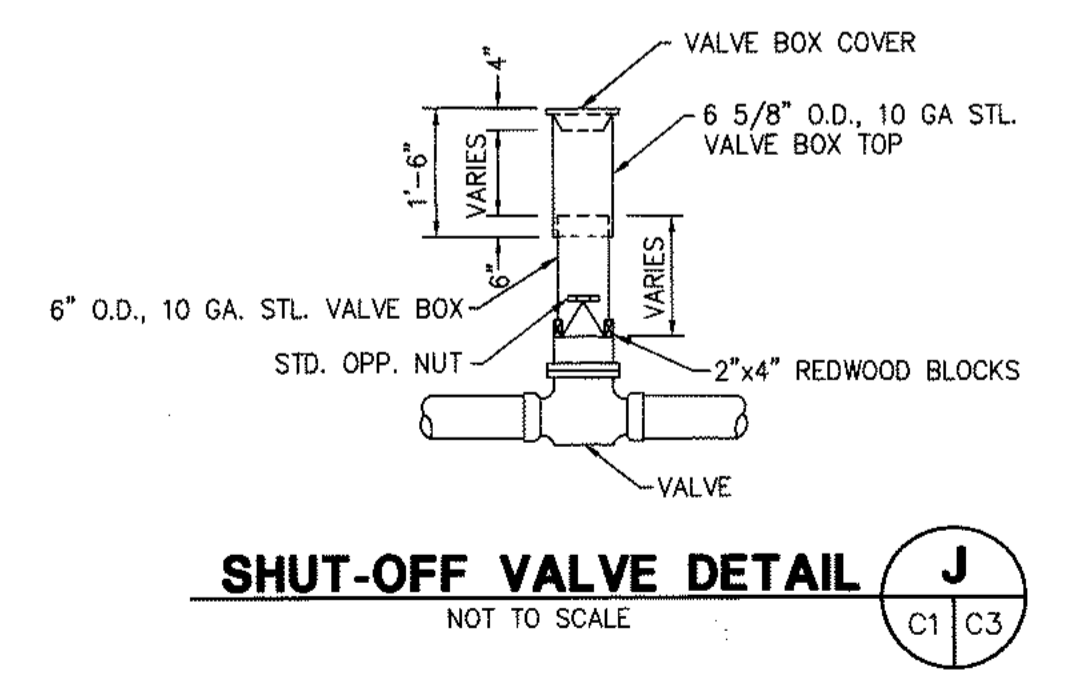
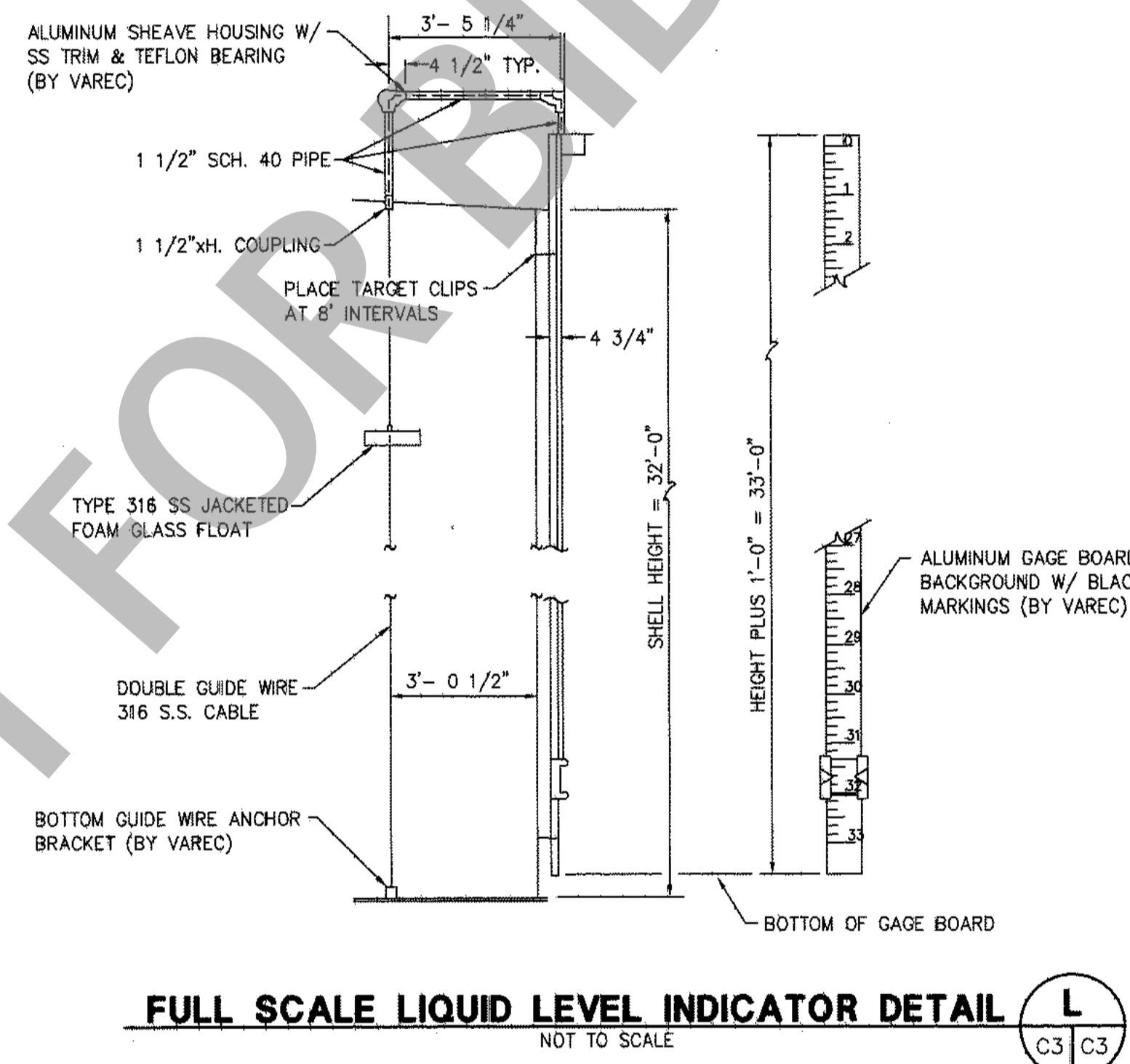
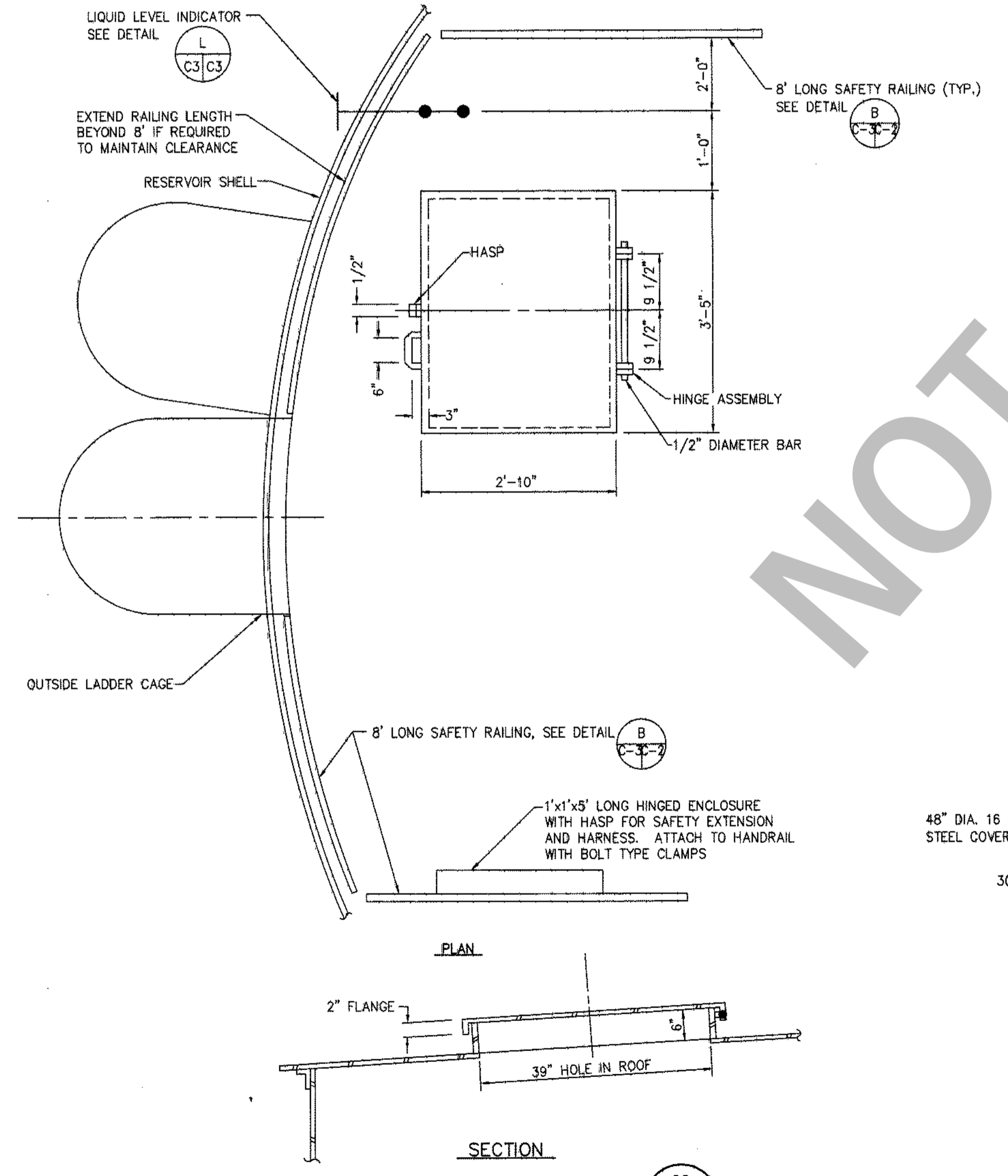
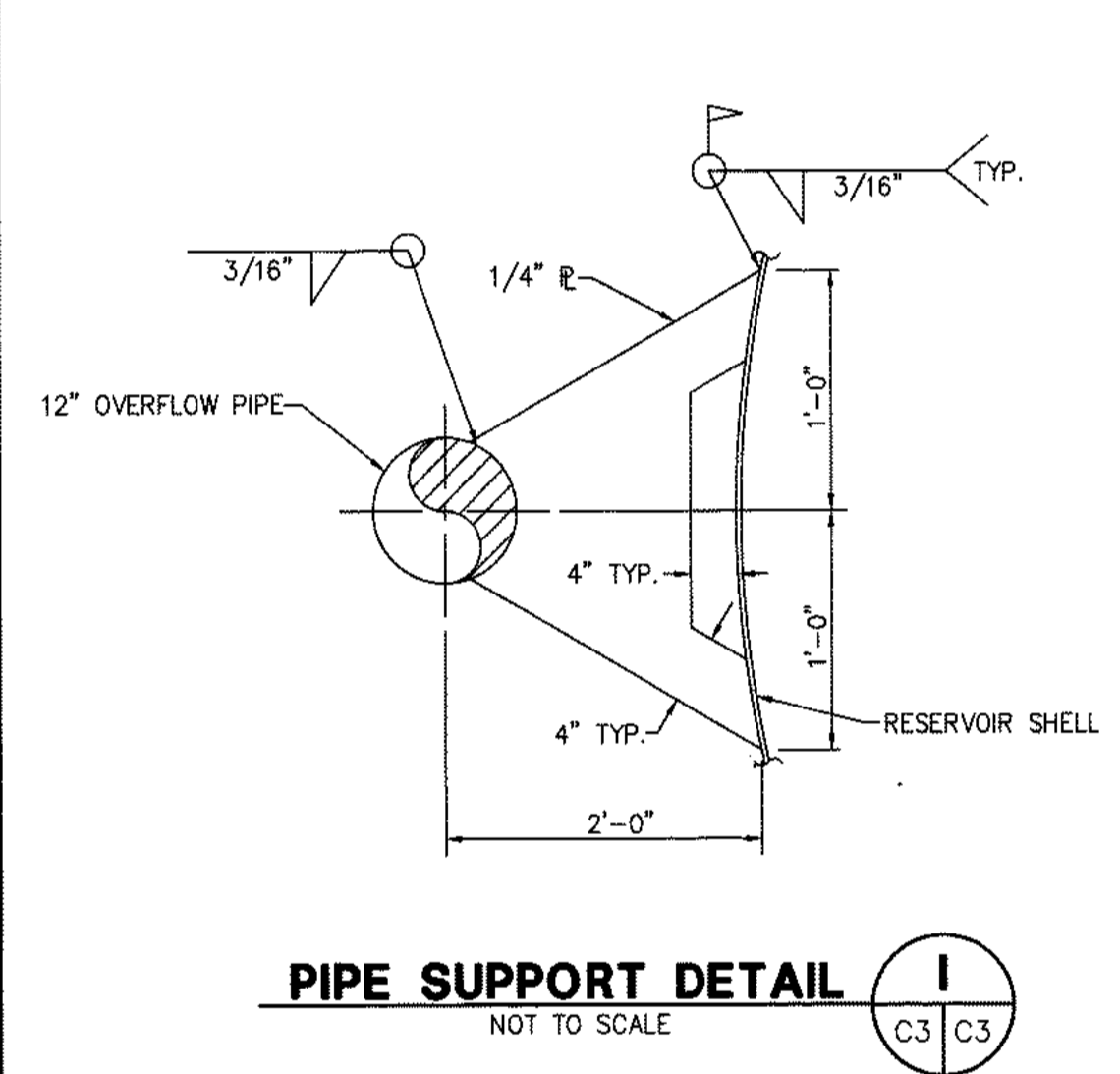
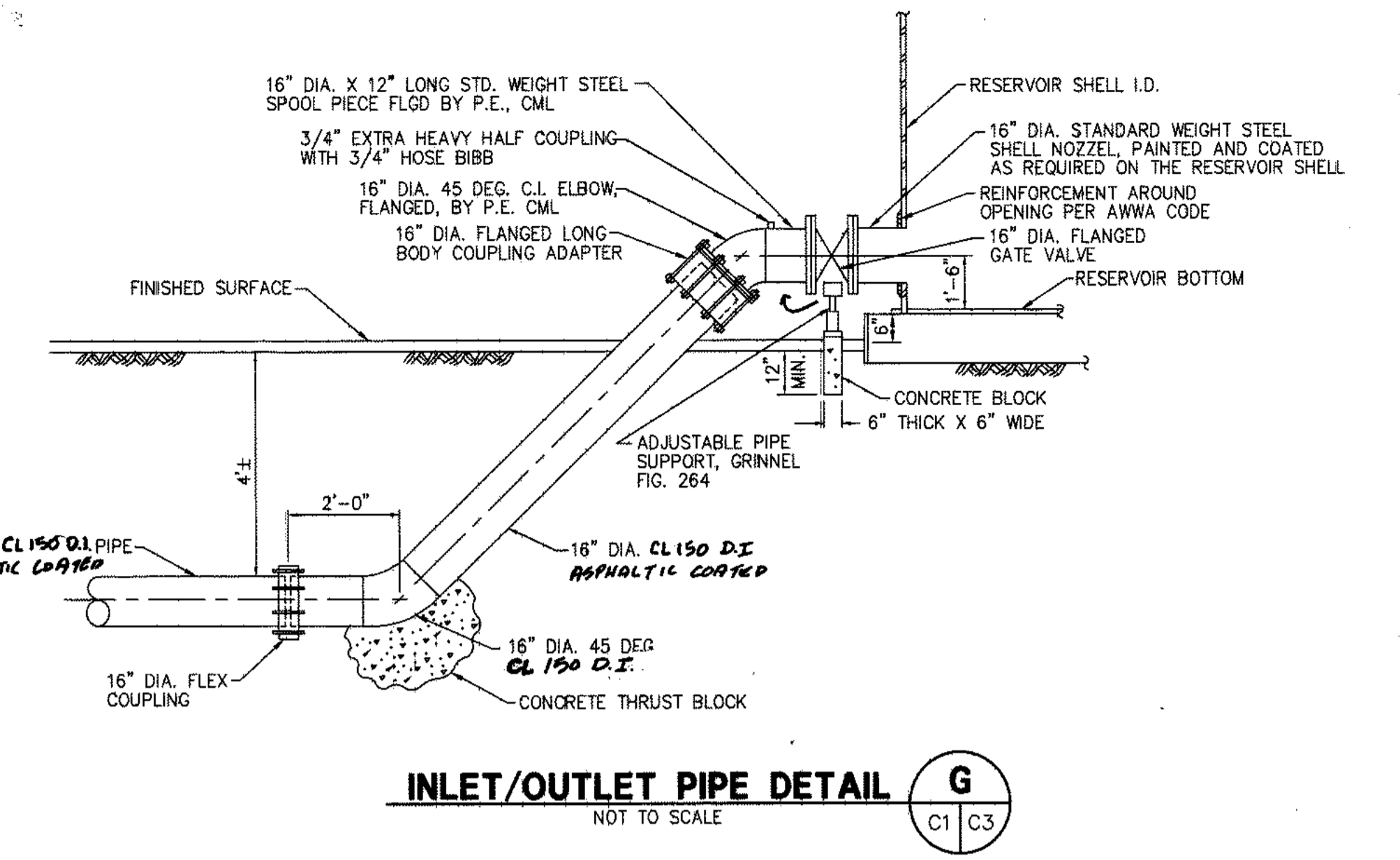
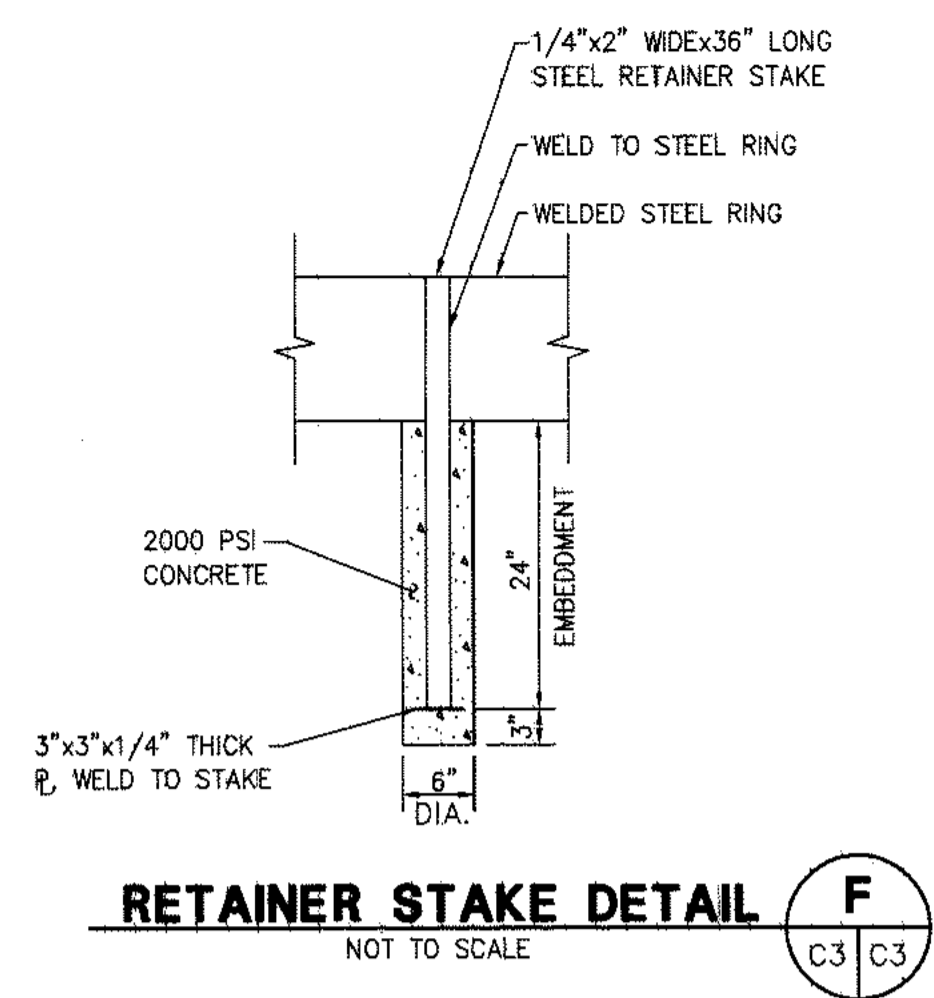
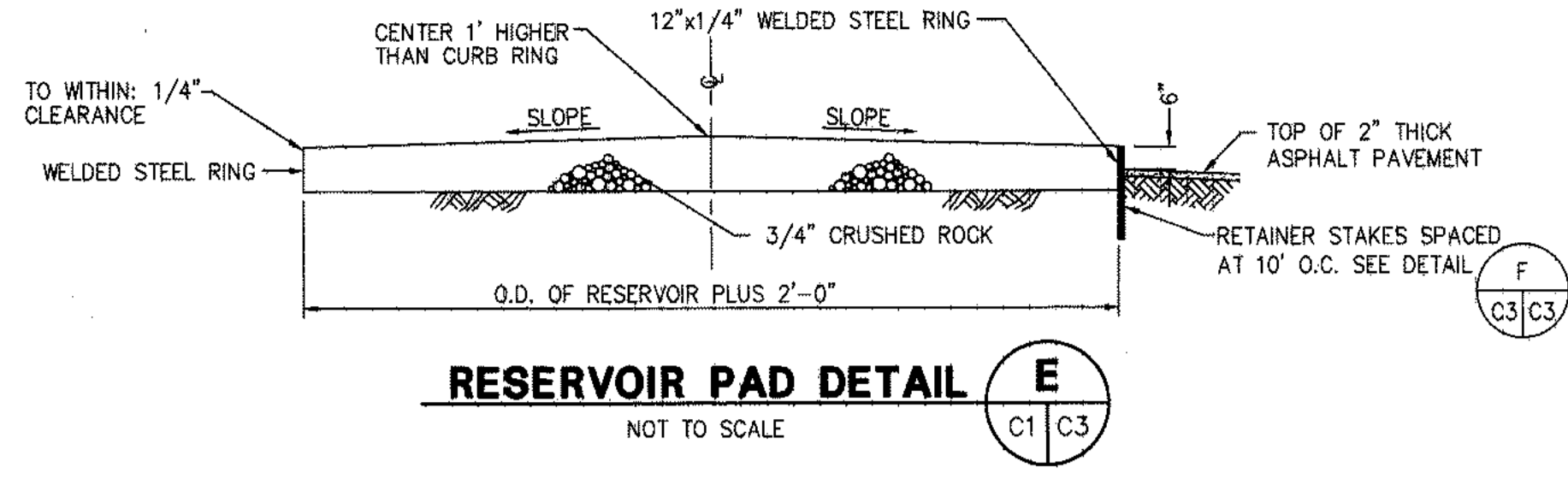
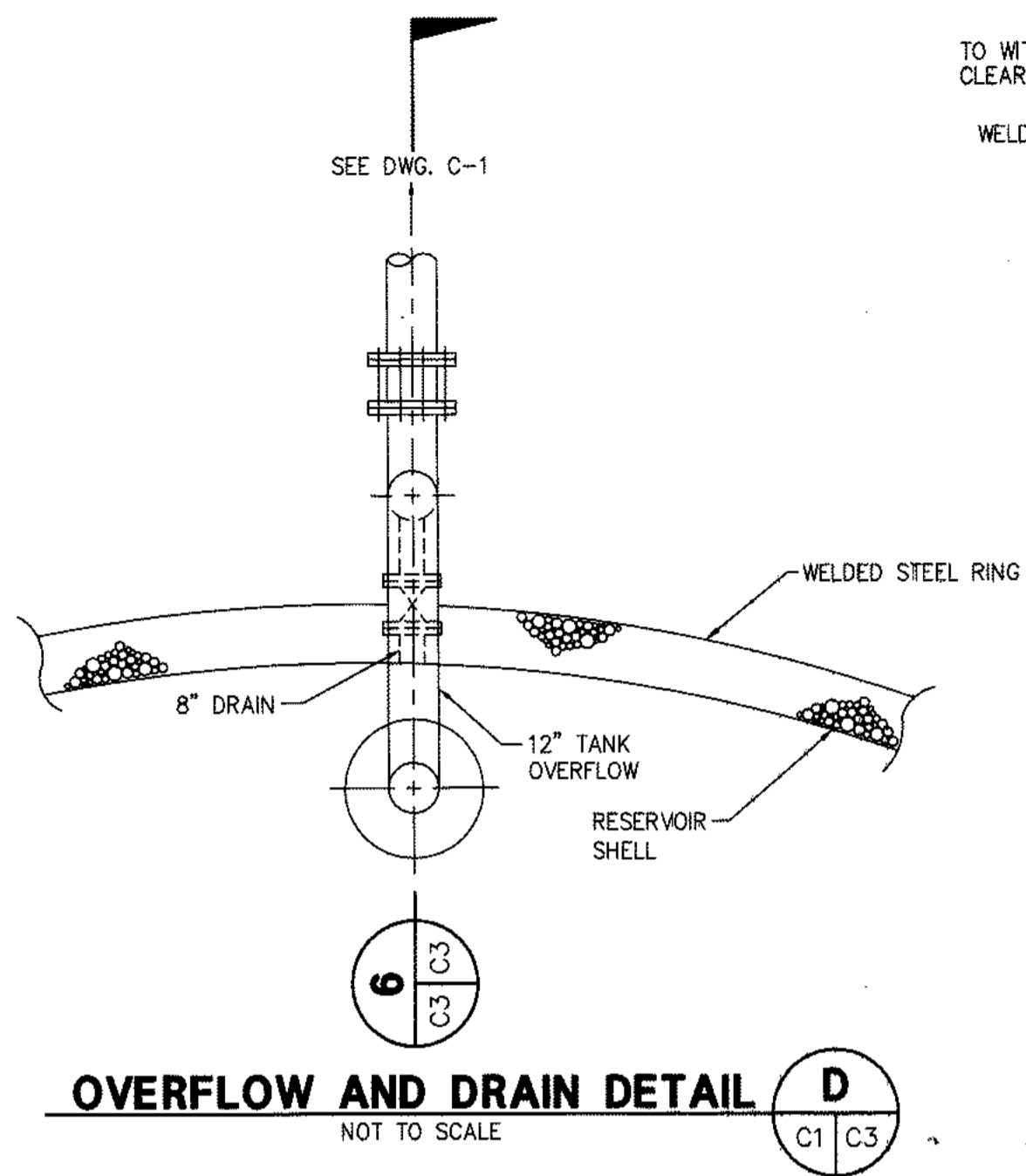
**3**  
C-2 | C-2



**TANK LADDER DETAIL A**  
NOT TO SCALE



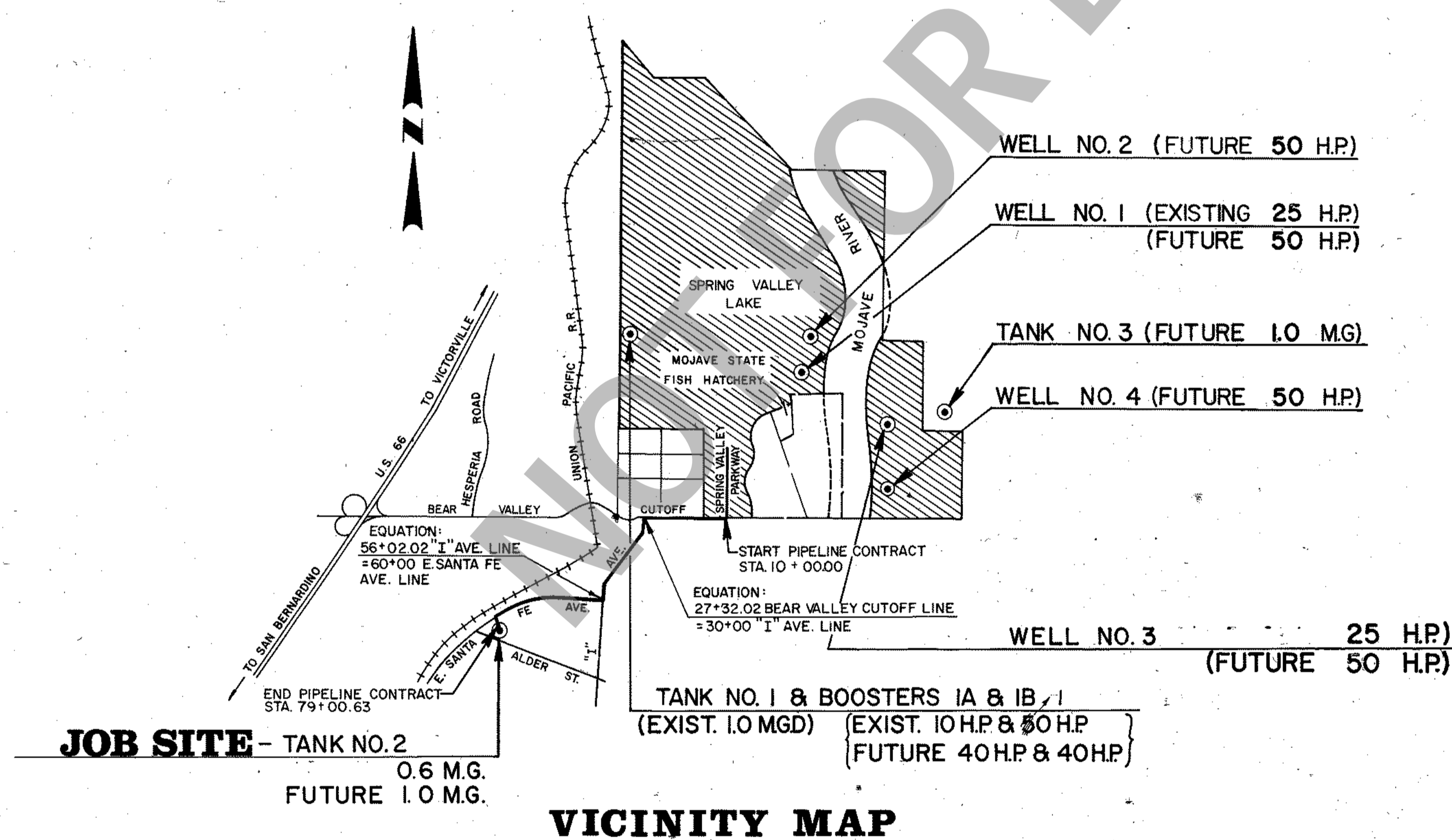
DESIGNED BY: <b>T.E.R.</b>	PROJECT ENGINEER: <b>Wilson F. So</b>	PREPARED BY: <b>Wilson F. So</b>	APPROVED BY: <b>Wilson F. So</b>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64	SHEET 4
DRAWN BY: <b>G.C./J.C.</b>	SUBMITTED BY DISTRICT ENGINEER: <b>Wilson F. So</b>	DATE: <b>11-20-95</b>	SPECIAL DISTRICTS: <b>Wilson F. So</b>	DATE: <b>11-20-95</b>	COUNTY OF SAN BERNARDINO	OF 5
CHECKED BY: <b>WP</b>	DATE: <b>11-14-95</b>	DATE: <b>11-17-95</b>	COUNTY SERVICE AREA 64	DATE: <b>11-17-95</b>	SPECIAL DISTRICTS DEPARTMENT	DRAWING NO. <b>C-2</b>
REV.	REVISION	DESCRIPTION	BY	DATE	WORK ORDER NO. 101.0520	



REV.	REVISION	DESCRIPTION	BY	DATE	DESIGNED BY: <u>T.E.R.</u>	PROJECT ENGINEER: <u>G.Martin</u>	PREPARED BY: <u>G.Martin</u>	APPROVED BY: <u>Wilson F. So</u>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64 COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS DEPARTMENT	SHEET 5 OF 5
					DRAWN BY: <u>G.C./J.C.</u>	R.C.E. No. <u>11-20-95</u>	DATE	DATE	DATE		
					CHECKED BY: <u>mp</u>	SUBMITTED BY DISTRICT ENGINEER: <u>Wilson F. So</u>	WILSON F. SO	COUNTY SERVICE AREA 64	WORK ORDER NO. 101.0520	CSA 64 RESERVOIR 2B MISCELLANEOUS DETAILS	DRAWING NO. C-3



# SPRING VALLEY LAKE WATERWORKS FACILITIES TANK NO. 2 AND OFF-SITE TRANSMISSION PIPELINE



**GENERAL NOTES**

1. All trenches shall be backfilled and compacted as per specifications and the San Bernardino County Road Department Requirements.
2. Thrust blocks shall be installed at all changes of direction against undisturbed soil as per County Service Area No. 64 standard drawing No. W-102.
3. Air Vacuum release combination valves shall be installed at all water main high points. All shall be one (1) inch size.
4. All existing facilities shall be located and verified in the field prior to commencement of construction. The owner or the County shall not be held responsible for removal and replacement of said existing facilities, shrubbery, landscaping, etc., necessary for installation of the facilities under construction.
5. All water lines shall be located as shown on the plans to the grades indicated with a 36" minimum cover.
6. Static pressure is indicated at all blow-offs.
7. The water mains shall be asbestos cement or steel pipe, or combination thereof, as specified in the technical specifications and stated in the proposal.

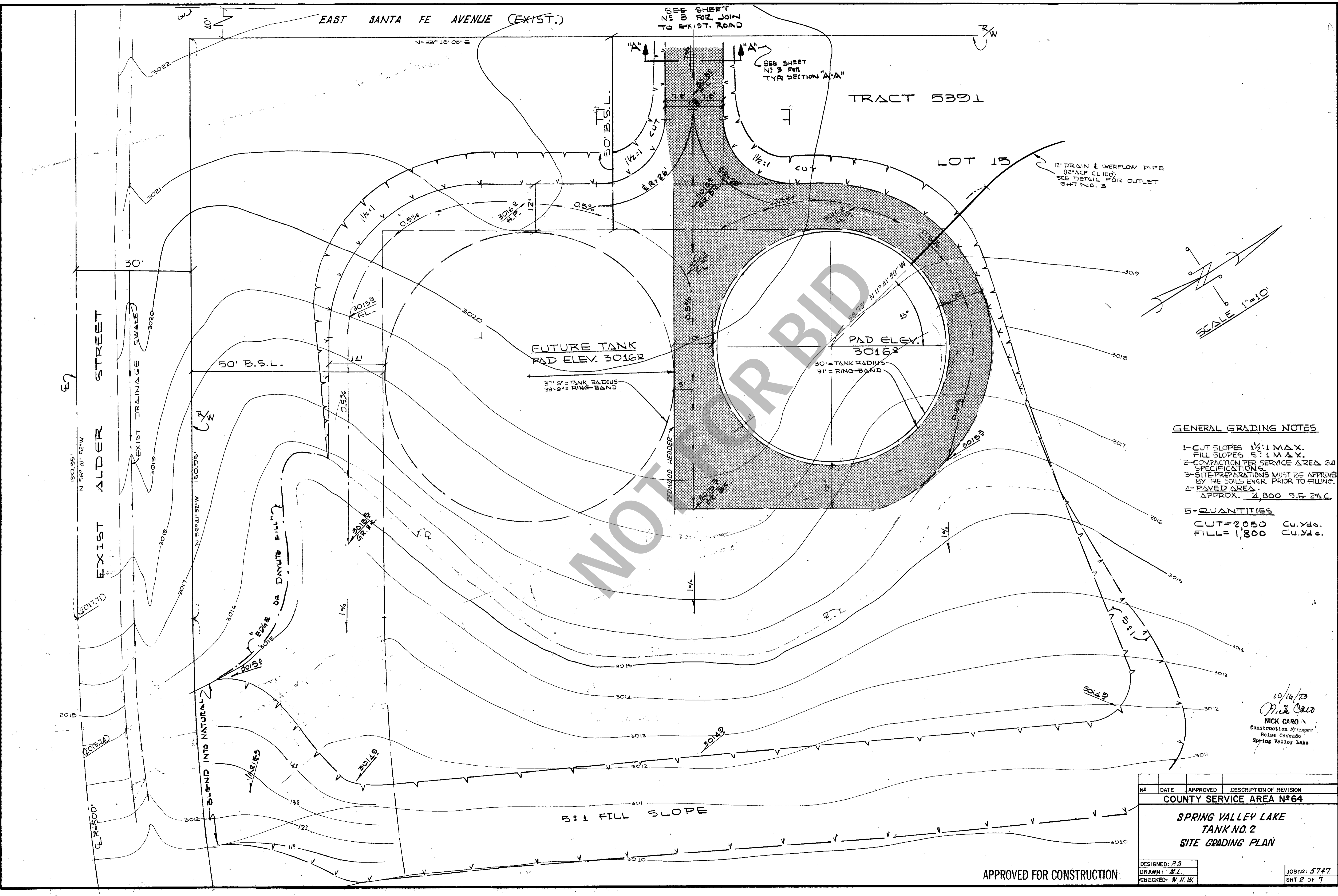
10/16/73  
*Nick Caro*  
**NICK CARO**  
Construction Manager  
Boise Cascade  
Spring Valley Lake

**APPROVED FOR CONSTRUCTION**

<b>COUNTY SERVICE AREA No. 64</b>			
COUNTY APPROVAL NAME: <i>William A. Potts</i> Date: 10/29/73 TITLE: DIRECTOR OF BUILDING SERVICES		DISTRICT ENGINEER APPROVAL NAME: <i>Donna Albert</i> Date: 10/29/73 TITLE: DISTRICT ENGINEER	
<b>McINTIRE &amp; QUIROS, INC.</b> 670 MONTEREY PASS ROAD MONTEREY PARK, CALIF. 91764 283-7661			
<b>SPRING VALLEY LAKE TANK No. 2 &amp; OFF-SITE TRANSMISSION PIPELINE VICINITY MAP</b>			
DESIGN	P.S.	BY	<i>William A. Potts</i>
DRAWN	B.L.M.	C.E. NO.	14111
DATE	9-30-71	SHEET NO.	1
SCALE	NO SCALE	OF	7 SHEETS

**AS BUILT**

DATE \_\_\_\_\_  
BY \_\_\_\_\_



EAST SANTA FE AVENUE (EXIST.)

TRACT 5391

LOT 13

FUTURE TANK  
PAD ELEV. 3016.2

PAD ELEV. 3016.2  
30' TANK RADIUS  
3' RING-BAND

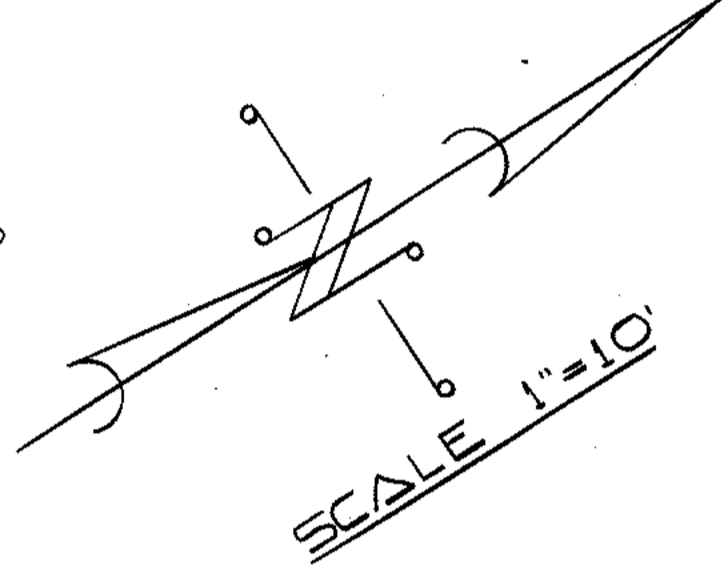
5:1 FILL SLOPE

12" DRAIN & OVERFLOW PIPE  
(12" ACP CL 100)  
SEE DETAIL FOR OUTLET  
SHT NO. 3

**GENERAL GRADING NOTES**

- 1- CUT SLOPES 1 1/2:1 MAX.  
FILL SLOPES 5:1 MAX.
- 2- COMPACTION PER SERVICE AREA 64 SPECIFICATIONS.
- 3- SITE PREPARATIONS MUST BE APPROVED BY THE SOILS ENGR. PRIOR TO FILLING.
- 4- PAVED AREA APPROX. 4,800 S.F. 2" AC.

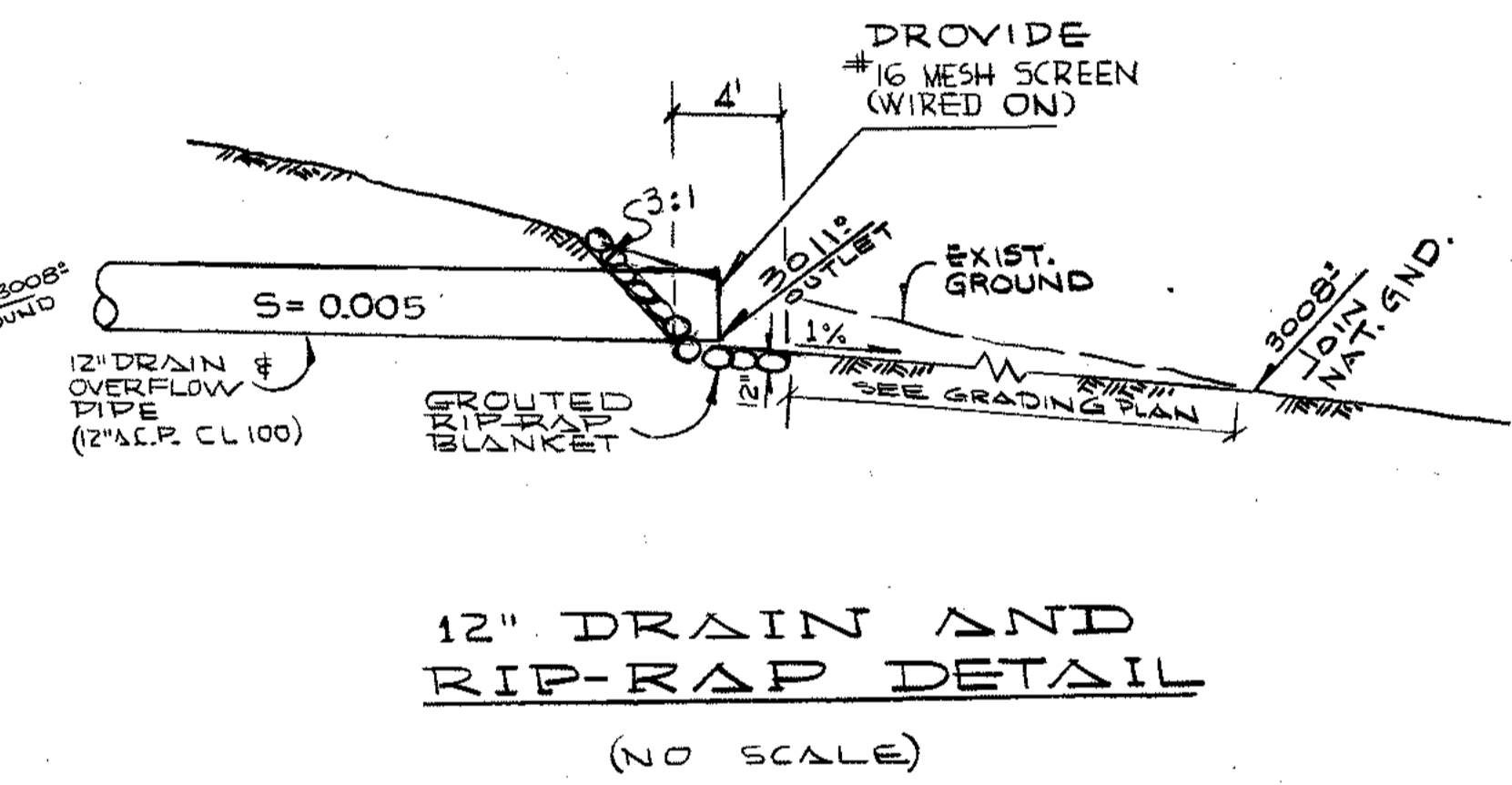
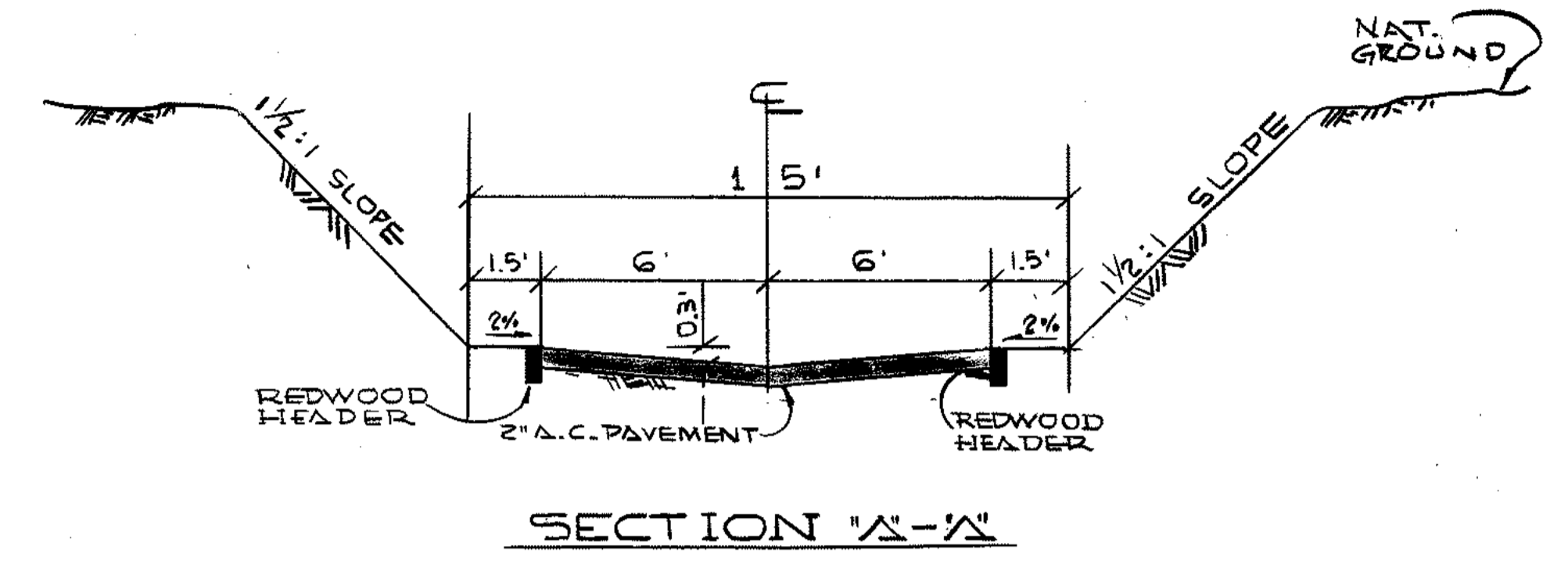
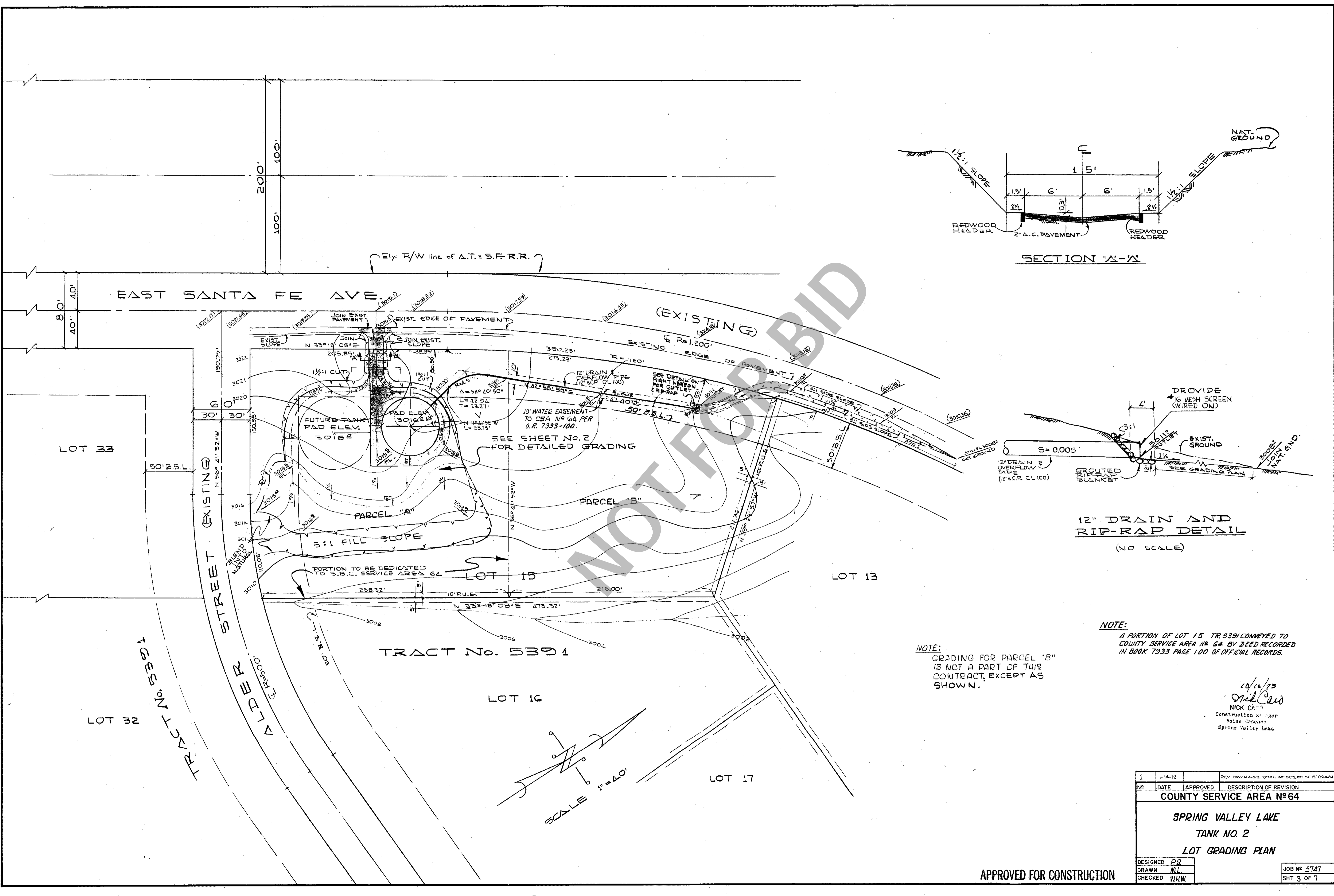
**5- QUANTITIES**  
CUT = 2,050 CU. YDS.  
FILL = 1,800 CU. YDS.



10/16/73  
Nick Caro  
NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

NO.	DATE	APPROVED	DESCRIPTION OF REVISION
COUNTY SERVICE AREA NO 64			
<b>SPRING VALLEY LAKE TANK NO. 2 SITE GRADING PLAN</b>			
DESIGNED:	P.B.		
DRAWN:	M.L.		
CHECKED:	W.H.W.		
			JOB NO: 5747
			SHT 2 OF 7

APPROVED FOR CONSTRUCTION



NOTE:  
 GRADING FOR PARCEL "B"  
 IS NOT A PART OF THIS  
 CONTRACT, EXCEPT AS  
 SHOWN.

NOTE:  
 A PORTION OF LOT 15 TR. 5391 CONVEYED TO  
 COUNTY SERVICE AREA # 64 BY DEED RECORDED  
 IN BOOK 7933 PAGE 100 OF OFFICIAL RECORDS.

10/16/23  
*Nick Carr*  
 NICK CARR  
 Construction Manager  
 Boise, Idaho  
 Spring Valley Lake

SCALE 1"=40'

APPROVED FOR CONSTRUCTION

1	1-14-12	REV. DRAINAGE DITCH AT OUTLET OF 12" DRAIN	
NO.	DATE	APPROVED	DESCRIPTION OF REVISION
COUNTY SERVICE AREA #64			
SPRING VALLEY LAKE			
TANK NO. 2			
LOT GRADING PLAN			
DESIGNED	PS		
DRAWN	ML		
CHECKED	WHW		
			JOB # 5747
			SHT 3 OF 7

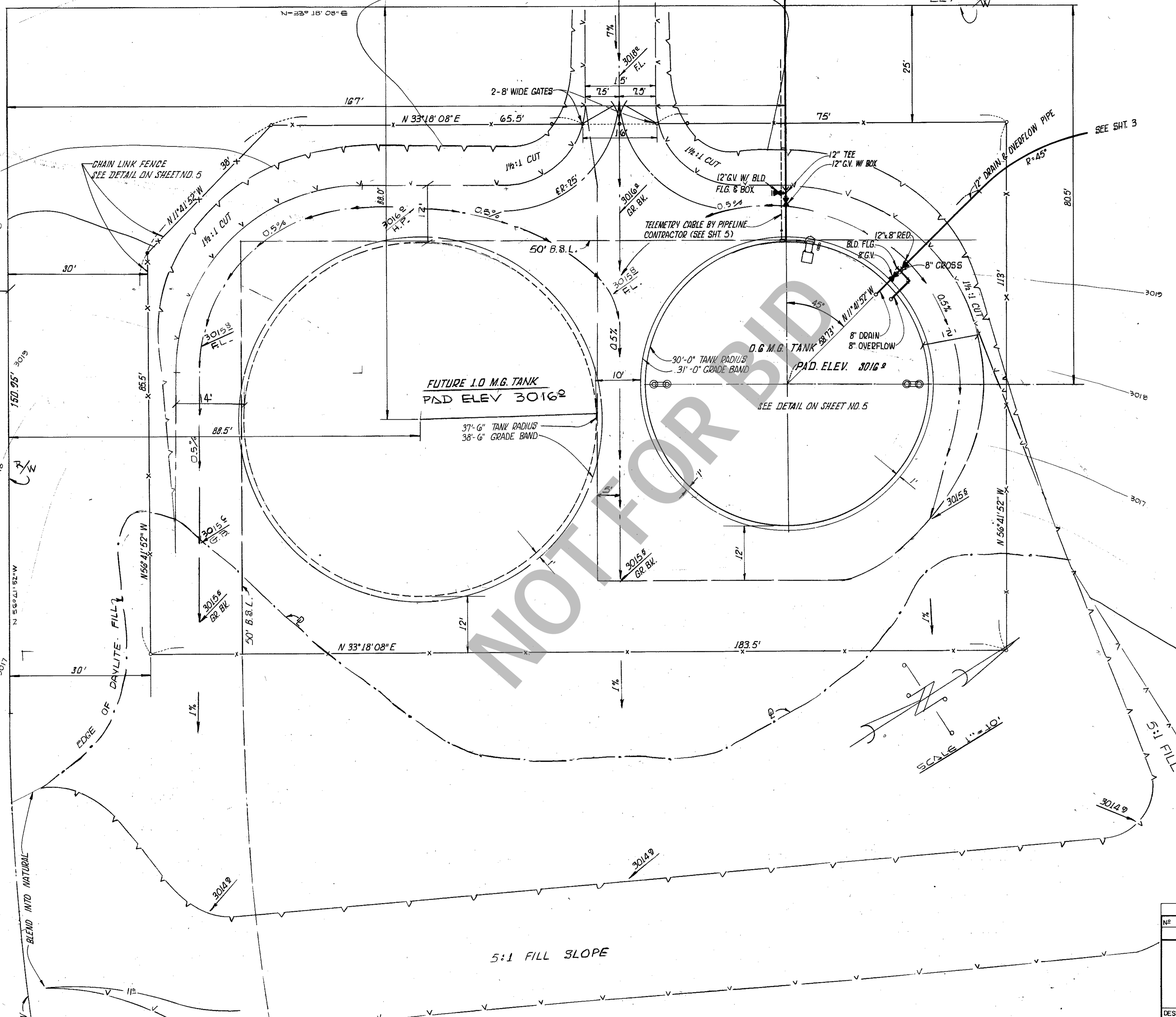
EAST SANTA FE AVENUE

SEE SHEET 3 FOR CONTINUATION TO EXIST ROAD

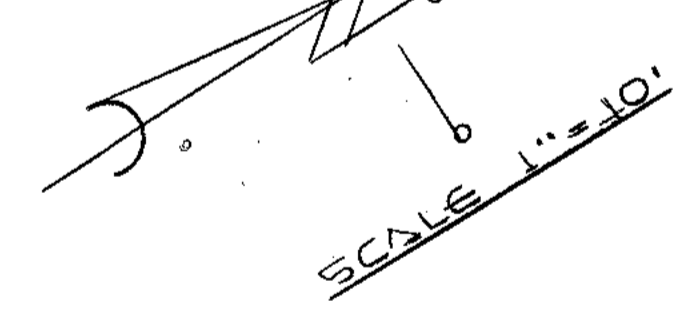
ELY R/W

SEE SHT. 3

EXIST ALDER STREET



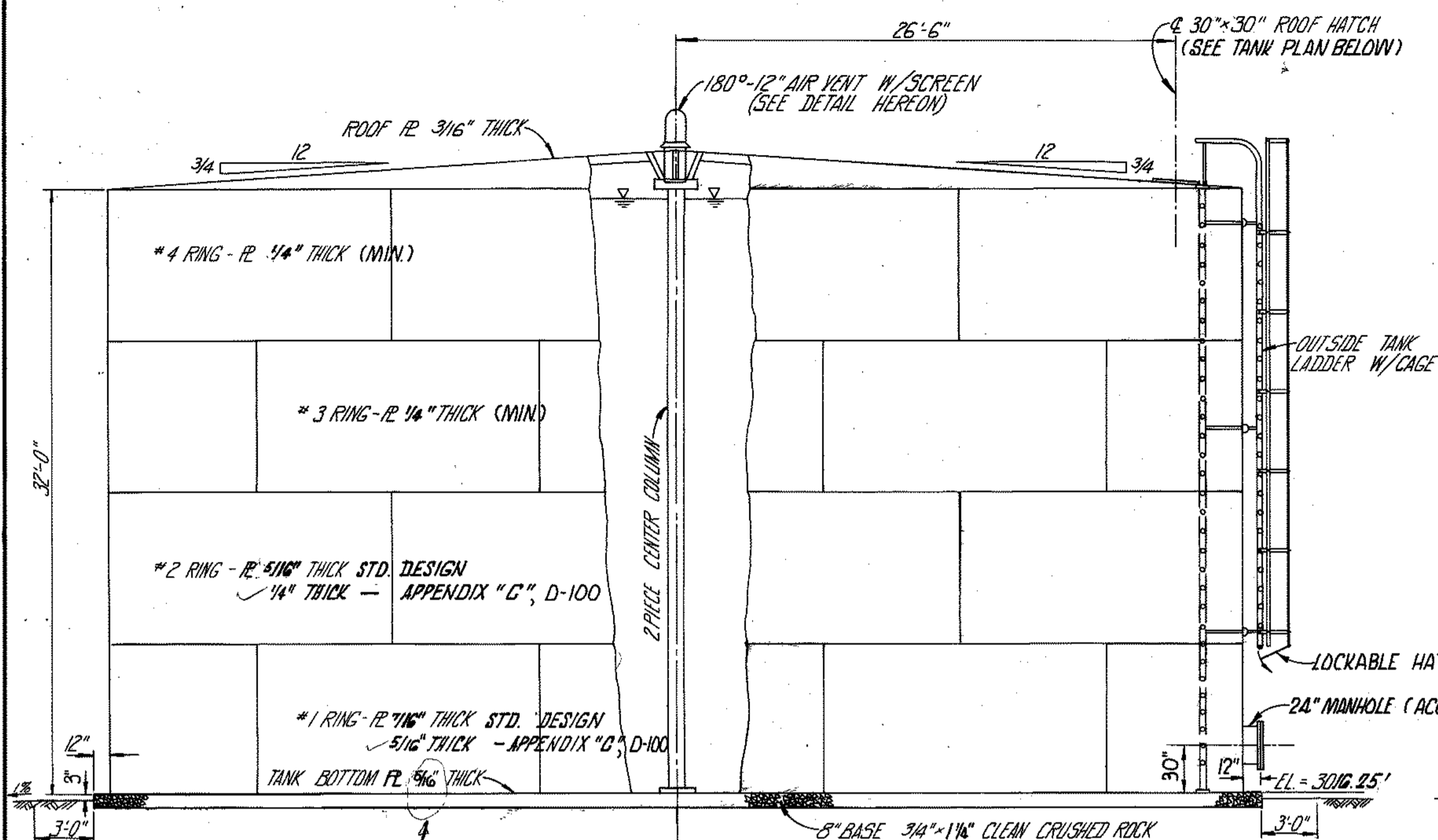
NOT FOR BIDDING



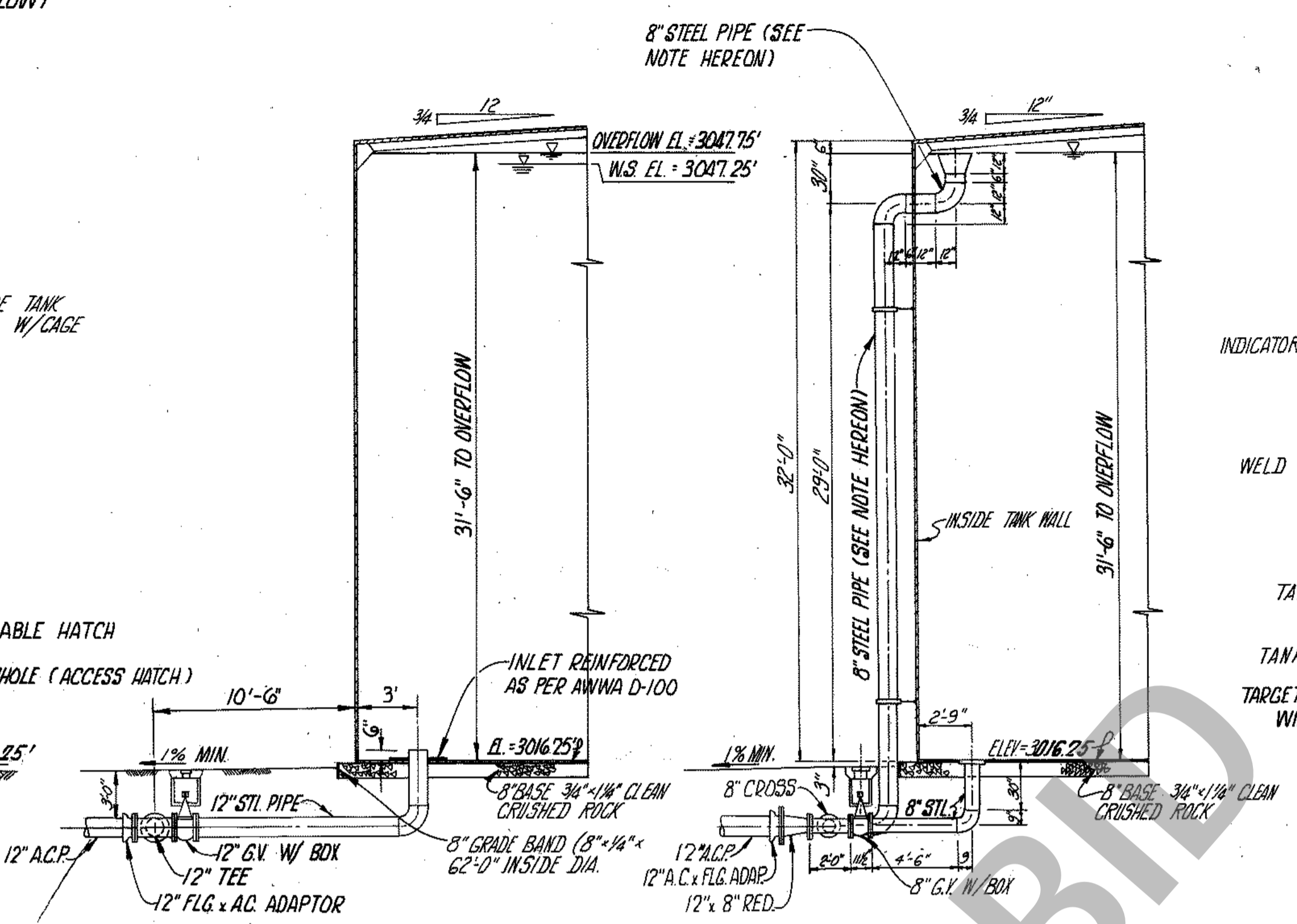
10/16/13  
Nick Caro  
NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

NO.	DATE	APPROVED	DESCRIPTION OF REVISION
COUNTY SERVICE AREA N <sup>o</sup> 64			
<b>SPRING VALLEY LAKE TANK NO. 2 SITE PLAN LOT 15 TRACT 5301</b>			
DESIGNED:	PS		
DRAWN:	L.E.N.		
CHECKED:	W.H.W.		
			JOB N <sup>o</sup> : 5747 SHT 4 OF 7

APPROVED FOR CONSTRUCTION

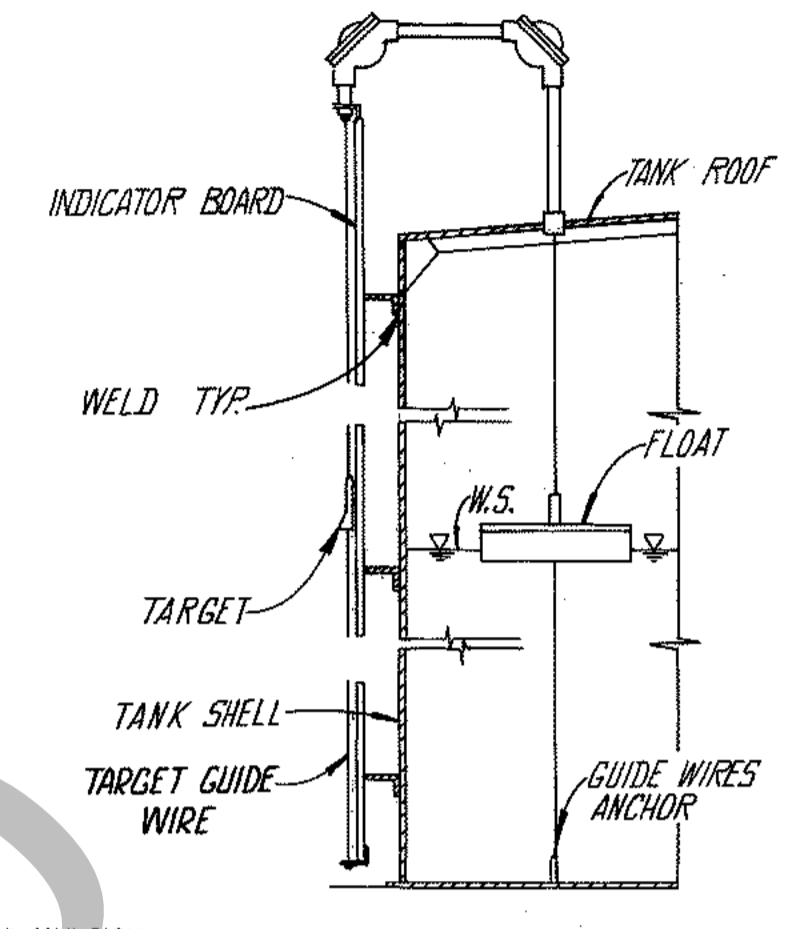


TANK ELEVATION  
SCALE: 1"=6'



SECTION A-A  
SCALE: 1"=6'

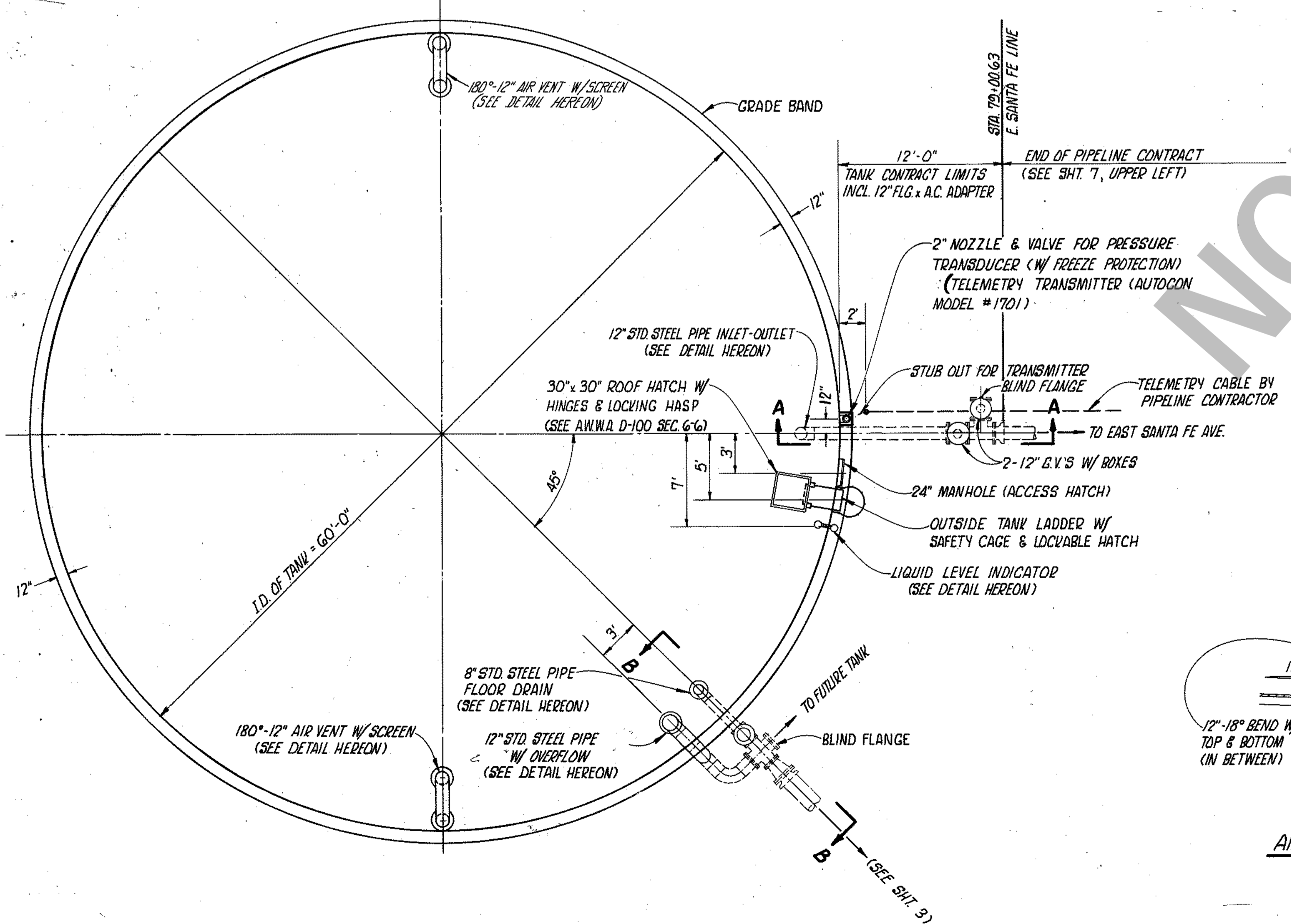
SECTION B-B  
SCALE: 1"=6'



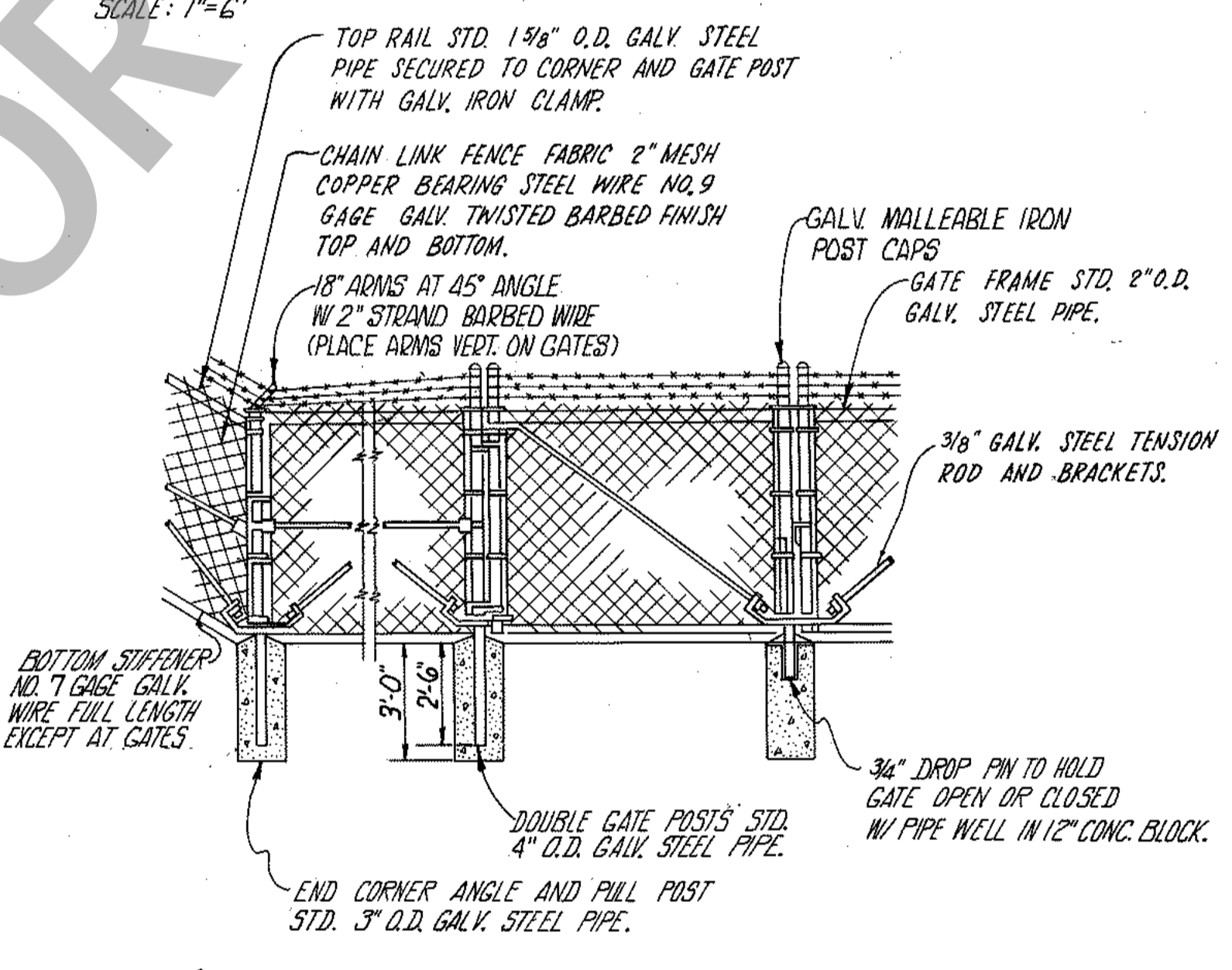
LIQUID LEVEL INDICATOR  
NO SCALE

TANK ACCESSORY LIST AWWA D-100		
QUANTITY	ITEM	SIZE
1	Inlet-Outlet pipe with gate valve, tee & flanges	12"
1	Roof Hatch as per plan	30" x 30"
2	Air Vent w/screen (AWWA D-100 Section 6.7) with 2-1/4" & 1-Nº 16 mesh screens	12"
1	Man Holes Std. (as per plan)	24"
1	Outside Ladder (AWWA D-100 Section 6.4) with cage & lockable hatch	15" x 12"
1	Overflow (as per plan) piping	8"
1	Drain Line (as per plan) piping	8"
1	Grade Band	1/4" x 8" x 195'
80yds.	Clean Rock Base (gradation)	3/4" x 1-1/4"
1	Inside Ladder (same as outside ladder) (Section 6.4)	15" x 12"
1	Drain Outlet Structure (as per plan)	
1	8" Gate Valve w/box (as per plan)	8"
1	2" Nozzle with screwed gate valve (Transducer)	2"
1	Telemetry Transmitter (Autocon Model No. 1701). Install only.	As Per Plan
320±	12" A.C.P. (Drain and overflow pipe)	12"
PIPING Steel pipe accessories to be 8 gauge (.188 inch thickness). See section 1 (one) of County Service Area Nº 64 technical specifications for coating and lining requirements.		

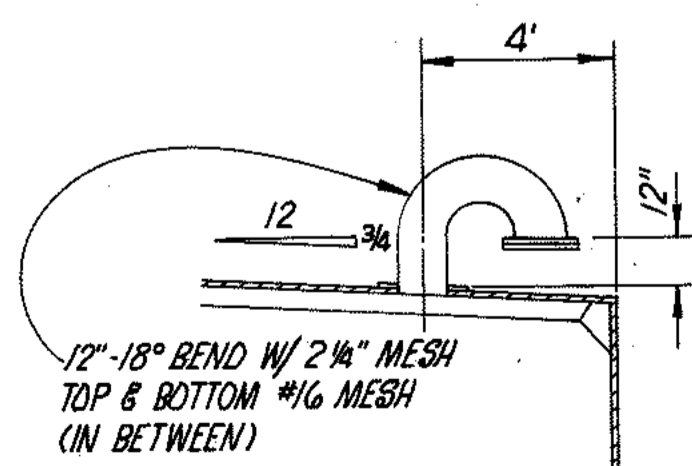
NOTE:  
ALL STEEL PIPING SHALL BE MORTAR LINED AND COATED AS FOLLOWS:  
A. PIPE INSTALLED WITHIN THE TANK SHALL BE COATED AS PER TANK INTERIOR COATING SPECIFICATIONS.  
B. PIPE INSTALLED ABOVE GROUND SHALL BE PAINTED ACCORDING TO TANK EXTERIOR PAINTING SPECIFICATIONS.  
C. PIPE INSTALLED BELOW GROUND SHALL BE CEMENT COATED AS PER SPECIFICATIONS.



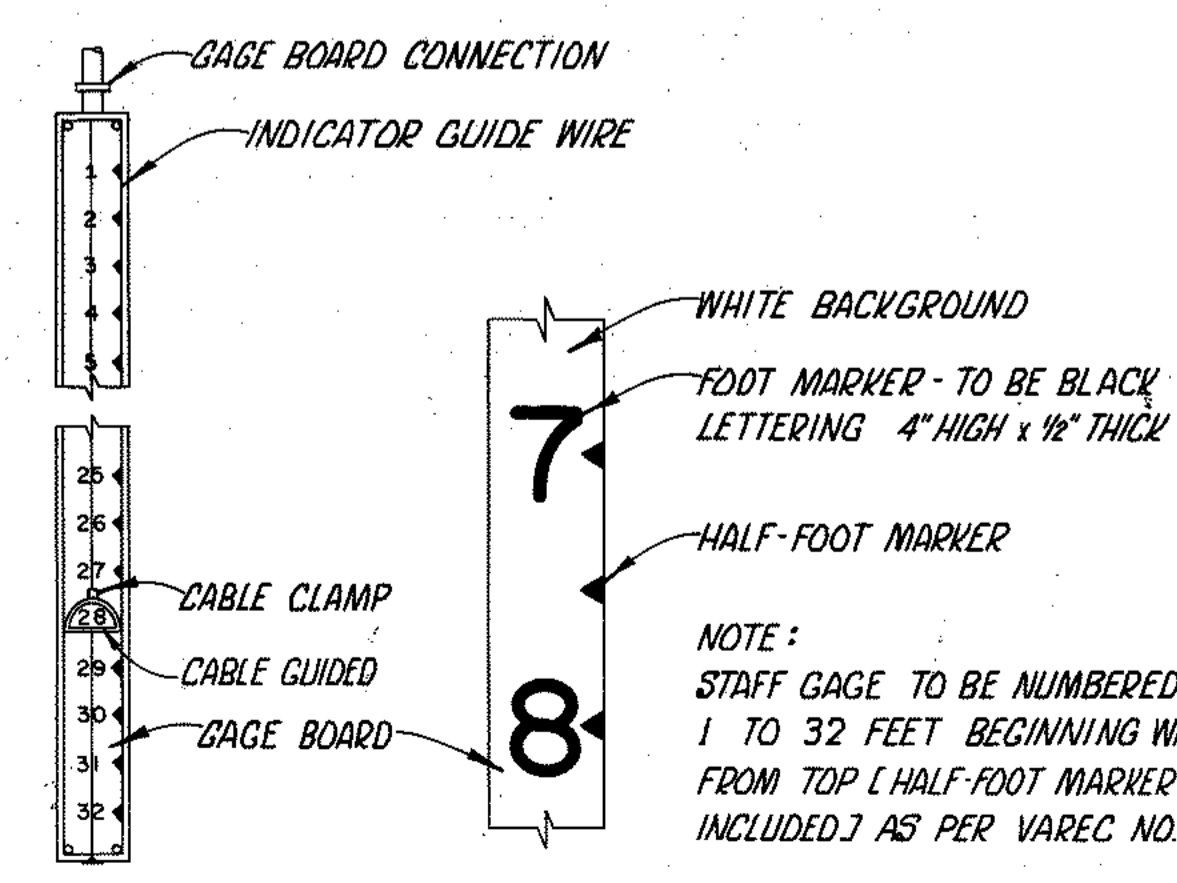
TANK PLAN  
SCALE: 1"=6'



CHAIN LINK FENCE DETAIL  
NO SCALE



AIR VENT DETAIL  
NO SCALE



INDICATOR BOARD DETAIL  
NO SCALE

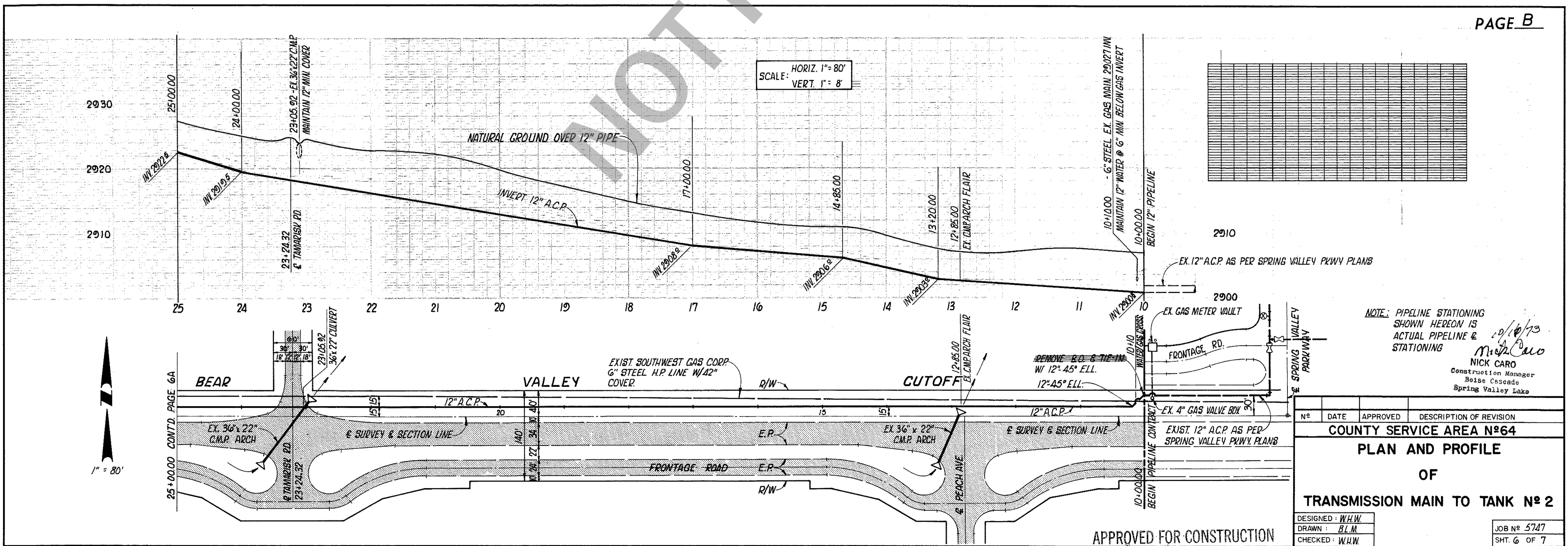
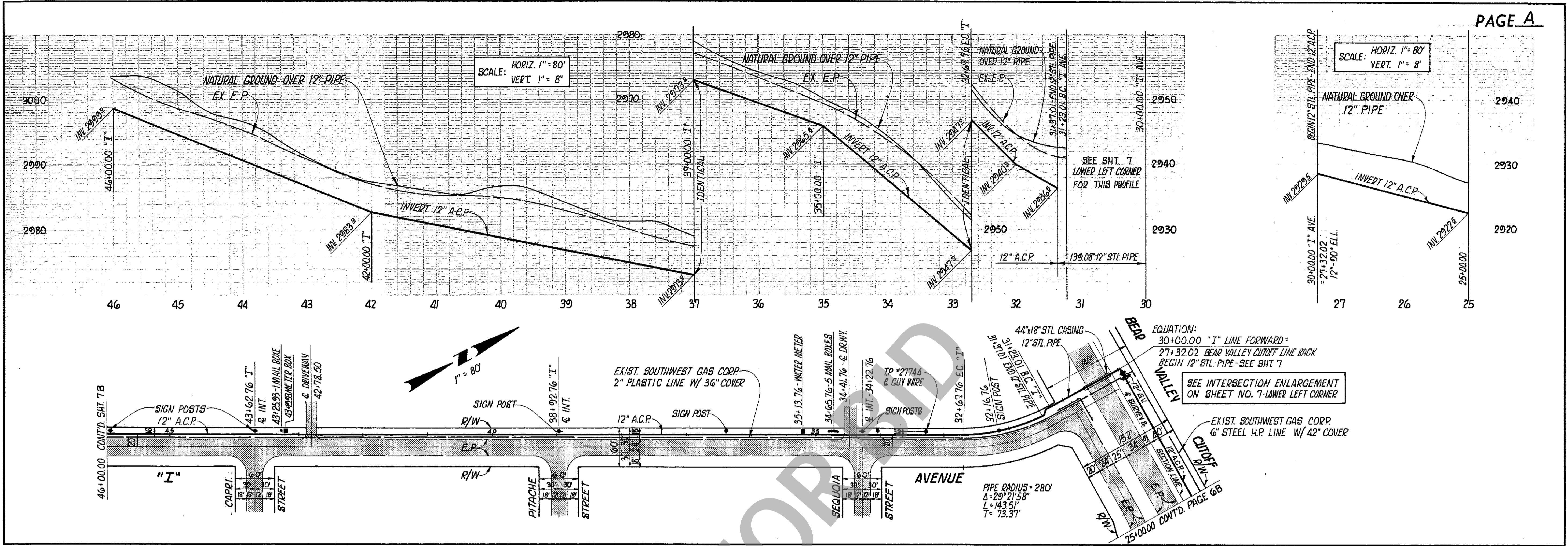
10/10/73  
Nick Caro  
NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

COUNTY SERVICE AREA Nº 64  
SPRING VALLEY LAKE  
TANK Nº 2  
TANK PLANS AND DETAILS

DESIGNED: P.S.  
DRAWN: L.E.N.  
CHECKED: W.H.W.

JOB Nº 5747  
SHT. 5 OF 9

APPROVED FOR CONSTRUCTION

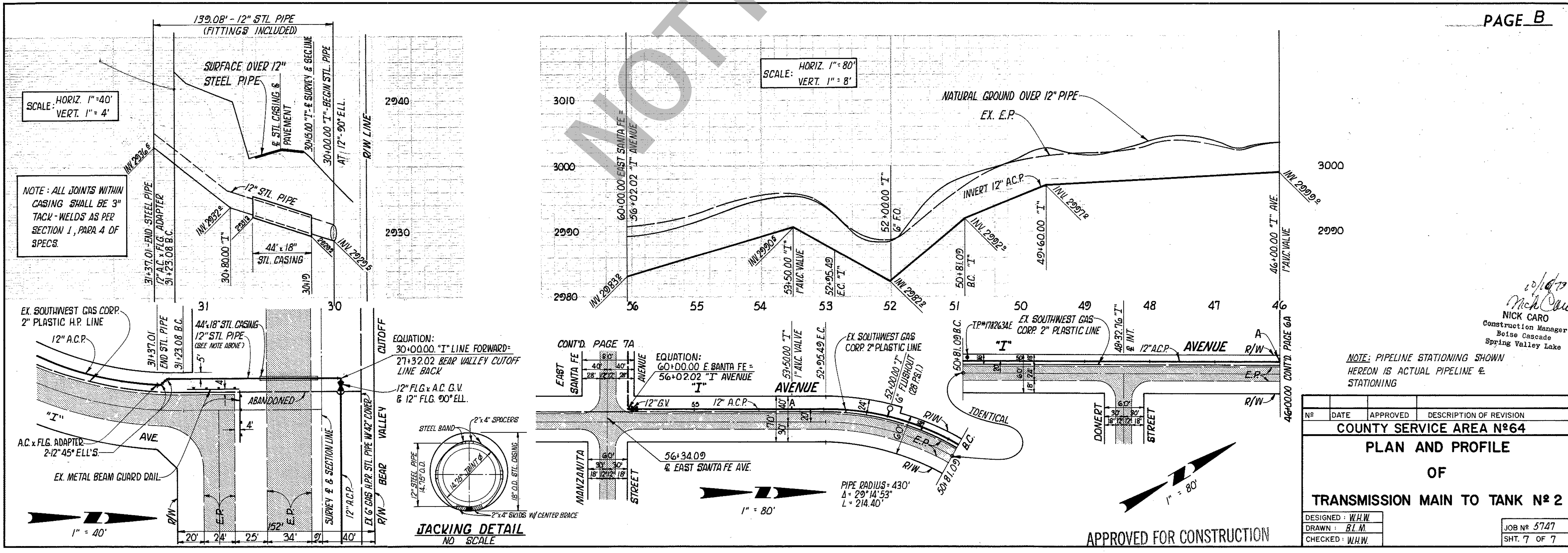
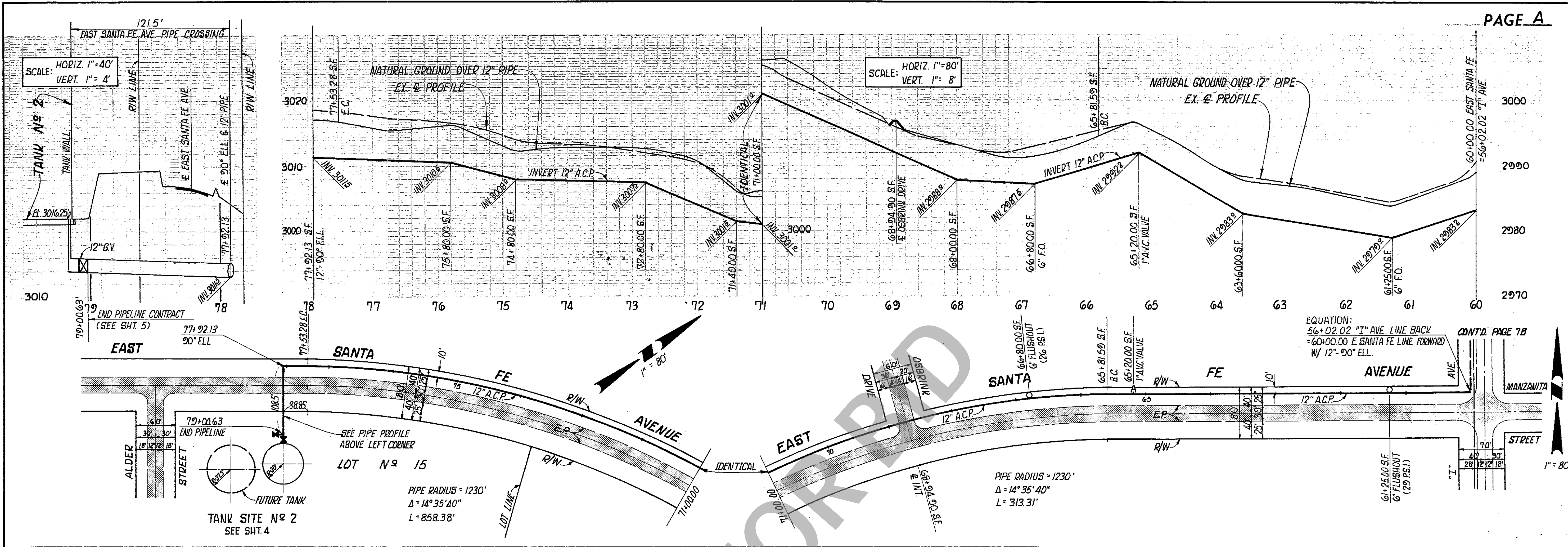


NOTE: PIPELINE STATIONING SHOWN HEREON IS ACTUAL PIPELINE & STATIONING

10/10/73  
 Nick Caro  
 Construction Manager  
 Boise Cascade  
 Spring Valley Lake

No.	DATE	APPROVED	DESCRIPTION OF REVISION
<b>COUNTY SERVICE AREA #64</b>			
<b>PLAN AND PROFILE</b>			
<b>OF</b>			
<b>TRANSMISSION MAIN TO TANK # 2</b>			
DESIGNED	W.H.W.		
DRAWN	B.L.M.		
CHECKED	W.H.W.		
			JOB No 5747
			SHT. 6 OF 7

APPROVED FOR CONSTRUCTION



NOTE: PIPELINE STATIONING SHOWN HEREON IS ACTUAL PIPELINE & STATIONING

No	DATE	APPROVED	DESCRIPTION OF REVISION
<b>COUNTY SERVICE AREA No 64</b>			
<b>PLAN AND PROFILE</b>			
<b>OF</b>			
<b>TRANSMISSION MAIN TO TANk No 2</b>			
DESIGNED: W.H.W.		JOB No 5747	
DRAWN: B.L.M.		SHT. 7 OF 7	
CHECKED: W.H.W.			

APPROVED FOR CONSTRUCTION

*2/16/77*  
 Nick Caro  
 Construction Manager  
 Boise Cascade  
 Spring Valley Lake

# COUNTY SERVICE AREA 64

SAN BERNARDINO COUNTY, CALIFORNIA

*DRAWINGS FOR CONSTRUCTION OF:*

## 1.0 MG RESERVOIR

### BOARD OF SUPERVISORS:

MARSHA TUROCI . . . . . (Chairperson) First District  
JON D. MIKELS . . . . . Second District  
BARBARA CRAM RIORDAN . . . . . Third District  
LARRY WALKER . . . . . Fourth District  
JERRY EAVES . . . . . Fifth District

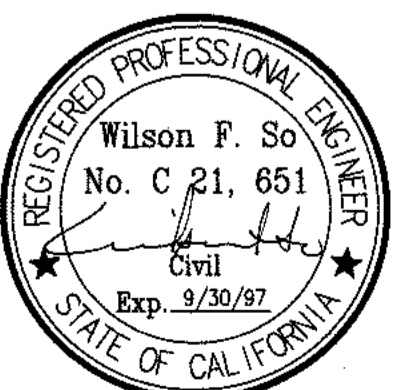
PROJECT ADMINISTRATION BY OFFICE OF SPECIAL DISTRICTS  
BILL SMILLIE, WATER FACILITIES MANAGER

REVIEWED BY: Bill Smillie Em 11-17-95  
WATER FACILITIES MANAGER DATE

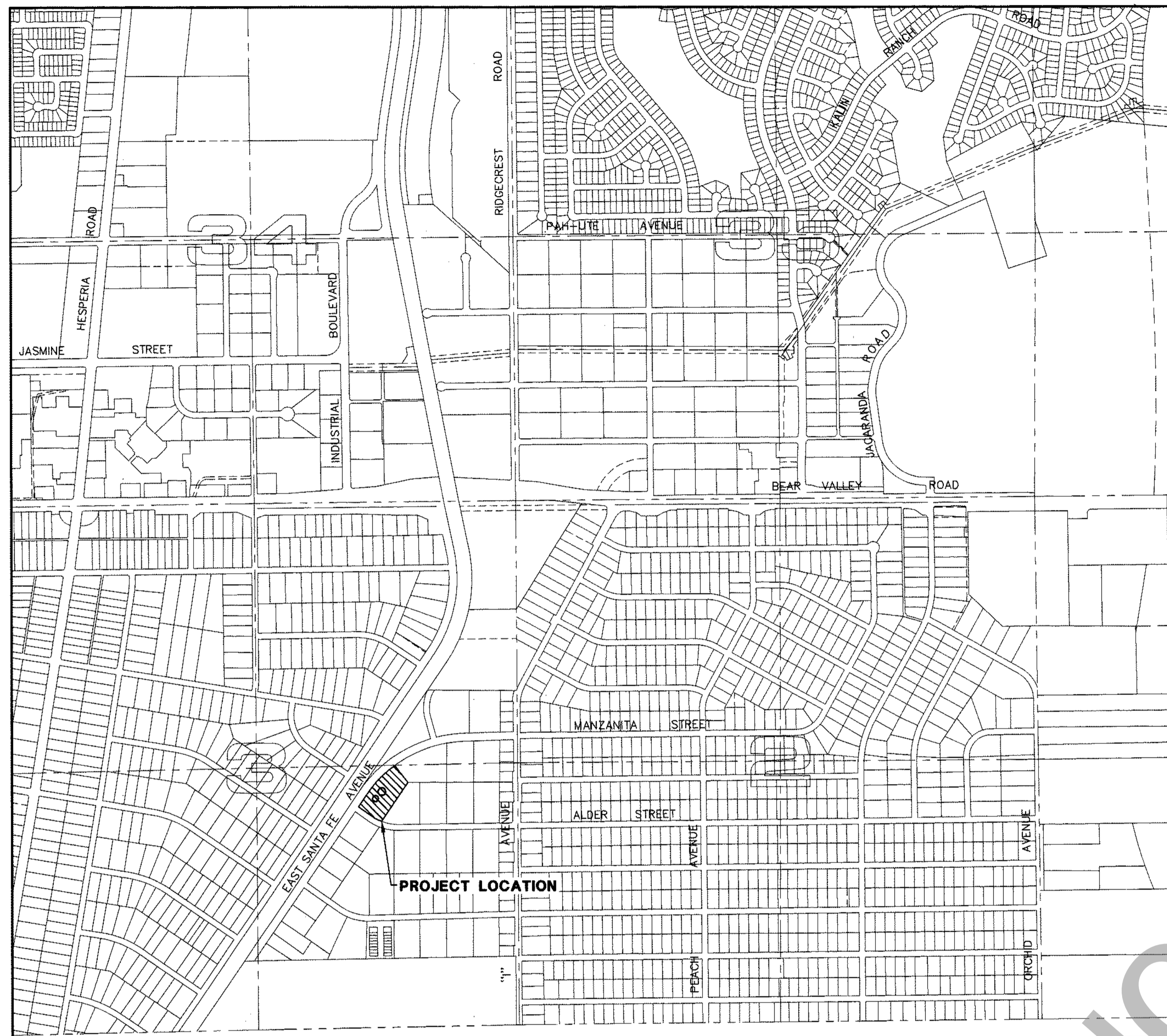
**SO & ASSOCIATES ENGINEERS, INC.**

16209 KAMANA ROAD - P.O. BOX 1712

APPLE VALLEY, CALIFORNIA 92307





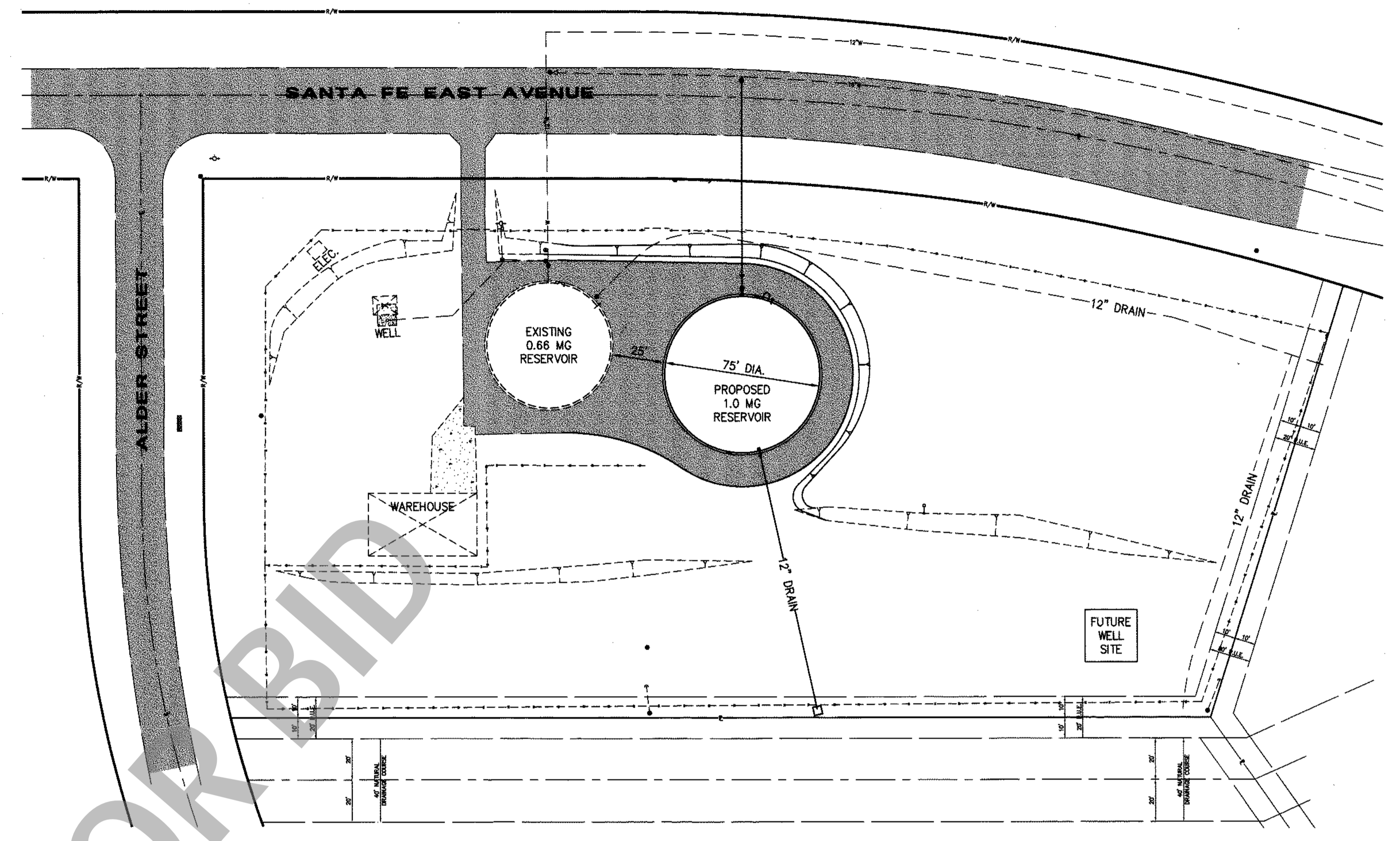


**VICINITY MAP**  
SCALE: 1"=800'

**LEGEND**

	CUT	BF	BLIND FLANGE		MAIL BOX
	SCARIFY AND RECOMPACT	CL	CENTERLINE		TELEPHONE PEDESTAL
	FILL SLOPE	C.M.L.&C.	CEMENT MORTAR LINED AND COATED		GATE VALVE
	CUT SLOPE	DIA.	DIAMETER		FIRE HYDRANT
	FLOWLINE	DIP	DUCTILE IRON PIPE		CONTROL POINT
	NEW ASPHALT PAVEMENT	DWG	DRAWING		FLANGED
	EXISTING ASPHALT PAVEMENT	FG	FINISH GRADE		FS
	GROUTED ROCK RIP-RAP	3075	CONTOUR LINE		FL
	CONCRETE SLAB	---	CONSTRUCTION LIMIT BOUNDARY		GB
AC	ASBESTOS CEMENT PIPE	-*-*-*	CHAIN LINK FENCE	OH T	OVERHEAD TELEVISION OR TELEPHONE
BV	BUTTERFLY VALVE	●	POWER POLES	PE	PLAIN END
STD	STANDARD	S	SLOPE	PL	PROPERTY LINE

**BENCHMARK**  
CITY OF HESPERIA  
H-8  
ELEVATION 3060.548



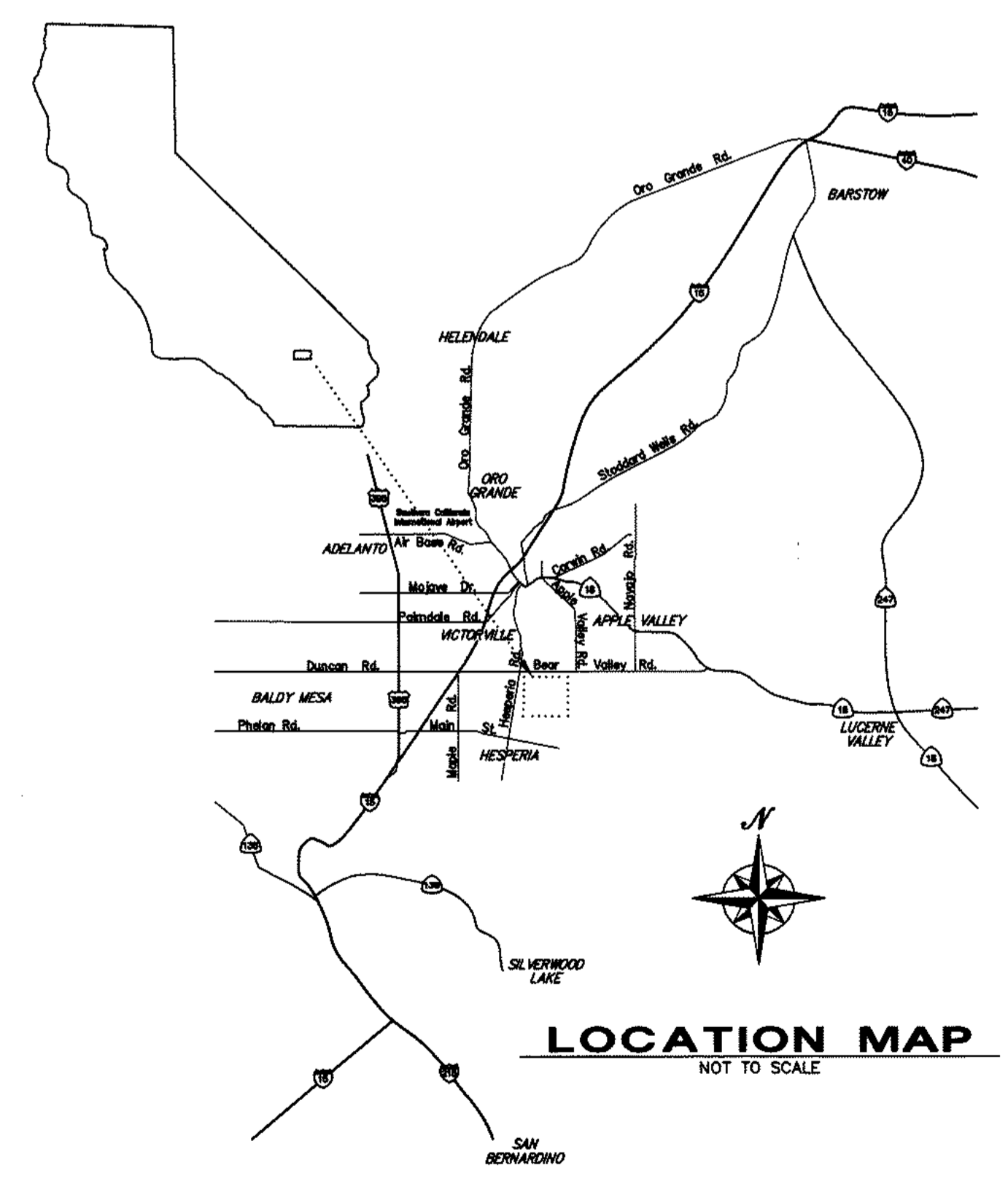
**LIST OF DRAWINGS**

TITLE	.....	G-1
GENERAL NOTES, LEGEND, INDEX, AND LOCATION MAPS	.....	C-1
SITE AND GRADING PLAN	.....	C-2
CROSS SECTIONS AND DETAILS	.....	C-3
MISCELLANEOUS DETAILS	.....	

**SITE PLAN**  
SCALE: 1"=40'

**GENERAL NOTES**

1. THE RESERVOIR SITE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS AND PROVISIONS OF THE PRELIMINARY GEOTECHNICAL INVESTIGATION, COUNTY SERVICE AREA 64 RESERVOIR SITE PREPARED BY LOR GEOTECHNICAL GROUP, INC. DATED OCTOBER, 1995.
2. THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS AND FABRICATION DRAWINGS TO DISTRICT ENGINEER. SAID CALCULATIONS AND DRAWINGS SHALL BE APPROVED BY THE DISTRICT ENGINEER PRIOR TO FABRICATION.
3. ALL RESERVOIR MATERIAL SHALL BE OFF-LOADED FROM TRUCKS UTILIZING A CRANE OR OTHER MECHANICAL MEANS (DRAGGING OFF SUPPLY TRUCKS WILL NOT BE ALLOWED).
4. GROUTED ROCK RIP RAP SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH SECTION 72-5 (METHOD "A" OR "B") OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
5. THE CONTRACTOR SHALL SCARIFY BELOW THE PROPOSED RESERVOIR PAD TO ELEVATION 3014.25 AND RECOMPACT THE SCARIFIED MATERIAL, RECOMPACT TO 95% OF MAXIMUM DRY DENSITY.
6. UPON COMPLETION OF RESERVOIR ERECTION, ALL CONSTRUCTION EQUIPMENT SHALL BE REMOVED FROM THE PROJECT SITE.
7. UPON COMPLETION OF RESERVOIR INTERIOR SANDBLASTING, ALL SAND SHALL BE REMOVED FROM THE PROJECT SITE AND HAULED TO AN OWNER APPROVED LANDFILL. NO OTHER PAINTING OR COATING WORK SHALL BE PERMITTED UNTIL SAND IS DISPOSED OF.
8. ALL CONSTRUCTION DEBRIS (WELDING RODS, PAINT CANS, TRASH, ETC.) SHALL BE REMOVED FROM THE PROJECT SITE AT THE CLOSE OF EACH WORK WEEK.
9. DIESEL FUEL, OIL OR PAINT SPILLS WITHIN THE PROJECT SITE SHALL IMMEDIATELY BE CLEANED AND ALL CONTAMINATED SOIL REMOVED TO AN APPROVED DISPOSAL SITE.
10. ALL EXCESS CUT MATERIAL SHALL BE SPREAD EVENLY OVER THE PROJECT AREA UNLESS OTHERWISE DIRECTED. ALL EXCESS MATERIAL WILL BE COMPACTED TO 90% MAXIMUM DENSITY.
11. PRIOR TO FINAL ASPHALT PAVEMENT, CONTRACTOR TO COMPACT THE TOP 12" BELOW FINISH GRADE TO 95% MAXIMUM DENSITY.



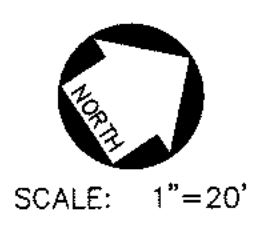
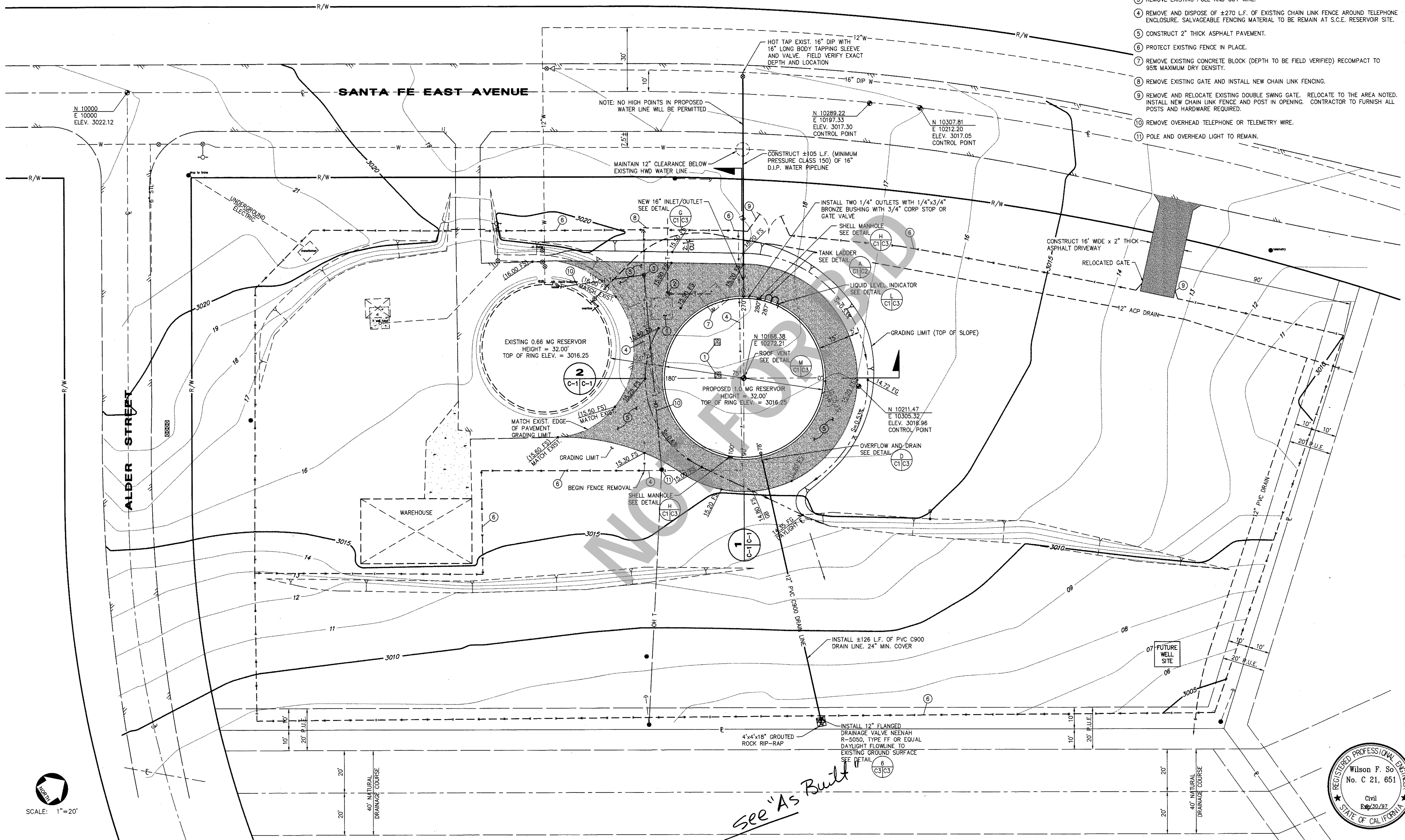
**LOCATION MAP**  
NOT TO SCALE



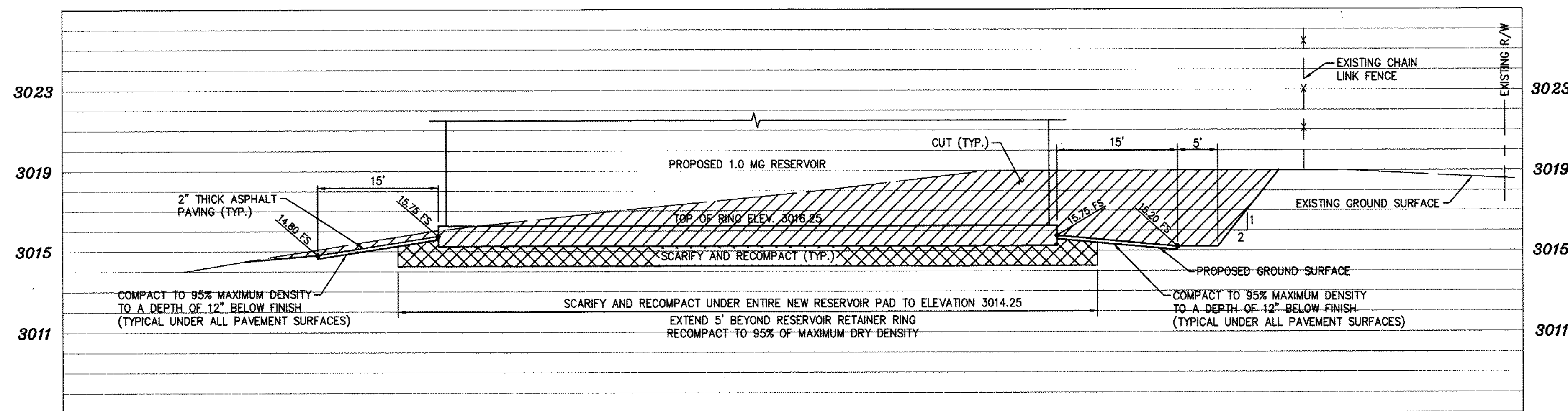
DESIGNED BY: <b>T.E.R.</b>	PROJECT ENGINEER	PREPARED BY: <b>So &amp; Associates Engineers Inc.</b>	APPROVED BY: <b>Larry Martin</b>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64	SHEET 2
DRAWN BY: <b>J.B.C.</b>	R.C.E. No. _____ DATE _____	16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712	<b>11-20-95</b>	WORK ORDER NO. 101.0520	COUNTY OF SAN BERNARDINO	OF 5
CHECKED BY: <b>mp</b>	SUBMITTED BY DISTRICT ENGINEER <b>Wilson F. So</b>	APPLE VALLEY, CALIFORNIA 92307	<b>11-19-95</b>	GENERAL NOTES, LEGEND, INDEX, AND LOCATION MAPS	SPECIAL DISTRICTS DEPARTMENT	DRAWING NO. G-1
REV. _____	WILSON F. SO R.C.E. No. 21651 DATE 11-14-95	(619) 242-2365 • FAX (619) 242-3083	COUNTY SERVICE AREA 64		CSA 64 RESERVOIR No. 2B	

**DEMOLITION AND GRADING NOTES**

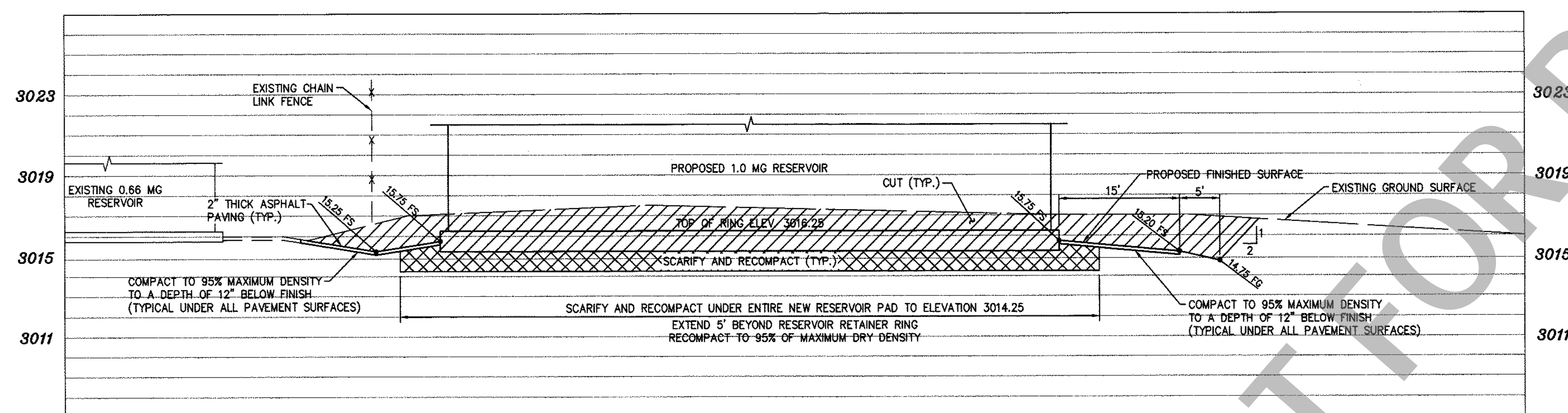
- 1 REMOVE EXISTING CONCRETE PAD (ALL CONCRETE IS TO BE REMOVED FROM SITE AND TRANSPORTED TO HI-GRADE MATERIALS CO., 17671 BEAR VALLEY ROAD UNLESS OTHERWISE DIRECTED).
- 2 REMOVE EXISTING PEDESTAL AND ALL UNDERGROUND CABLES AND CONDUITS TO A LIMIT OF 10 FEET BEYOND NEW EDGE OF ASPHALT.
- 3 REMOVE EXISTING POLE AND GUY WIRE.
- 4 REMOVE AND DISPOSE OF ±270 L.F. OF EXISTING CHAIN LINK FENCE AROUND TELEPHONE ENCLOSURE. SALVAGEABLE FENCING MATERIAL TO BE REMAIN AT S.C.E. RESERVOIR SITE.
- 5 CONSTRUCT 2" THICK ASPHALT PAVEMENT.
- 6 PROTECT EXISTING FENCE IN PLACE.
- 7 REMOVE EXISTING CONCRETE BLOCK (DEPTH TO BE FIELD VERIFIED) RECOMPACT TO 95% MAXIMUM DRY DENSITY.
- 8 REMOVE EXISTING GATE AND INSTALL NEW CHAIN LINK FENCING.
- 9 REMOVE AND RELOCATE EXISTING DOUBLE SWING GATE. RELOCATE TO THE AREA NOTED. INSTALL NEW CHAIN LINK FENCE AND POST IN OPENING. CONTRACTOR TO FURNISH ALL POSTS AND HARDWARE REQUIRED.
- 10 REMOVE OVERHEAD TELEPHONE OR TELEMETRY WIRE.
- 11 POLE AND OVERHEAD LIGHT TO REMAIN.



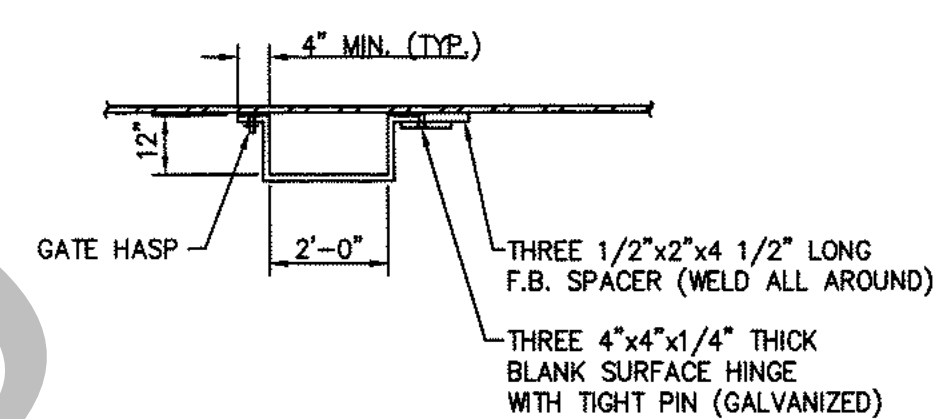
REV.	1	See "As Built" 5/17.1 of 1	WS	2-24-97	DESIGNED BY: T.E.R.	PROJECT ENGINEER	PREPARED BY:	APPROVED BY:	SCALE:	COUNTY SERVICE AREA 64 COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS DEPARTMENT CSA 64 RESERVOIR No. 2B RESERVOIR SITE AND GRADING PLAN	SHEET 3 OF 5 DRAWING NO. C-1
					DRAWN BY: J.C./G.C.	MICHAEL PODEGRACZ SUBMITTED BY DISTRICT ENGINEER	So & Associates Engineers Inc. 16209 KAMANA ROAD, Suite 100 • P.O. BOX 1712 APPLE VALLEY, CALIFORNIA 92307 (619) 242-2365 • FAX (619) 242-3083	Special Districts W. J. Smith County Service Area 64	AS SHOWN WORK ORDER NO. 101.0520		
					CHECKED BY: W.P.	WILSON F. SO R.C.E. No. 21651	DATE: 11-14-95	DATE: 11-20-95	DATE: 11-17-95		



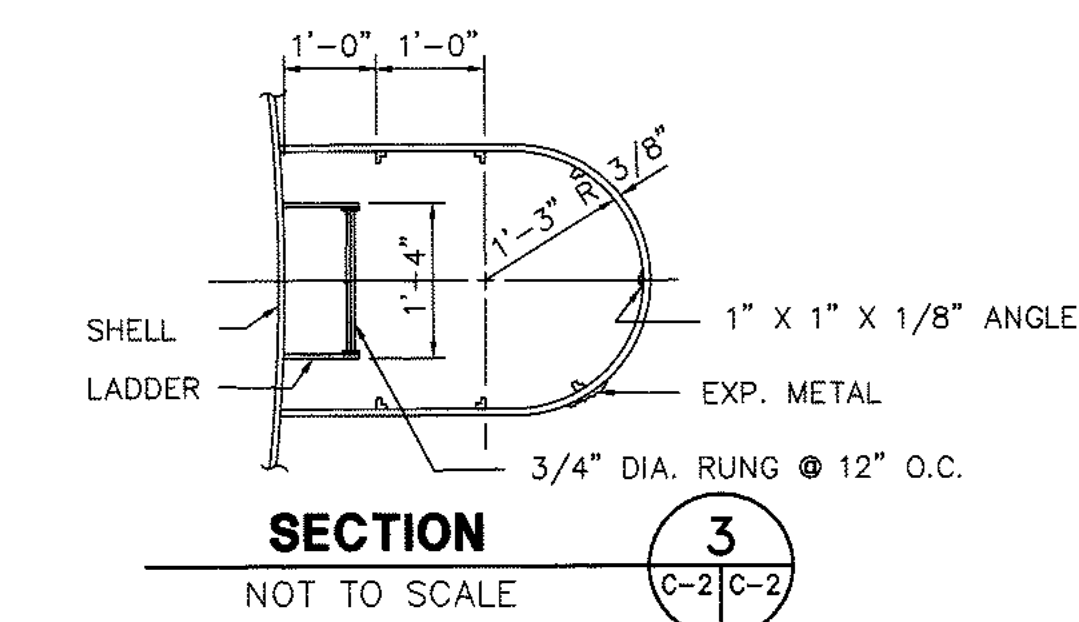
**SECTION 1**  
SCALE:  
HORIZ.: 1"=10'  
VERT.: 1"=4'



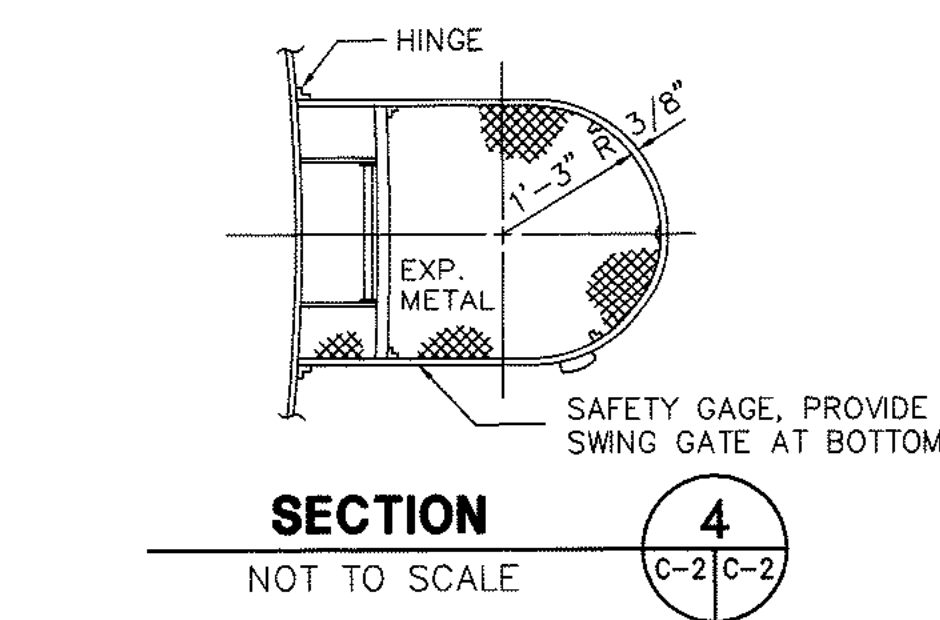
**SECTION 2**  
SCALE:  
HORIZ.: 1"=10'  
VERT.: 1"=4'



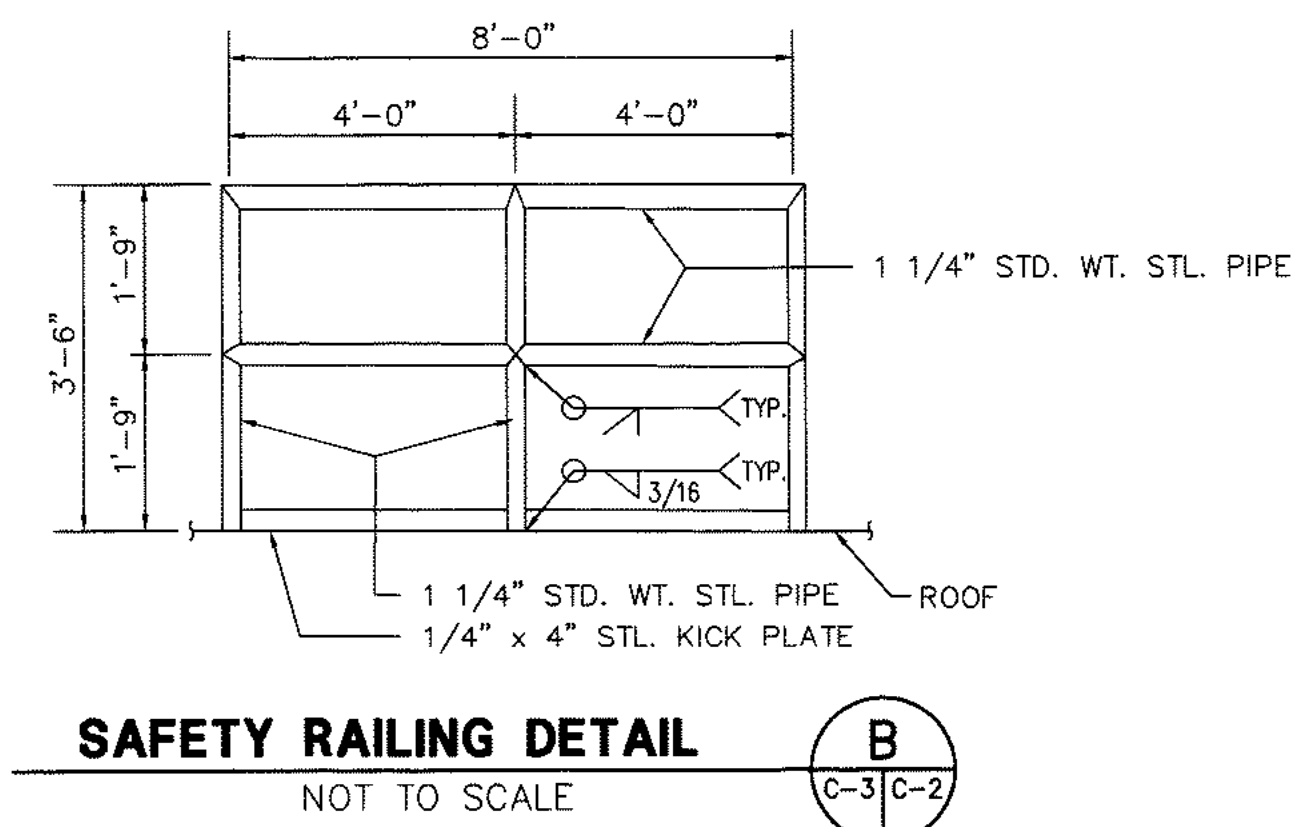
**DETAIL N**  
NOT TO SCALE



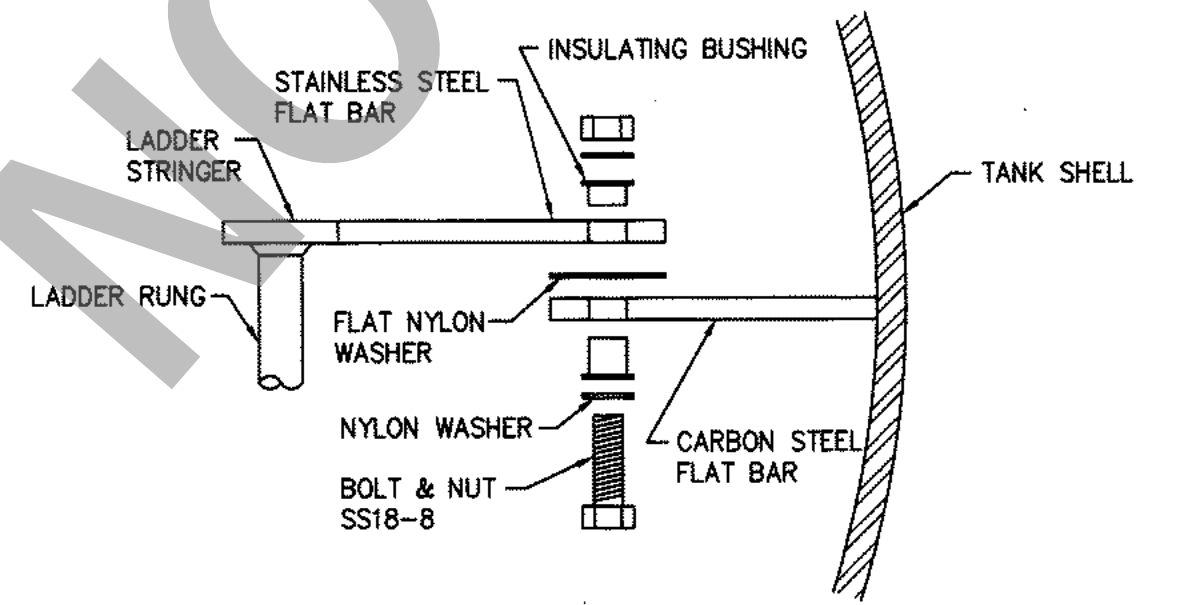
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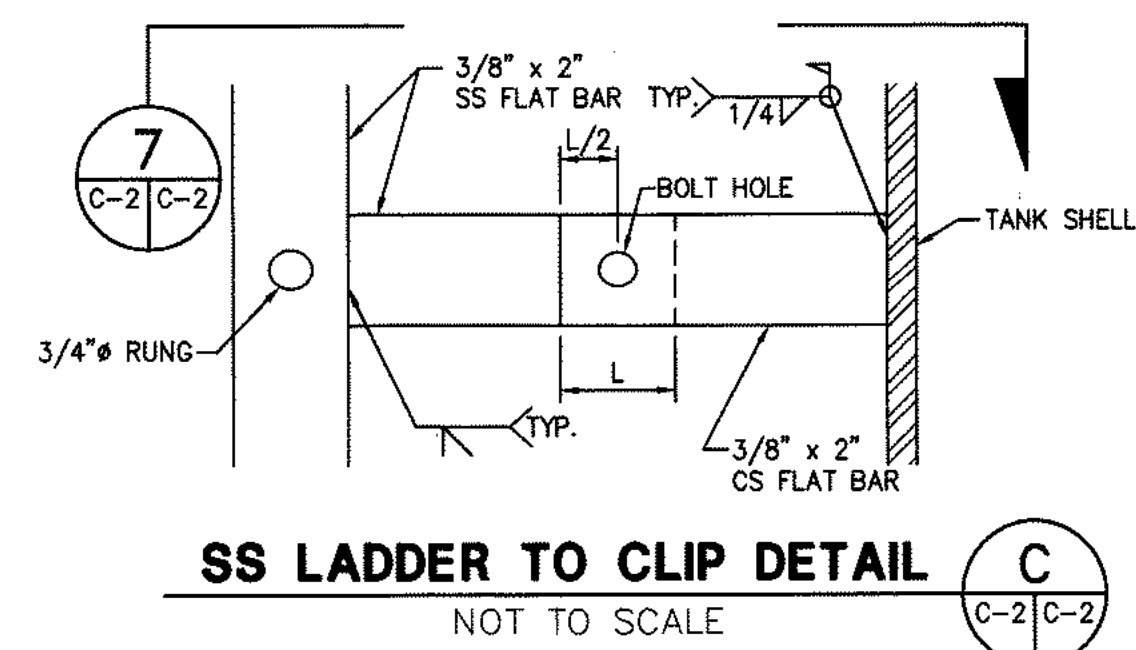
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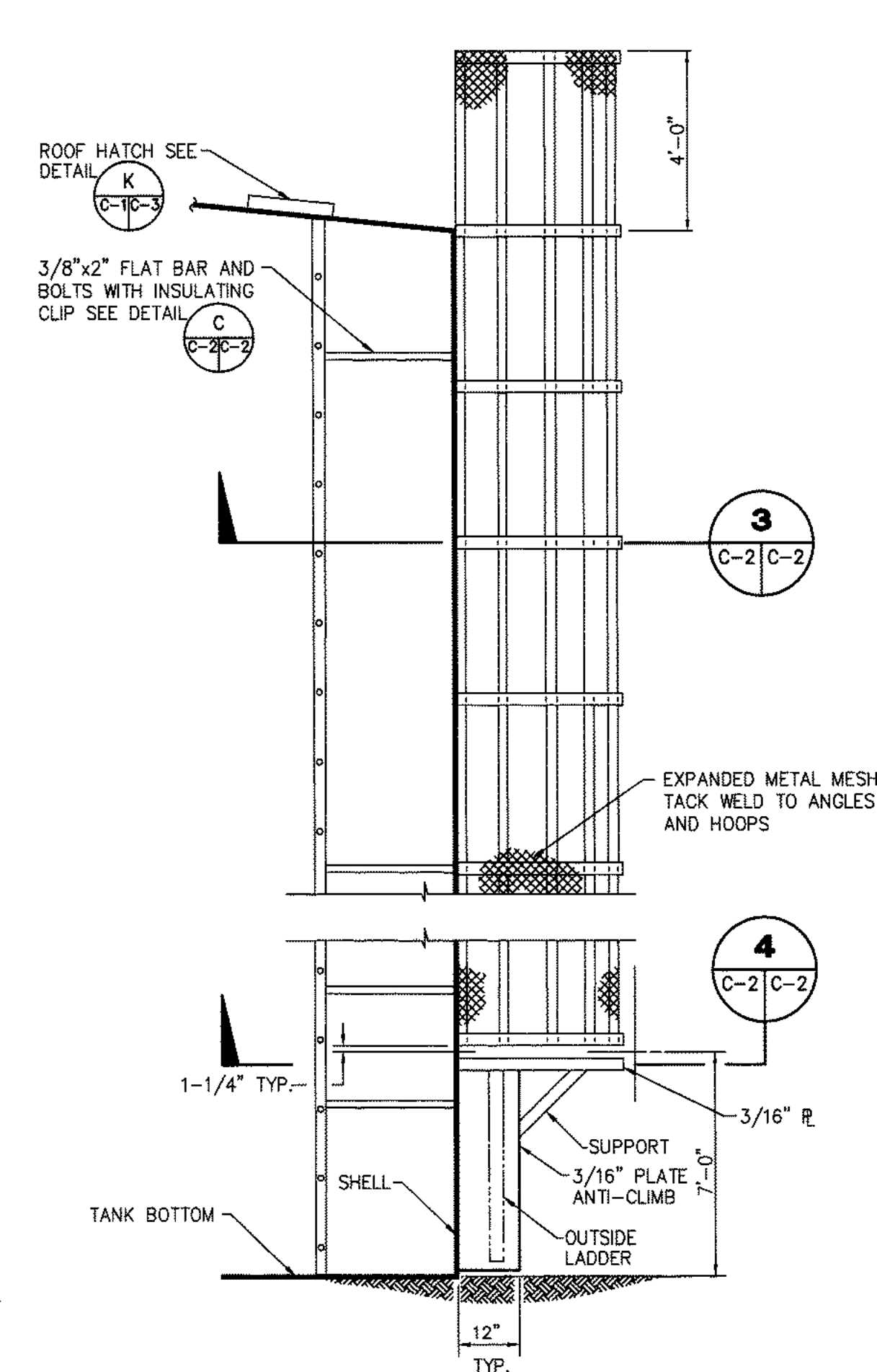
**SAFETY RAILING DETAIL B**  
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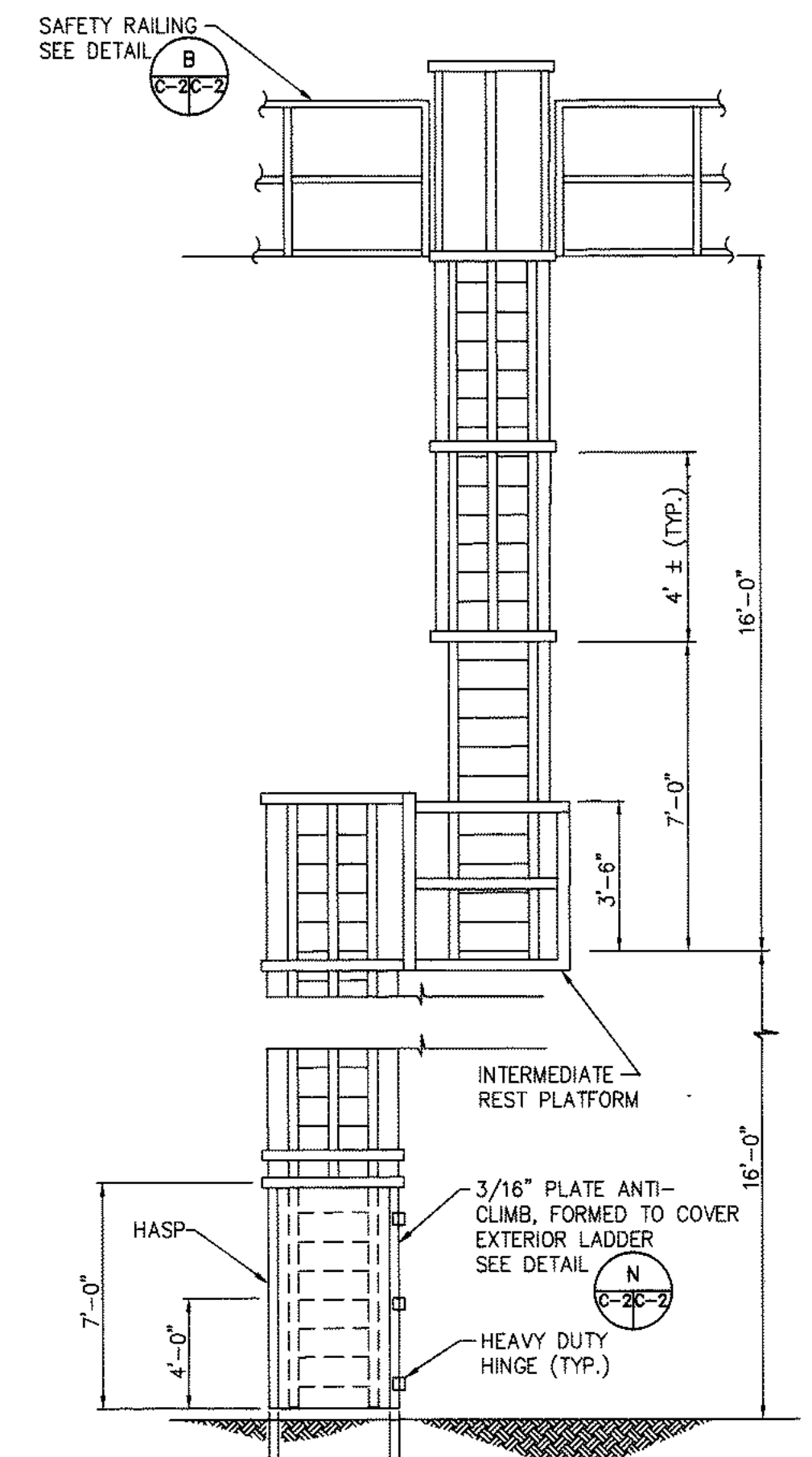
**SS LADDER TO CLIP SECTION 7**  
NOT TO SCALE



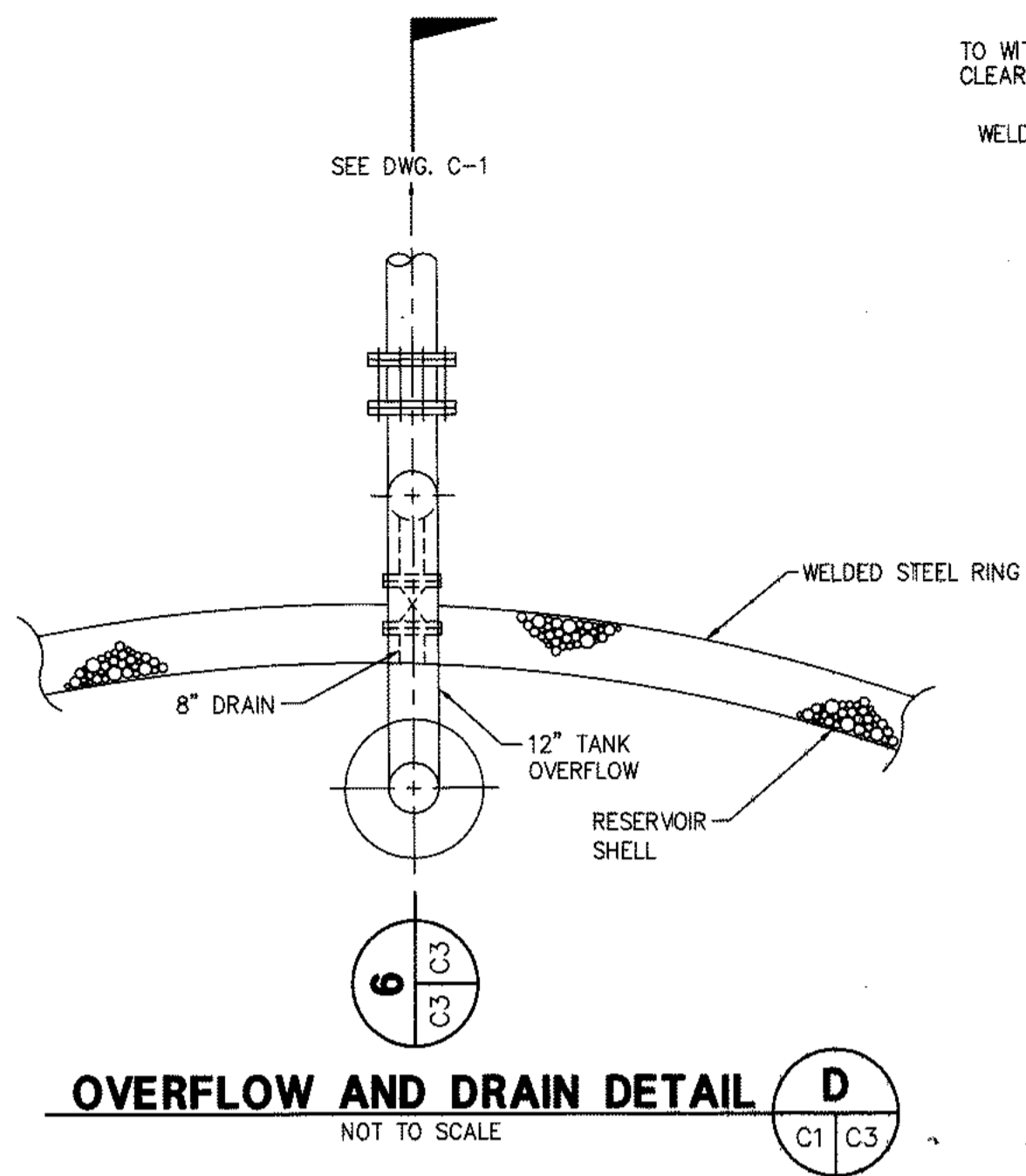
**SS LADDER TO CLIP DETAIL C**  
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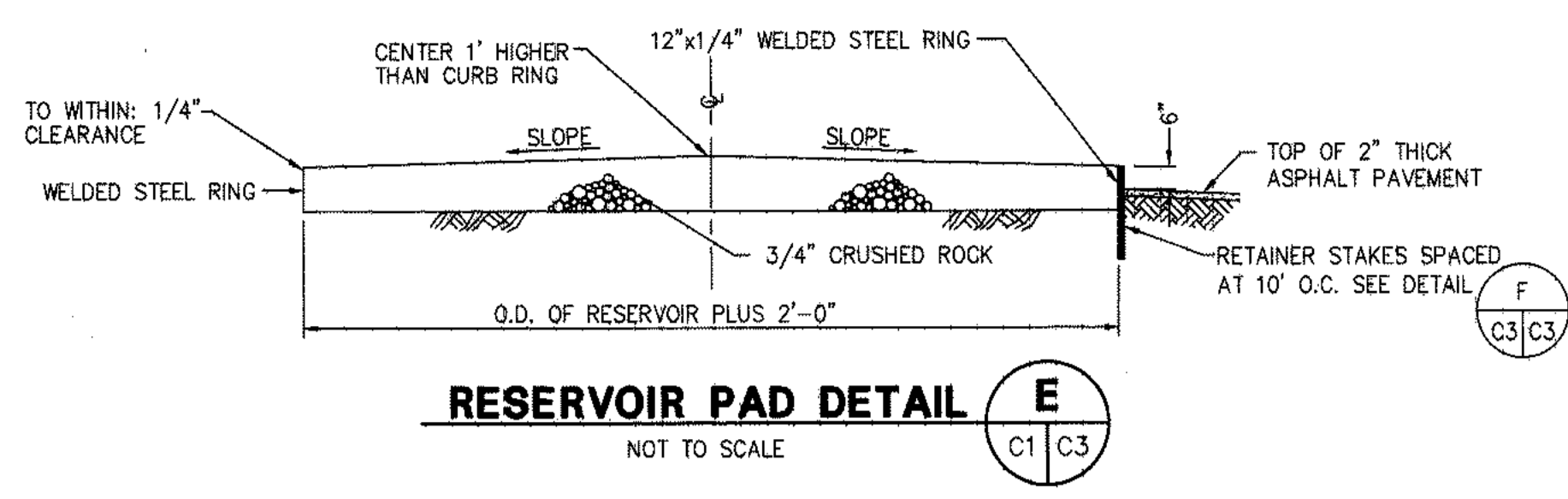
**TANK LADDER DETAIL A**  
NOT TO SCALE



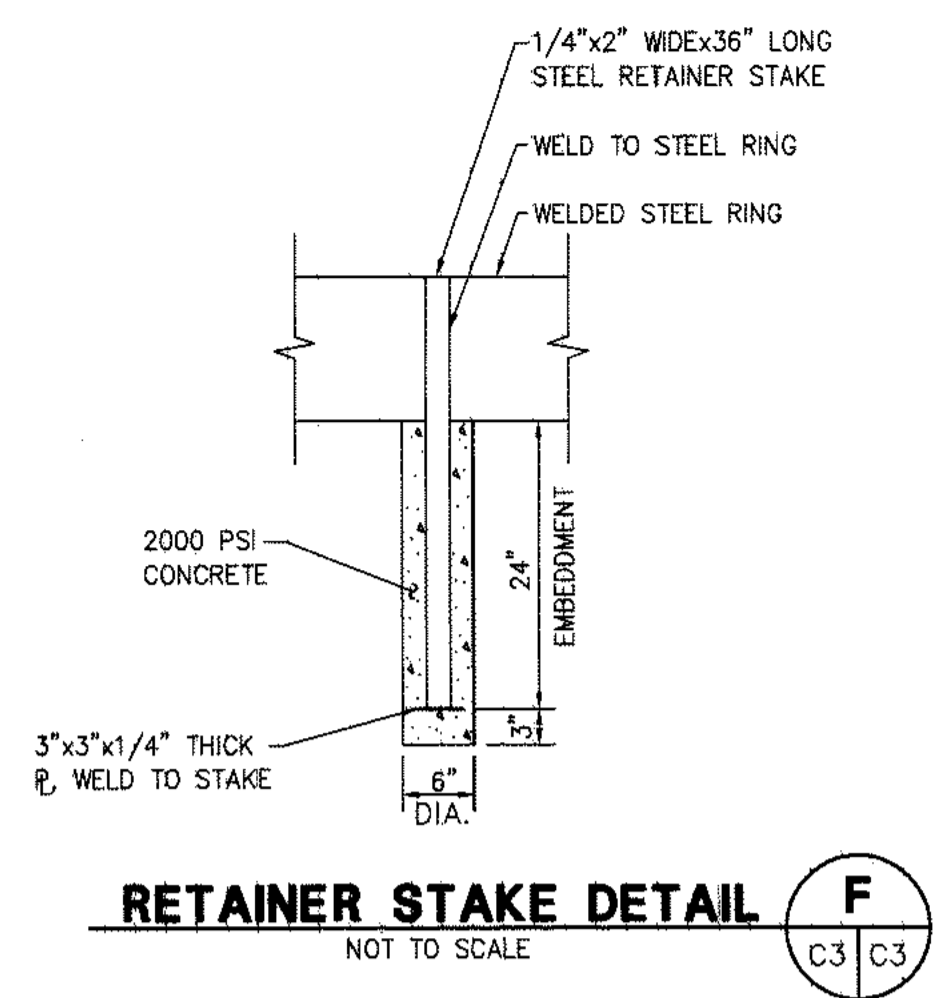
DESIGNED BY: T.E.R.	PROJECT ENGINEER: <i>Smartin</i>	PREPARED BY: <i>Smartin</i>	APPROVED BY: <i>Will Shull Em</i>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64	SHEET 4
DRAWN BY: G.C./J.C.	SUBMITTED BY DISTRICT ENGINEER: <i>Wilson F. So</i>	DATE: 11-20-95	DATE: 11-20-95	WORK ORDER NO. 101.0520	COUNTY OF SAN BERNARDINO	OF 5
CHECKED BY: <i>wp</i>	DATE: 11-14-95	DATE: 11-17-95	DATE: 11-17-95	101.0520	SPECIAL DISTRICTS DEPARTMENT	DRAWING NO. C-2
REV.	REVISION	DESCRIPTION	BY	DATE	CSA 64 RESERVOIR No. 2B	
					CROSS SECTIONS AND DETAILS	



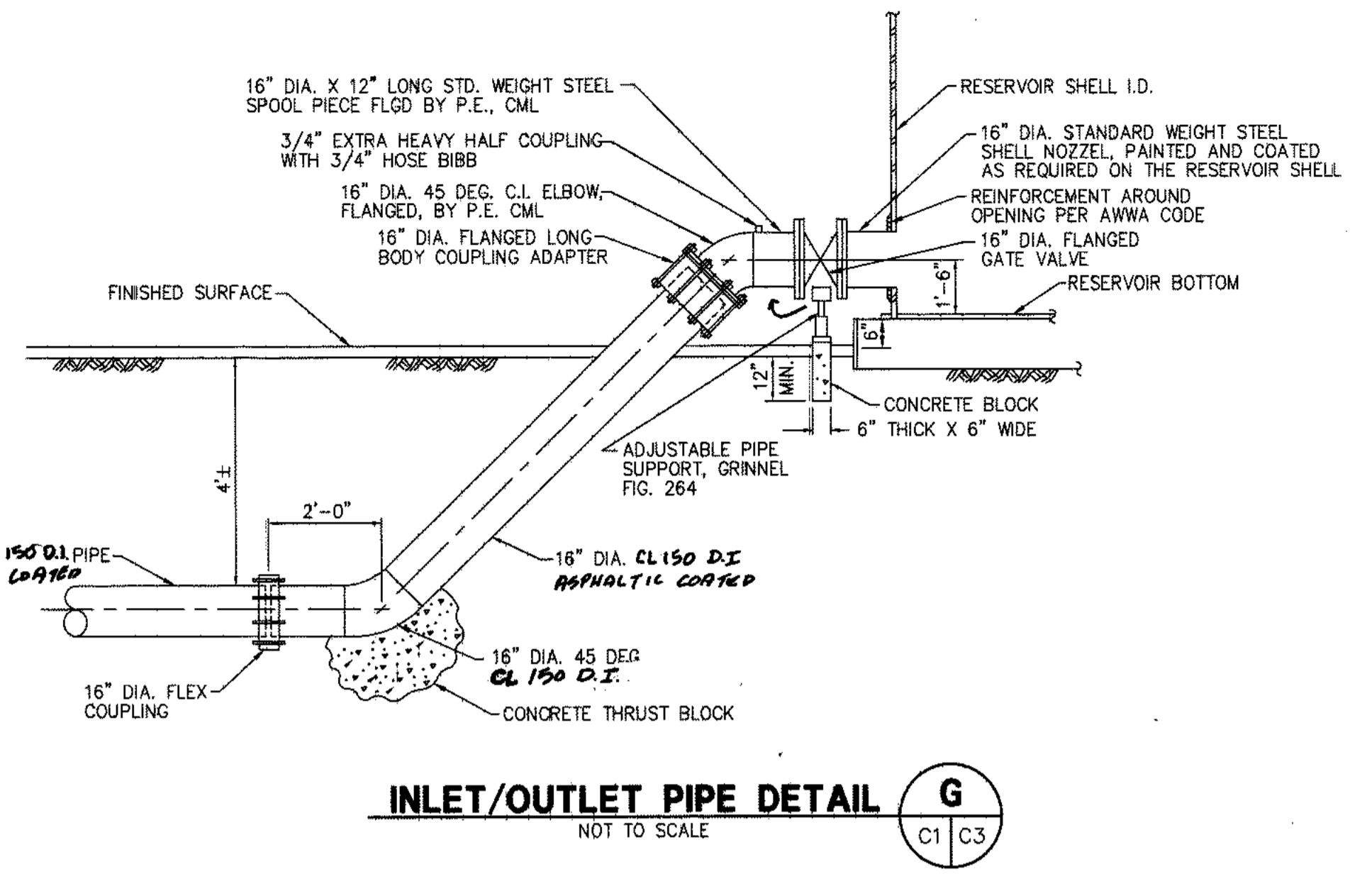
**OVERFLOW AND DRAIN DETAIL D**  
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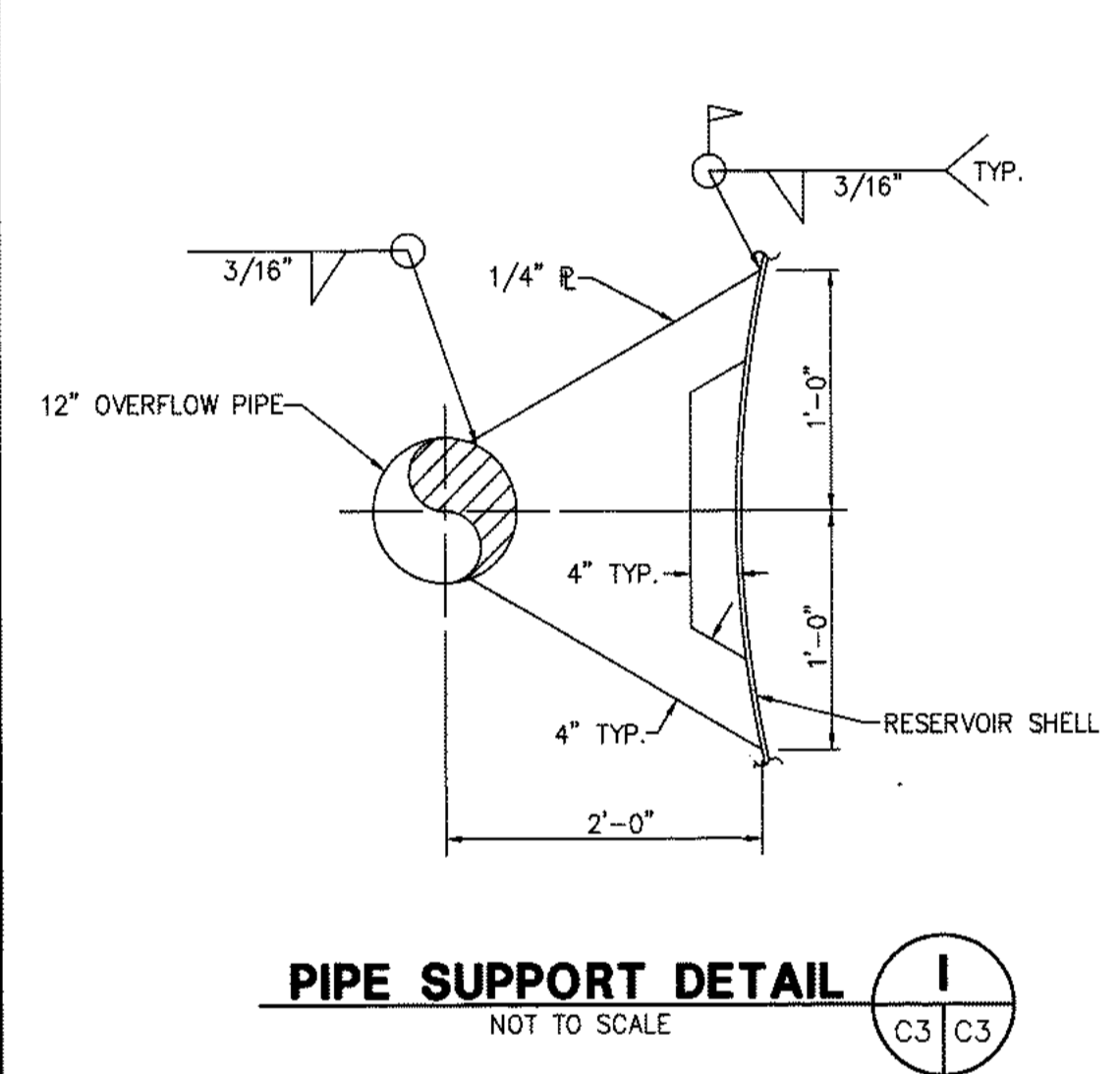
**RESERVOIR PAD DETAIL E**  
NOT TO SCALE



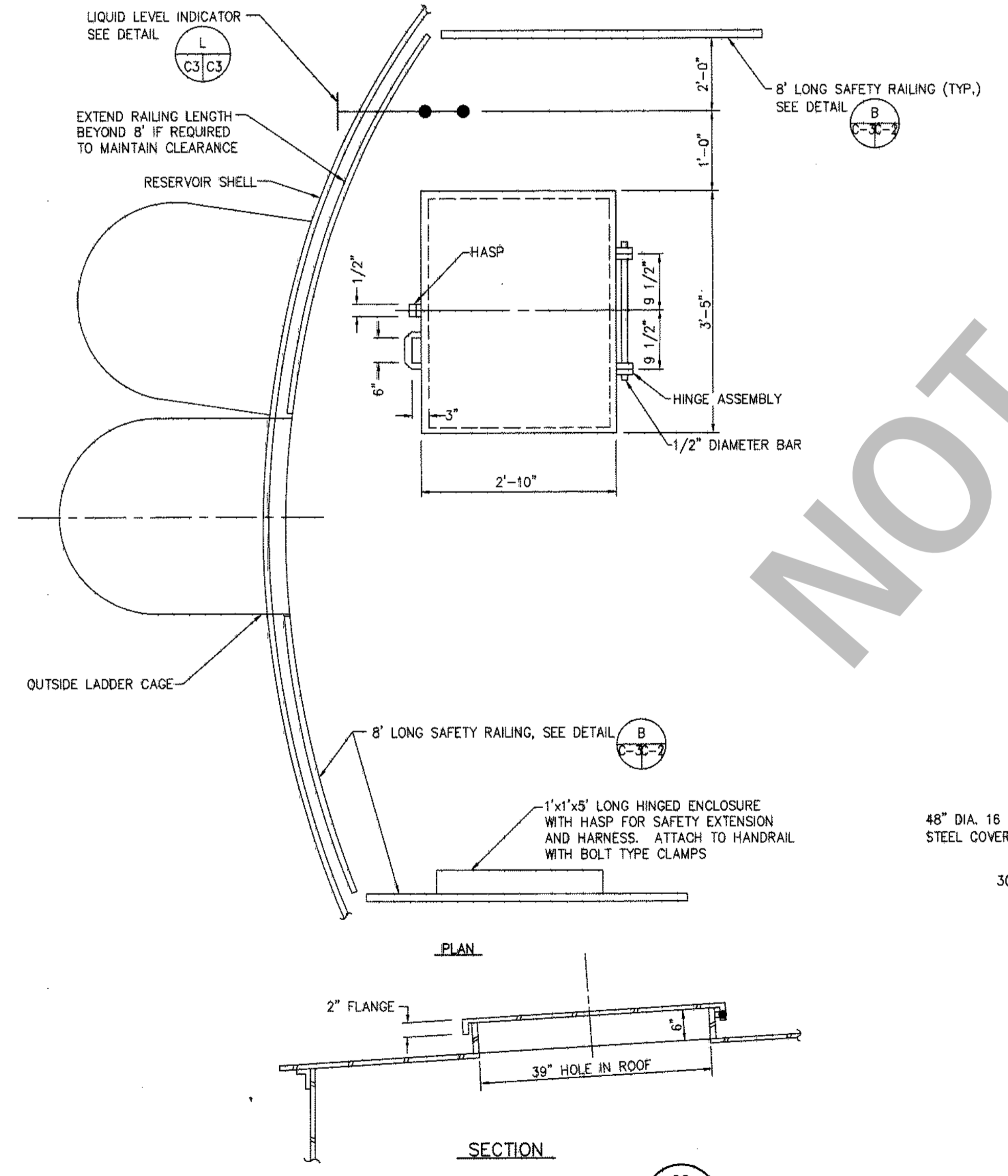
**RETAINER STAKE DETAIL F**  
NOT TO SCALE



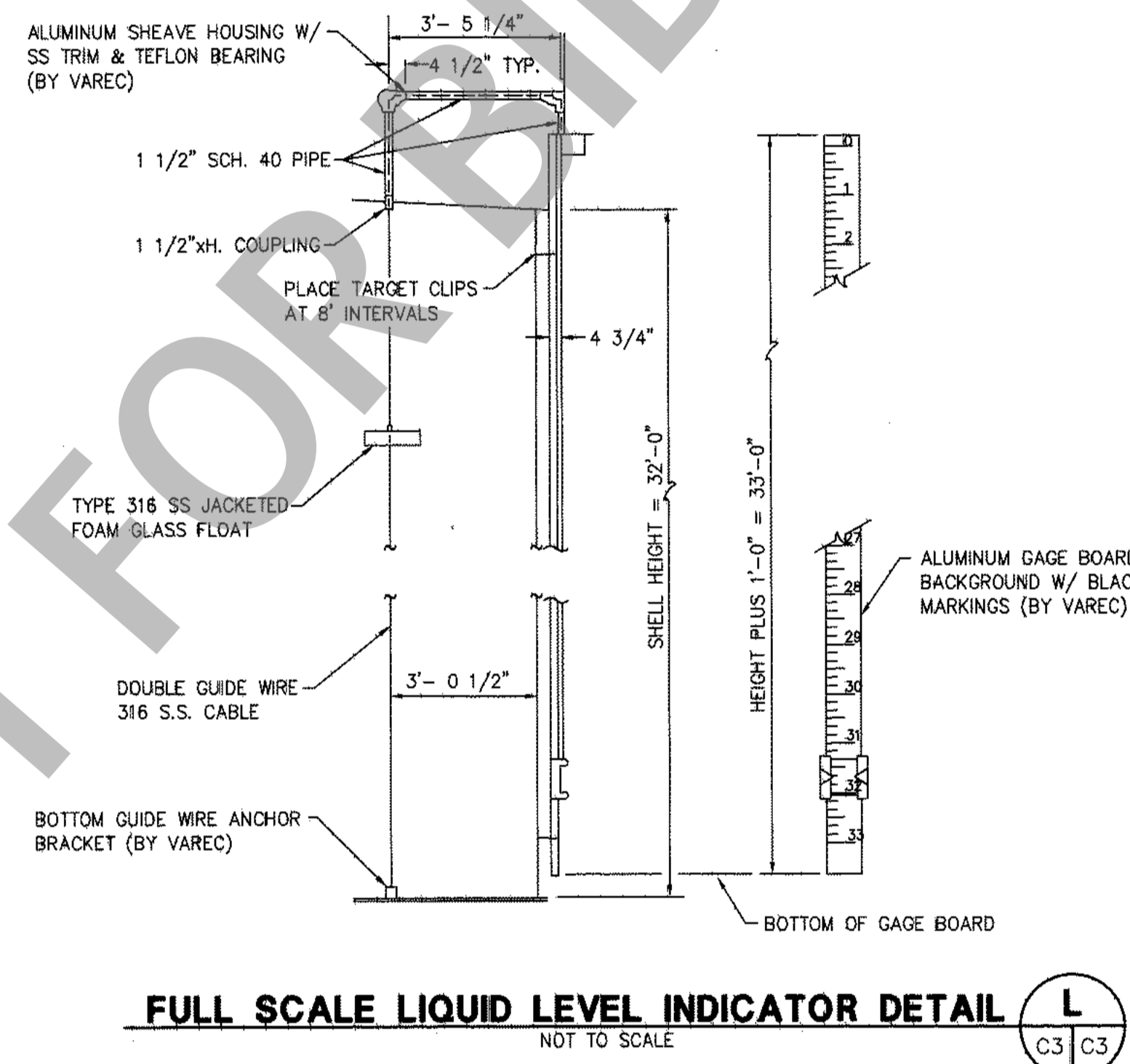
**INLET/OUTLET PIPE DETAIL G**  
NOT TO SCALE



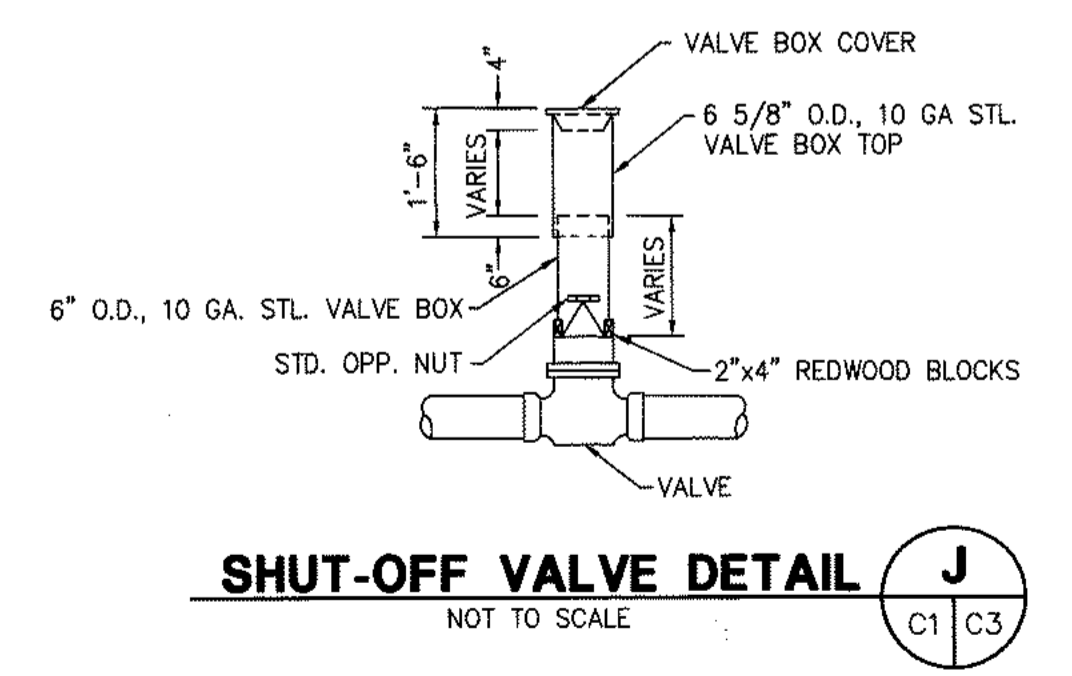
**PIPE SUPPORT DETAIL I**  
NOT TO SCALE



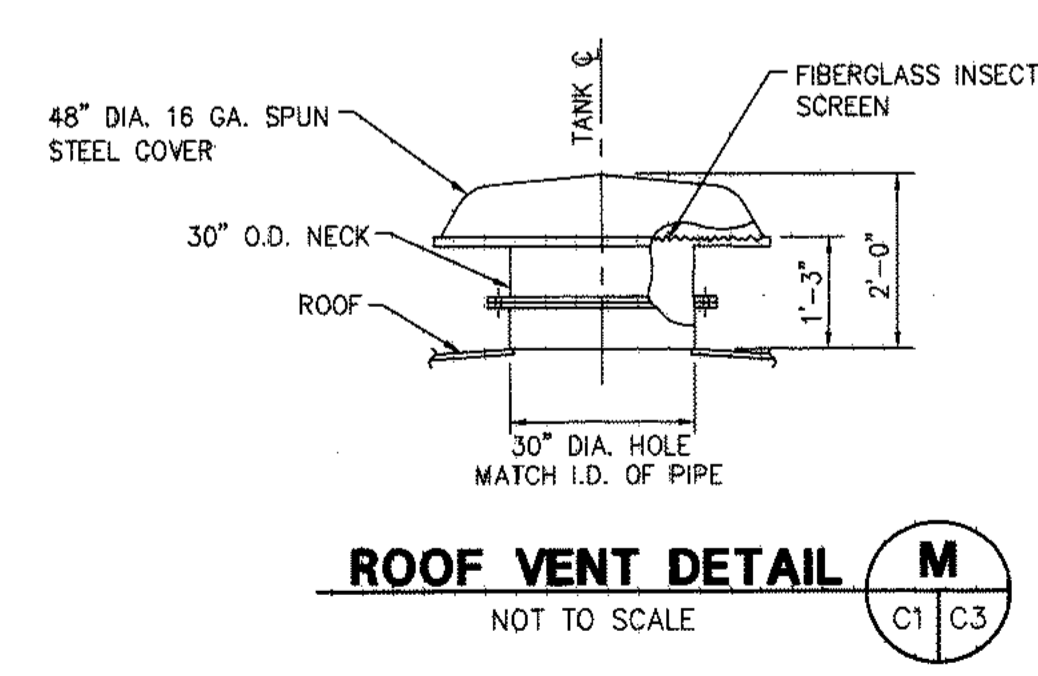
**SHELL MANHOLE DETAIL H**  
NOT TO SCALE



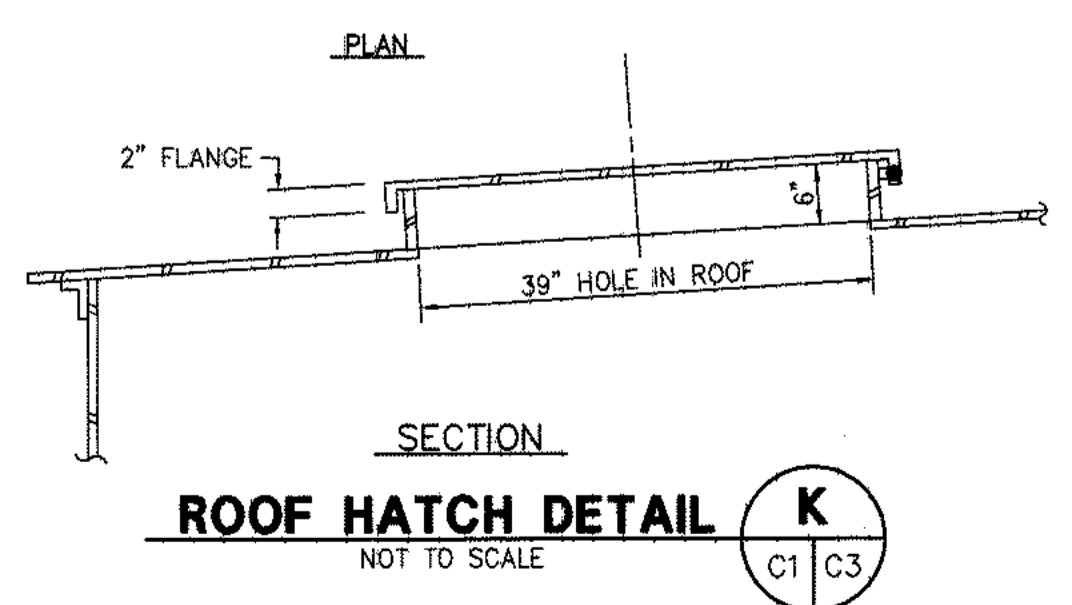
**FULL SCALE LIQUID LEVEL INDICATOR DETAIL L**  
NOT TO SCALE



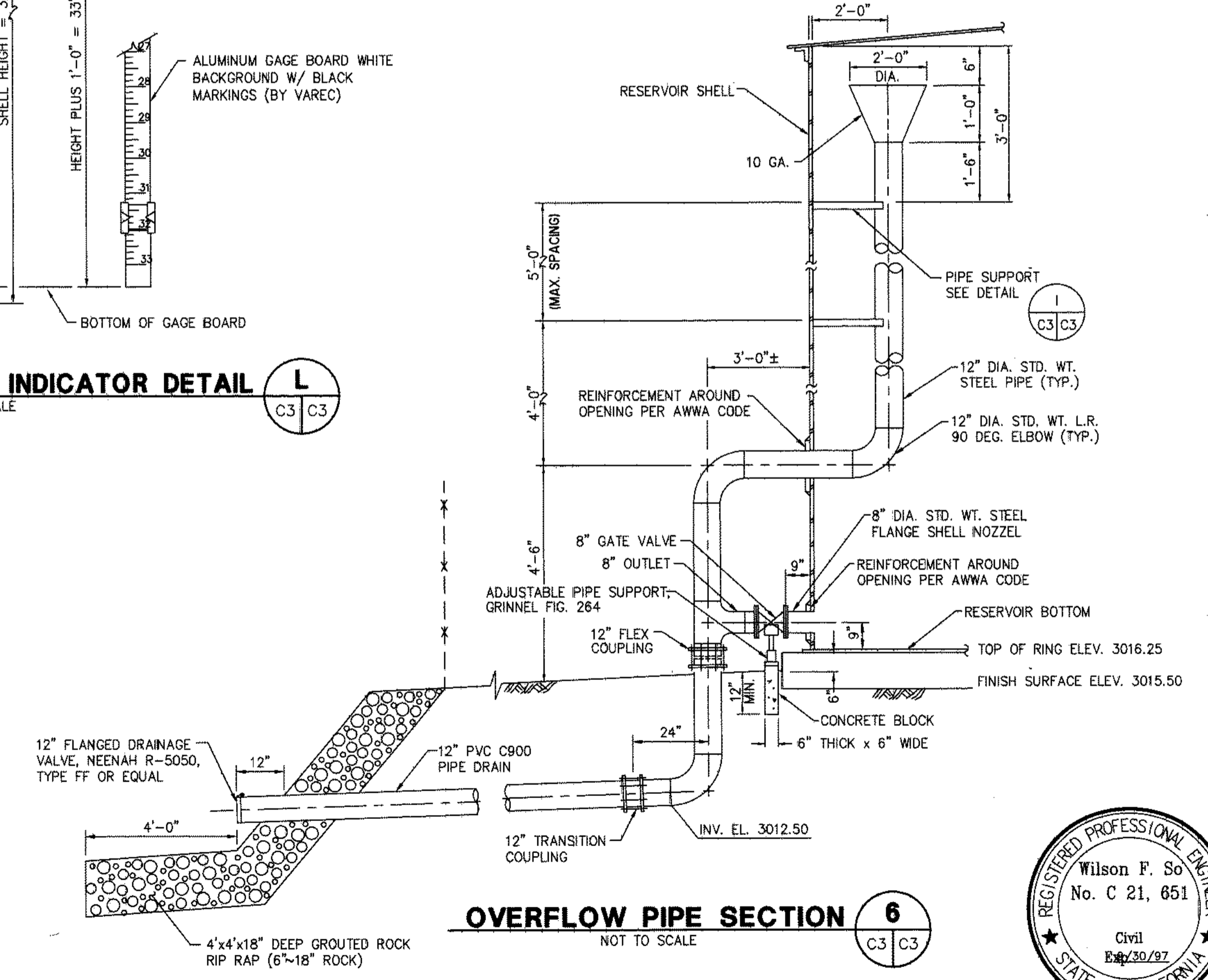
**SHUT-OFF VALVE DETAIL J**  
NOT TO SCALE



**ROOF VENT DETAIL M**  
NOT TO SCALE



**ROOF HATCH DETAIL K**  
NOT TO SCALE



**OVERFLOW PIPE SECTION 6**  
NOT TO SCALE



DESIGNED BY: T.E.R.	PROJECT ENGINEER: <i>G. Marti</i>	PREPARED BY: <i>G. Marti</i>	APPROVED BY: <i>Wilson F. So</i>	SCALE: AS SHOWN	COUNTY SERVICE AREA 64	SHEET 5
DRAWN BY: G.C./J.C.	R.C.E. No. 11-20-95	DATE 11-20-95	SPECIAL DISTRICTS	DATE 11-20-95	COUNTY OF SAN BERNARDINO	OF 5
CHECKED BY: <i>mp</i>	SUBMITTED BY DISTRICT ENGINEER: <i>Wilson F. So</i>	DATE 11-14-95	WILSON F. SO	DATE 11-12-95	SPECIAL DISTRICTS DEPARTMENT	DRAWING NO. C-3
REV.	REVISION	DESCRIPTION	BY	DATE	CSA 64 RESERVOIR 2B	
					MISCELLANEOUS DETAILS	