

INFORMATION ON DRAWINGS MAY NOT BE ACCURATE, CONSULTANT TO UPDATE BASED ON LATEST AS-BUILTS AND UTILITY INFORMATION (NOTE, STATIONING ON AS-BUILTS ARE DIFFERENT FROM THESE PLAN AND PROFILES, USE RELATIVE STATIONING OR REFERENCE MONUMENTS)

SLIPLINE PITS ARE ILLUSTRATIVE ONLY, CONSULTANT WILL NEED TO DESIGN PIT LOCATIONS.

**SOUTH INTERCEPTOR  
COLISEUM REHABILITATION**

CONTRACT DOCUMENTS

VOLUME III  
DRAWINGS

AUGUST 2023  
SPECIFICATION SD456



EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT NO. 1  
OAKLAND, CALIFORNIA

Recommended \_\_\_\_\_  
Garin D. Warren  
Manager of Wastewater Engineering Division  
R.P.E. No. C65259

Approved \_\_\_\_\_  
Amit Mutsuddy  
Director of Wastewater  
R.P.E. No. C68285

USER: \$USER\$  
DATE: \$DATE\$  
FILE: \$FILE\$

**INDEX OF DRAWINGS**

SHEET NO.	DRAWING NO.	REV. NO.	DRAWING TITLE
<b>PROJECT DRAWINGS</b>			
1	SD456-G001	0	COVER SHEET
		0	INDEX OF DRAWINGS, GENERAL NOTES, LOCATION AND VICINITY MAP
<b>CIVIL</b>			
2	SD456-W0600-C042	0	ENLARGED PARTIAL SITE PLAN, REHABILITATION LOCATIONS, CIVIL NOTES
3	SD456-W0600-C-103	0	PLAN AND PROFILE STA 24+00 TO STA 36+00, MANHOLE S06
4	SD456-W0600-C104	0	PLAN AND PROFILE STA 36+00 TO STA 48+00, MANHOLE S07, S08
5	SD456-W0600-C105	0	PLAN AND PROFILE STA 48+00 TO STA 60+00, MANHOLE S09
6	SD456-W0600-C106	0	PLAN AND PROFILE STA 60+00 TO STA 72+00, MANHOLE S10
7	SD456-W0600-C107	0	PLAN AND PROFILE STA 72+00 TO STA 84+00, MANHOLE S11
8	SD456-W0600-C108	0	PLAN AND PROFILE STA 84+00 TO STA 96+00, MANHOLE S12 S13
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10	SD456-W0600-C110	0	PLAN AND PROFILE STA 108+00 TO STA 120+00, MANHOLE S15 S16
11	SD456-W0600-C204.11	0	STANDARD MANHOLE 42" I.D. AND 63" I.D. PIPE
12	SD456-W0600-C206.10	0	MANHOLE S10
13	SD456-W0600-C207.10	0	MANHOLE S11
14	SD456-W0600-C208.10	0	MANHOLE S12
15	SD456-W0600-C208.20	0	MANHOLE S13
16	SD456-W0600-C209.10	0	MANHOLE S14
17	SD456-W0600-C303.10	0	MANHOLE S06
18	SD456-W0600-C304.10	0	MANHOLE S07
19	SD456-W0600-C304.20	0	MANHOLE S08
20	SD456-W0600-C305.10	0	MANHOLE AND ELMHURST OVERFLOW STRUCTURE S09 1 OF 2
21	SD456-W0600-C305.11	0	MANHOLE AND ELMHURST OVERFLOW STRUCTURE S09 2 OF 2
22	SD456-W0600-C310.10	0	MANHOLE S15
<b>MECHANICAL</b>			
23	SD456-W0600-M101	0	TEMPORARY SODIUM HYPOCHLORITE FEED SYSTEM
<b>INSTRUMENTATION</b>			
24	SD456-W0600-I101	0	TEMPORARY SODIUM HYPOCHLORITE FEED SYSTEM
<b>REFERENCE DRAWINGS</b>			
VG856 TO VG865		0	SOUTH INTERCEPTOR PLAN AND PROFILE

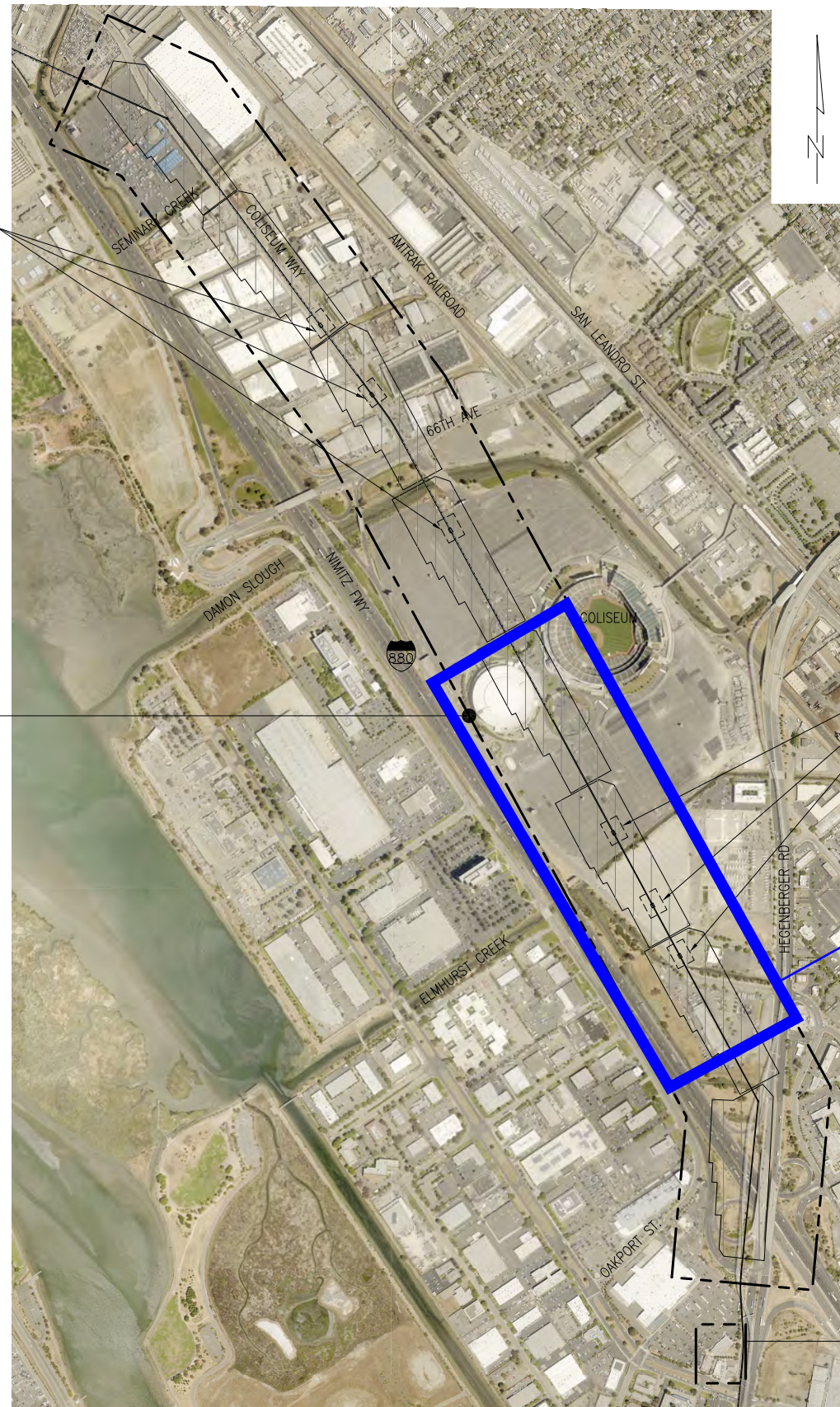
**GENERAL NOTES**

- ITEMS SHOWN IN BLACK ON DRAWINGS INDICATE WORK UNDER THIS CONTRACT.
- ITEMS SHOWN IN GRAY/SCREENED REFERENCE OTHER DRAWINGS AND MAY BE FOUND IN THE ORIGINAL CONTRACT DOCUMENTS OF PAST PROJECTS.
- NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS, WHICH MAY OR MAY NOT INTERFERE WITH NEW WORK.
- PROJECT DRAWING NUMBERS ARE DEFINED AS FOLLOWS:  
SDXXX-AAA.BB-C-XXX.D WHERE:  
SDXXX = PROJECT NUMBER (3-DIGIT NUMBER FOLLOWING THE LETTERS 'SD')  
AAA = AREA CODE (3-DIGIT ALPHA/NUMERIC NUMBER FOR FACILITY OR AREA) (OMITTED WHEN NOT APPLICABLE)  
BB = SUBSTRUCTURE NUMBER (NUMBER FOR STRUCTURE WITHIN FACILITY OR AREA) (OMITTED WHEN NOT APPLICABLE)  
C = DISCIPLINE CODE LETTER  
A - ARCHITECTURAL      I - INSTRUMENTATION (P&ID)  
C - CIVIL                      L - LANDSCAPE  
E - ELECTRICAL              M - MECHANICAL  
G - GENERAL                S - STRUCTURAL  
XXX = SERIAL NUMBER (MAY INCLUDE A DECIMAL AND/OR LETTER SUFFIX)  
D = ADDITIONAL INFORMATION CODE LETTER  
D - DEMOLITION DRAWING (OMITTED WHEN NOT APPLICABLE)
- AREA CODES AND SUBSTRUCTURE NUMBERS ARE DEFINED AS FOLLOWS:  
SD392 - MULTIPLE PROJECT AREAS  
W06 - SOUTH INTERCEPTOR
- IF A CALL-OUT REFERENCES A DRAWING WITH THE SAME AREA CODE AND SUBSTRUCTURE NUMBER, THE AREA CODE AND SUBSTRUCTURE NUMBER MAY BE OMITTED. ONLY THE DISCIPLINE CODE AND SERIAL NUMBER WILL BE SHOWN.
- REFERENCE DRAWINGS ARE INCLUDED TO PROVIDE INFORMATION ABOUT EXISTING CONDITIONS. REFERENCE DRAWINGS DO NOT CONTAIN INSTRUCTIONS FOR THIS PROJECT. ADDITIONALLY, ONLY SPECIFIC DRAWINGS/DETAILS CALLED OUT BY THE SD379A PROJECT DRAWINGS SHALL BE USED TO EVALUATE EXISTING CONDITIONS; OTHER INFORMATION SHOWN MAY OR MAY NOT BE CURRENT. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING INFORMATION AS REQUIRED.

POTENTIAL JACKING PIT LOCATIONS

JOB SITE

SEE DWG W06.00-C103 TO C110



PROJECT SITE

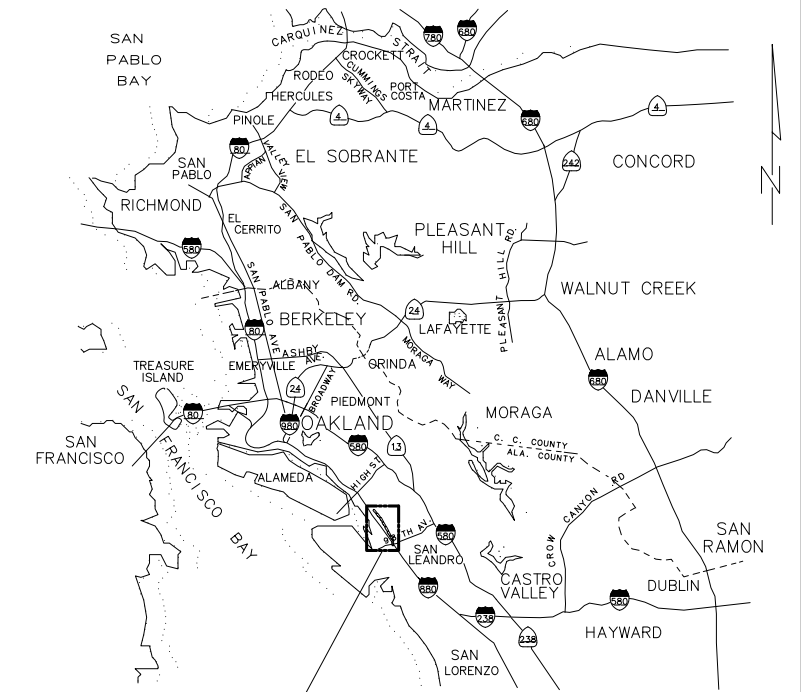
POTENTIAL JACKING PIT LOCATIONS

JOB SITE

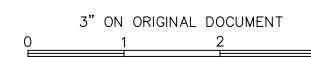
8460 EDGEWATER DR. OAKLAND, CA

**SCOPE LIMITED TO THESE SHEETS BETWEEN S07 AND S10**

**LOCATION MAP**



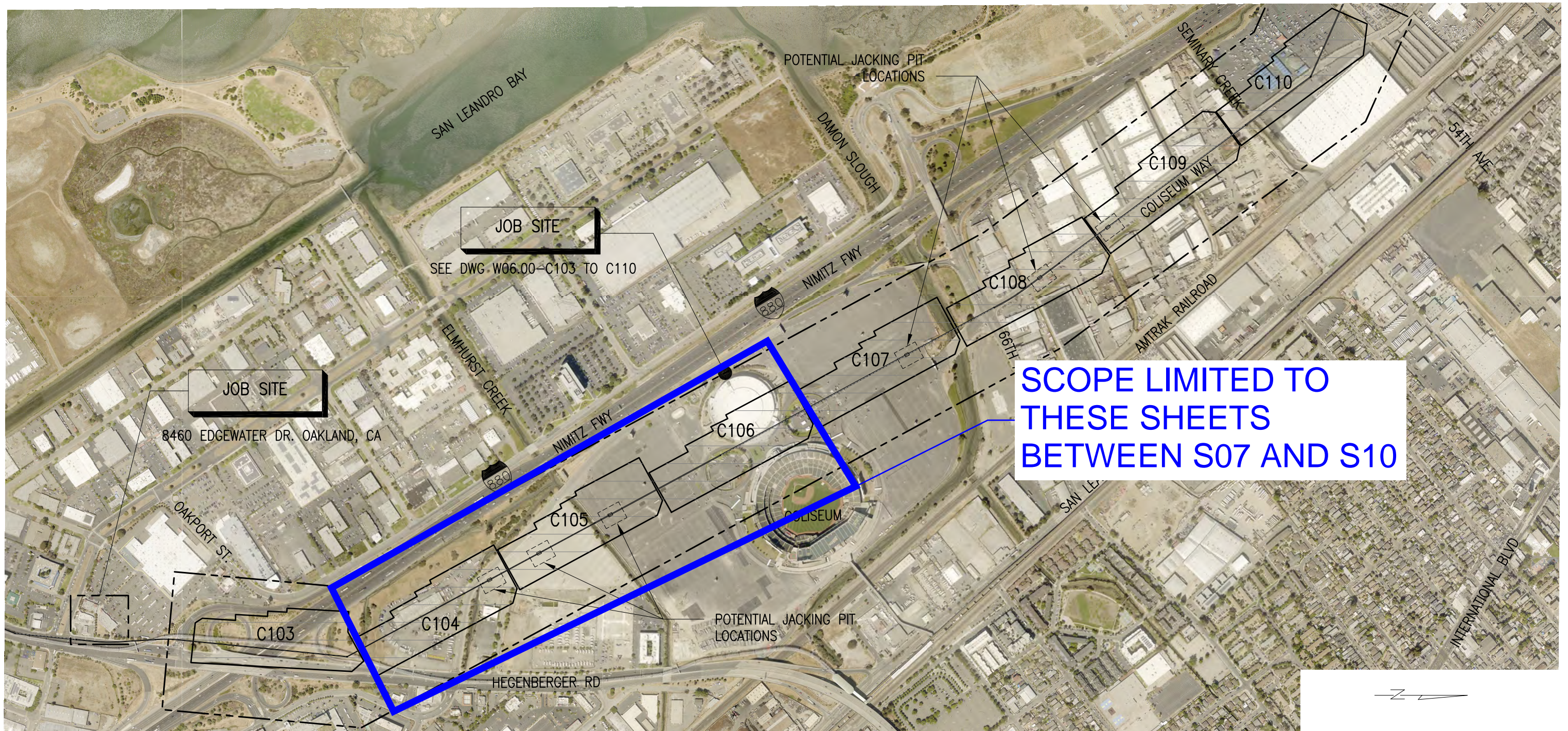
**VICINITY MAP**



NO.	DATE	REVISION	BY	REC.	APP.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN	SOUTH INTERCEPTOR	
DRAWN BY:	E. DIFUNTORUM	GENERAL GENERAL NOTES, DRAWING INDEX, LOCATION AND VICINITY MAPS	
DESIGN CHECKED BY:		SHEET NO. 1	
R.P.E. No.		SCALE 1"=1'-0"	
PROJECT MANAGER		SD456-G001	
R.P.E. No.		DRAWING NUMBER	
APPROVED:		0	
PRINCIPAL IN CHARGE		DATE JUNE 2023	
R.P.E. No.			
PROJECT MANAGER			
R.P.E. No.			
RECOMMENDED:			
SR. ENGINEER			
R.P.E. No.			

USER: edifunto  
 DATE: May 17, 2023 3:41pm  
 FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-G001\_r00.dwg - G001



**GENERAL CIVIL NOTES**

1. THE CONTRACTOR SHALL PROVIDE THE MEANS AND METHODS TO PROTECT ALL EXIST IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL RESTORE, AT CONTRACTOR'S EXPENSE, DAMAGED OR TEMPORARILY RELOCATED IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN THEY WERE PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH CONTRACT DOCUMENTS AND THE REQUIREMENTS OF THE OWNERS OF THE IMPROVEMENTS.
2. STATIONS SHOWN IN THE DRAWINGS ARE BASED ON THE PROJECT MAPPING. SURVEY STATIONS SHOWN FOR MANHOLES REFER TO THE CENTERLINES OF THE MANHOLE STRUCTURES. STATIONS SHOWN IN PARENTHESES ARE TAKEN DIRECTLY FROM RECORD DRAWINGS OF THE ORIGINAL CONSTRUCTION AND DO NOT REFLECT CHANGES RESULTING FROM DESIGN STATION EQUATIONS NOR FROM CHANGES DURING CONSTRUCTION.
3. AERIAL MAPPING WAS COMPLETED IN 2014. ADDITIONAL IMPROVEMENTS MAY HAVE BEEN MADE SINCE THE EXISTING CONDITIONS MAPS WERE PREPARED. CONTRACTOR SHALL FIELD VERIFY SURFACE CONDITIONS PRIOR TO BID AND CONSTRUCTION.
4. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM REGULATORY AGENCIES THAT ARE NOT ALREADY PROVIDED BY THE DISTRICT.
5. PIPE LENGTHS SHOWN IN THE PLANS ARE THE APPROXIMATE HORIZONTAL DISTANCES BETWEEN CENTER LINE OF MANHOLES.
6. SETTLEMENT OF EXCAVATION PAVEMENT ASSOCIATED WITH THE WORK OCCURRING WITHIN A PERIOD OF ONE YEAR AFTER COMPLETION OF THE WORK SHALL BE REPAVED AND RESURFACED TO CORRECT GRADE AND SUBGRADE DEFICIENCIES, AT CONTRACTOR'S OWN EXPENSE. THIS REWORK SHALL BE TO THE SATISFACTION OF THE CITY AND DISTRICT.

**ENLARGED SITE PLAN**

7. CONTRACTOR SHALL NOT REUSE MANHOLE FRAMES AND COVERS.
8. ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED BEFORE ORDERING OR FABRICATING ANY MATERIAL. RECORD DRAWINGS ARE AVAILABLE AT DISTRICT OFFICE FOR CONTRACTOR INFORMATION.
9. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:
 

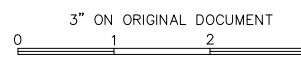
**WARNING:** SEWERS ARE KNOWN TO HAVE HIGH CONCENTRATIONS OF HAZARDOUS GASES. ATMOSPHERES IN SEWERS MAY ALSO HAVE LOW OXYGEN LEVELS AND EXPLOSIVE GASES. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AND ALL NECESSARY PRECAUTIONS.

**WARNING:** THE WASTEWATER CONTAINS INFECTIOUS DISEASE VECTORS. CONTRACTOR SHALL PROTECT AGAINST HUMAN CONTACT WITH THE WASTEWATER AND PROVIDE SUITABLE CLEAN UP FACILITIES FOR ITS WORKERS, AND DISTRICT PERSONNEL.

**WARNING:** WASTEWATER FLOW IS SUBJECT TO RAPID INCREASES AND DECREASES IN RATE DUE TO OPERATION OF PUMP STATIONS, DIURNAL FLOWS, AND WET WEATHER. CHANGES IN FLOW CAN BE ACCOMPANIED BY CHANGES IN HAZARDOUS GAS LEVELS.

**WARNING:** CONCRETE SEWERS ARE CORRODED AND LOOSE CONCRETE MAY FALL.

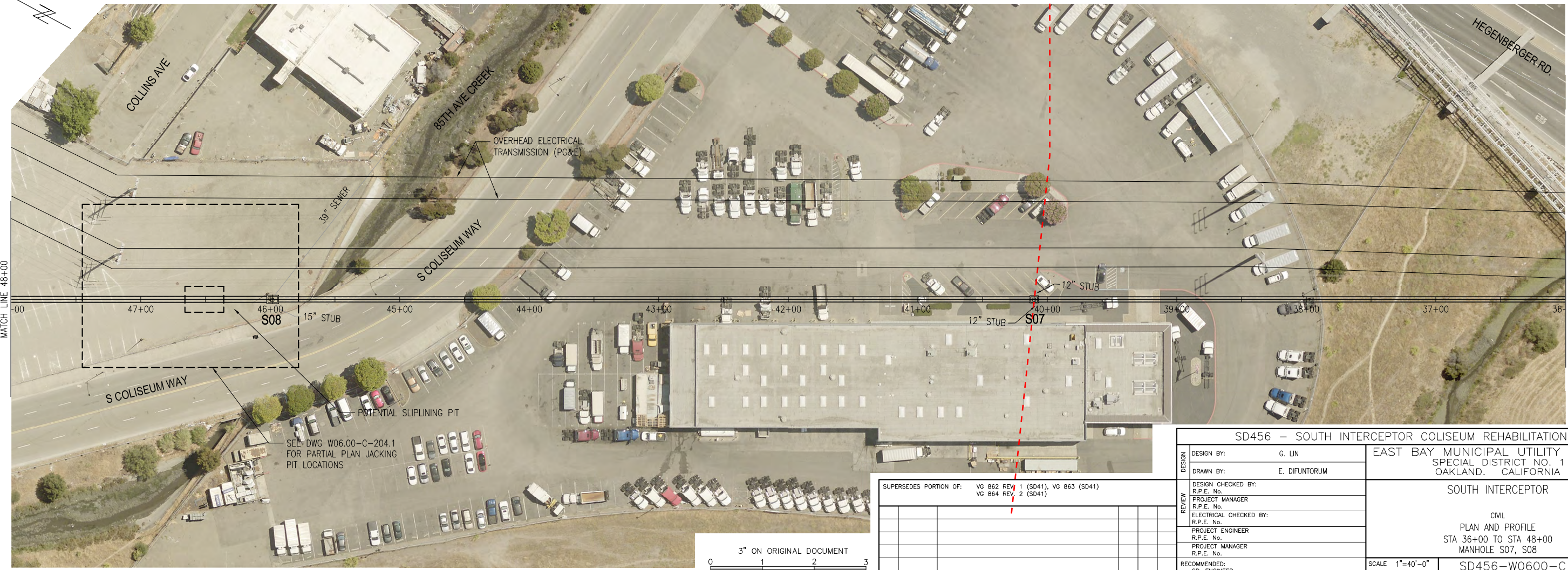
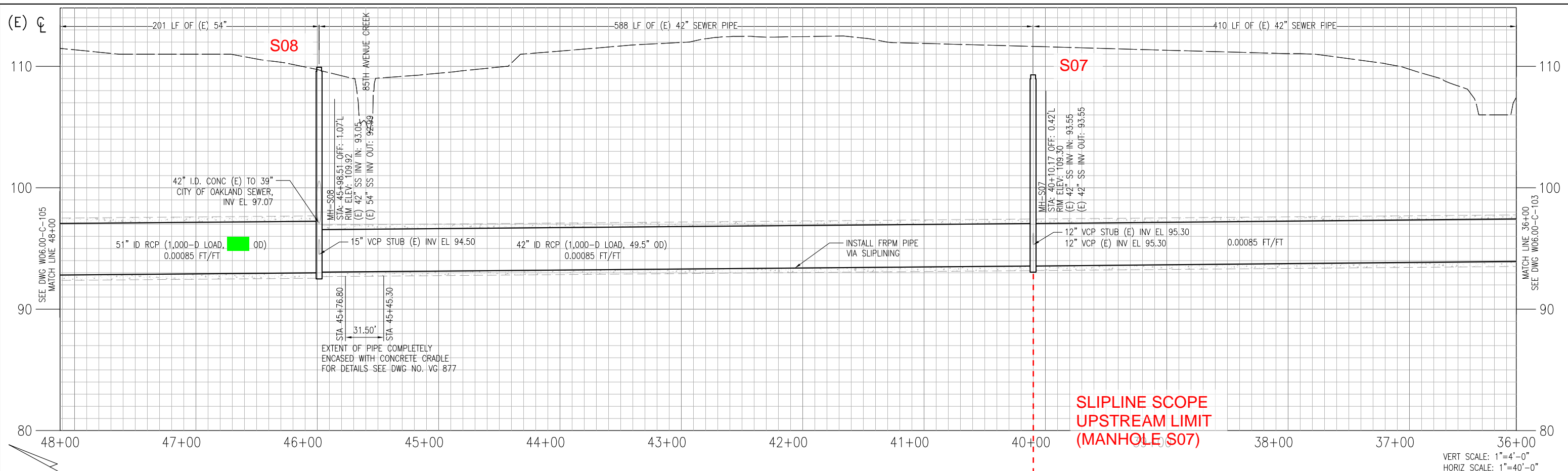
10. UNDERGROUND UTILITIES SHOWN ARE INCOMPLETE. CONTRACTOR SHALL NOTIFY USA AND CALTRANS (WHERE APPLICABLE) AT LEAST FOUR DAYS PRIOR TO ANY EXCAVATION TO OBTAIN FIELD MARKUPS. CONTRACTOR SHALL POTHOLE AND PROTECT EXISTING UTILITIES.
11. LATERALS FROM COMMUNITY SEWER SYSTEM EXIST AT MANHOLES AND AT LOCATIONS IN BETWEEN MANHOLES. ALL FIELD CONDITIONS SHALL BE VERIFIED BEFORE ORDERING OR FABRICATING ANY MATERIALS.
12. INTERCEPTOR MH HAVE SURVEY MONUMENTS LOCATED NEARBY. CONTRACTOR SHALL PROTECT MONUMENTS. DISTURBED MONUMENTS SHALL BE REFERENCED AND RE-ESTABLISHED BY A LICENSED LAND SURVEYOR.
13. THE DATUM FOR VERTICAL CONTROL IS NGVD29 MINUS 100'-FT.



NO.	DATE	REVISION	BY	REC.	APP.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA
DESIGN BY:	G. LIN	
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR
DESIGN CHECKED BY:	R.P.E. No.	
PROJECT MANAGER:	R.P.E. No.	GENERAL ENLARGED SITE PLAN GENERAL CIVIL NOTES
APPROVED:	PRINCIPAL IN CHARGE	
PROJECT MANAGER:	R.P.E. No.	SHEET NO. 1
RECOMMENDED:	SR. ENGINEER	SD456-W0600-C042
R.P.E. No.		
SCALE	1"=1'-0"	DRAWING NUMBER
DATE	JUNE 2023	

USER: edifunto  
 DATE: May 16, 2023 12:43pm  
 FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-W0600-C042-C042.dwg - C042



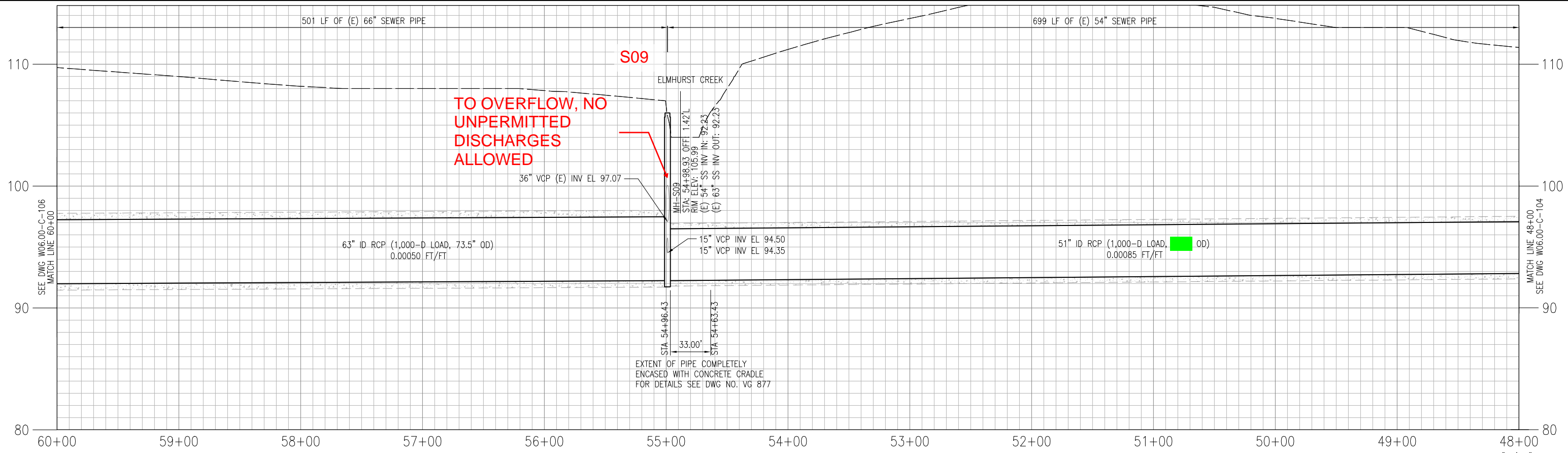
SUPERSEDES PORTION OF:

VG 862 REV 1 (SD41), VG 863 (SD41)
VG 864 REV 2 (SD41)

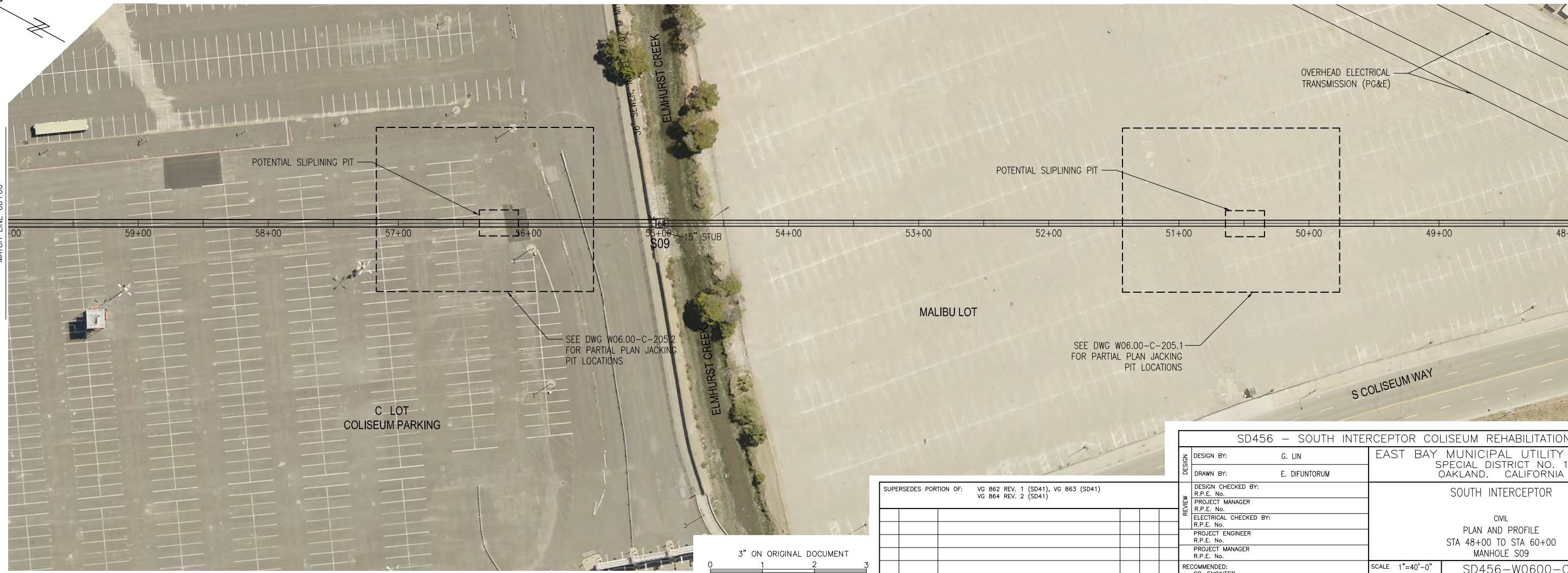
NO.	DATE	REVISION	BY	REC.	APP.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN	SOUTH INTERCEPTOR	
DRAWN BY:	E. DIFUNTORUM	CIVIL PLAN AND PROFILE STA 36+00 TO STA 48+00 MANHOLE S07, S08	
DESIGN CHECKED BY:	R.P.E. No.	SCALE 1"=40'-0"	
PROJECT MANAGER:	R.P.E. No.	SD456-W0600-C104	
ELECTRICAL CHECKED BY:	R.P.E. No.	DRAWING NUMBER	
PROJECT ENGINEER:	R.P.E. No.	DATE JUNE 2023	
PROJECT MANAGER:	R.P.E. No.	X	
RECOMMENDED:	SR. ENGINEER	REV.	
	R.P.E. No.		

USER: edfuntoro  
 DATE: May 16, 2023 2:07pm  
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VERT SCALE: 1"=4'-0"  
 HORIZ SCALE: 1"=40'-0"



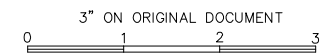
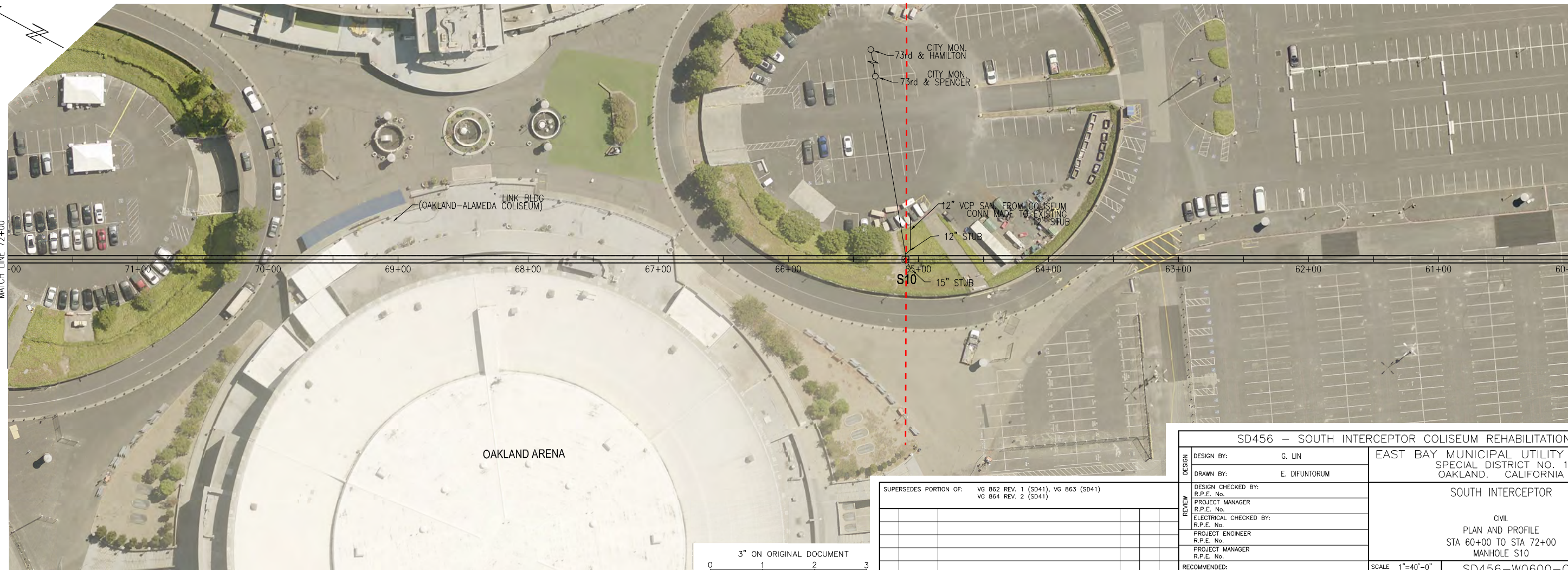
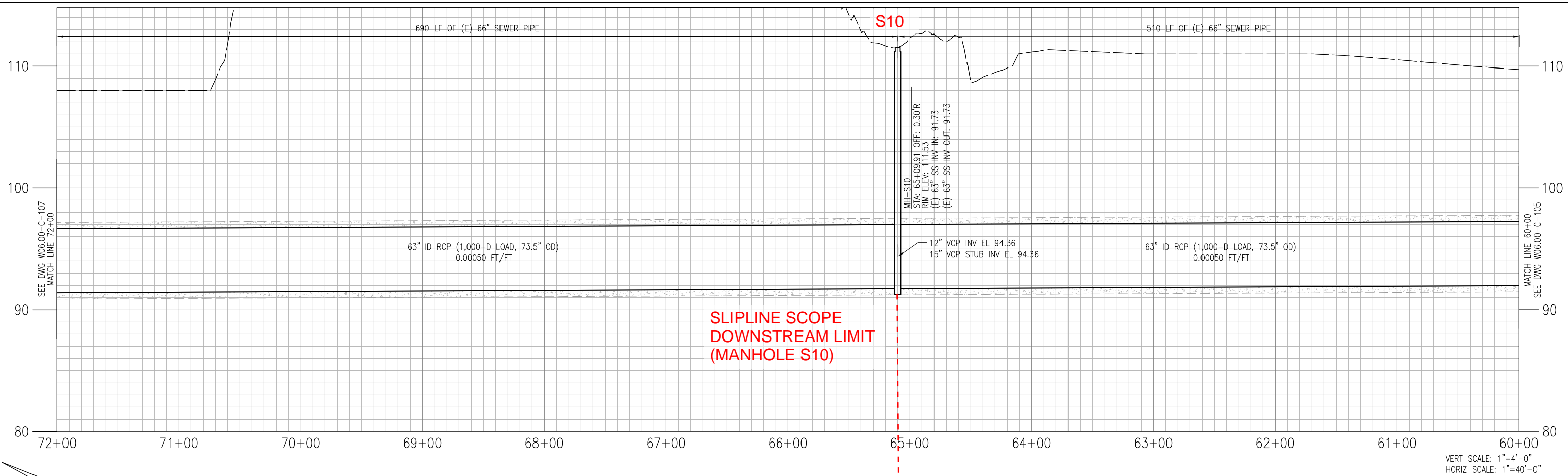
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SUPERSEDES PORTION OF:

VG 862 REV. 1 (SD41), VG 863 (SD41)
VG 864 REV. 2 (SD41)

NO.	DATE	REVISION	BY	REC.	APP.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA
DESIGN BY:	G. LIN	
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR
DESIGN CHECKED BY:	R.P.E. No.	
PROJECT MANAGER	R.P.E. No.	
ELECTRICAL CHECKED BY:	R.P.E. No.	
PROJECT ENGINEER	R.P.E. No.	CIVIL PLAN AND PROFILE STA 48+00 TO STA 60+00 MANHOLE S09
PROJECT MANAGER	R.P.E. No.	
RECOMMENDED:	SR. ENGINEER	SCALE 1"=40'-0"
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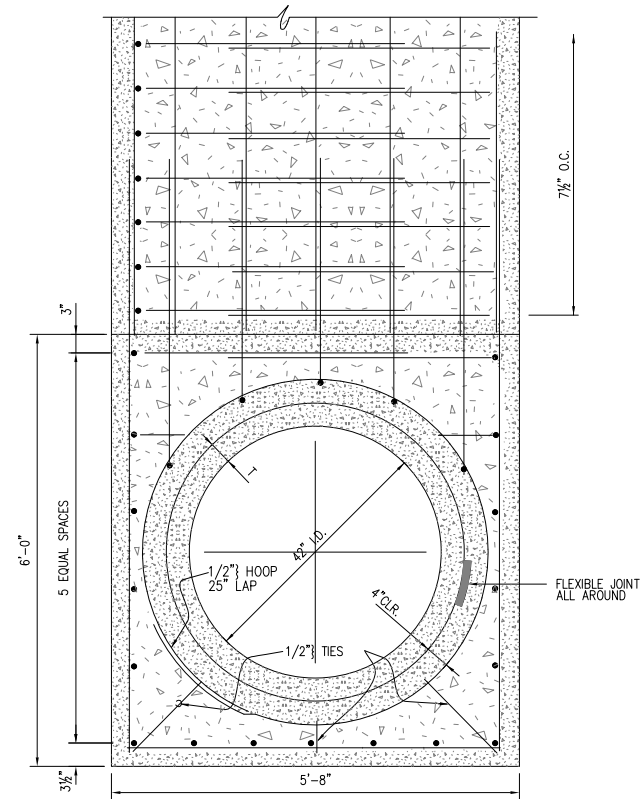


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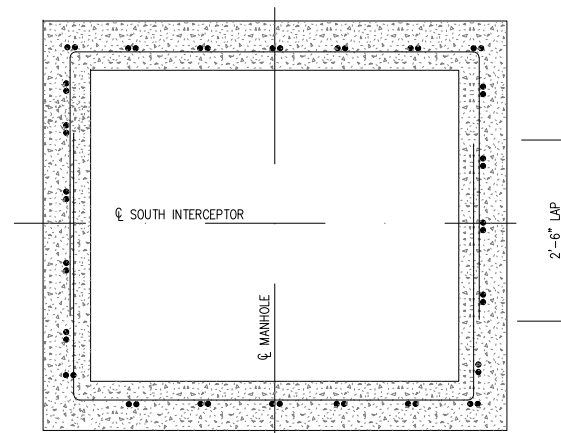
SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN		
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR	
DESIGN CHECKED BY:	R.P.E. No.		
PROJECT MANAGER	R.P.E. No.		
ELECTRICAL CHECKED BY:	R.P.E. No.		
PROJECT ENGINEER	R.P.E. No.	CIVIL PLAN AND PROFILE STA 60+00 TO STA 72+00 MANHOLE S10	
PROJECT MANAGER	R.P.E. No.		
RECOMMENDED:	SR. ENGINEER	SCALE 1"=40'-0"	
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DATE JUNE 2023		SD456-W0600-C106	X
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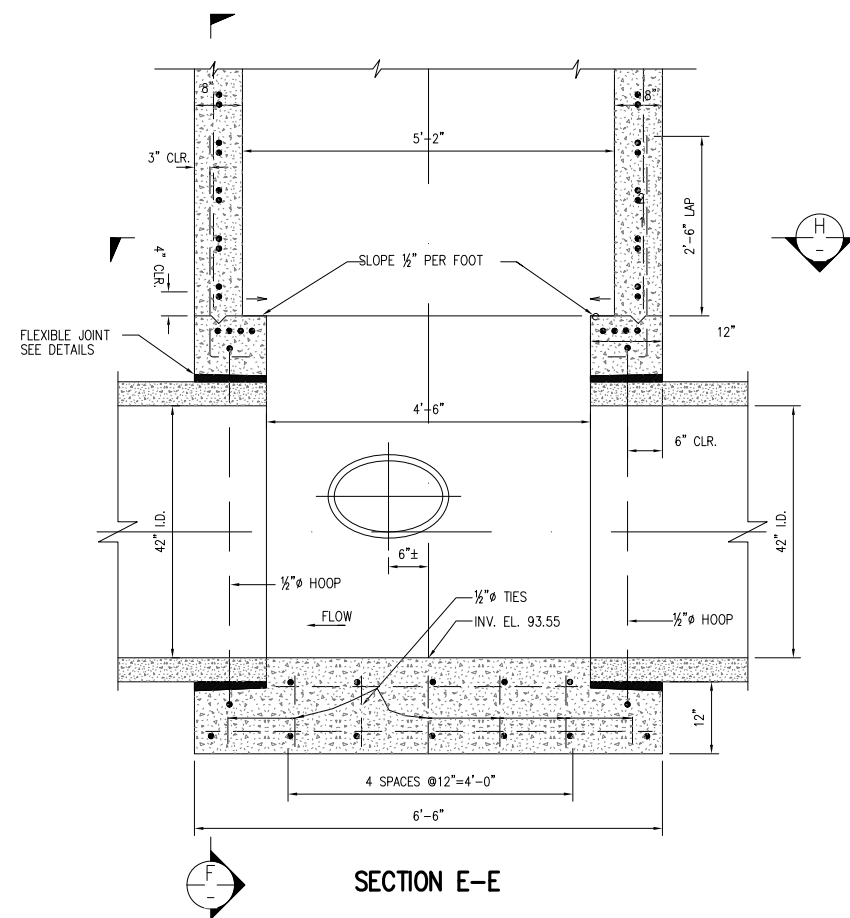
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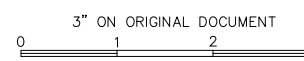
SECTION F-F



SECTION H-H



SECTION E-E

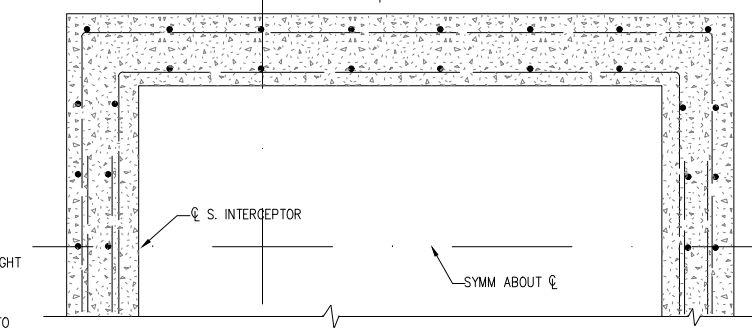
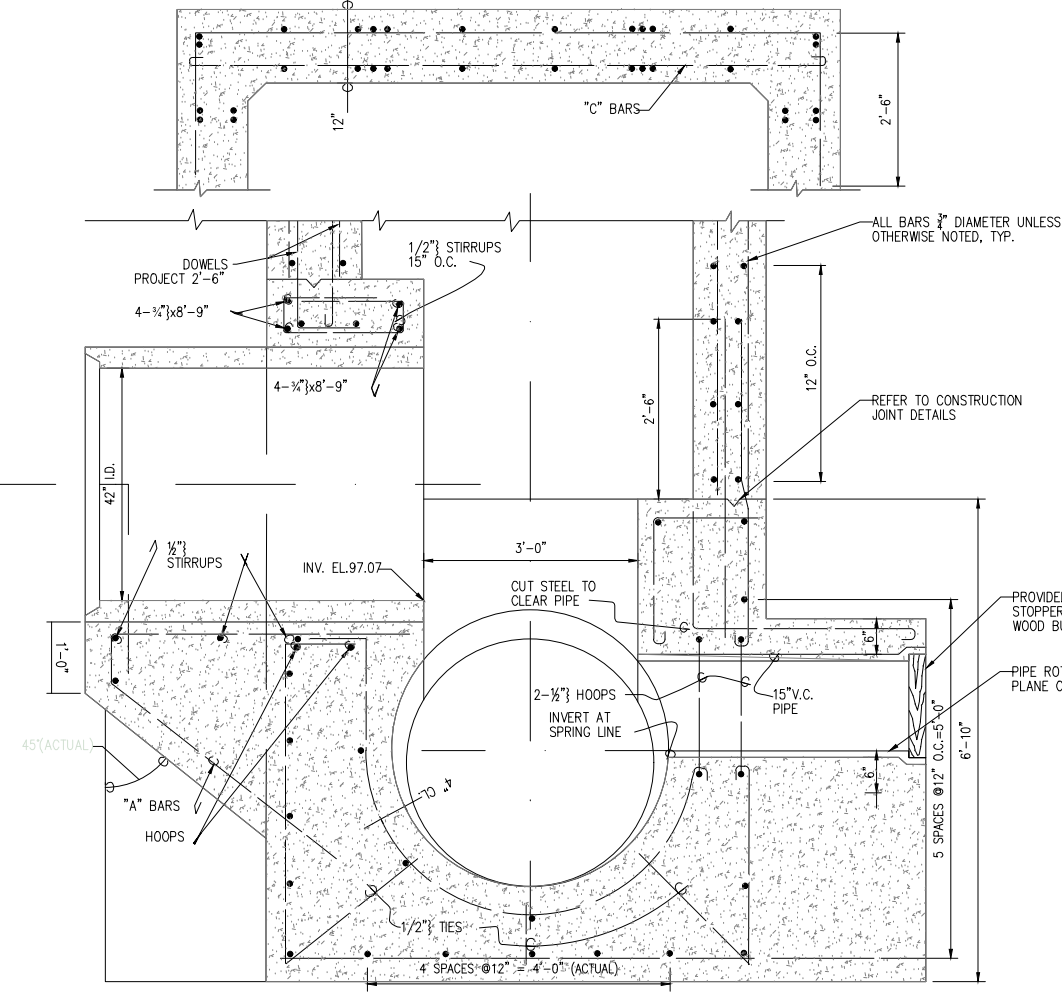
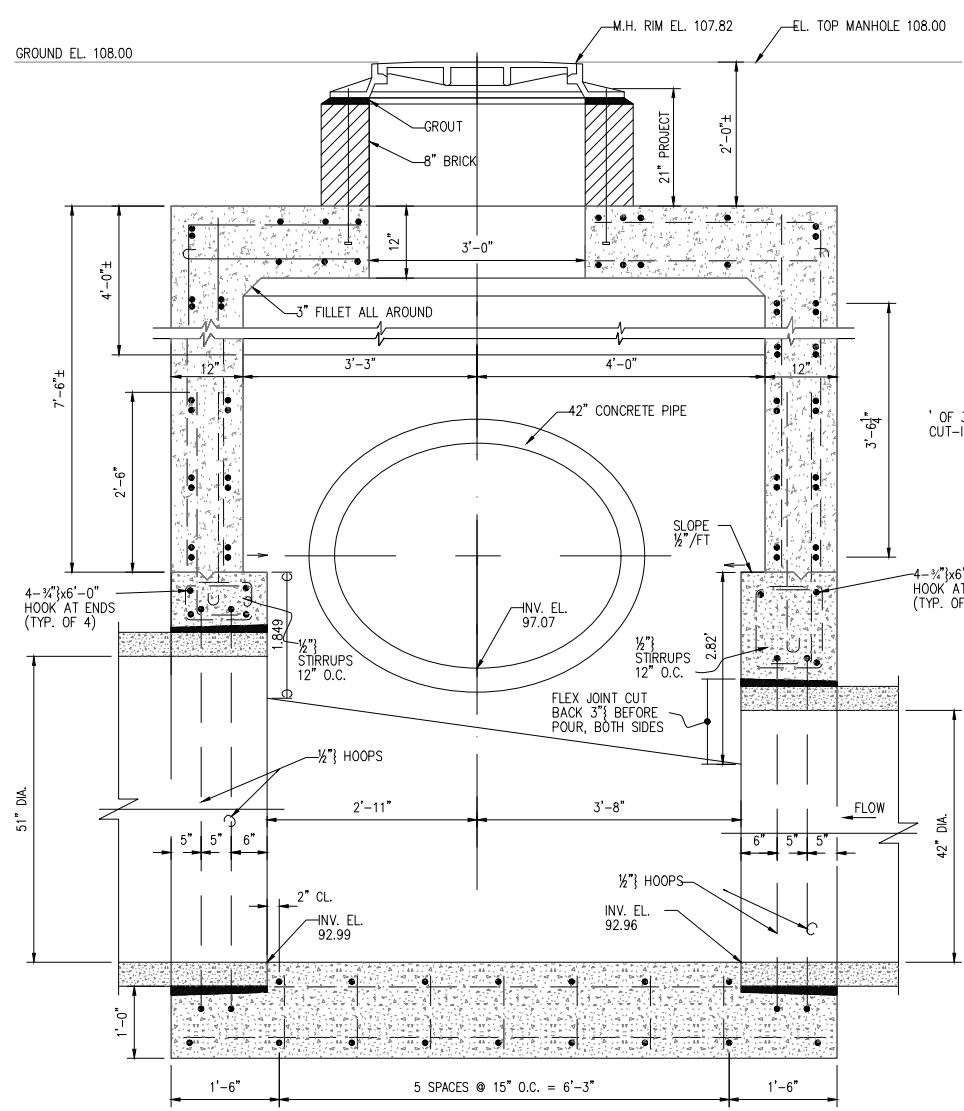
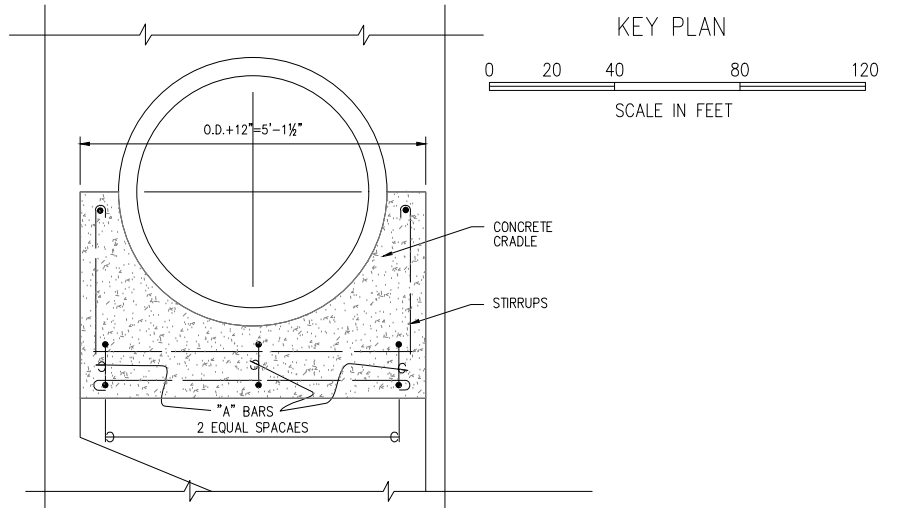
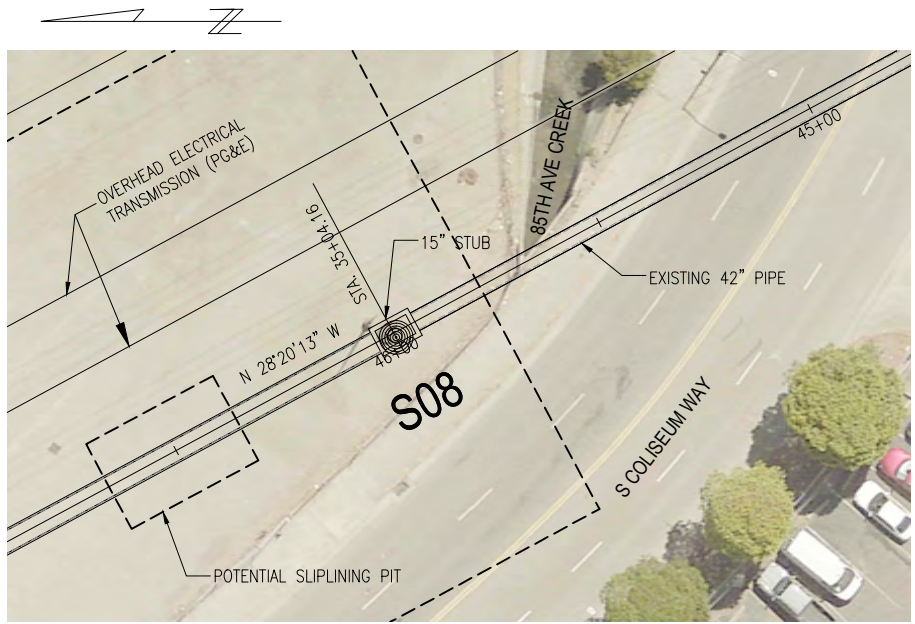
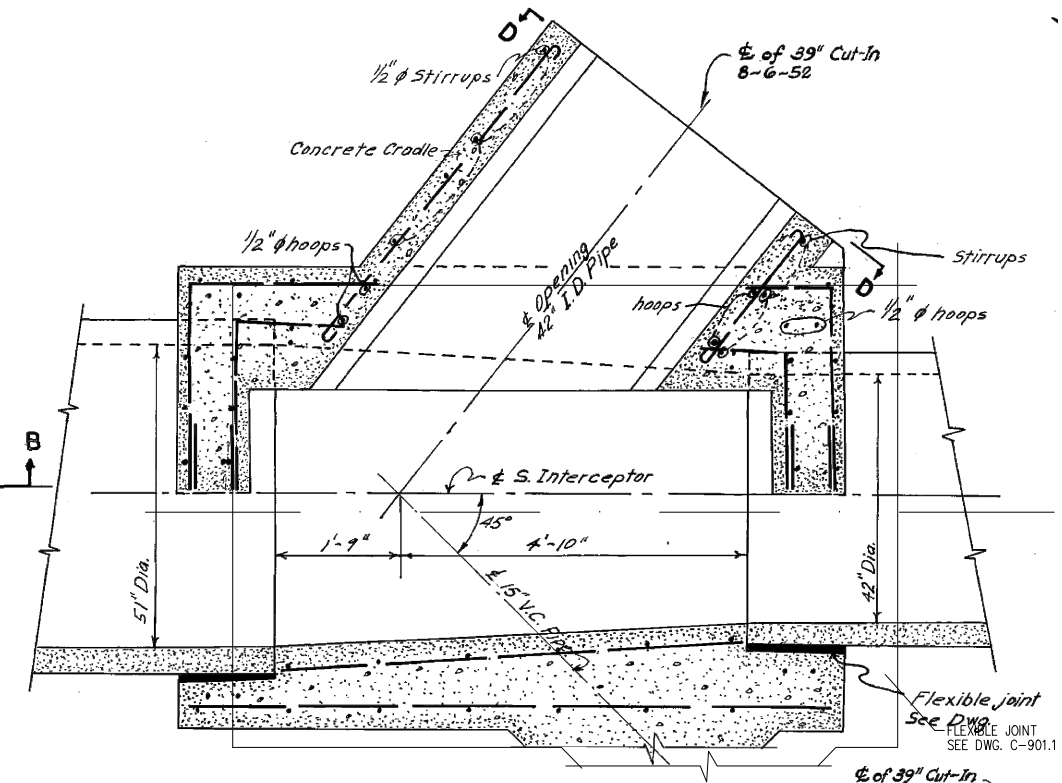
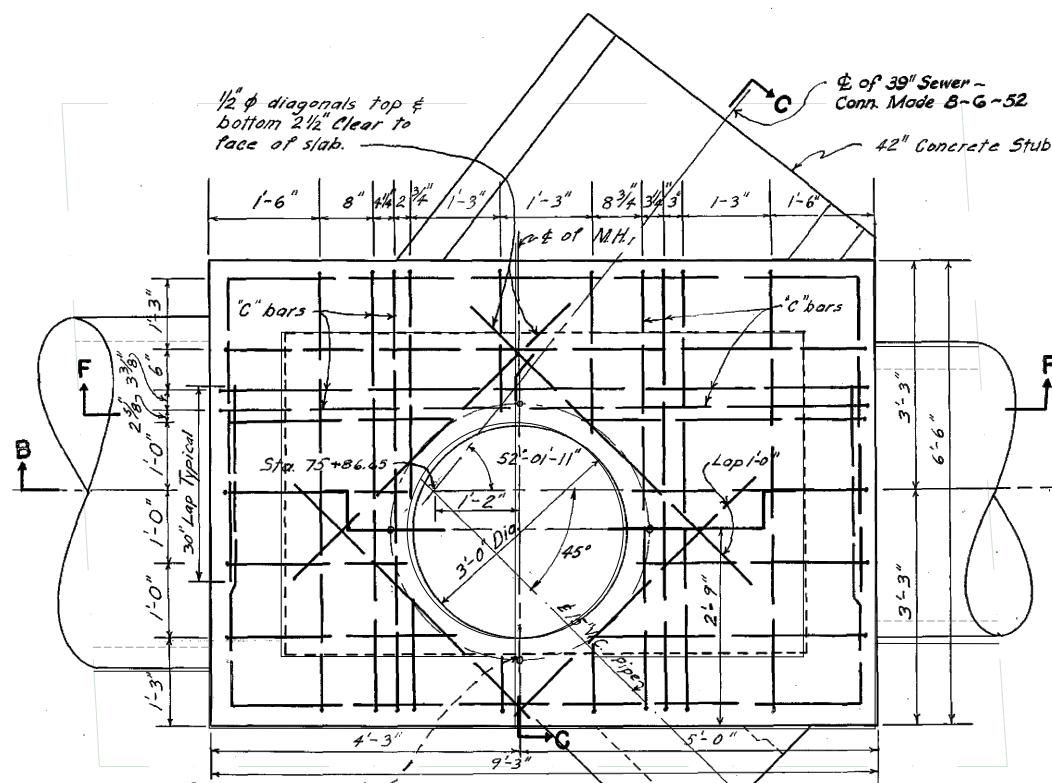


SUPERSEDES PORTION OF: VG 875.R02

NO.	DATE	REVISION	BY	REC.	APP.

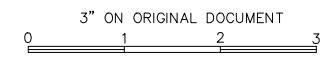
SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN	SOUTH INTERCEPTOR	
DRAWN BY:	E. DIFUNTORUM		
DESIGN CHECKED BY:	R.P.E. No.	CIVIL STANDARD MANHOLE 42" I.D. & 63" I.D. PIPE	
PROJECT MANAGER	R.P.E. No.		
ELECTRICAL CHECKED BY:	R.P.E. No.		
PROJECT ENGINEER	R.P.E. No.		
PROJECT MANAGER	R.P.E. No.		
RECOMMENDED:	SR. ENGINEER	SCALE	NONE
	R.P.E. No.	DATE	JUNE 2023
		SD456-W0600-C204.11	X
		DRAWING NUMBER	REV.

USER: edfuntio  
 DATE: May 19, 2023 11:29am  
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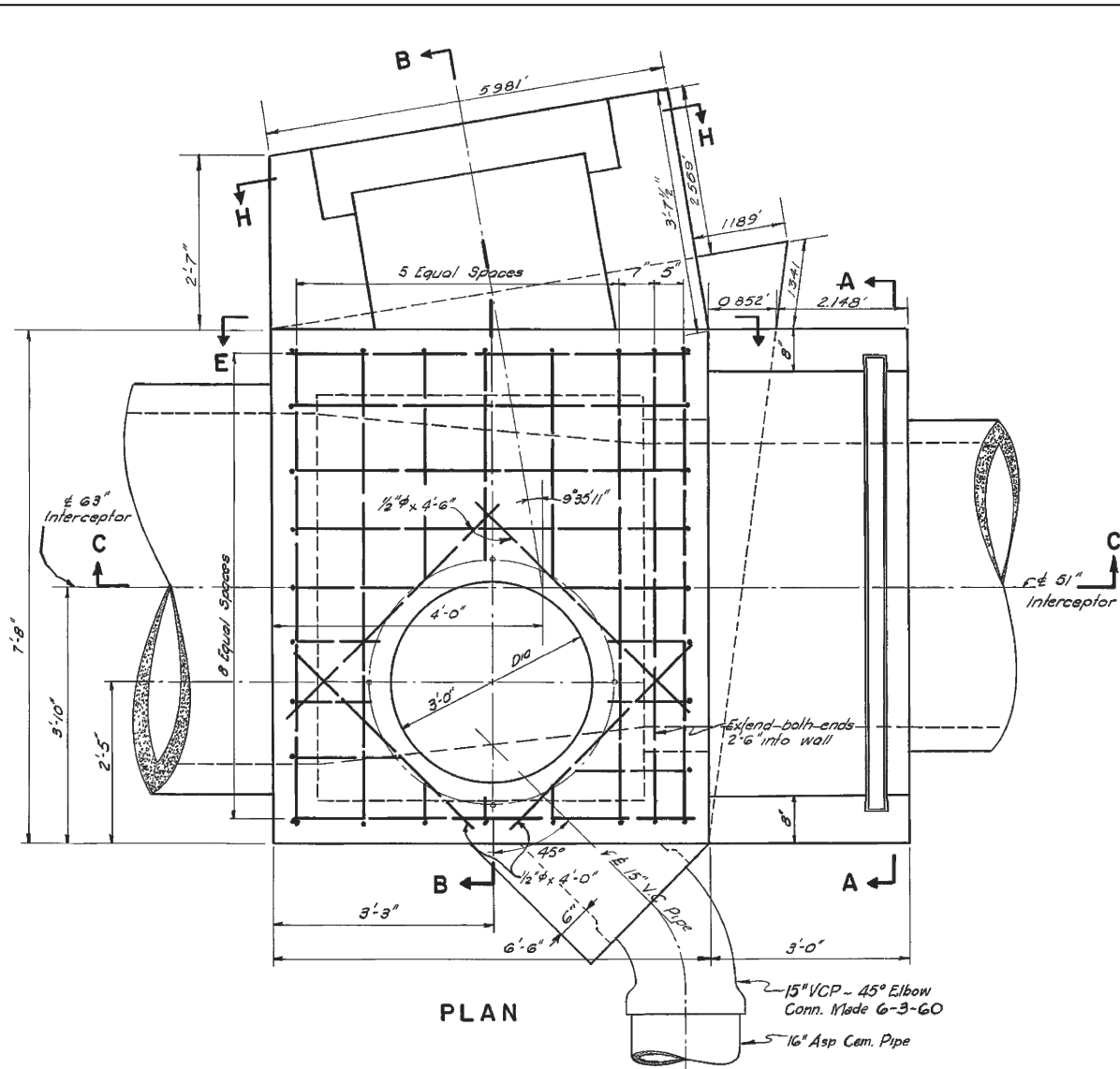
- NOTES:**
1. REINFORCING STEEL TO BE 3" CLEAR OF FACE OF CONCRETE UNLESS OTHERWISE NOTED.
  2. ALL EXTERIOR CORNERS CHAMFERED 1".
  3. PILE FOUNDATION TO BE USED ONLY IF CALLED FOR BY THE ENGINEER.
  4. REFER TO ORIGINAL SD-41 AS-BUILT FOR POTENTIAL LOCATIONS WHERE PILING WERE INSTALLED.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN	SOUTH INTERCEPTOR	
DRAWN BY:	E. DIFUNTORUM		
DESIGN CHECKED BY:	R.P.E. No.	CIVIL MANHOLE S08	
PROJECT MANAGER	R.P.E. No.		
ELECTRICAL CHECKED BY:	R.P.E. No.	SCALE NONE DATE JUNE 2023	
PROJECT ENGINEER	R.P.E. No.		
PROJECT MANAGER	R.P.E. No.	SD456-W0600-C304.20	
RECOMMENDED BY:	SR. ENGINEER	DRAWING NUMBER	
	R.P.E. No.	X	

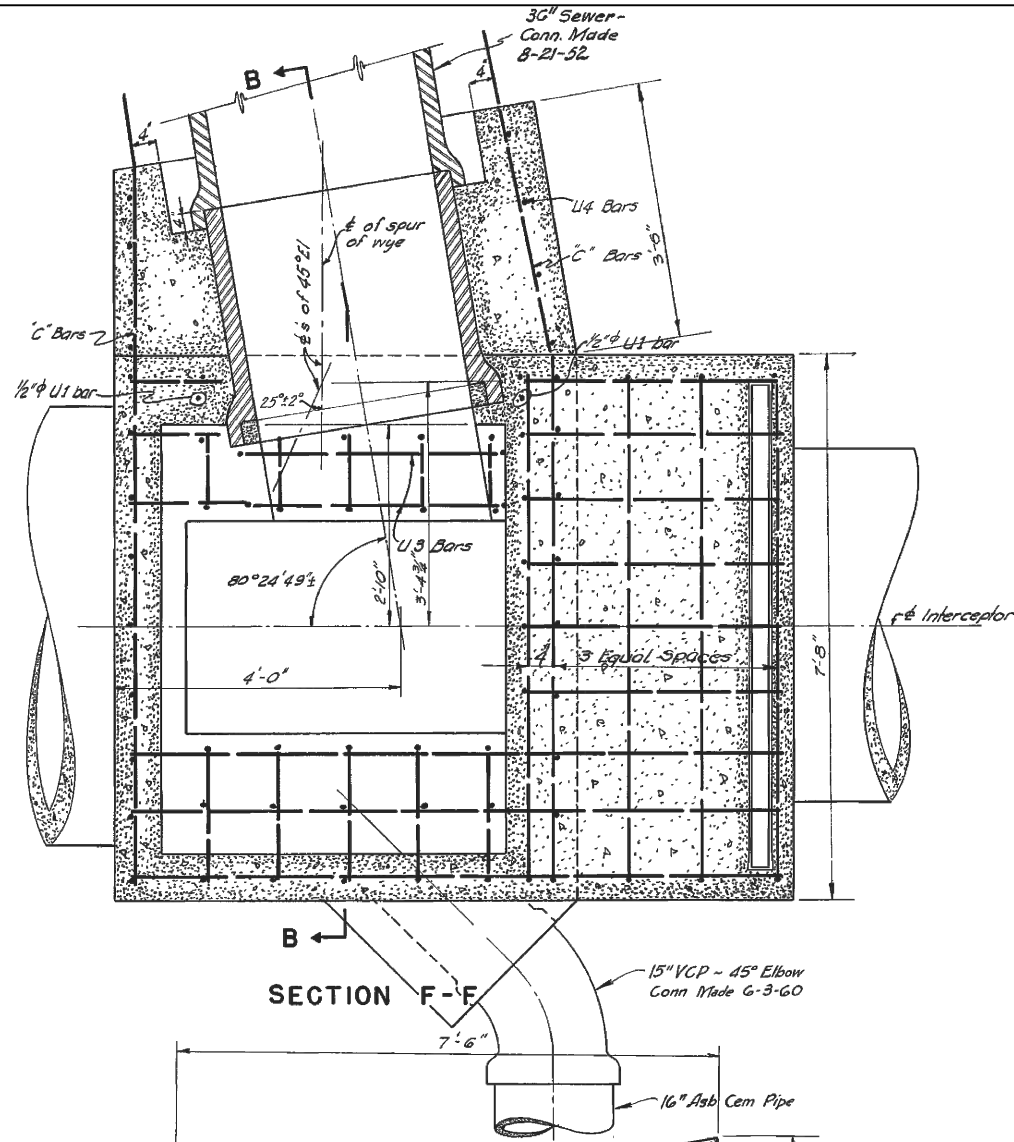


SUPERSEDES PORTION OF: VG 875.R02				
NO.	DATE	REVISION	BY	REC. APP.

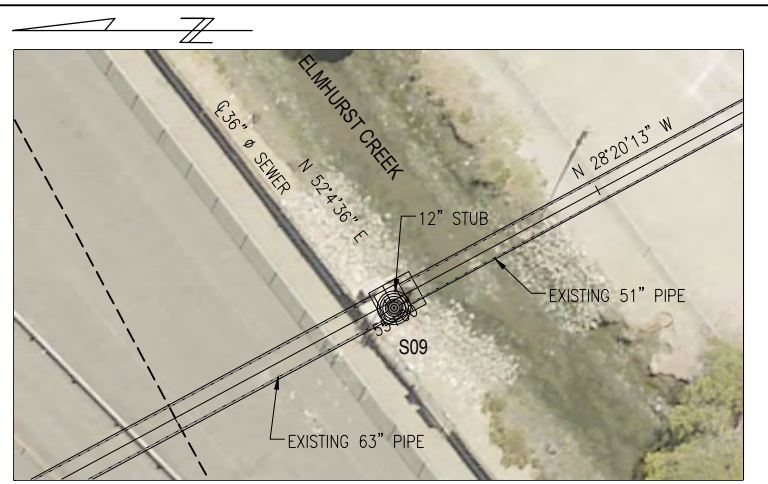




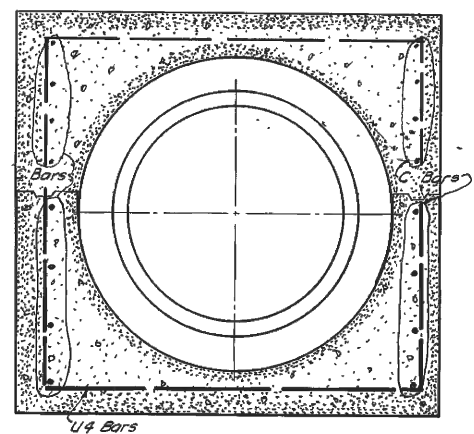
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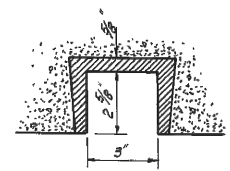
SECTION F-F



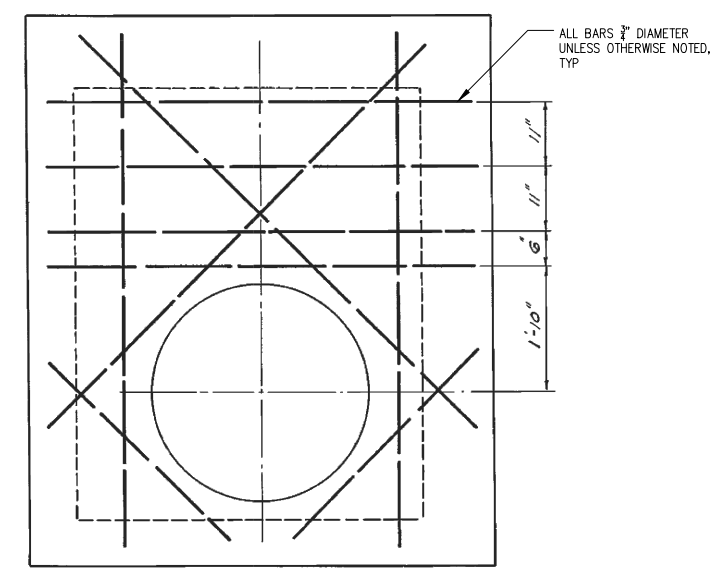
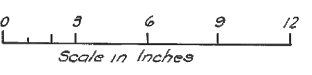
KEY PLAN



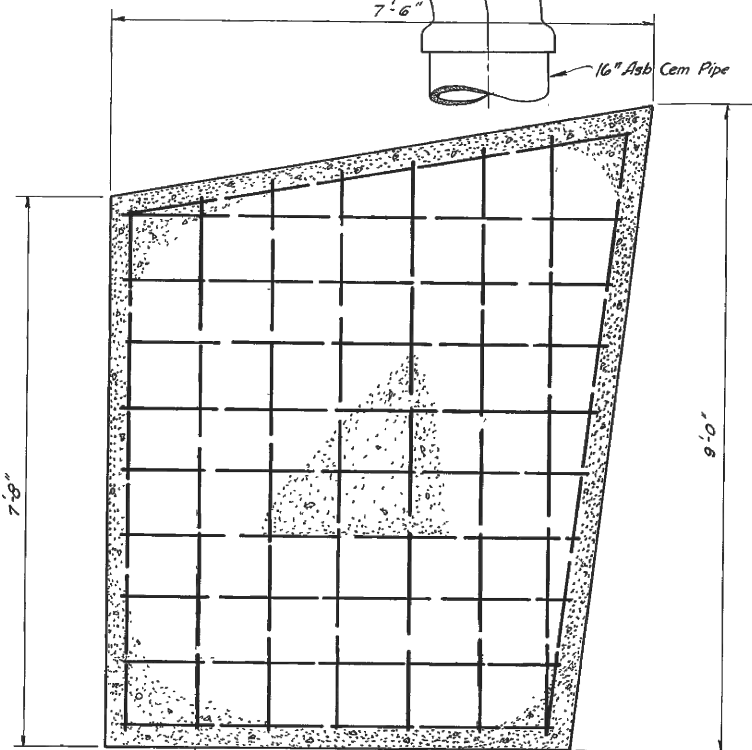
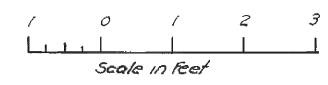
SECTION H-H



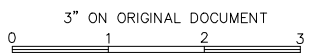
SECTION G-G



ROOF SLAB- BOTTOM BARS



SECTION J-J



NOTES:

1. REINFORCING STEEL TO BE 3" CLEAR OF FACE OF CONCRETE UNLESS OTHERWISE NOTED.
2. ALL EXTERIOR CORNERS CHAMFERED 1".
3. PILE FOUNDATION TO BE USED ONLY IF CALLED FOR BY THE ENGINEER.
4. REFER TO ORIGINAL SD-41 AS-BUILT FOR POTENTIAL LOCATIONS WHERE PILING WERE INSTALLED.

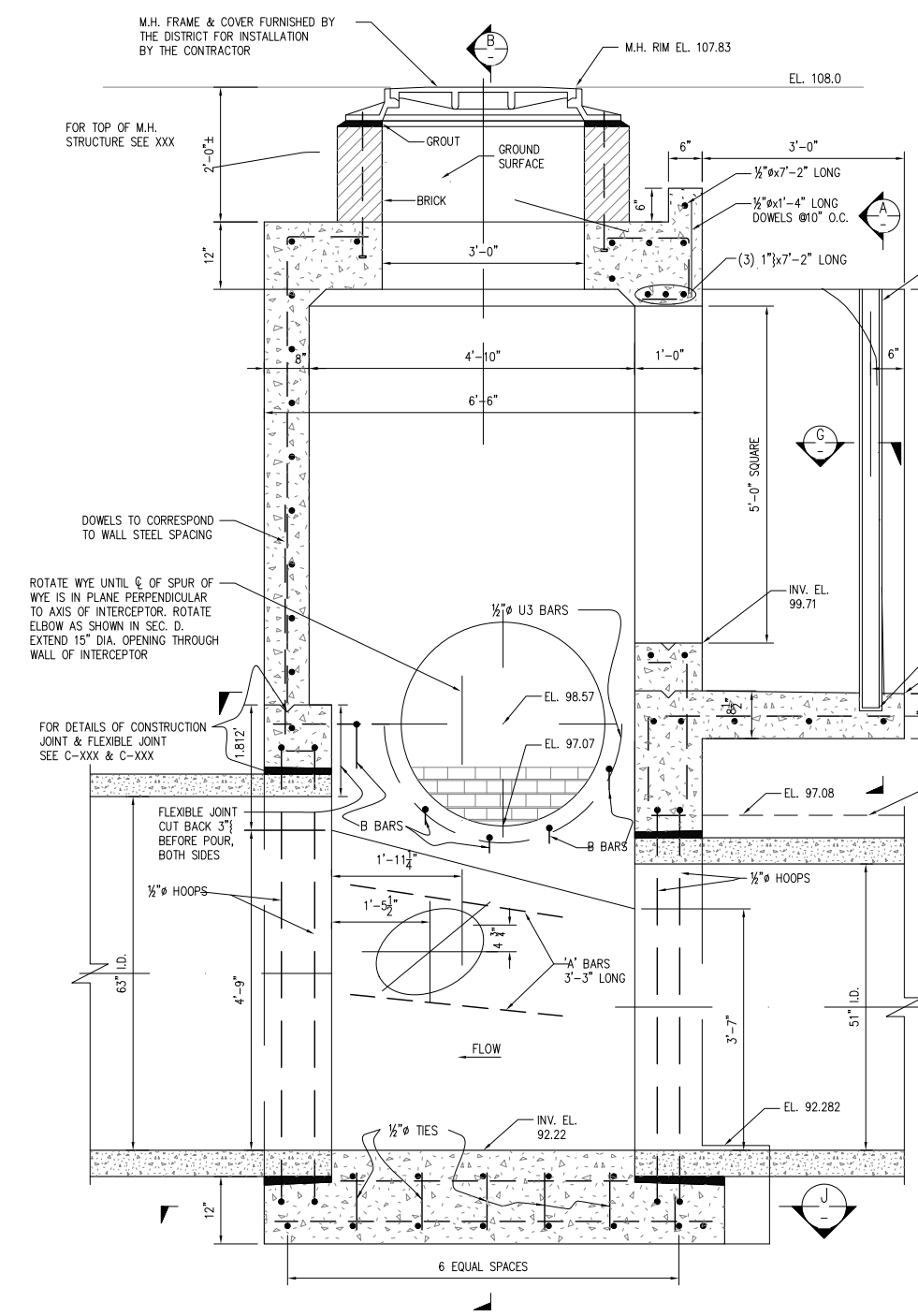
SUPERSEDES PORTION OF: VG 875.R02

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN	SOUTH INTERCEPTOR	
DRAWN BY:	E. DIFUNTORUM		
DESIGN CHECKED BY:	R.P.E. No.	CIVIL MANHOLE AND ELMHURST OVERFLOW STRUCTURE S09 1 OF 2	
PROJECT MANAGER:	R.P.E. No.		
ELECTRICAL CHECKED BY:	R.P.E. No.		
PROJECT ENGINEER:	R.P.E. No.		
PROJECT MANAGER:	R.P.E. No.	SCALE: NONE	SD456-W0600-C305.10
RECOMMENDED BY:	SR. ENGINEER	DATE: JUNE 2023	DRAWING NUMBER
	R.P.E. No.		

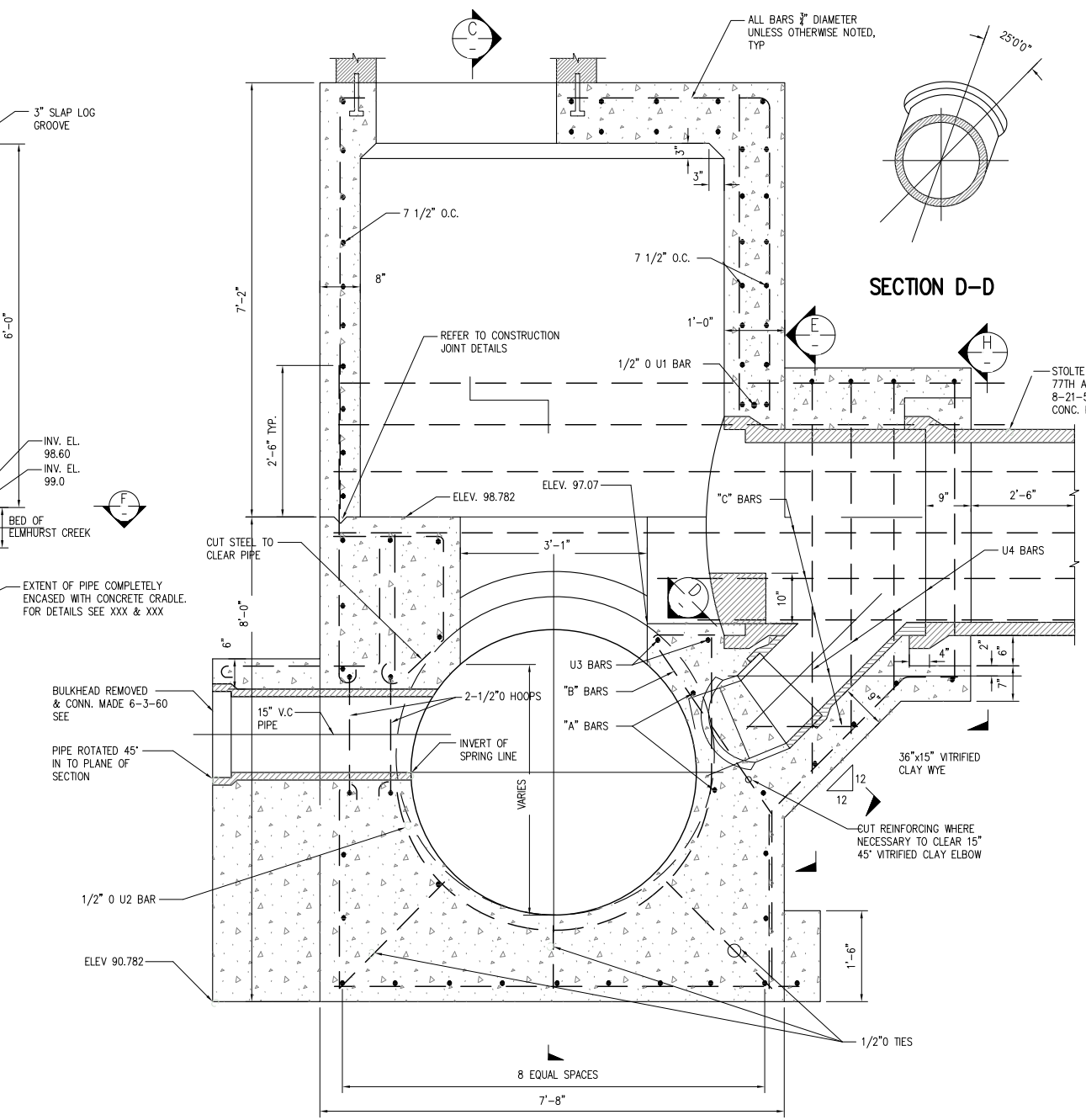
NO.	DATE	REVISION	BY	REC.	APP.

USER: edfuntom  
DATE: May 19, 2023 11:17am  
FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-W0600-C305.10\_r00.dwg - 305.10

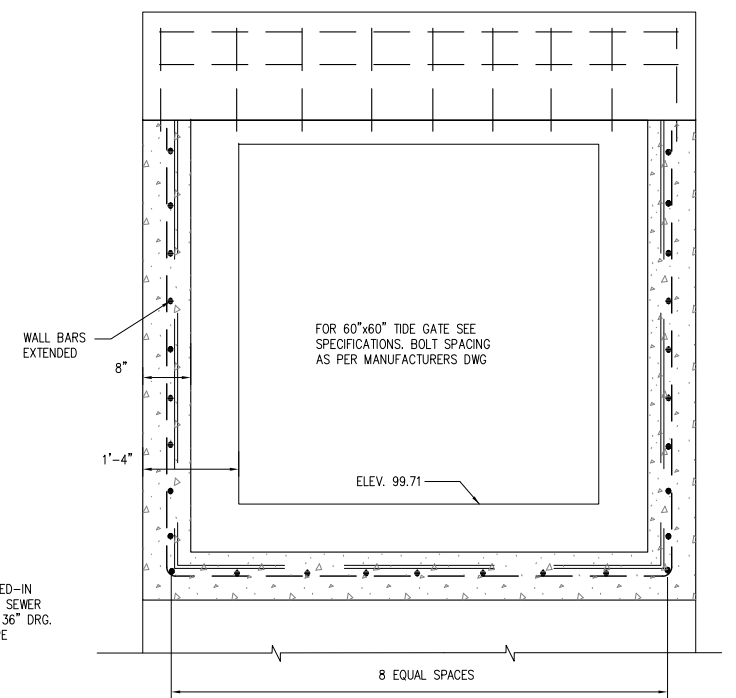
USER: edfuntto  
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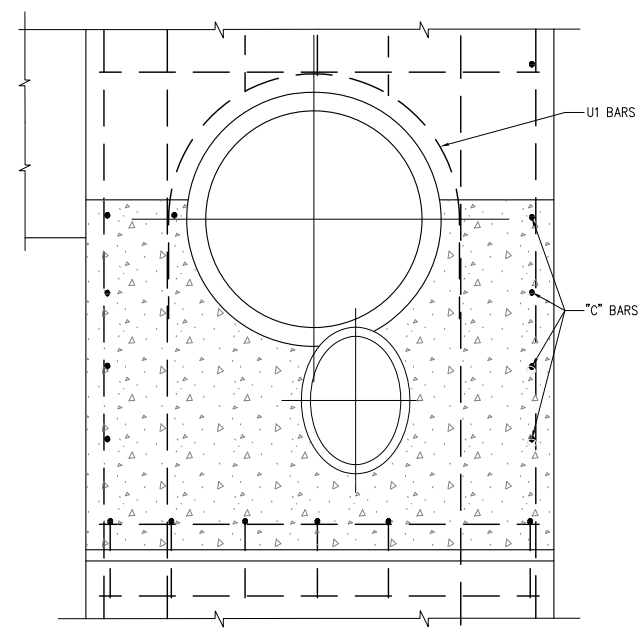
SECTION C-C



SECTION B-B



SECTION A-A



SECTION E-E

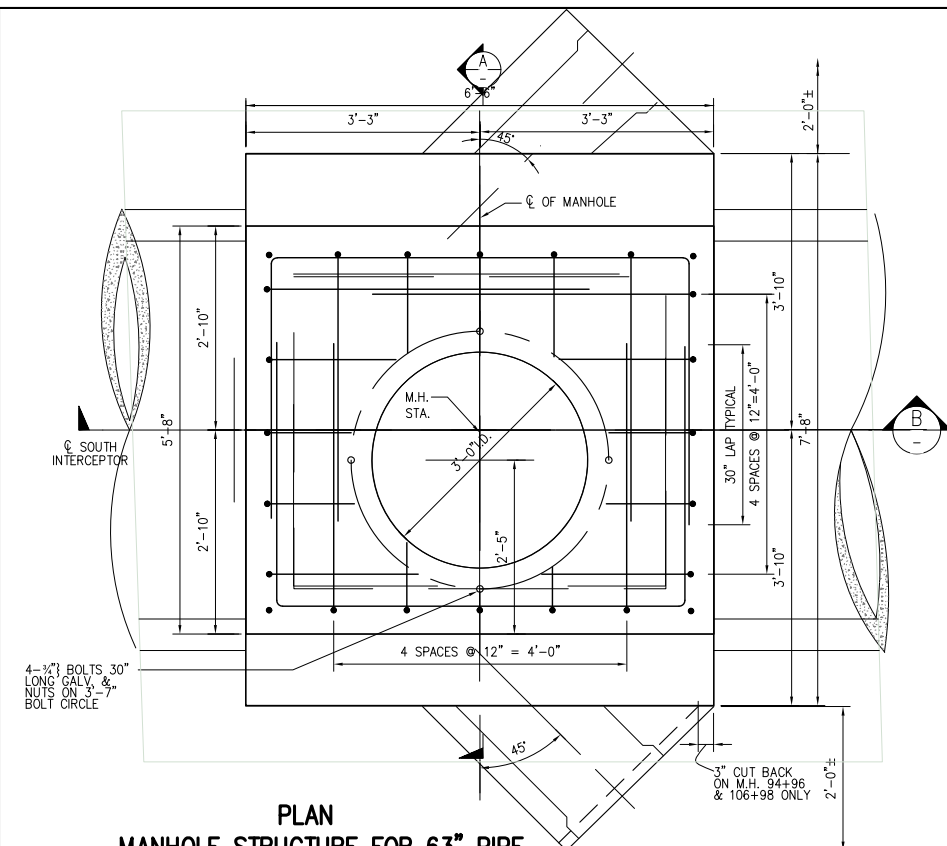
- NOTES:**
1. REINFORCING STEEL TO BE 3" CLEAR OF FACE OF CONCRETE UNLESS OTHERWISE NOTED.
  2. ALL EXTERIOR CORNERS CHAMFERED 1".
  3. PILE FOUNDATION TO BE USED ONLY IF CALLED FOR BY THE ENGINEER.
  4. REFER TO ORIGINAL SD-41 AS-BUILT FOR POTENTIAL LOCATIONS WHERE PILING WERE INSTALLED.



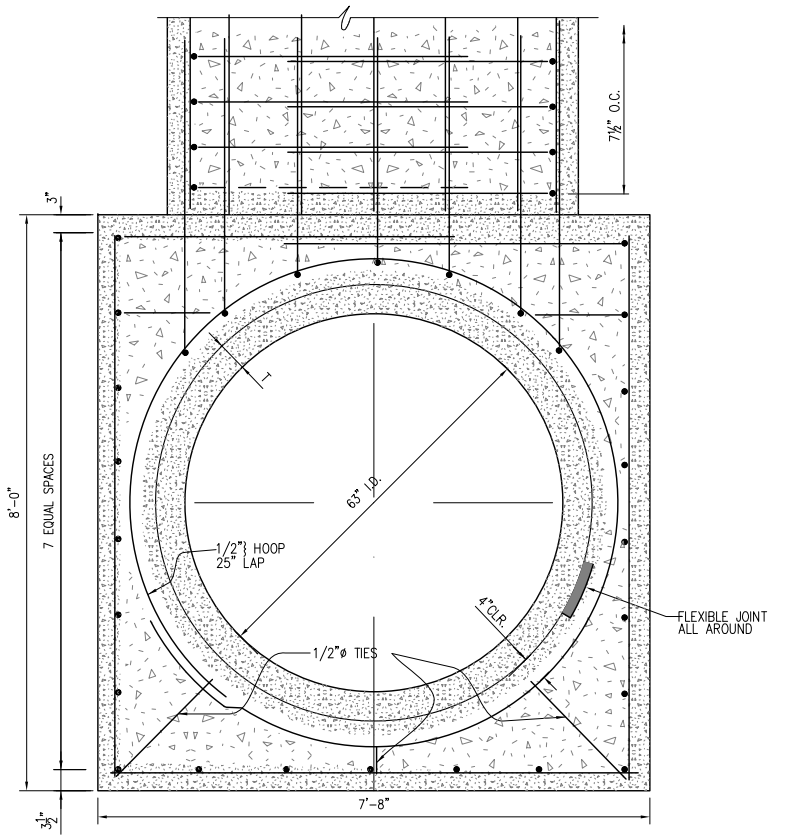
SUPERSEDES PORTION OF: VG 875.R02

NO.	DATE	REVISION	BY	REC.	APP.

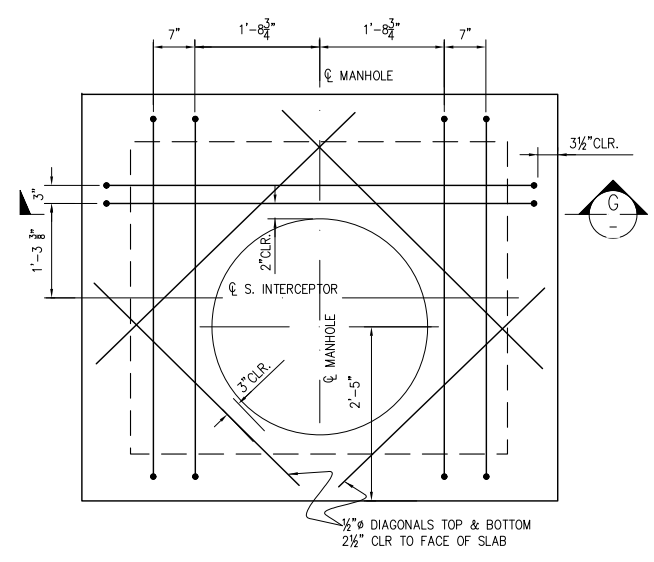
SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA
DESIGN BY:	G. LIN	
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR
DESIGN CHECKED BY:	R.P.E. No.	
PROJECT MANAGER	R.P.E. No.	
ELECTRICAL CHECKED BY:	R.P.E. No.	
PROJECT ENGINEER	R.P.E. No.	CIVIL MANHOLE AND ELMHURST OVERFLOW STRUCTURE S09 2 OF 2
PROJECT MANAGER	R.P.E. No.	
RECOMMENDED:	SR. ENGINEER	SCALE NONE
	R.P.E. No.	DATE JUNE 2023
		SD456-W0600-C305.11
		DRAWING NUMBER
		5
		X
		REV.



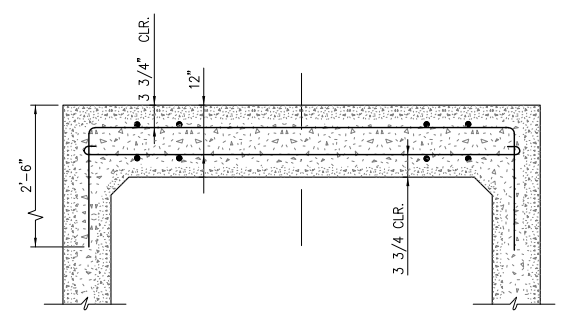
**PLAN  
MANHOLE STRUCTURE FOR 63" PIPE**



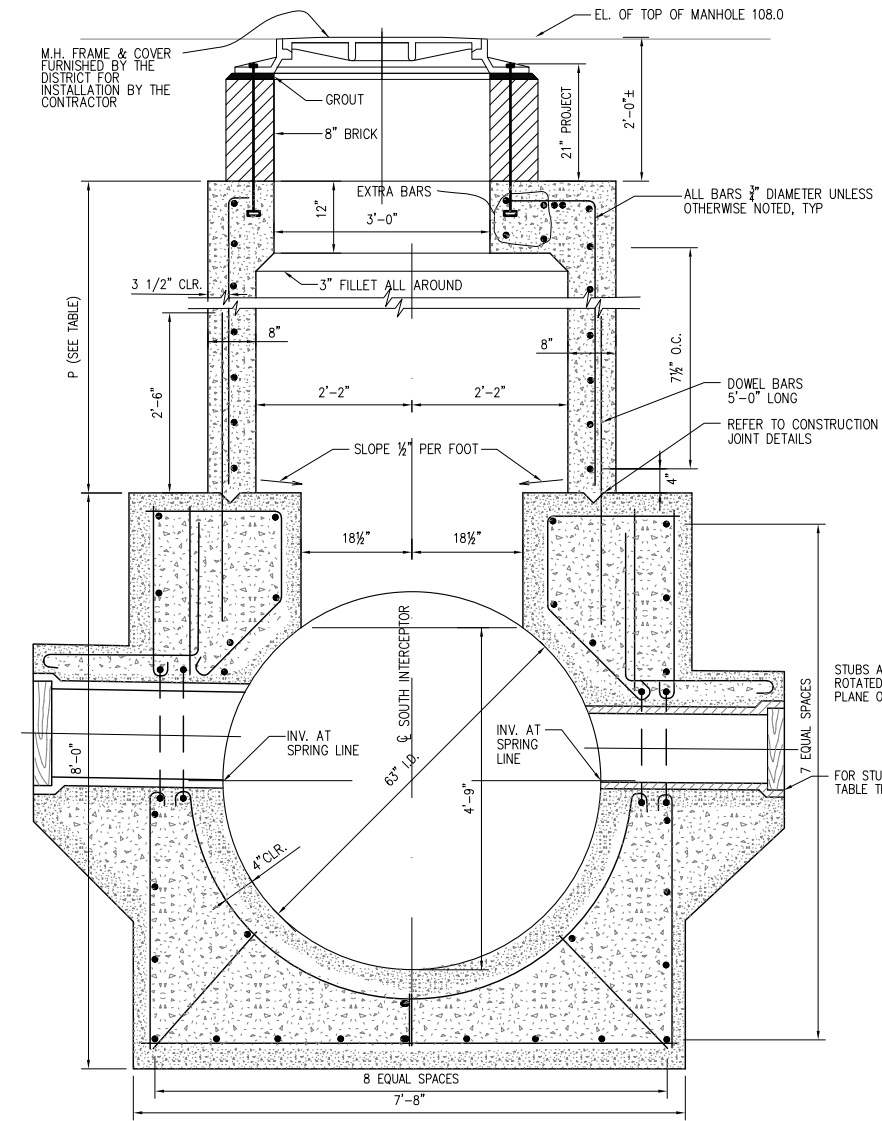
**SECTION C-C**



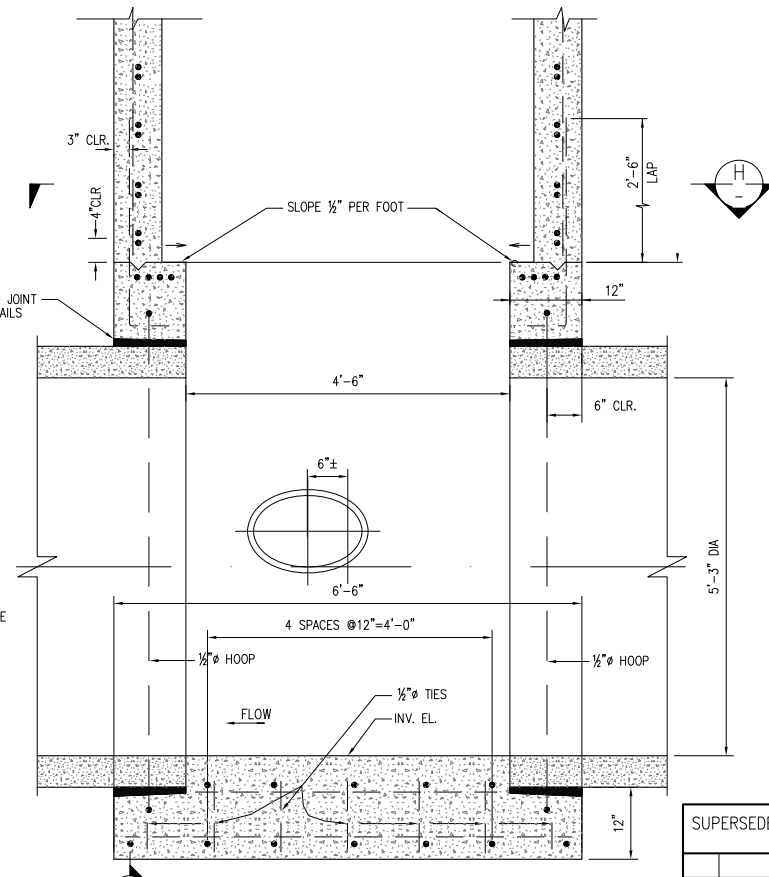
**ROOF SLAB - EXTRA BARS**



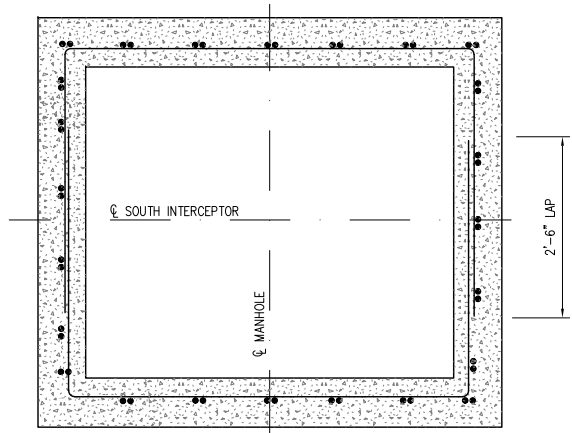
**SECTION G-G**



**SECTION A-A**



**SECTION B-B**



**SECTION H-H**

M.H. No.	M.H. STA.	PRESENT GROUND ELEV.	INVERT ELEV. (APPROX)	D	T (MIN.)	P (APPROX)	STUB SIZE		REMARKS	M.H. RIM ELEV.
							N. or E. Side	S. or W. Side		
S10	65+09.91	+5.0± 101.0±	91.73	63"	5 1/4"	7'-8"	12"	15"	8" CONN. MADE TO E. SIDE 6-30-63	107.89

- NOTES:**
1. REINFORCING STEEL TO BE 3" CLEAR OF FACE OF CONCRETE UNLESS OTHERWISE NOTED.
  2. ALL EXTERIOR CORNERS CHAMFERED 1".
  3. PILE FOUNDATION TO BE USED ONLY IF CALLED FOR BY THE ENGINEER.
  4. REFER TO ORIGINAL SD-41 AS-BUILT FOR POTENTIAL LOCATIONS WHERE PILING WERE INSTALLED.

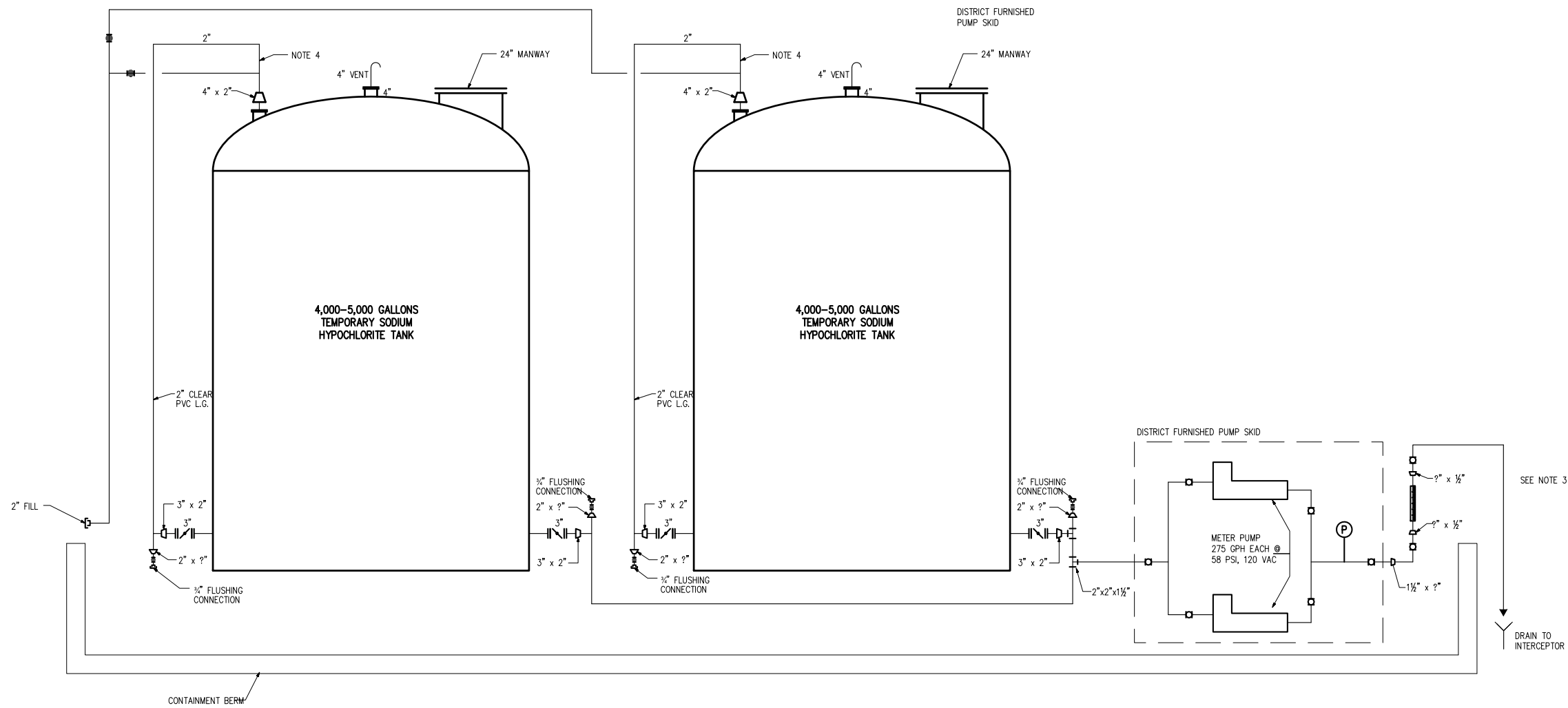
SUPERSEDES PORTION OF: VG 875.R02

NO.	DATE	REVISION	BY	REC.	APP.

SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA
DESIGN BY:	G. LIN	
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR
DESIGN CHECKED BY:	R.P.E. No.	
PROJECT MANAGER:	R.P.E. No.	CIVIL MANHOLE S10
ELECTRICAL CHECKED BY:	R.P.E. No.	
PROJECT ENGINEER:	R.P.E. No.	SCALE NONE
PROJECT MANAGER:	R.P.E. No.	
RECOMMENDED:	SR. ENGINEER	SD456-W0600-C206.10
	R.P.E. No.	DRAWING NUMBER

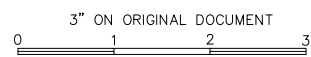
USER: edfunto DATE: May 17, 2023 11:55am FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-W0600-C206.10\_r00.dwg - 206.1

USER: edfuntto  
 DATE: May 11, 2023 11:39pm  
 FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-W0600-I101\_P00.dwg - I101



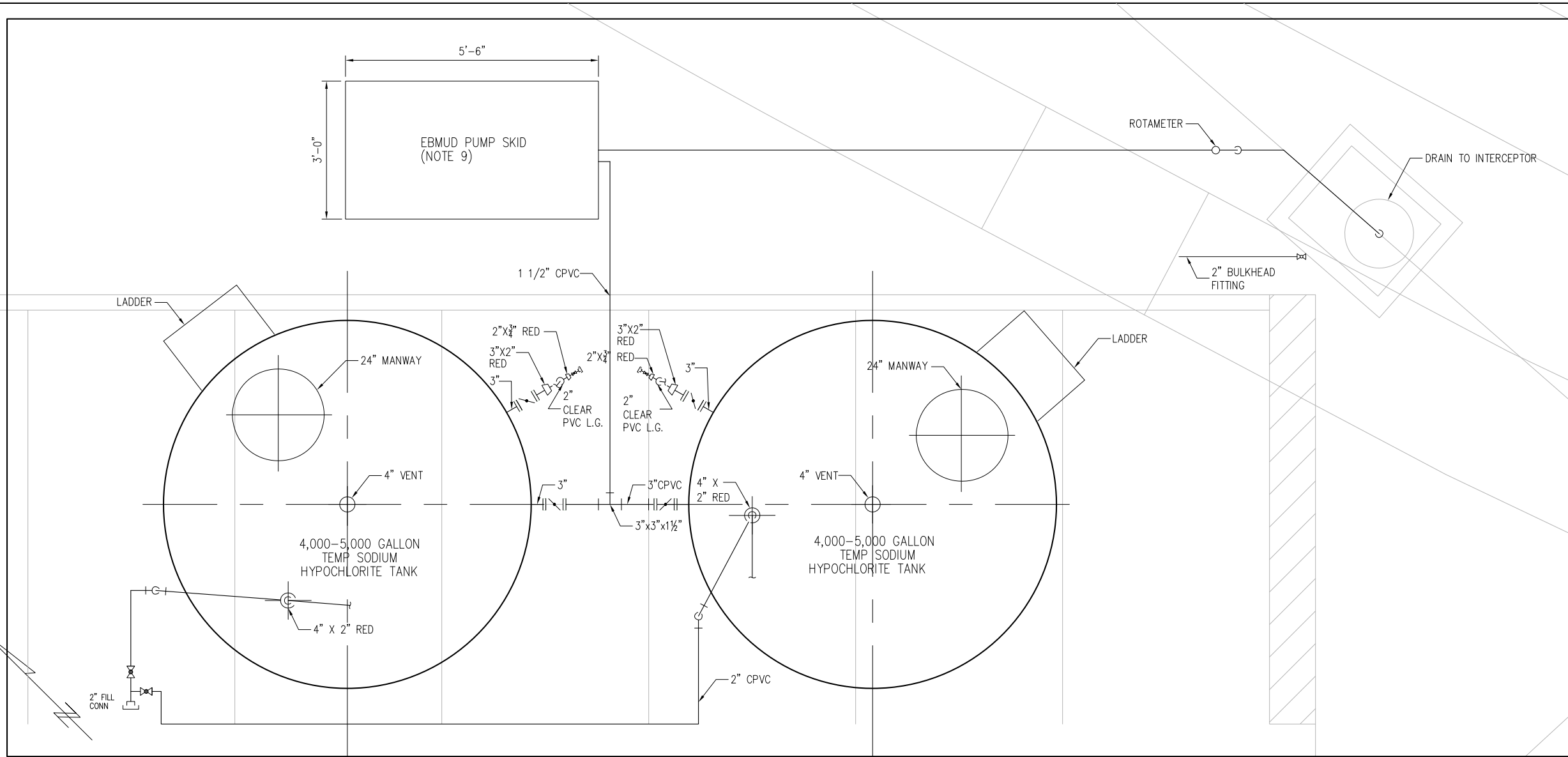
**SCHEMATIC**  
 SCALE: NONE

- NOTES**
1. ALL PIPING SCH 80 CPVC, UNLESS OTHERWISE NOTED.
  2. BALL VALVES SHALL BE CPVC, TYPE 21 ASAHI, OR EQUAL.
  3. ROTAMETER SHALL BE KING 7460 OR EQUAL.
  4. TOP ELEVATION OF LEVEL GAUGE PIPE SHALL BE MINIMUM 1 FOOT ABOVE TOP ELEVATION OF OF FILL PIPE.



SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION						EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY: G. LIN						PROJECT MANAGER	
DRAWN BY: E. DIFUNTORUM						PROJECT ENGINEER	
DESIGN CHECKED BY: R.P.E. No.						PROJECT MANAGER	
PROJECT MANAGER						SR. ENGINEER	
ELECTRICAL CHECKED BY: R.P.E. No.						DRAWING NUMBER	
PROJECT ENGINEER						SCALE NONE	
PROJECT MANAGER						SD456-W0600-I101	
RECOMMENDED: SR. ENGINEER						DATE JUNE 2023	
R.P.E. No.						X	
NO.						REV.	

USER: edfunto  
 DATE: May 17, 2023 11:21am  
 FILE: J:\SD Projects\SD456 South Interceptor Coliseum Rehabilitation\SD456-W0600-M101\_r00.dwg - M101



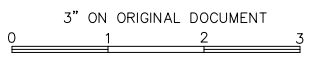
**PLAN**

**NOTES**

1. TANK SHALL HAVE ATTACHED SUPPORT PAD.
2. TANK AND PUMP SKID TO BE INSTALLED DIRECTLY ON CONTAINMENT BERM.
3. DISTRICT TO PROVIDE POWER.
4. DISTRICT TO PROVIDE CARRIER WATER.
5. CONTAINMENT BASIN MINIMUM VOLUME TO BE 110% OF TANK VOLUME.
6. TEMPORARY WOOD STEPS TO BE INSTALLED FOR ACCESS INTO CONTAINMENT AREA.
7. PROVIDE PIPE SUPPORTS AS NEEDED.
8. FOR PIPING SCHEMATIC, SEE DWG I-101.
9. DISTRICT TO PERFORM ELECTRICAL INSTALLATION OF PUMP SKID.
10. ALL PIPING SCH 80 CPVC, UNLESS OTHERWISE NOTED.

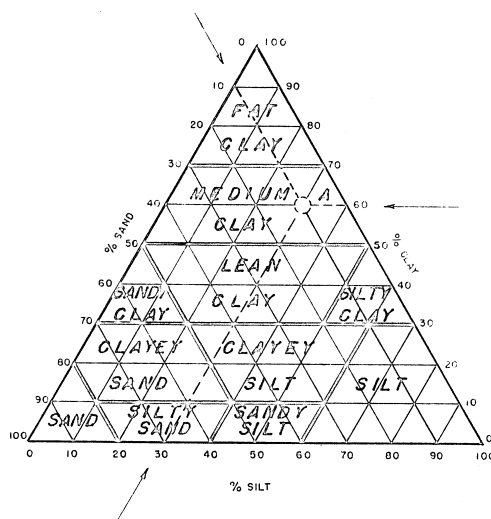


**KEY MAP AT 8460 EDGEWATER DRIVE**



NO.	DATE	REVISION	BY	REC.	APP.

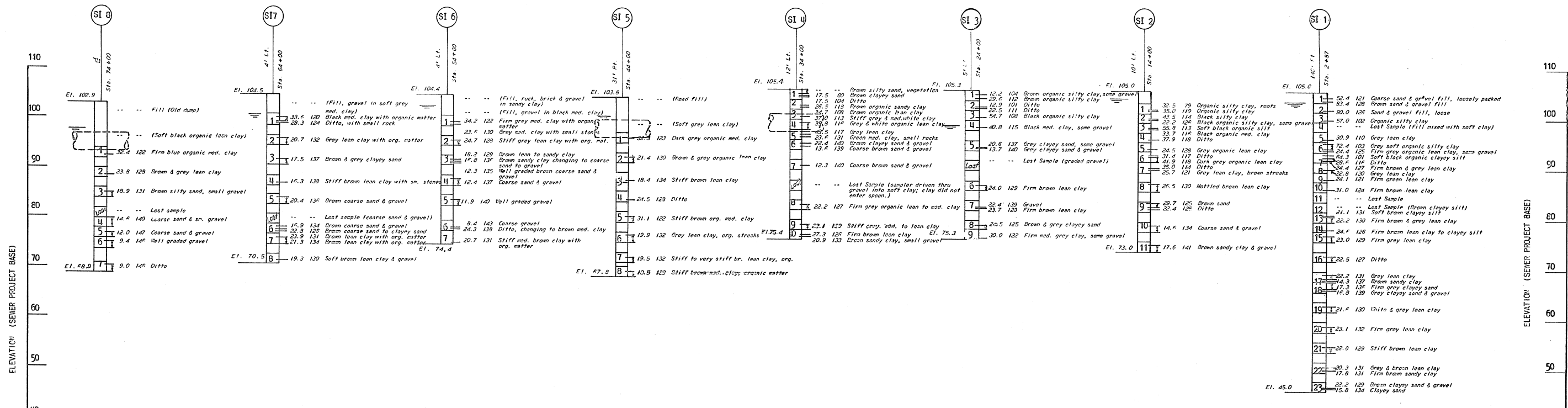
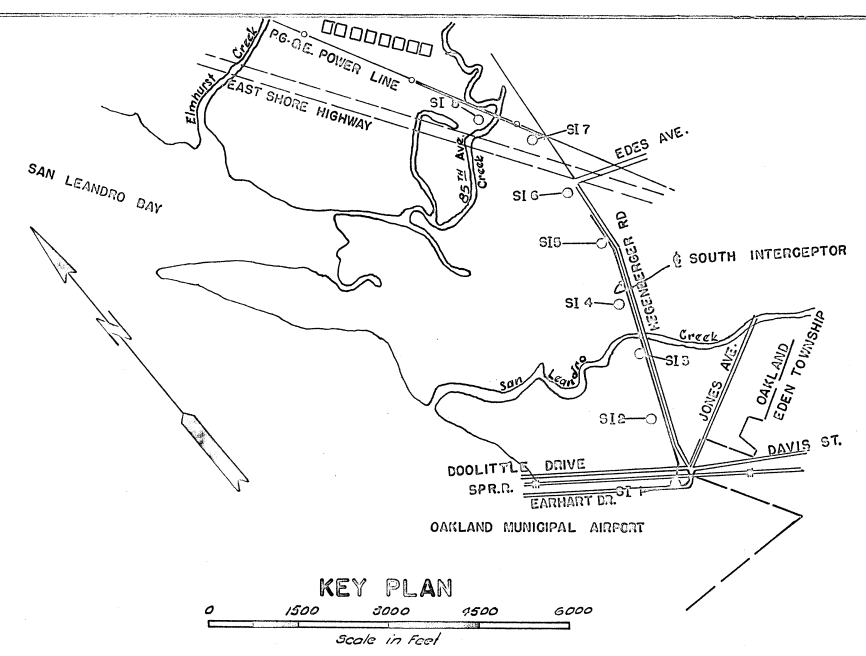
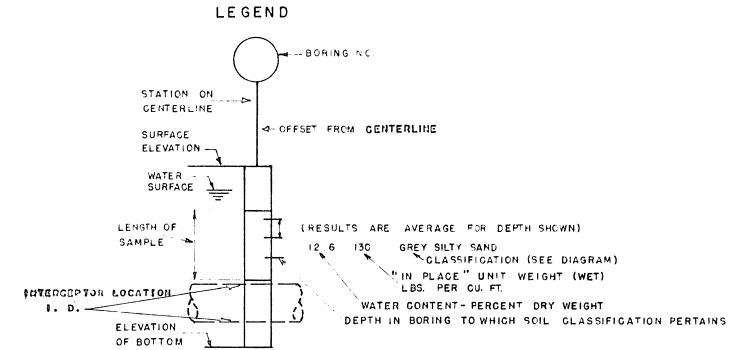
SD456 - SOUTH INTERCEPTOR COLISEUM REHABILITATION		EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA	
DESIGN BY:	G. LIN		
DRAWN BY:	E. DIFUNTORUM	SOUTH INTERCEPTOR  MECHANICAL TEMPORARY SODIUM HYPOCHLORITE FEED SYSTEM	
DESIGN CHECKED BY:	R.P.E. No.		
PROJECT MANAGER	R.P.E. No.		
ELECTRICAL CHECKED BY:	R.P.E. No.		
PROJECT ENGINEER	R.P.E. No.		
PROJECT MANAGER	R.P.E. No.	RECOMMENDED:	
		SR. ENGINEER	
		R.P.E. No.	
SCALE	NONE	SD456-W0600-M101	5
DATE	JUNE 2023	DRAWING NUMBER	REV.



**CLASSIFICATION SYSTEM**

GRAVEL LARGER THAN 2.0 MM  
 SAND FINER THAN 2.0 MM  
 SILT FINER THAN 0.075MM  
 CLAY FINER THAN 0.0075MM

EXAMPLE: SAND 10%, SILT 30%, CLAY 60%.  
 ENTER AT POINTS SHOWN BY ARROWS TO POINT 'A'. CLASSIFY AS MEDIUM CLAY.



AS-BUILT 5-13-54

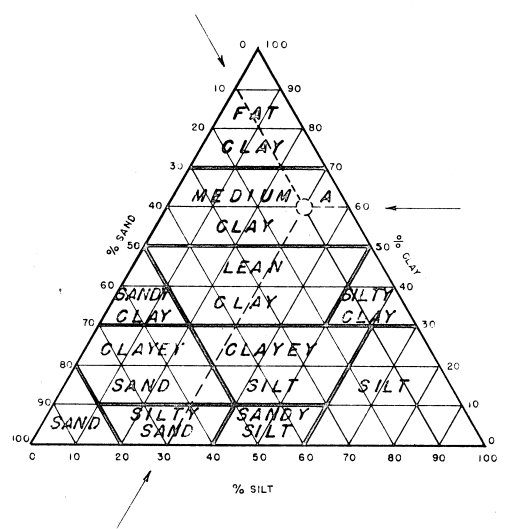
EAST BAY MUNICIPAL UTILITY DISTRICT  
 OAKLAND, CALIFORNIA

**SOUTH INTERCEPTOR  
 SECTION 1  
 LOG OF BORINGS  
 SHEET 1 OF 2**

DRAWN BY W.E.C.  
 TRACED BY L.W.  
 CHECKED BY BSG  
 APPROVED BY [Signature]

DATE 11-23-49  
 NO. VG 852

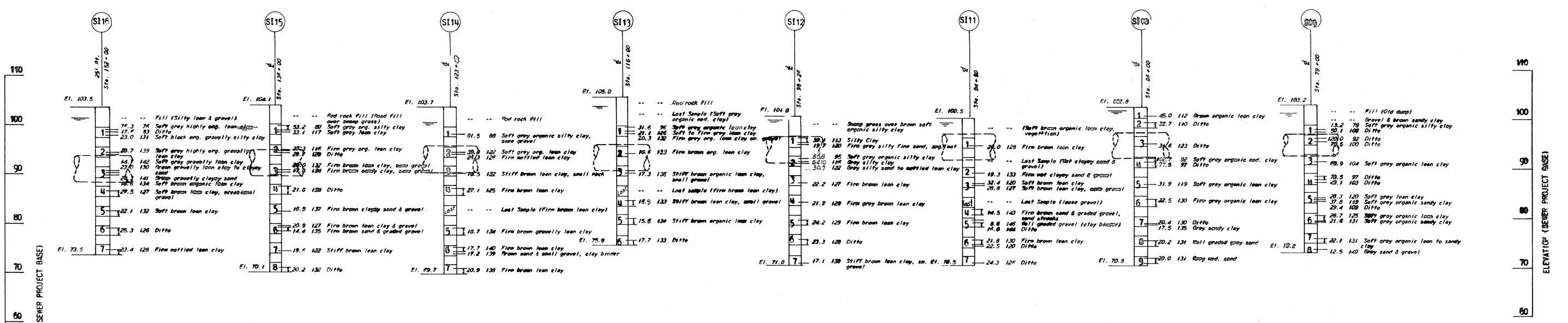
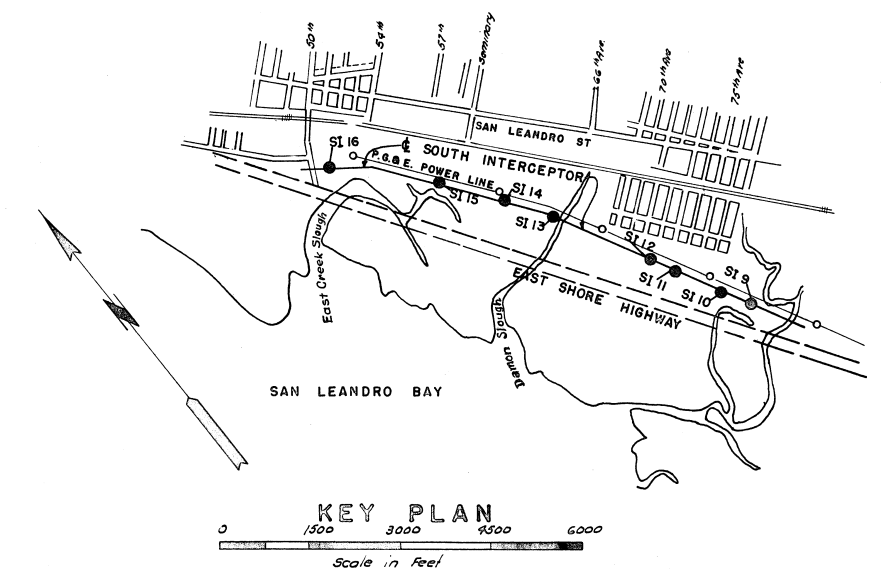
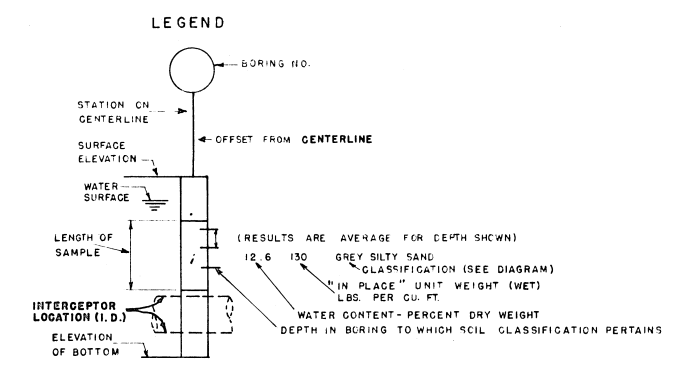
APPROVED [Signature] R.S.040  
 100% SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



**CLASSIFICATION SYSTEM**

GRAVEL LARGER THAN 2.0 MM  
 SAND FINER THAN 2.0 MM  
 SILT FINER THAN 0.05MM  
 CLAY FINER THAN 0.005MM

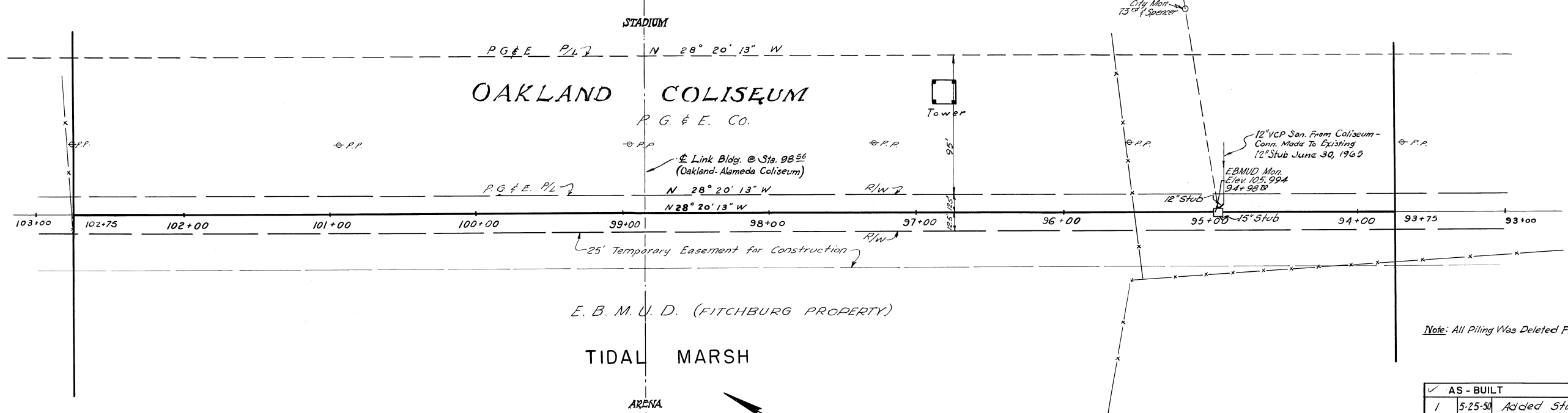
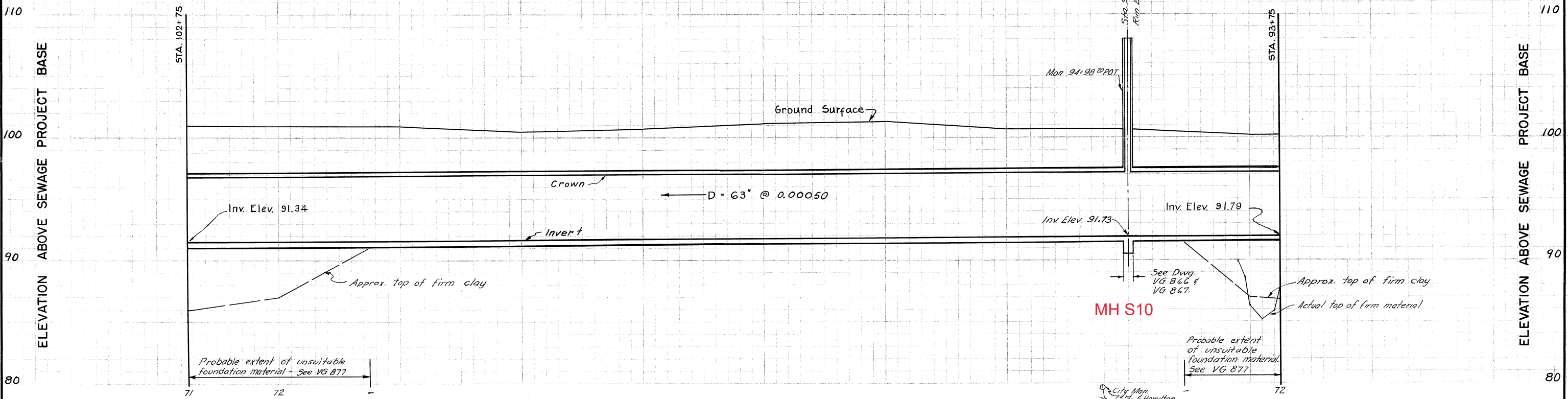
EXAMPLE: SAND 10%, SILT 30%, CLAY 60%.  
 ENTER AT POINTS SHOWN BY  
 ARROWS TO POINT 'A'. CLASSIFY  
 AS MEDIUM CLAY.



AS-BUILT	5-13-54
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT 1 OAKLAND, CALIFORNIA	
SOUTH INTERCEPTOR SECTION 1 LOG OF BORINGS SHEET 2 OF 2	
DRAWN BY: YEC	CHECKED BY: BGG
TRACED BY: LVP	APPROVED BY: [Signature]
DATE: 12-13-49	NO. VG 853

APPROVED: [Signature]  
 CIVIL SERVICE DISPOSAL ENGINEERING AND CONSTRUCTION

103+00 102+00 101+00 100+00 99+00 98+00 97+00 96+00 95+00 94+00 93+00



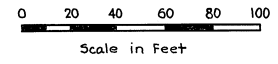
Note: All Piling Was Deleted From Section 1.

AS - BUILT		5-17-54	
1	5-25-50	Added Stubs	RBB J.G.P.
REV. NO.	DATE	DESCRIPTION	BY CHKD

REFERENCE	
SUBJECT	SOURCE
AS-BUILT ALIGNMENT	FB 1499 Pg. 26-29
MON. ALIGNMENT	FB 1803 Pg. 6
PIPE RECORD	FB 1426 Pg. 19-67
ORIGINAL PROFILE	FB 1380 Pg. 13-27
FINAL PROFILE	FB 1432 Pg. 42-45
PIPE PROFILE	FB 1604 Pg. 3-79

EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT No. 1  
OAKLAND, CALIFORNIA

SOUTH INTERCEPTOR  
PLAN AND PROFILE  
STA. 93+75 TO STA. 102+75



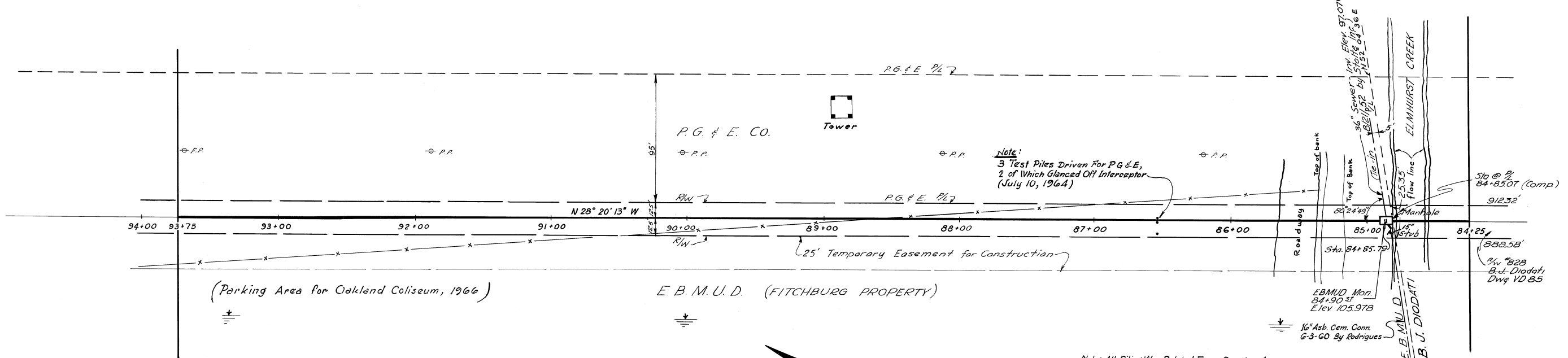
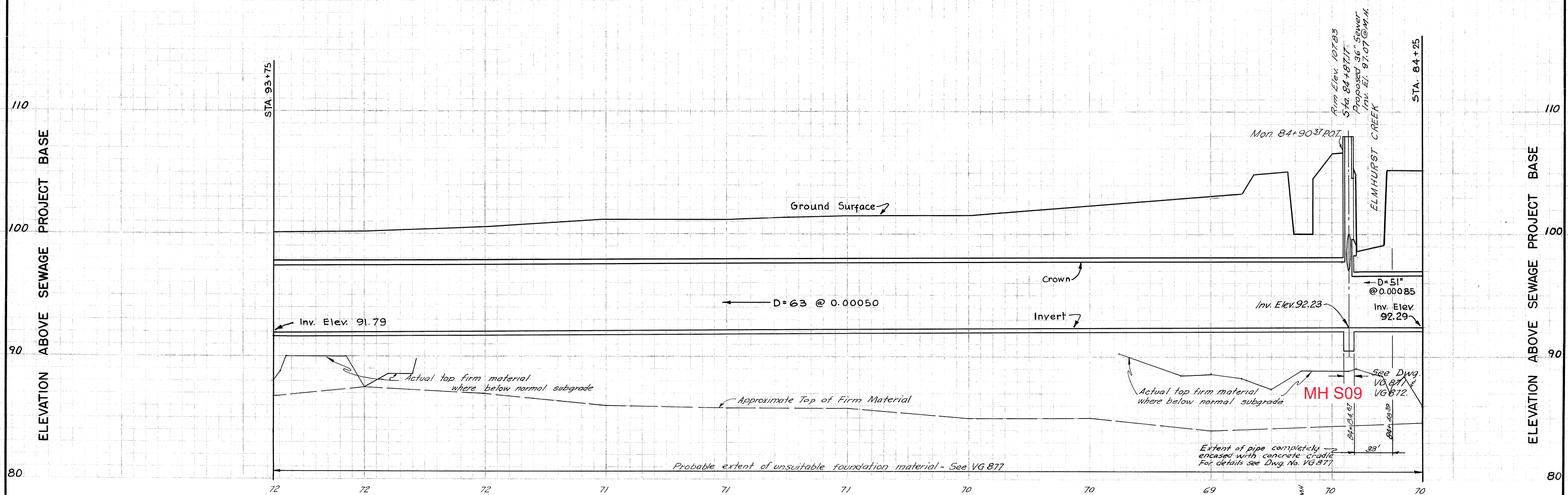
APPROVED *[Signature]* RE.648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION

DRAWN BY LWS  
TRACED BY LWS  
CHECKED BY *[Signature]*  
DATE 1-17-50  
SCALE  
No. VG 860



ELEVATION ABOVE SEWAGE PROJECT BASE

ELEVATION ABOVE SEWAGE PROJECT BASE



Note: All Piling Was Deleted From Section 1.

REFERENCE	
SUBJECT	SOURCE
AS-BUILT ALIGNMENT	FB 1499 Pg. 21-26
MON. ALIGNMENT	FB 1803 Pg. 5-6
PIPE RECORD	FB 1553 Pg. 2-21
ORIGINAL PROFILE	FB 1380 Pg. 13-27
FINAL PROFILE	FB 1432 Pg. 42-45
PIPE PROFILE	FB 1517 Pg. 52-75

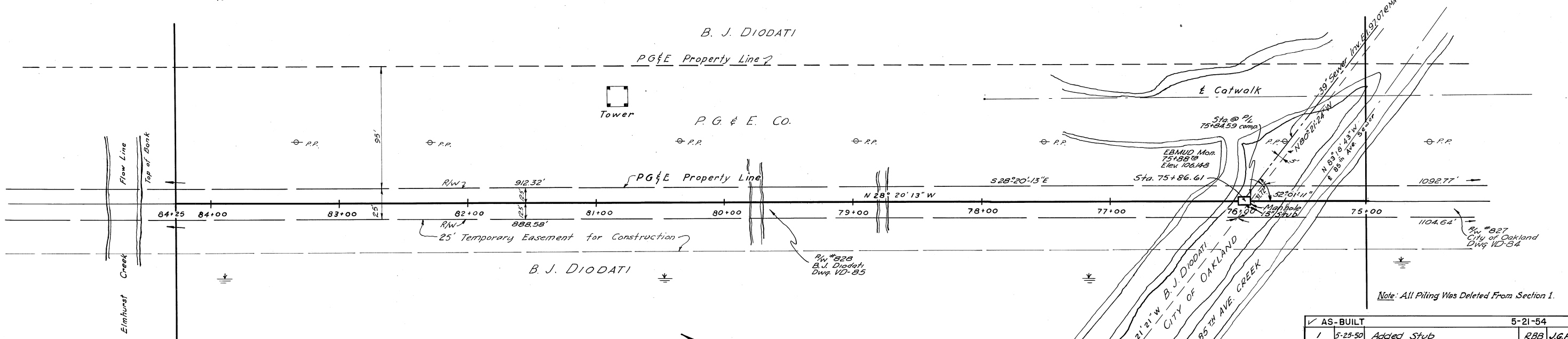
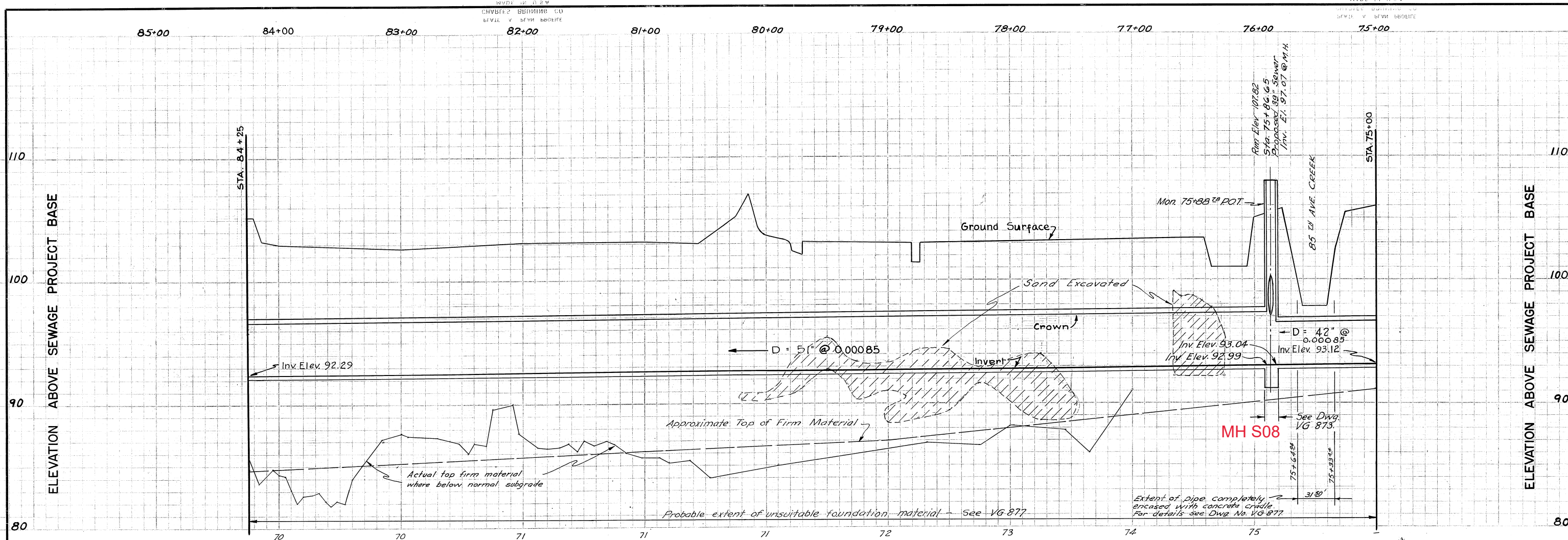
REV. NO.	DATE	DESCRIPTION	BY	CHKD.
1	5-25-50	Added Stub	RBB	J.G.P.

**EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT NO. 1  
OAKLAND, CALIFORNIA**

**SOUTH INTERCEPTOR  
PLAN AND PROFILE  
STA. 84+25 TO STA. 93+75**

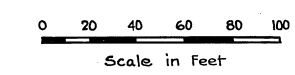
DRAWN BY	LWS	SCALE	
TRACED BY	LWS	DATE	1-17-50
CHECKED BY	J.B. Diodati		
APPROVED BY	RBB	NO.	VG 861

APPROVED: *R. E. 648* R.E. 648  
RGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



TIDAL MARSH

REFERENCE	
SUBJECT	SOURCE
AS-BUILT ALIGNMENT	FB 1499 Pg. 16-21
MON. ALIGNMENT	FB 1803 Pg. 5
PIPE RECORD	FB 1505 Pg. 2-21
ORIGINAL PROFILE	FB 1380 Pg. 13-27
FINAL PROFILE	FB 1432 Pg. 42-45
PIPE PROFILE	FB 1580 Pg. 1-7
	FB 1517 Pg. 52-75



REV. NO.	DATE	DESCRIPTION	BY	CHKD.
1	5-25-50	Added Stub	RBB	J.G.P.

AS-BUILT 5-21-54

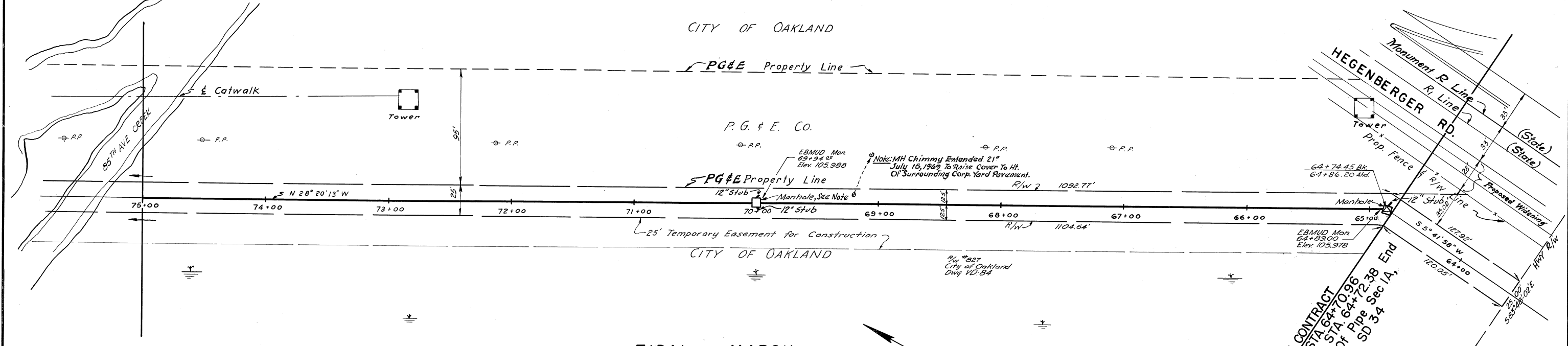
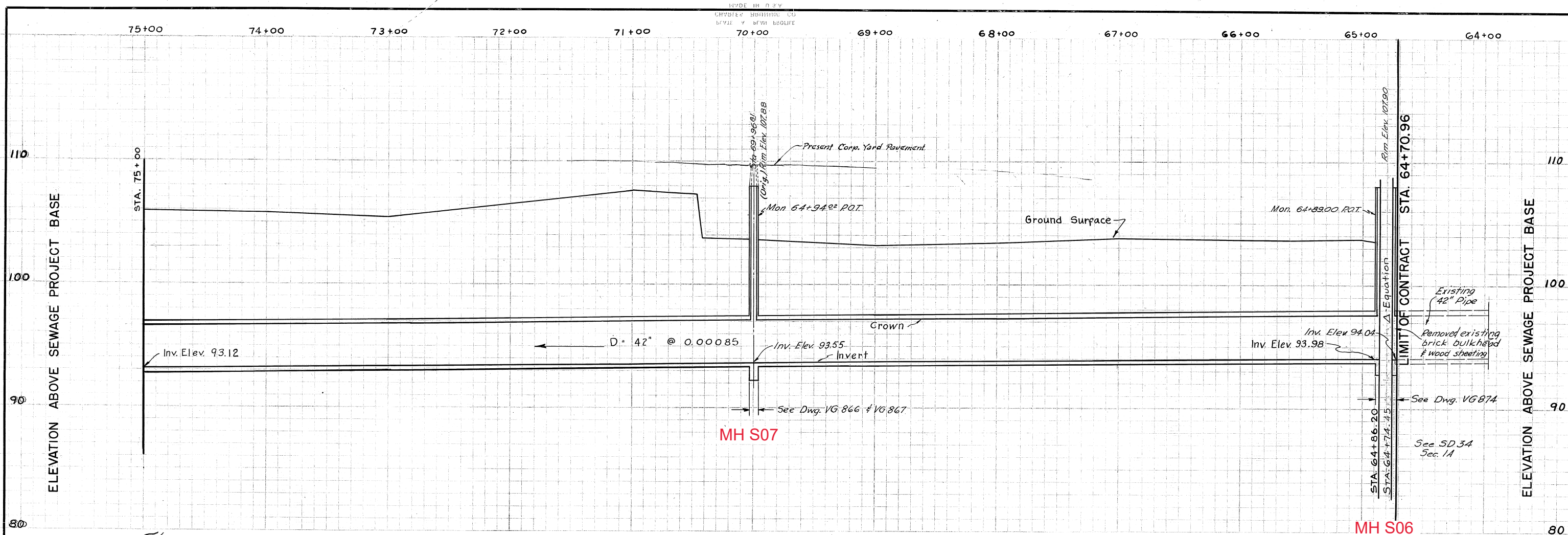
EAST BAY MUNICIPAL UTILITY DISTRICT  
 SPECIAL DISTRICT No. 1  
 OAKLAND, CALIFORNIA

SOUTH INTERCEPTOR  
 PLAN AND PROFILE  
 STA. 75+00 TO STA. 84+25

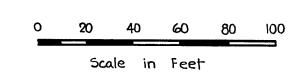
DRAWN BY LWS  
 TRACED BY LWS  
 CHECKED BY J.G.P.  
 APPROVED BY J.G.P.

SCALE DATE 1-17-50  
 No. VG 862

APPROVED: *[Signature]*  
 MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



REFERENCE	
SUBJECT	SOURCE
AS-BUILT ALIGNMENT	FB 1499 Pg. 11-16
MON. ALIGNMENT	FB 1803 Pg. 4-5
PIPE RECORD	FB 1505 Pg. 20-30
ORIGINAL PROFILE	FB 1380 Pg. 13-27
FINAL PROFILE	FB 1432 Pg. 42-45
PIPE PROFILE	FB 1517 Pg. 52-75



REV. NO.	DATE	DESCRIPTION	BY	CHKD.
1	5-25-50	Added Stubs	RBB	J.G.P.

APPROVED: *[Signature]* R.E. 648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION

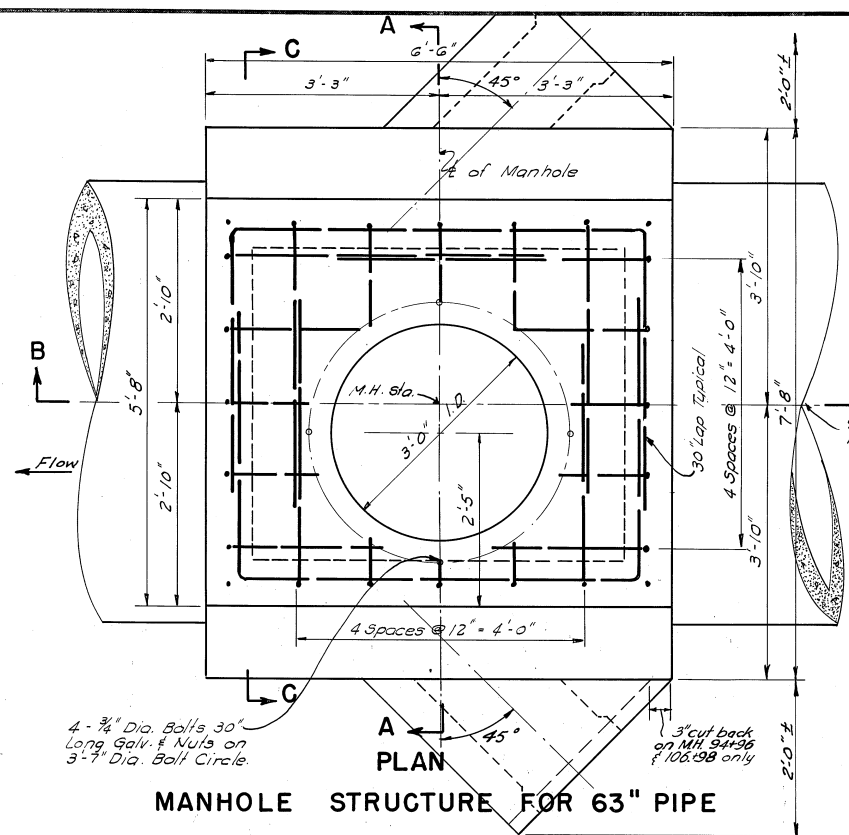
EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT NO. 1  
OAKLAND, CALIFORNIA

**SOUTH INTERCEPTOR**

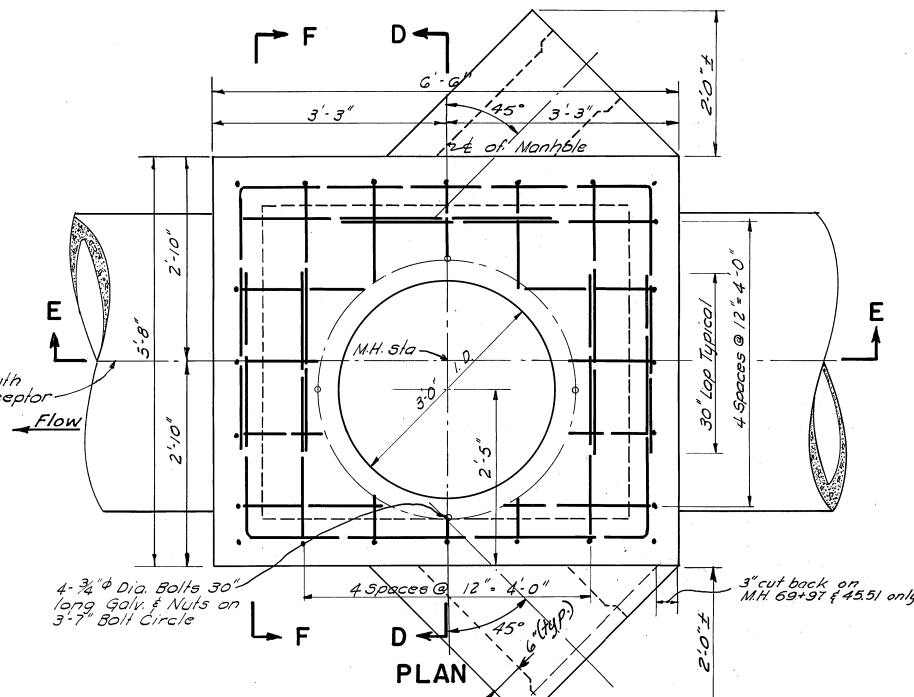
**PLAN AND PROFILE**  
STA. 64+70.96 TO STA. 75+00

DRAWN BY LWS  
TRACED BY LWS  
CHECKED BY *[Signature]*  
APPROVED BY *[Signature]*

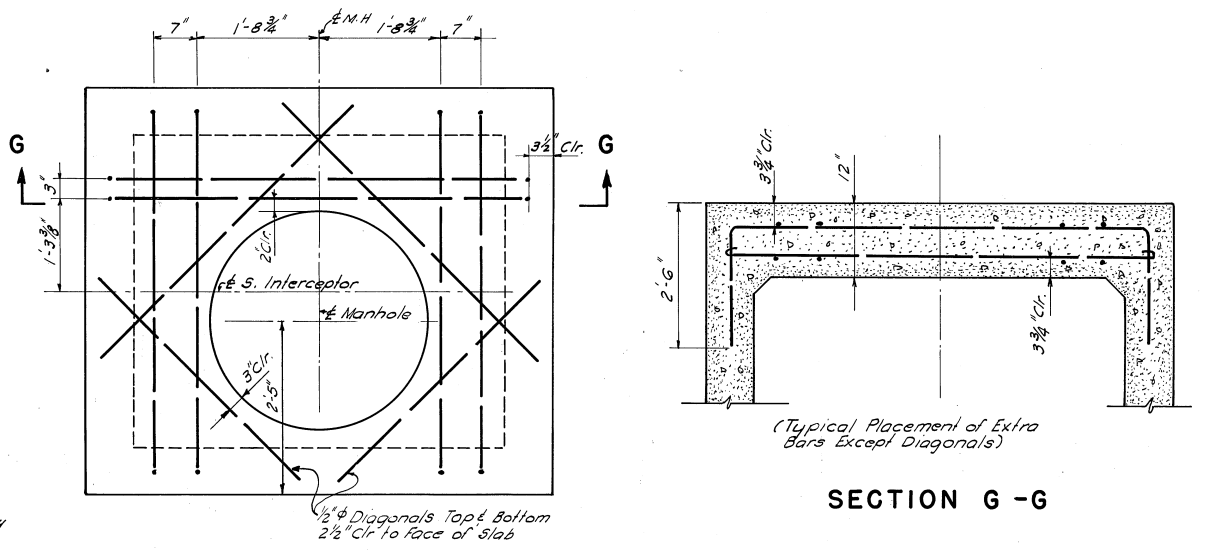
DATE 1-17-50  
NO. VG 863



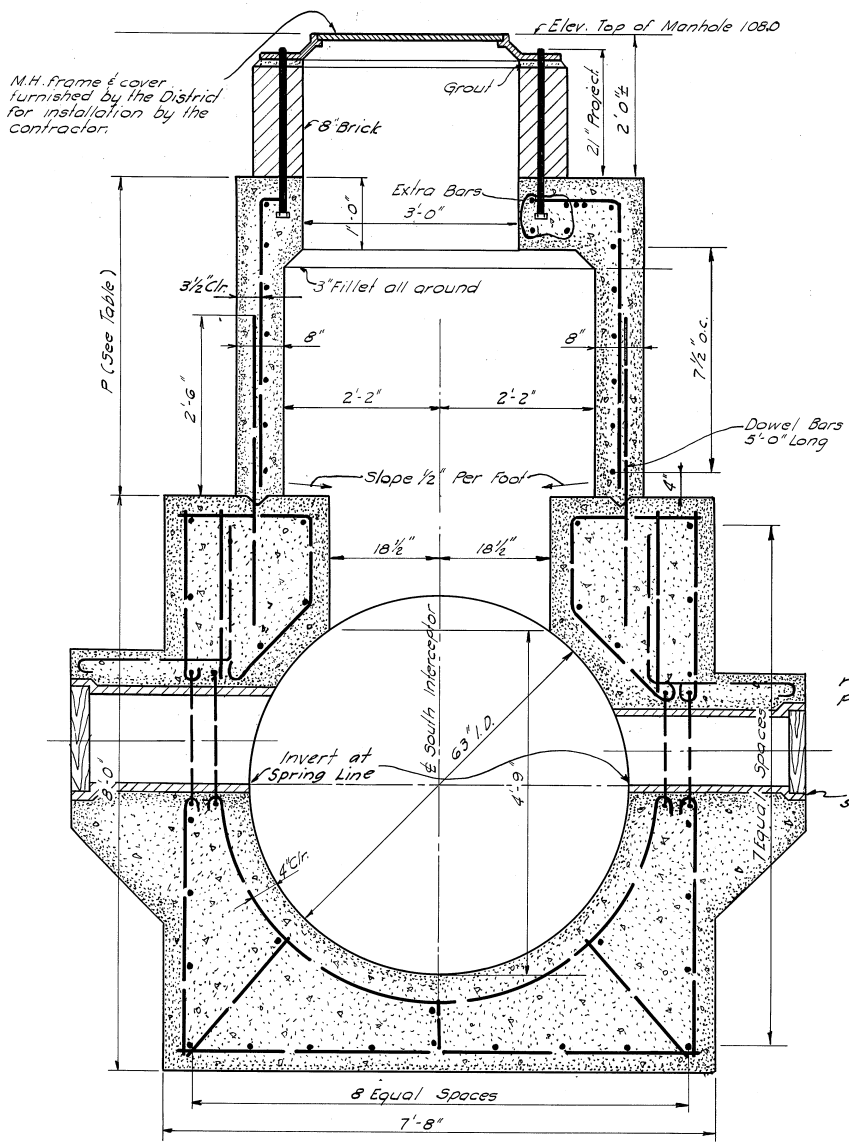
MANHOLE STRUCTURE FOR 63" PIPE



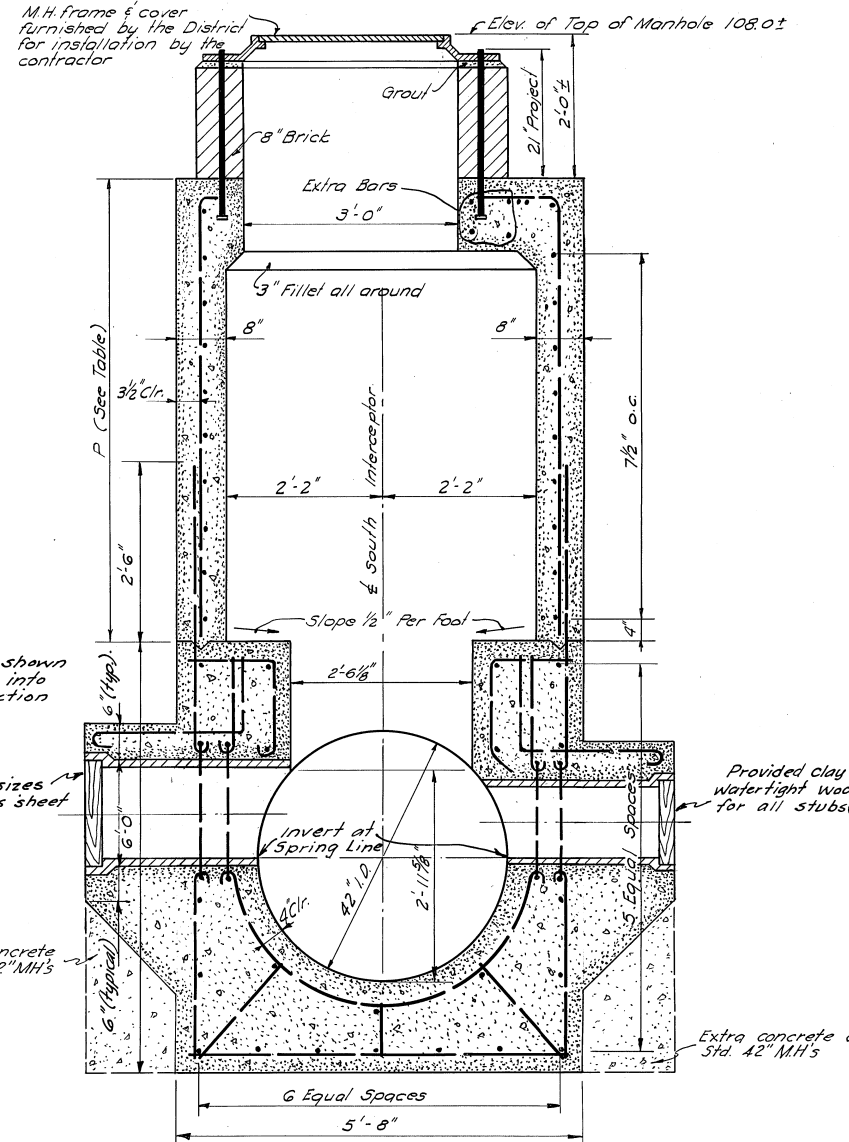
MANHOLE STRUCTURE FOR 42" PIPE



ROOF SLAB - EXTRA BARS



SECTION A - A



SECTION D - D

M.H. STA.	PRESENT GROUND ELEV.	INVERT ELEV. (APPROX)	D	T (MIN.)	P (APPROX)	STUB SIZE		REMARKS	M.H. RIM ELEV.
						N. or E. Side	S. or W. Side		
35+50.50	105.2±	96.51	42"	3 3/4"	4'-9 1/2"	12"	15"	8" conn. made to W. side 11-17-64	107.90
45+51.49	104.5±	95.67	42"	3 3/4"	5'-7 1/2"	12"	15"	14" conn. made to W. side 8-29-61	107.90
69+96.81	103.6±	93.55	42"	3 3/4"	7'-8 1/2"	12"	12"		107.88
94+96.08	+5.0± 101.0±	91.73	63"	5 1/4"	7'-8"	12"	15"	8" Conn. made to E. side 6-30-63 MH Chimney raised approx. 5'	107.89
106+97.71	100.0±	91.13	63"	5 1/4"	8'-4"	12"	15"		107.98
116+98.71	106.0±	90.63	63"	5 1/4"	8'-10"	21"	15"	Angle of 21" stub on VG-858 Conn. made 5-23-52. 8" conn. to S.W. side (date?)	107.9±
122+58.08	103.6±	90.35	63"	5 1/4"	9'-1"	12"	12"	8" conn. made to W. side 12-23-53. 8" conn. made to E. side 2-14-55.	107.91
130+43.32	106.0±	89.98	63"	5 1/4"	9'-6"	12"	15"	15" conn. made to W. side 11-2-56	107.89

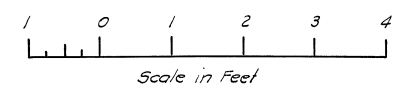
MH S07  
MH S10  
MH S11  
MH S12  
MH S13  
MH S14

GENERAL NOTES

- For details of Flexible Joint see VG 867
- All bars 3/8" dia unless otherwise noted.
- Reinforcing steel to be 3" clear of face of concrete unless otherwise noted.
- All exterior corners chamfered 1"
- For details of Construction Joint see VG 867
- For additional details see Plan & Profile.

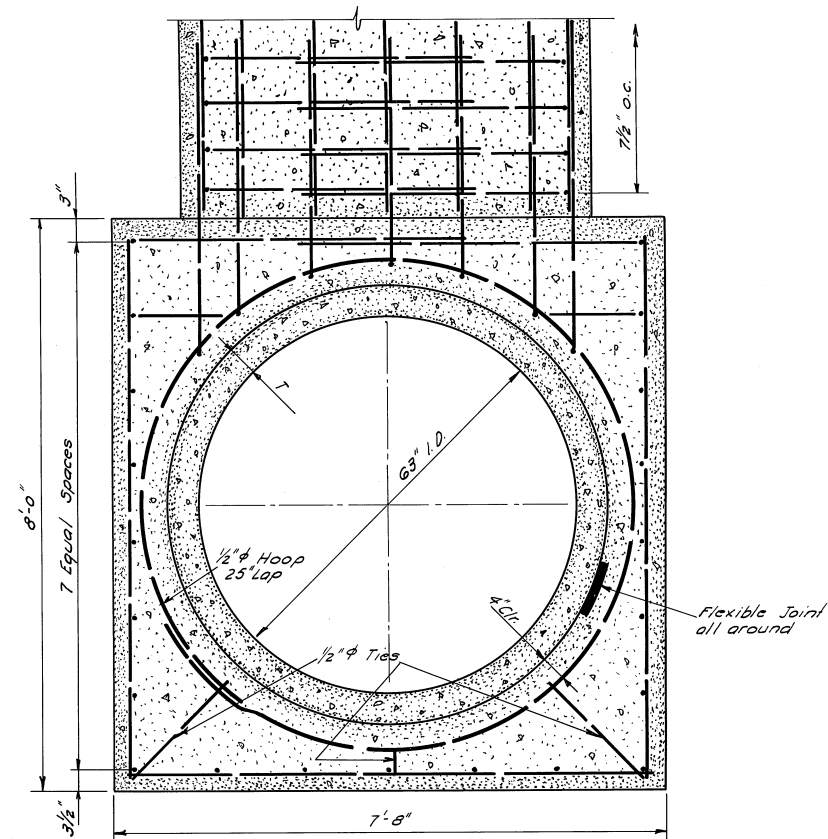
NOTES

- Work this sheet with VG 867.
- Pile foundation to be used only if called for by the Engineer.
- Final manhole stations determined by the Engineer. Invert elevations will change if manhole stations are changed.

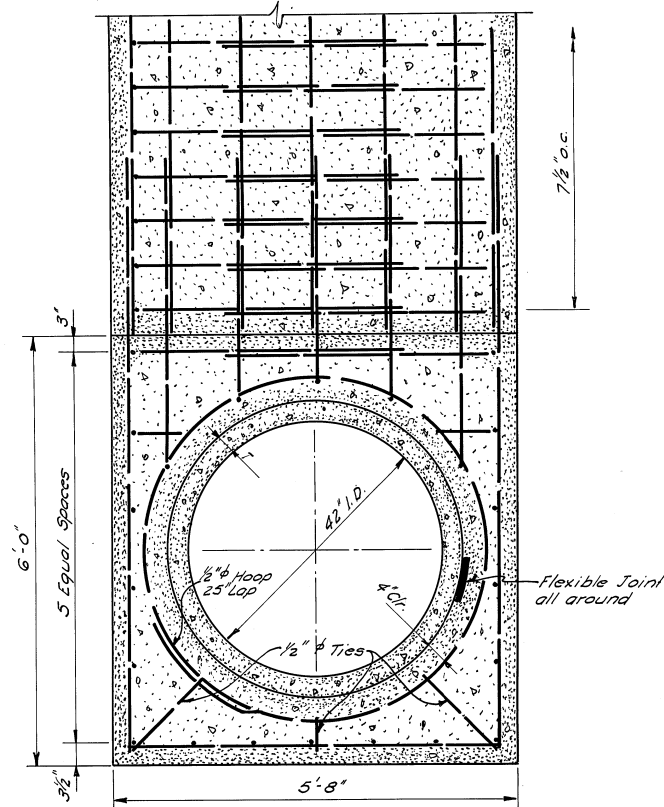


15-BUILT		5-21-54	
1	5-19-50	Added Stubs. Revise Table	RBB J.G.P.
REV NO.	DATE	DESCRIPTION	BY CHKD.
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA			
SOUTH INTERCEPTOR STANDARD MANHOLE 42" I.D. & 63" I.D. PIPE SHEET 1 OF 2			
DRAWN BY E.B.R. & E.W.C.		TRACED BY M.E.C.	
CHECKED BY H.C. Johnson		DATE 12-20-48	
RECOMMENDED BY J.A. Post		NO. VG 866	
APPROVED BY J.A. Post			

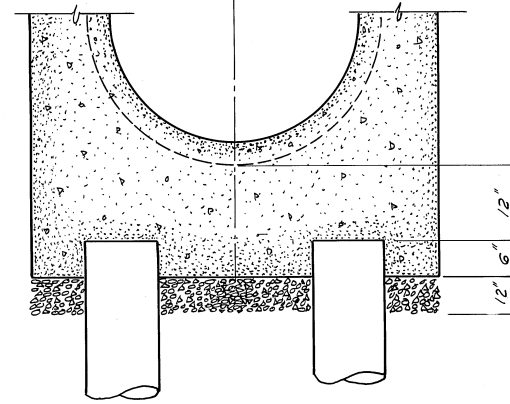
APPROVED *[Signature]* R.E. 642  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



SECTION C - C

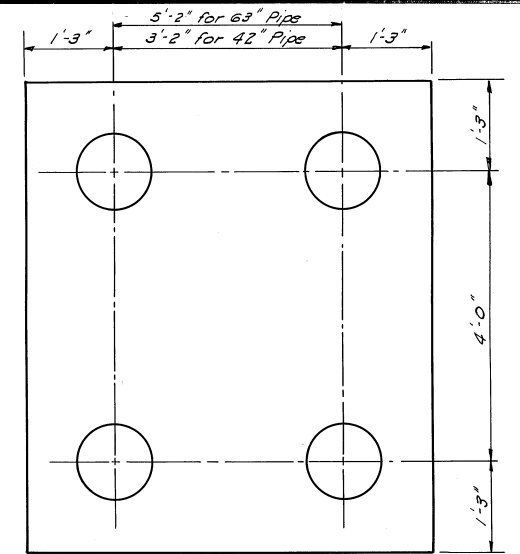


SECTION F - F



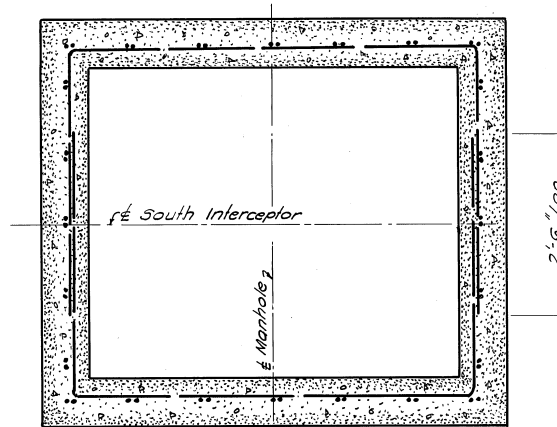
PILE FOUNDATION BEDDING

No reinforcing shown

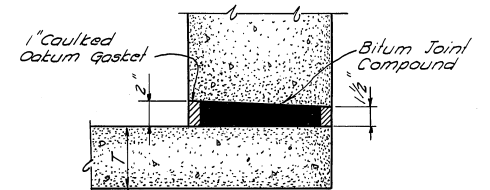


PLAN OF PILING

MODIFICATION FOR PILE FOUNDATION



SECTION H - H

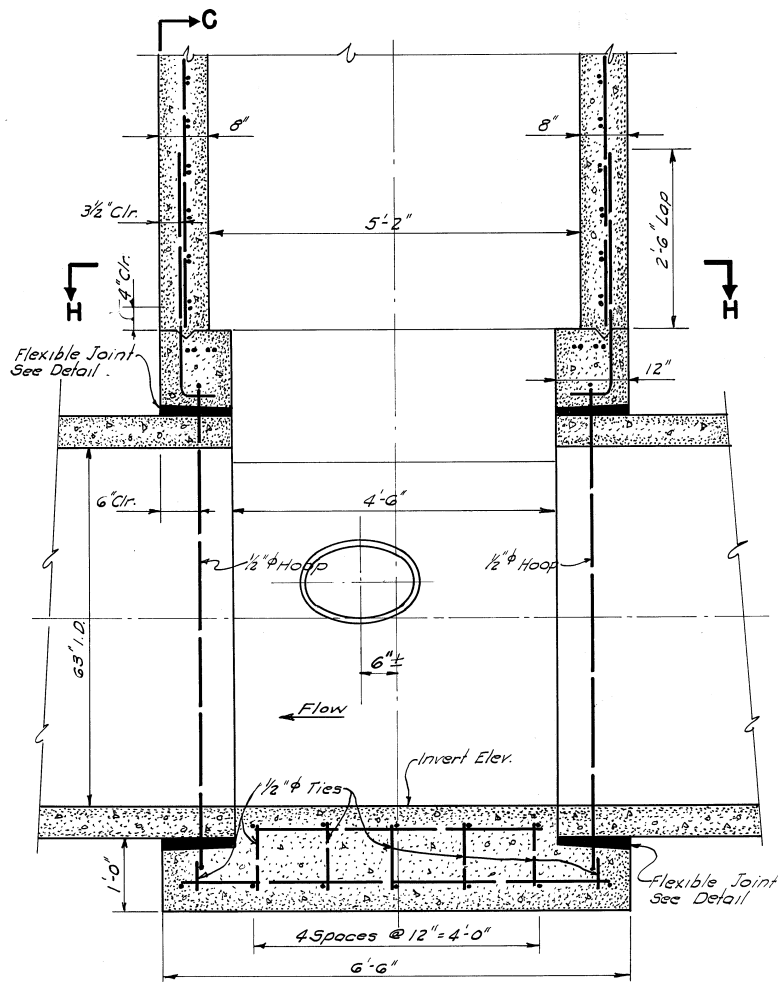


Bell End Pipe - Hand plastered Groove, Tongue End Pipe - Moved inside oakum gasket 2" toward outside face of M.H. No reinforcing shown.

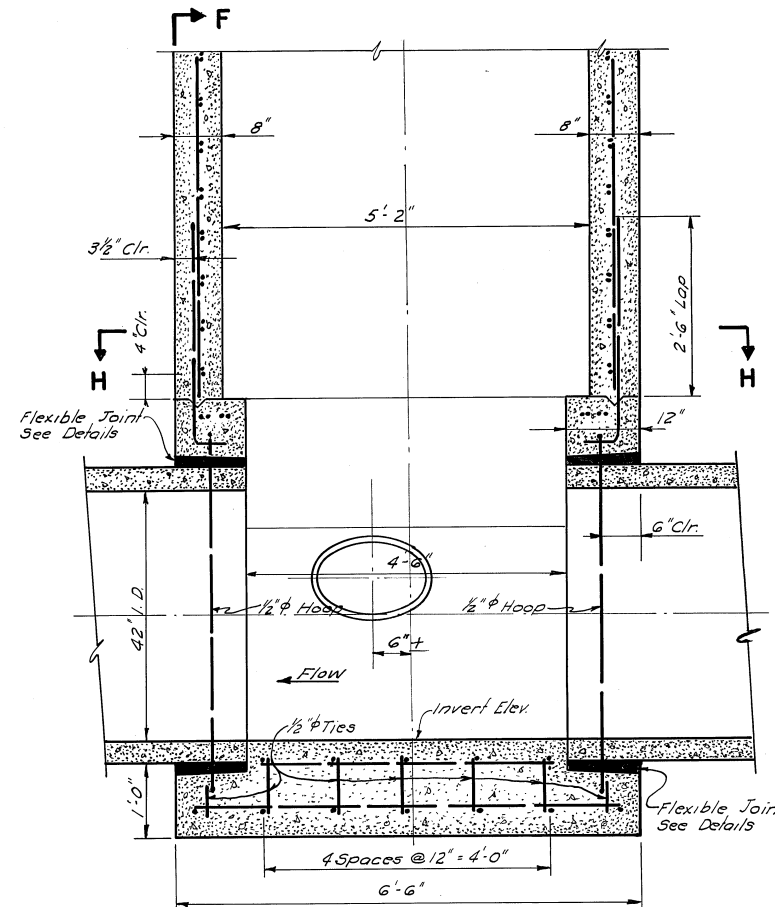
FLEXIBLE JOINT DETAIL

NOTES

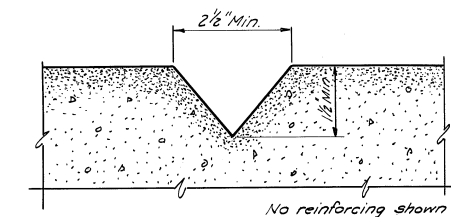
1. Work this sheet with Dwg. VG 866.



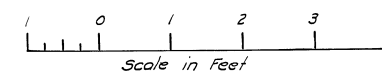
SECTION B - B



SECTION E - E



TYPICAL CONSTRUCTION JOINT



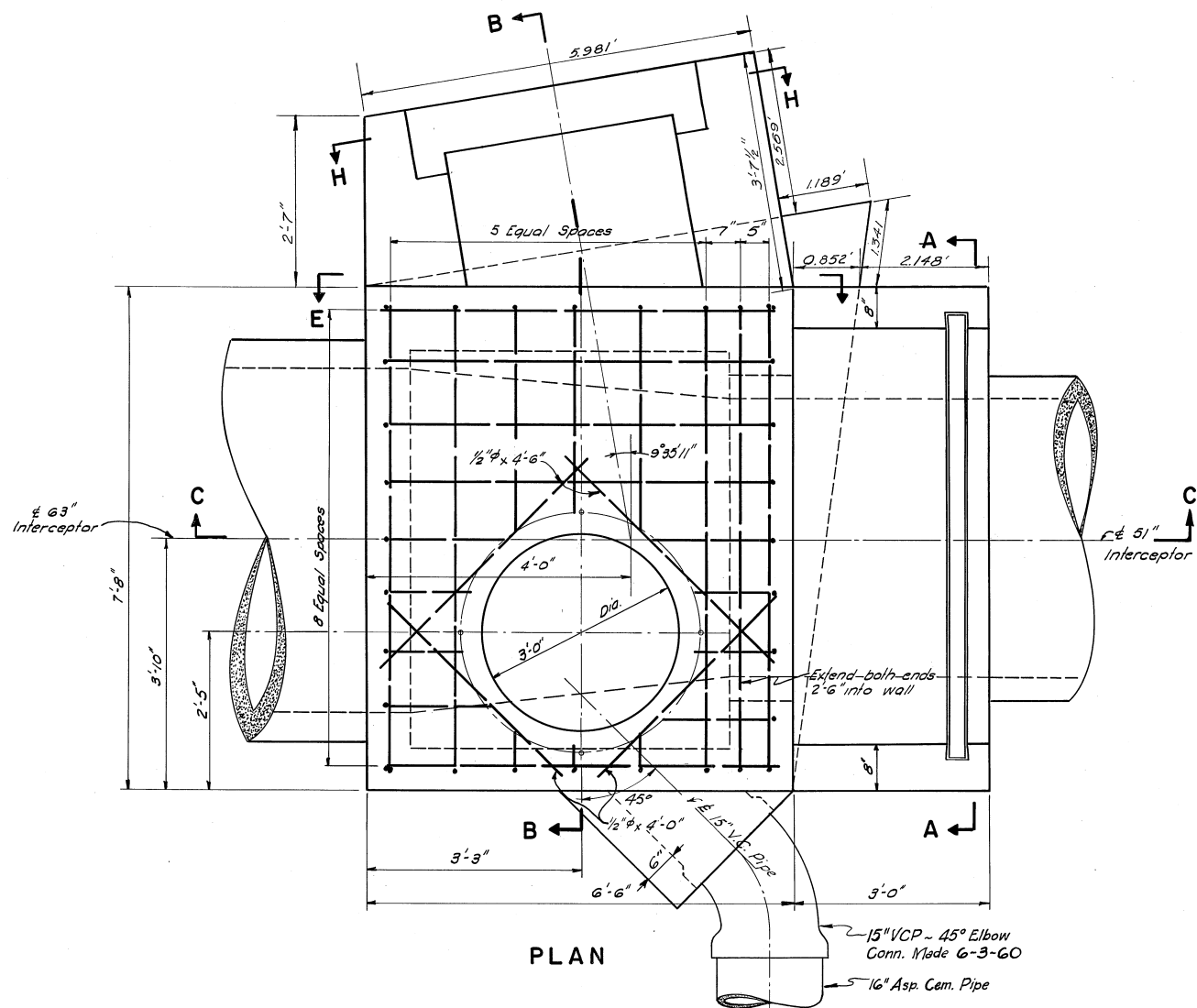
AS-BUILT		5-21-54	
REV. NO.	DATE	DESCRIPTION	BY
1	5-19-50	Added Stubs	RBB J.G.P.
			BY CHKD.

EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT No. 1  
OAKLAND, CALIFORNIA

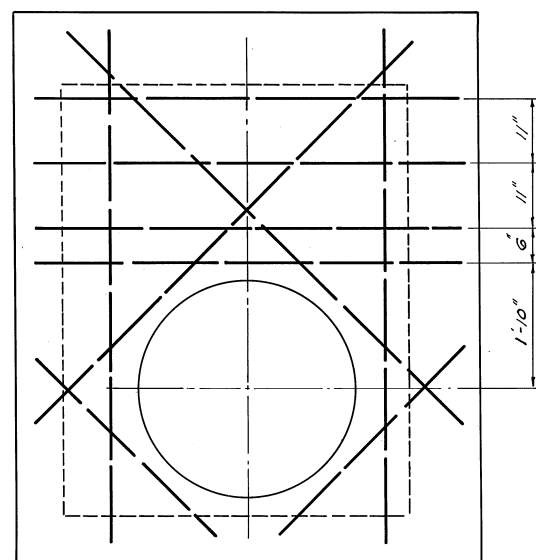
**SOUTH INTERCEPTOR  
STANDARD MANHOLE  
42" I.D. & 63" I.D. PIPE  
SHEET 2 OF 2**

DRAWN BY R.B.B. & R.W.C.	TRACED BY M.E.C.
CHECKED BY J.P. O'Brien	DATE 12-15-49
RECOMMENDED BY J.P. O'Brien	SCALE
APPROVED BY J.P. O'Brien	No. VG 867

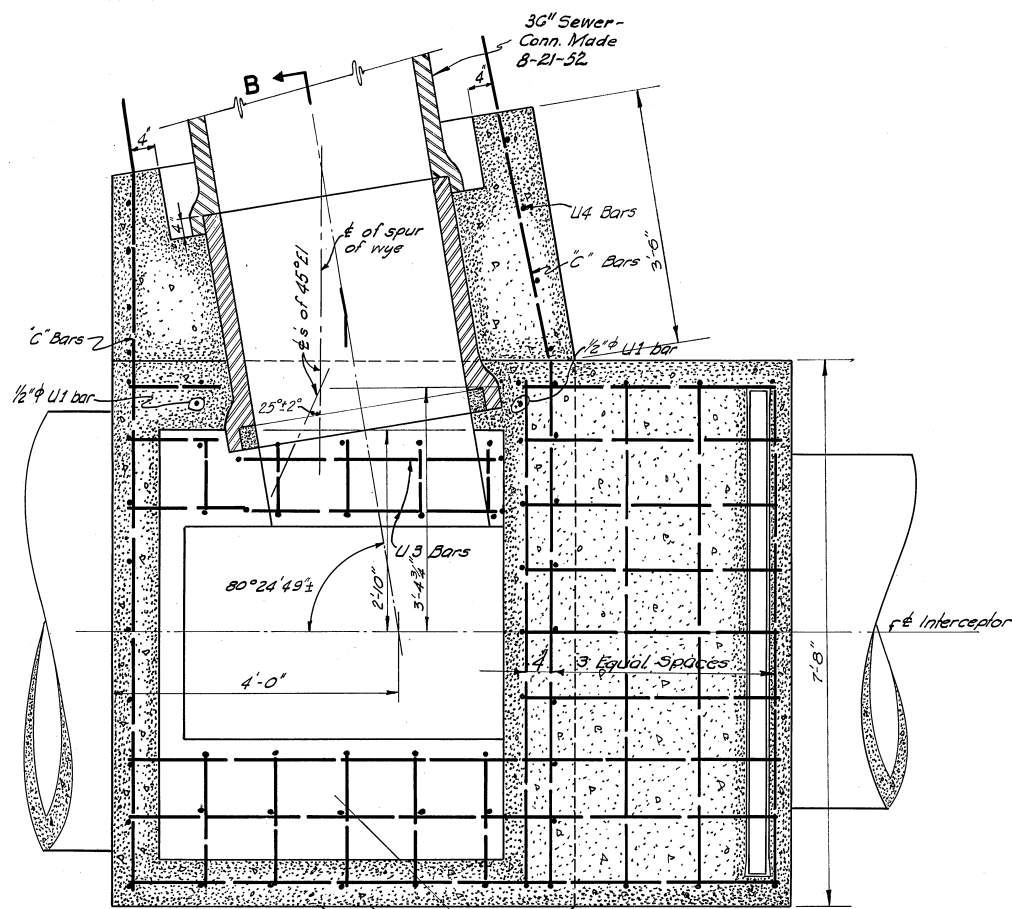
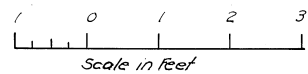
APPROVED: *R. Kennedy* R.E. 648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



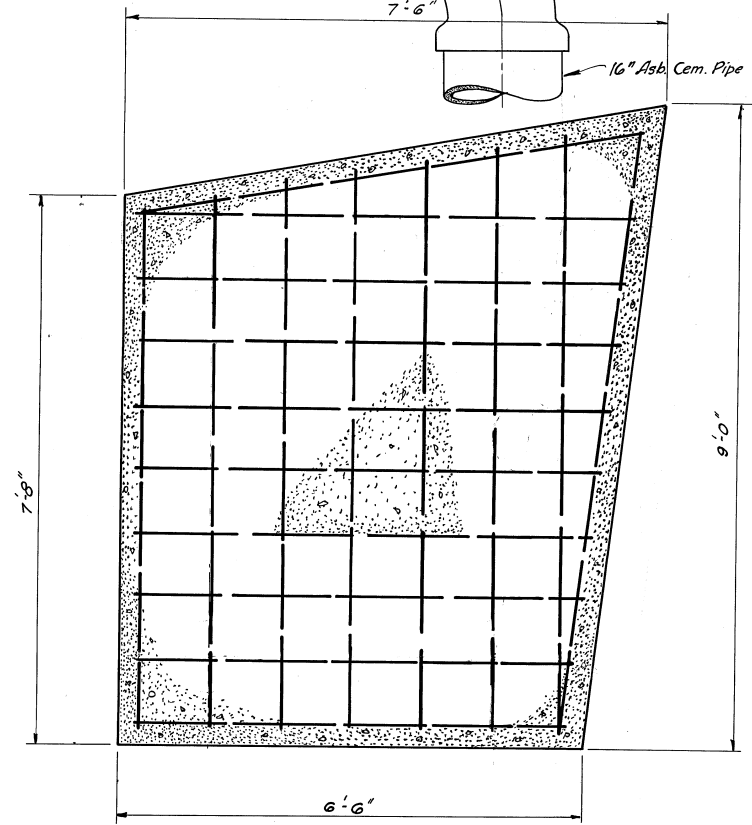
PLAN



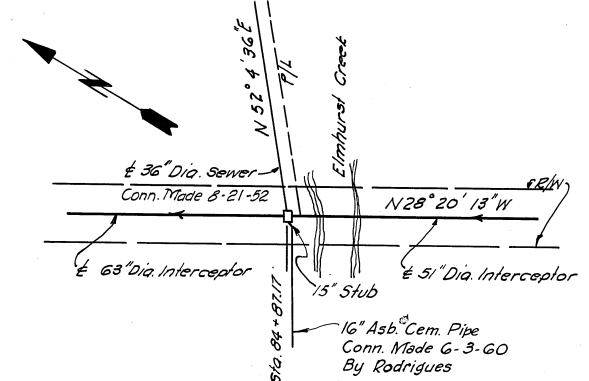
ROOF SLAB - BOTTOM BARS



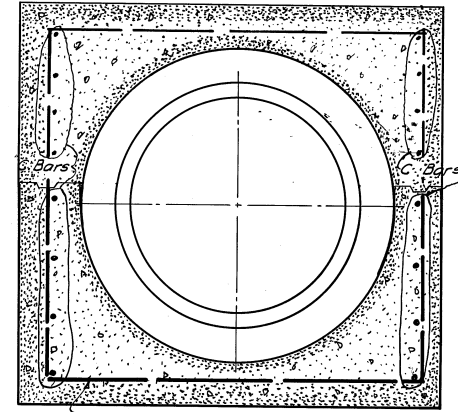
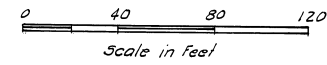
SECTION F-F



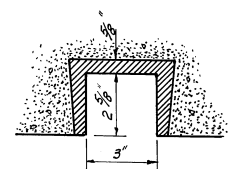
SECTION J-J



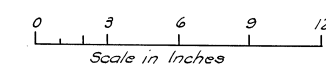
KEY PLAN



SECTION H-H



SECTION G-G



NOTES

- 1. For general notes see VG 866
- 2. Work this sheet with VG 872

REV. NO.	DATE	DESCRIPTION	BY	CHKD.
1	5-23-50	Added 15" Stub	RBB	J.G.P.

EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT No. 1  
OAKLAND, CALIFORNIA

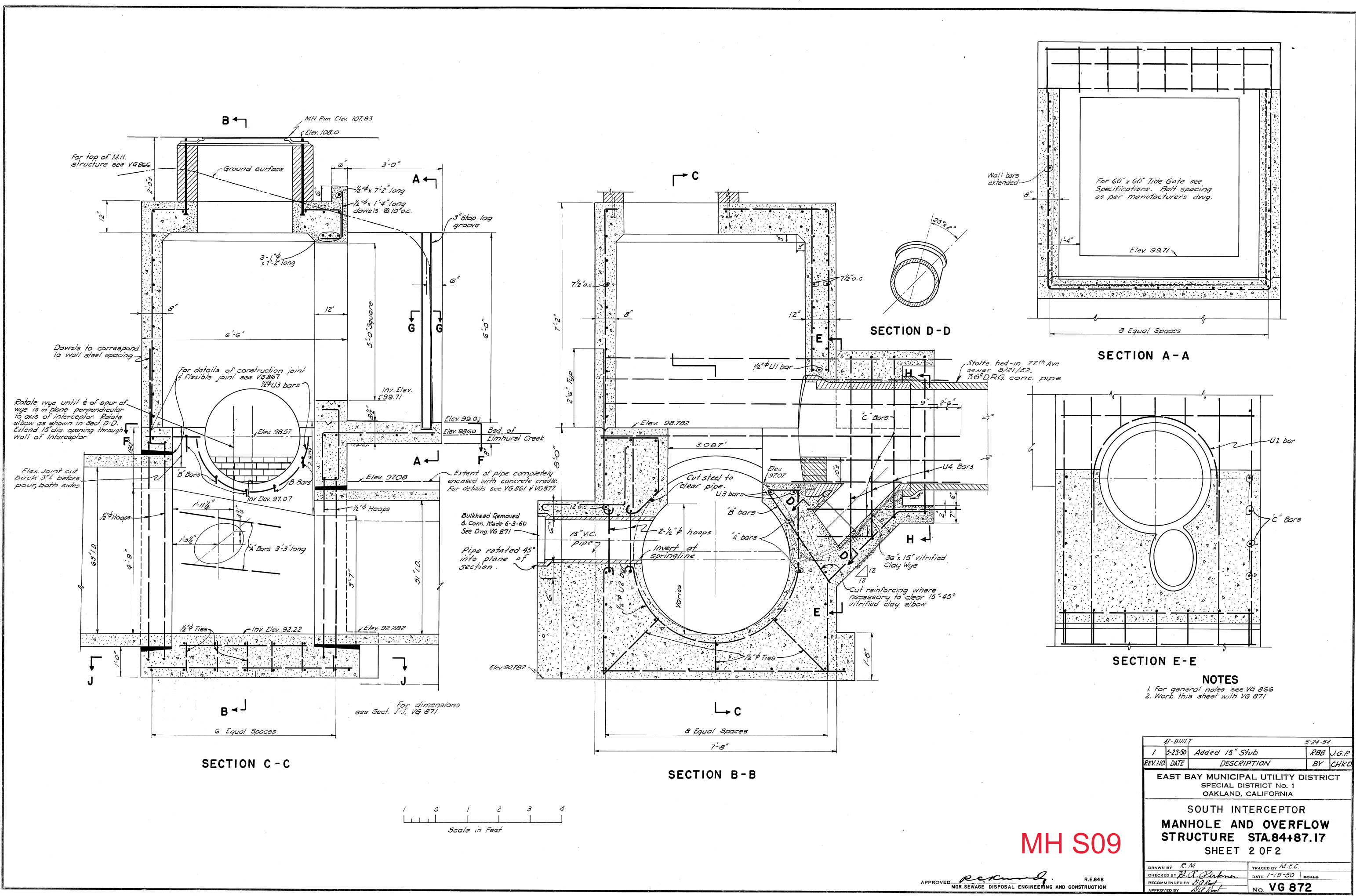
**SOUTH INTERCEPTOR  
MANHOLE AND OVERFLOW  
STRUCTURE STA. 84+87.17**

SHEET 1 OF 2

DRAWN BY R.M.	TRACED BY M.E.C.
CHECKED BY F.R. Baker	DATE 1-18-50
RECOMMENDED BY J.G.P.	NO. VG 871
APPROVED BY J.G.P.	

**MH S09**

APPROVED *Remondy* R.E.648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



SECTION A-A

SECTION C-C

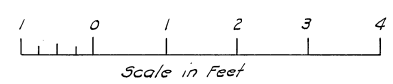
SECTION B-B

SECTION D-D

SECTION E-E

**NOTES**

- 1. For general notes see VG 866
- 2. Work this sheet with VG 871



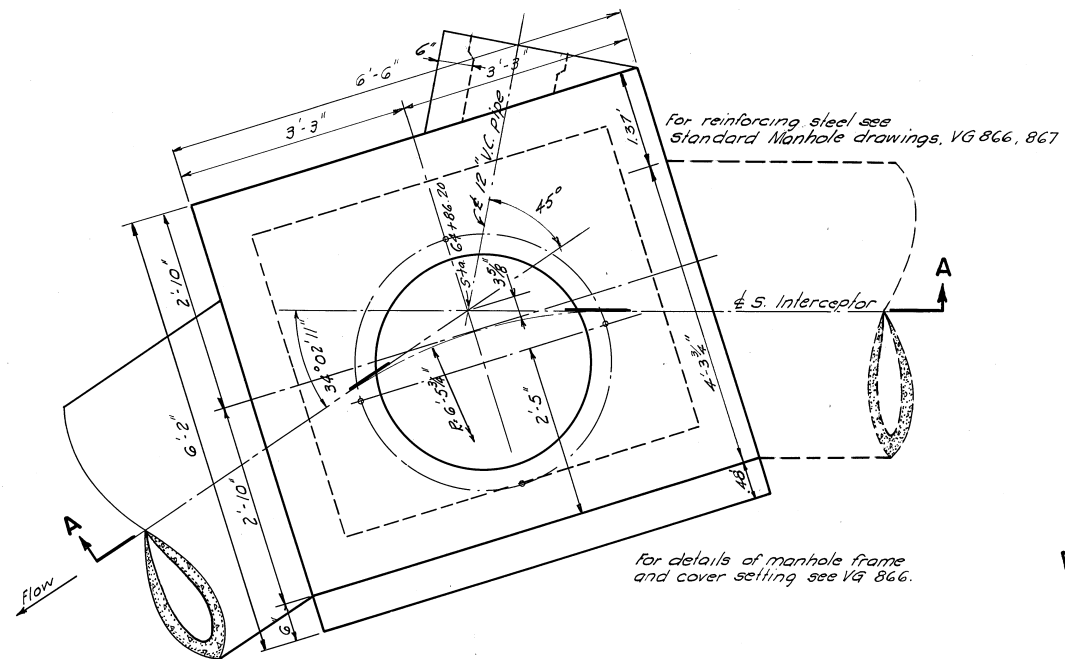
**MH S09**

41-BUILT		5-24-54	
1	5-23-50	Added 15" Stub	RBB J.G.P.
REV. NO.	DATE	DESCRIPTION	BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA			
SOUTH INTERCEPTOR MANHOLE AND OVERFLOW STRUCTURE STA. 84+87.17 SHEET 2 OF 2			
DRAWN BY R.M.		TRACED BY M.E.C.	
CHECKED BY L.A. Dickner		DATE 1-19-50	
RECOMMENDED BY S.A. Kent		SCALE	
APPROVED BY S.A. Kent		NO. VG 872	

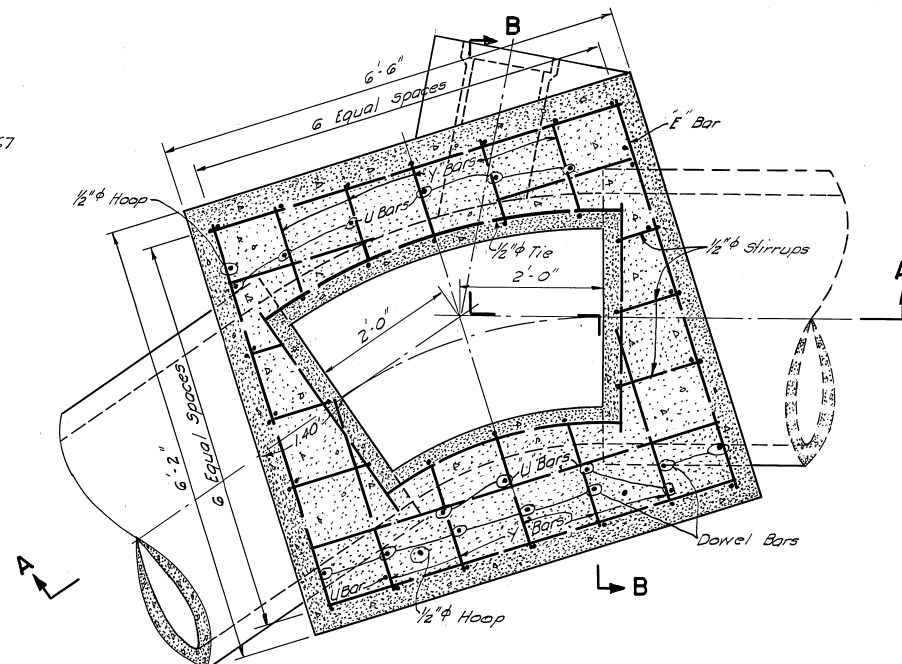
APPROVED *recondy* R.E. 648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION



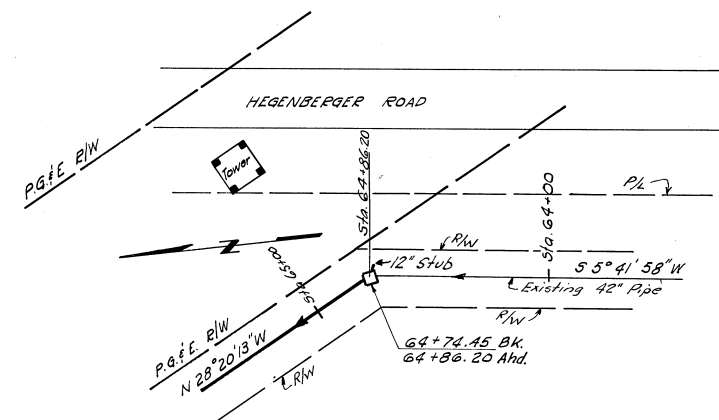




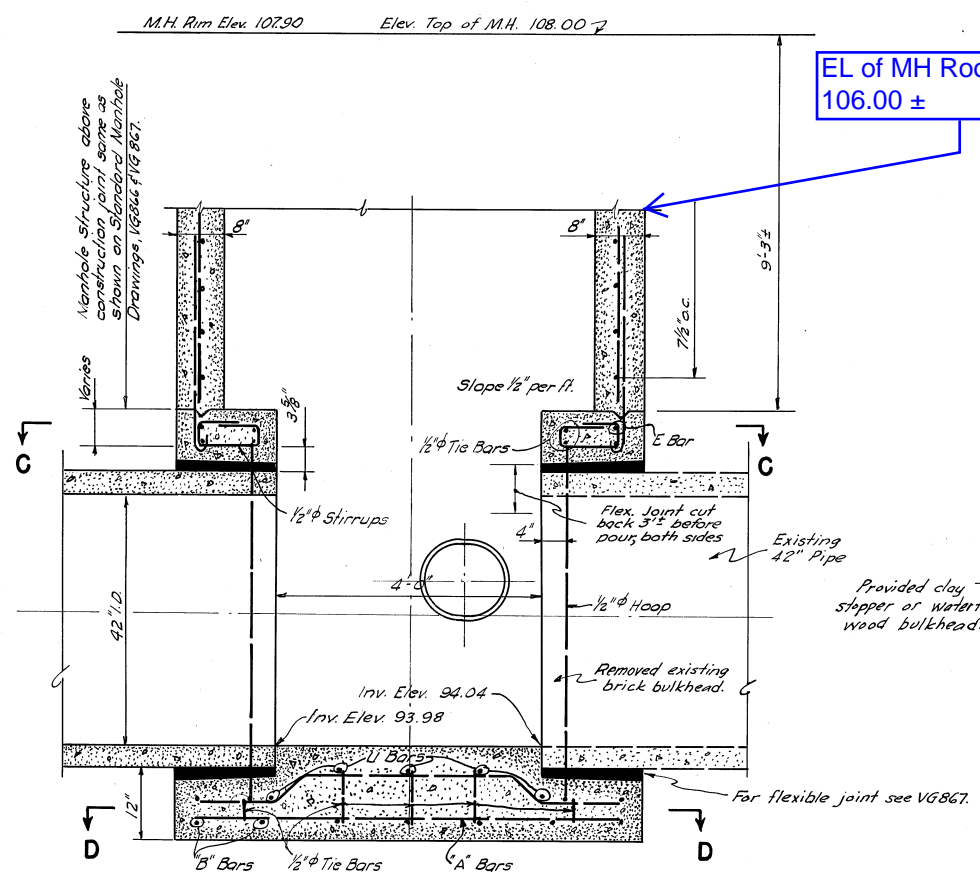
PLAN



SECTION C-C

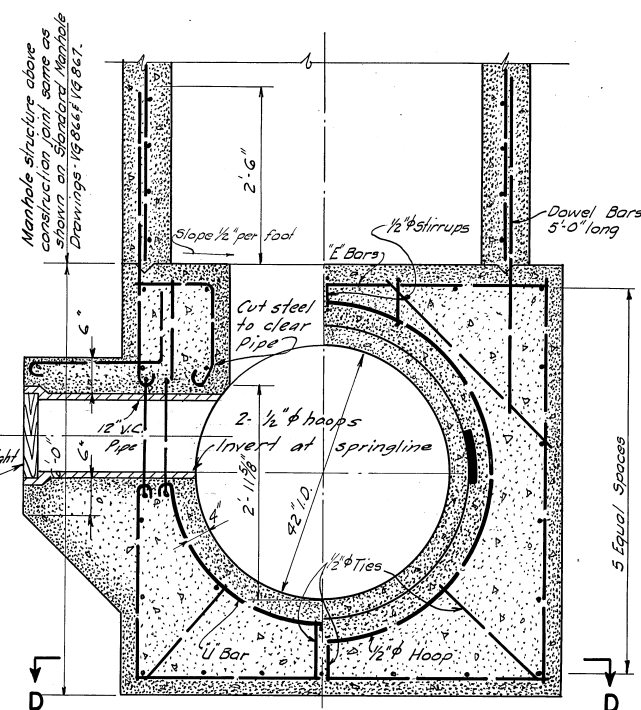


KEY PLAN  
Scale in feet

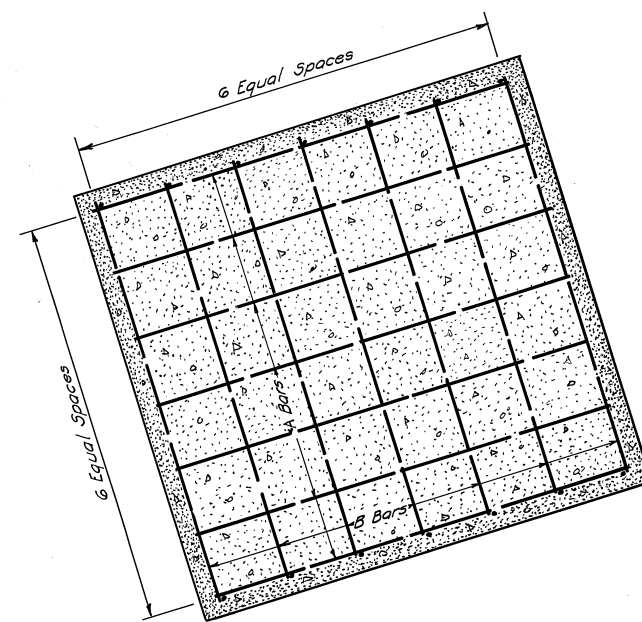


SECTION A-A

EL of MH Roof = 106.00 ±



SECTION B-B



SECTION D-D

- NOTES
- For general notes see VG 866.
  - For reinforcing steel not shown see VG 866, 867.

Scale in feet

AS-BUILT		5-24-54	
1	5-24-50	Added 12" stub	RBB J.G.P.
REV. NO.	DATE	DESCRIPTION	BY

EAST BAY MUNICIPAL UTILITY DISTRICT  
SPECIAL DISTRICT NO. 1  
OAKLAND, CALIFORNIA

SOUTH INTERCEPTOR  
MANHOLE STRUCTURE  
STA. 64+86.20

MH S06

APPROVED: *rekmund* RE-648  
MGR. SEWAGE DISPOSAL ENGINEERING AND CONSTRUCTION

DRAWN BY RBE/RWC  
CHECKED BY R.A. Patten  
RECOMMENDED BY R.A. Patten  
APPROVED BY R.A. Patten

TRACED BY MEC  
DATE 1-5-50  
NO. VG 874

