# SAUSALITO-MARIN CITY SANITARY DISTRICT

Marin County, California

## PLANS

FOR THE CONSTRUCTION OF

## SECONDARY SEDIMENTATION TANKS IMPROVEMENTS

NUTE ENGINEERING

907 Mission Ave. San Rafael, California Tel: 415-453-4480 Fax: 415-453-0343

**JUNE 2016** 

### **GENERAL PROJECT NOTES**

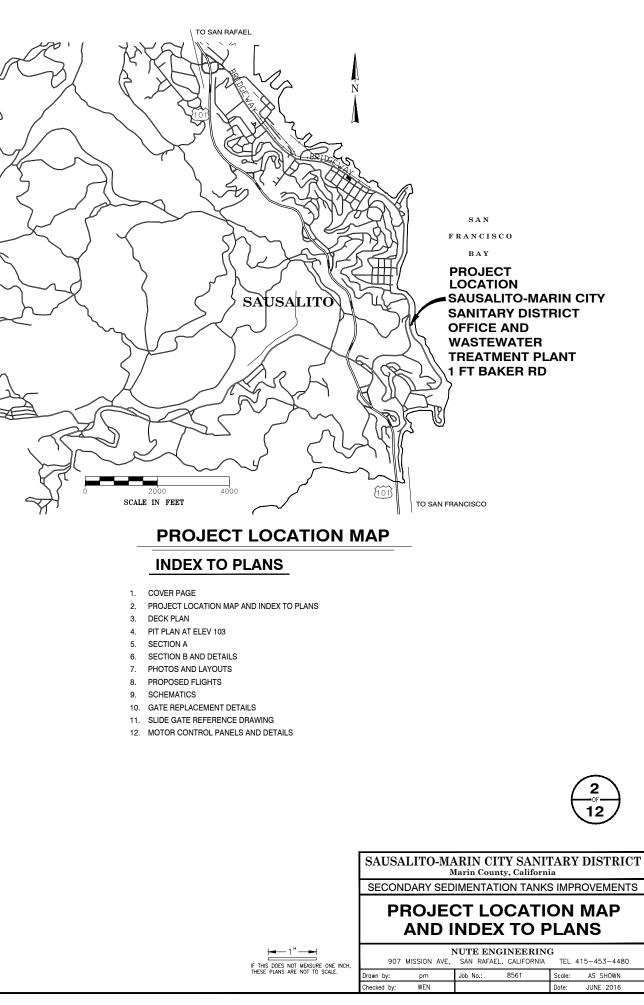
- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- HOURS OF WORK SHALL BE LIMITED TO 6:30 AM TO 3:00 PM MONDAY THROUGH FRIDAY 2. WITHOUT PRIOR WRITTEN APPROVAL
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, 3 AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOBSITE
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL OF THE WORK PERFORMED BY HIS SUBCONTRACTORS, WITHOUT EXCEPTION. 4.
- THE CONTRACTOR SHALL IDENTIFY A RESPONSIBLE CONTACT PERSON, WHO IS AN EMPLOYEE OF THE CONTRACTOR, AND A 24-HOUR TELEPHONE NUMBER TO CALL TO RESOLVE PROBLEMS WITH NOISE, DUST OR OTHER CONSTRUCTION-RELATED ISSUES.
- 6. WHILE WORKING ON THE PROJECT, THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH THE CONFINED SPACE ENTRY PROCEDURES FOR ALL PERMIT SPACE ENTRIES.
- TANK FLOOR WILL BE SPRAYED DOWN BUT NOT DISINFECTED. FLOORS WILL REMAIN SLIPPERY, ESPECIALLY WHEN WET. CONTRACTOR SHALL USE CAUTION WHEN WORKING ON TANK FLOOR TO PREVENT INJURY.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING , GAS DETECTORS, VENTILATION 8 FANS, CONFINED SPACE ATTENDANT EQUIPPED WITH SIGN IN/OUT SHEET, RESCUE TRIPOD, ETC. AS REQUIRED TO ENTER AND WORK IN A CONFINED SPACE AND AS OUTLINED IN OSHA'S PERMIT REQUIRED CONFINED SPACE GUIDELINES.
- 9. CONTRACTOR SHALL PROTECT SLUDGE TROUGHS/HOPPERS FROM ALL DEBRIS INCLUDING BUT NOT LIMITED TO CONCRETE, BOLTS, METAL FILINGS, ETC. ANY DEBRIS INTRODUCED INTO THE TROUGHS SHALL BE RECOVERED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ANY DAMAGE TO DOWNSTREAM EQUIPMENT CAUSED EITHER DIRECTLY OR INDIRECTLY BY CONSTRUCTION DEBRIS SHALL BE REPAIRED TO ITS PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO OWNER. ANY SUCH REPAIRS SHALL BE EXPEDITED AS NECESSARY TO MINIMIZE IMPACTS ON THE PROJECT SCHEDULE AND TO SUPPORT NORMAL OPERATION OF THE TREATMENT PLANT
- 10. THE CONTRACTOR IS RESPONSIBLE FOR OFF-HAUL AND DISPOSAL OF ALL REMOVED EQUIPMENT UNLESS NOTED OTHERWISE

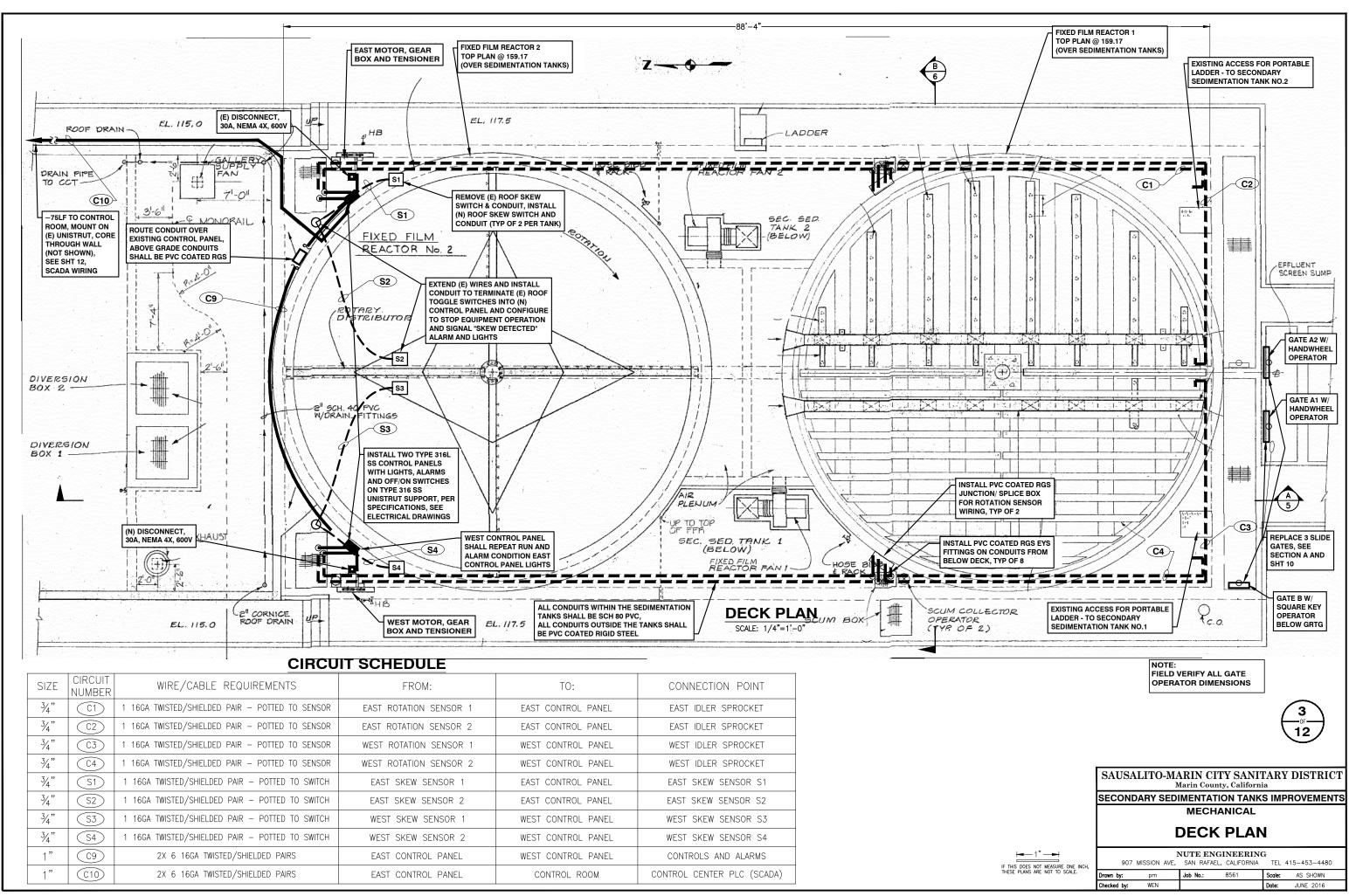
### LAYOUT NOTES

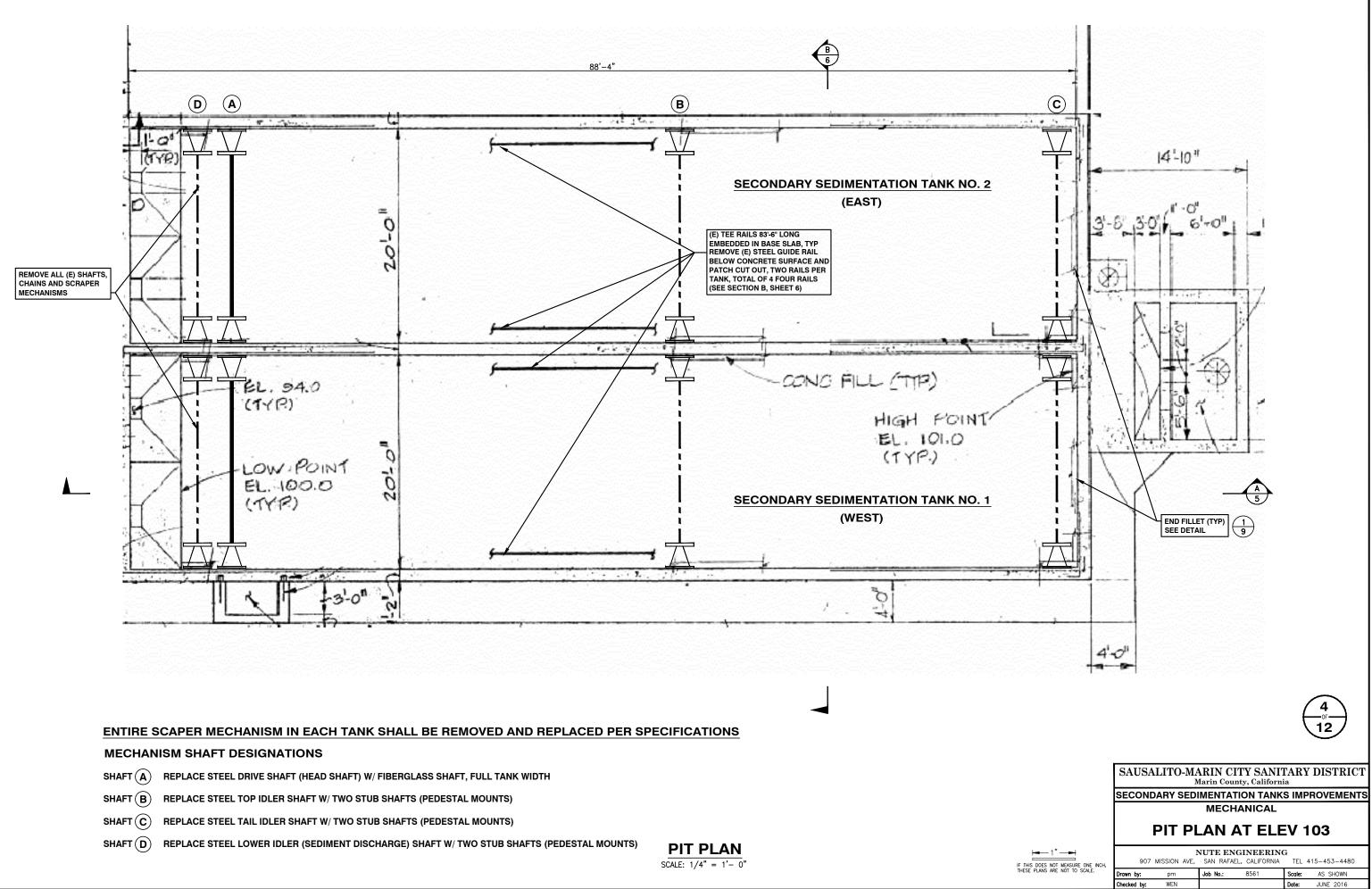
- 11 ALL FLEVATIONS ON THE DRAWINGS ARE ASSUMED
- 12. HORIZONTAL AND VERTICAL DIMENSIONS PROVIDED ON THE DRAWINGS ARE APPROXIMATE FIELD MEASUREMENTS MAY VARY FROM THOSE ON THE DRAWINGS
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD MEASUREMENTS OF EXISTING TANKS.
- 14 ALL LAYOUT AND INSTALLATION OF ALL FOUIPMENT SHALL BE IN ACCORDANCE WITH MAUNUFACTURER'S RECOMMENDATIONS AND TOLERANCES.
- 15. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO, IS INSUFFICIENTLY OR INCORRECTLY DETAILED OR EXPLAINED ON THESE PLANS, CONTRACTOR SHALL CONTACT THE DISTRICT'S REPRESENTATIVE FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 16. THE CONTRACTOR SHALL NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY, UPON DISCOVERY OF ANY POTENTIAL FIELD CONFLICTS.
- 17. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL SOUND CONTROL AND NOISE LEVEL RULES, REGULATION AND ORDINANCES WHICH APPLY TO ANY WORK PERFORMED UNDER THE CONTRACT. EACH INTERNAL COMBUSTION ENGINE USED ON THE PROJECT SHALL BE EQUIPPED WITH A MUFFLER RECOMMENDED BY THE MANUFACTURER. NO INTERNAL COMBUSTION ENGINE SHALL BE OPERATED ON THE PROJECT WITHOUT SAID MUFFLER. NOISE LEVELS SHALL BE KEPT TO THE SATISFACTION OF THE CITY OR COUNTY ENGINEER.
- 18. CONTRACTOR IS REQUIRED TO SUBMIT DETAILED AS BUILT DRAWINGS AND OPERATION AND MAINTENANCE MANUALS. FINAL PAYMENT OR RELEASE OF RETENTION WILL NOT BE APPROVED UNTIL AFOREMENTIONED SUBMITTALS HAVE BEEN FAVORABLY REVIEWED.

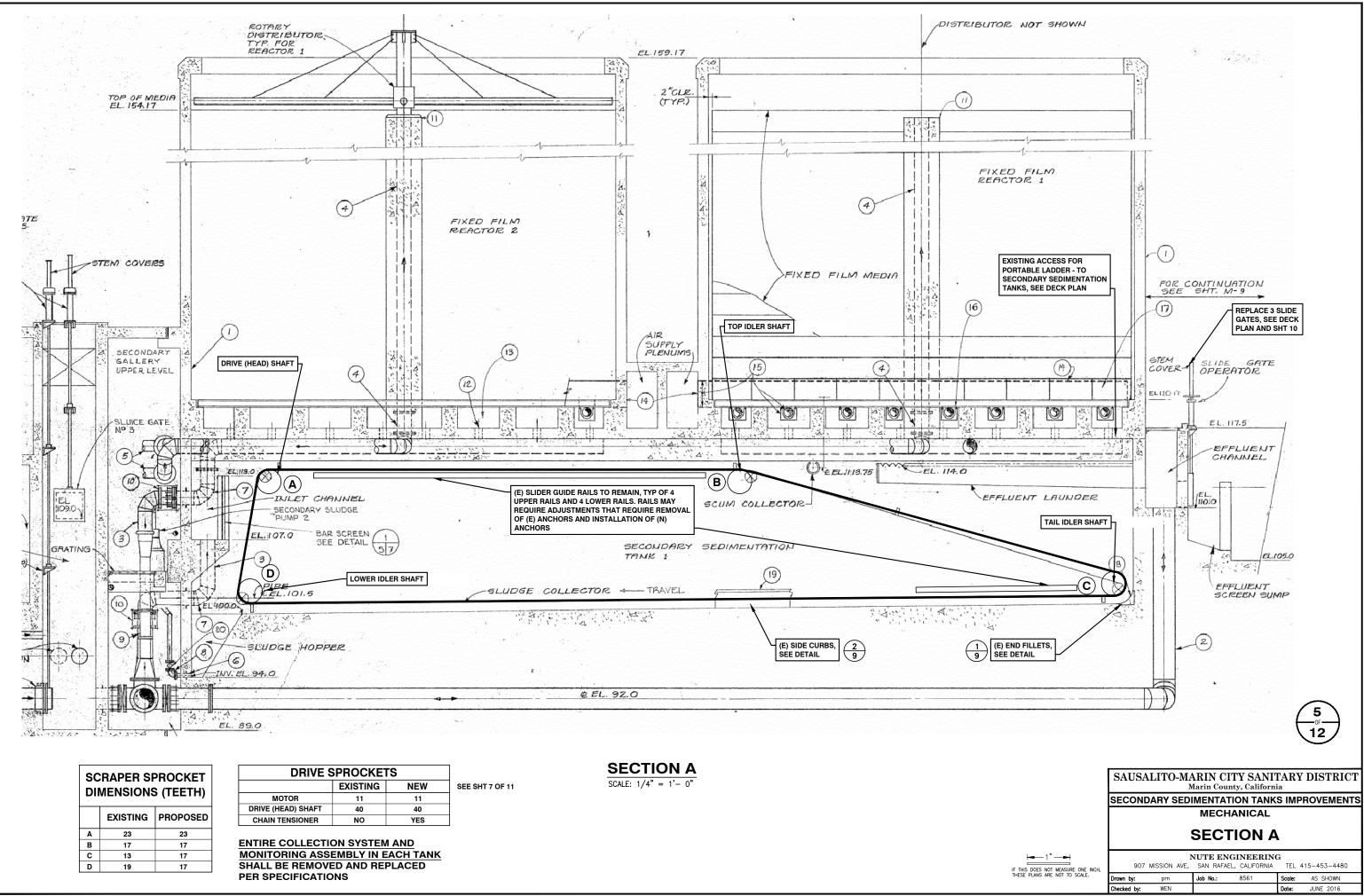
### **APPROVALS & COORDINATION NOTES**

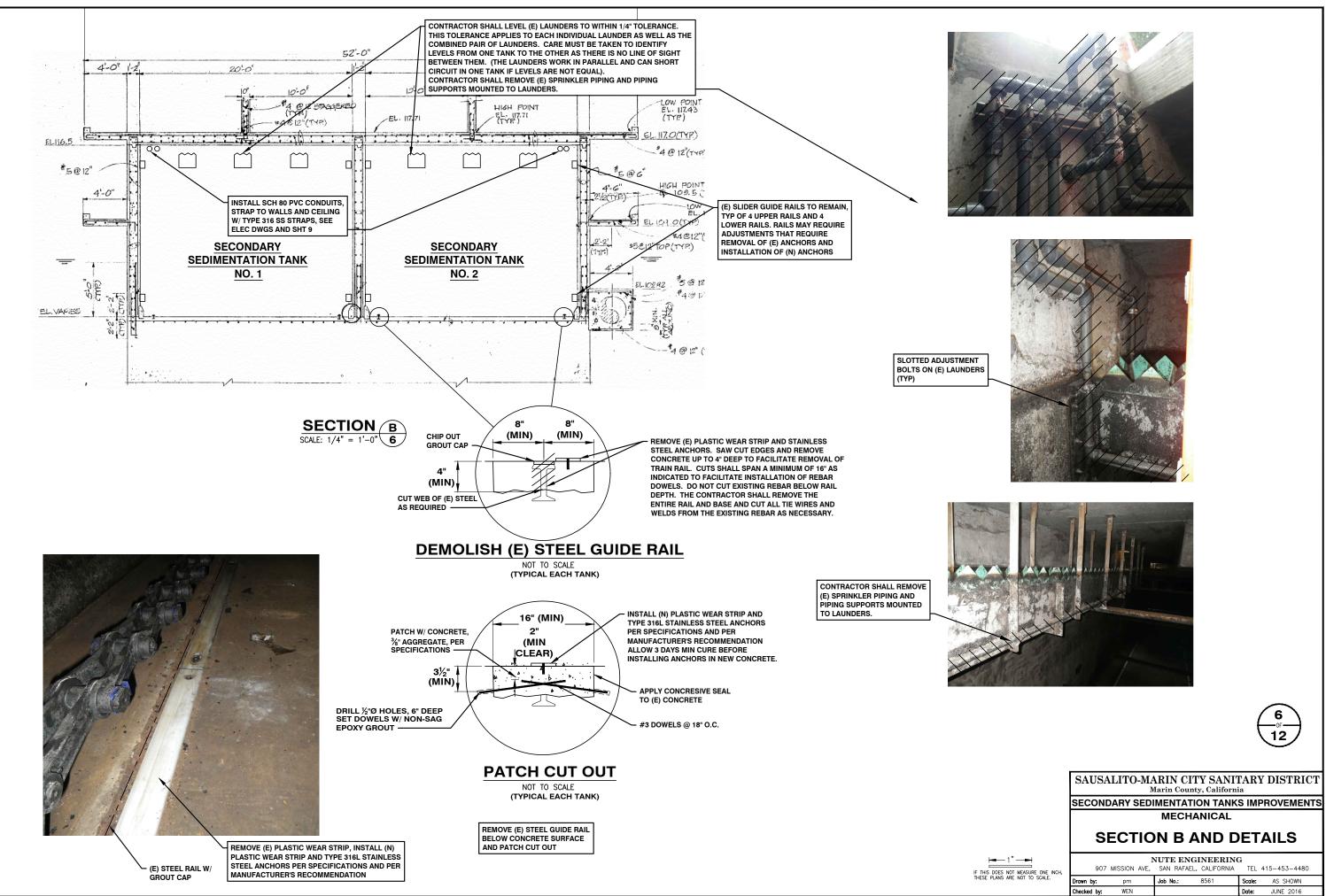
- 19. ALL SCADA AND ALARM SIGNALS AND TERMINATION POINTS SHALL BE COORDINATED WITH CALCON SYSTEMS (FRANK ORTEGA, 925-277-0665)
- 20. ALL CONNECTIONS TO SCADA AND PROGRAMMING TO BE PERFORMED BY OTHERS (CALCON SYSTEMS).
- 21. ALL CONNECTIONS TO POWER CIRCUITS AND ALL SHUTDOWNS SHALL BE COORDINATED WITH DISTRICT ASSOCIATE ENGINEER.
- 22. CONTRACTOR SHALL PROVIDE A GENERATOR SUITABLE TO MEET ALL TEMPORARY POWER REQUIREMENTS, SEE NOTE 13, ABOVE.





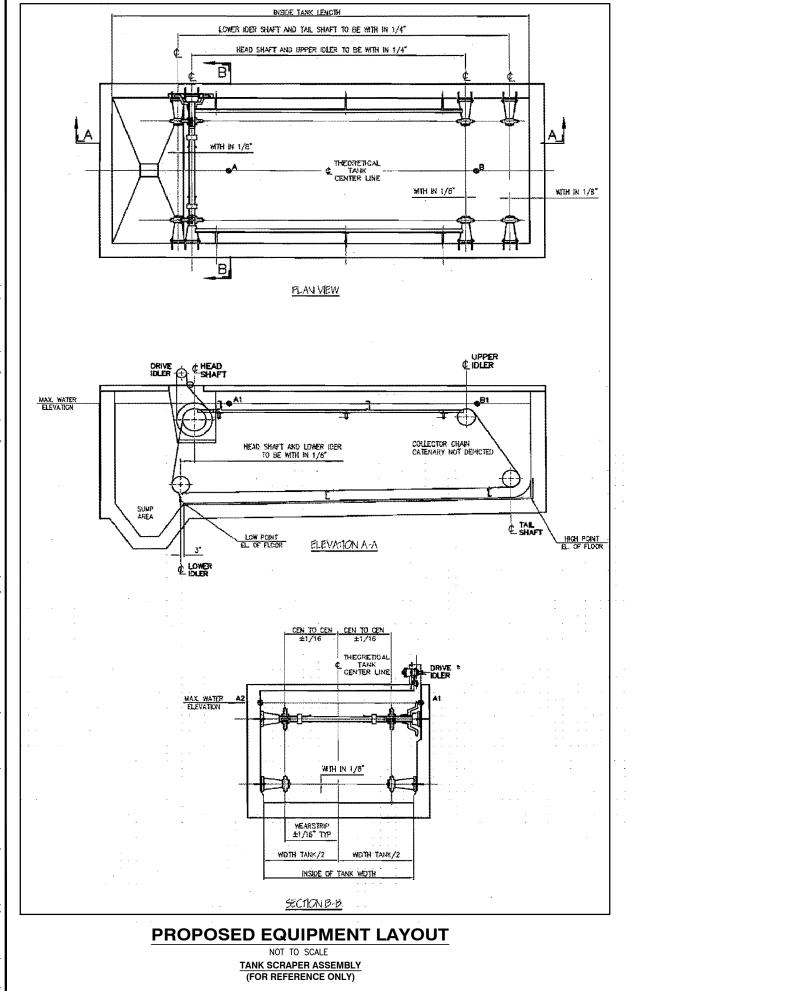






H	•	1"	
			MEASURE ONE INCH, NOT TO SCALE.

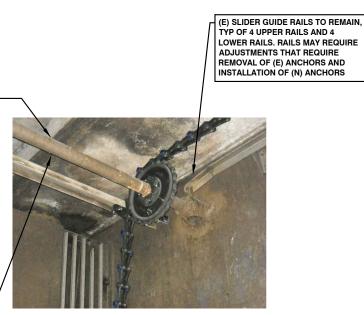
NUTE ENGINEERING									
	907	MISSION	AVE,	SAN	RAFAEL,	CALIFORNIA	TEL	415-453	5-4480
rawn t	by:	pm		Job N	lo.:	8561	Scale:	AS SI	HOWN
hecked	i by:	WEN					Date:	JUNE	2016



REMOVE (E) SHAFT AND ALL RELATED CHAIN COMPONENTS AND MOUNTING HARDWARE 110 SHAFT A NOT TO SCALE (E) DRIVE SHAFT AT MOTOR



SHAFT B NOT TO SCALE (E) TOP IDLER SHAFT



## SHAFT A NOT TO SCALE (E) DRIVE SHAFT AT DIVIDING WALL

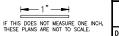
DRIVE (HEAD) SHAFT - THE CENTERLINE OF THE NEW SHAFT MOUNTS MAY BE RELOCATED UP TO 3" NORTH (TOWARD END WALL OF TANK) TO FACILITATE NEW ANCHORAGE MOUNTING POINTS AND IMPROVE CHAIN WRAP. MAINTAIN ALL CLEARANCES AND ALIGNMENTS REQUIRED BY THE MANUFACTURER. CONTRACTOR SHALL FIELD MEASURE AND COORDINATE

THE GEARBOX, TENSIONER AND SHAFT LOCATIONS SUCH THAT THE DRIVE CHAIN REMAINS FREE AND CLEAR OF EXISTING CONCRETE OPENING.

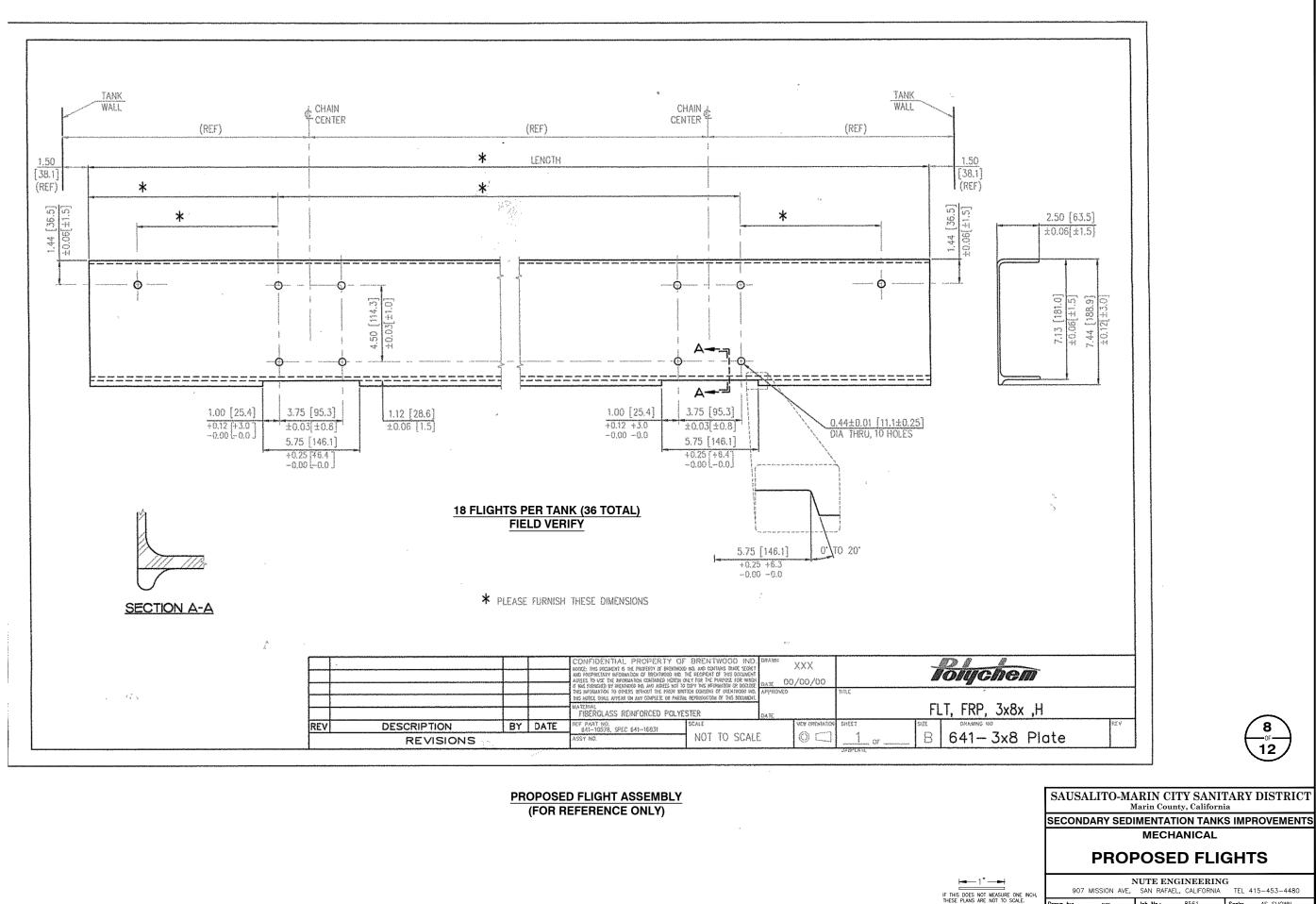
INSTALL NEW STUB SHAFT PEDESTAL MOUNTS. ADJUST SHAFT CENTERLINE LOCATION TO MANUFACTURER'S RECOMMENDED TOLERANCES.



SAUSALITO-MARIN CITY SANITARY DISTRICT Marin County, California SECONDARY SEDIMENTATION TANKS IMPROVEMENTS MECHANICAL **PHOTOS AND LAYOUTS** 



NUTE ENGINEERING							
907 MISSION AVE	SAN RAFAEL,	CALIFORNIA	TEL	415-453-4480			
Drawn by: pm	Job No.:	8561	Scale:	AS SHOWN			
Checked by: WEN			Date:	JUNE 2016			



Drawn by:

Checked by:

pm

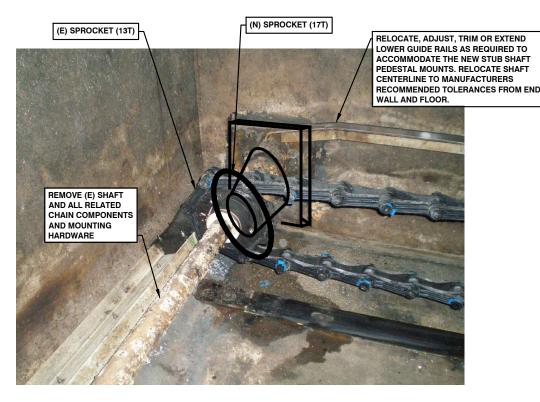
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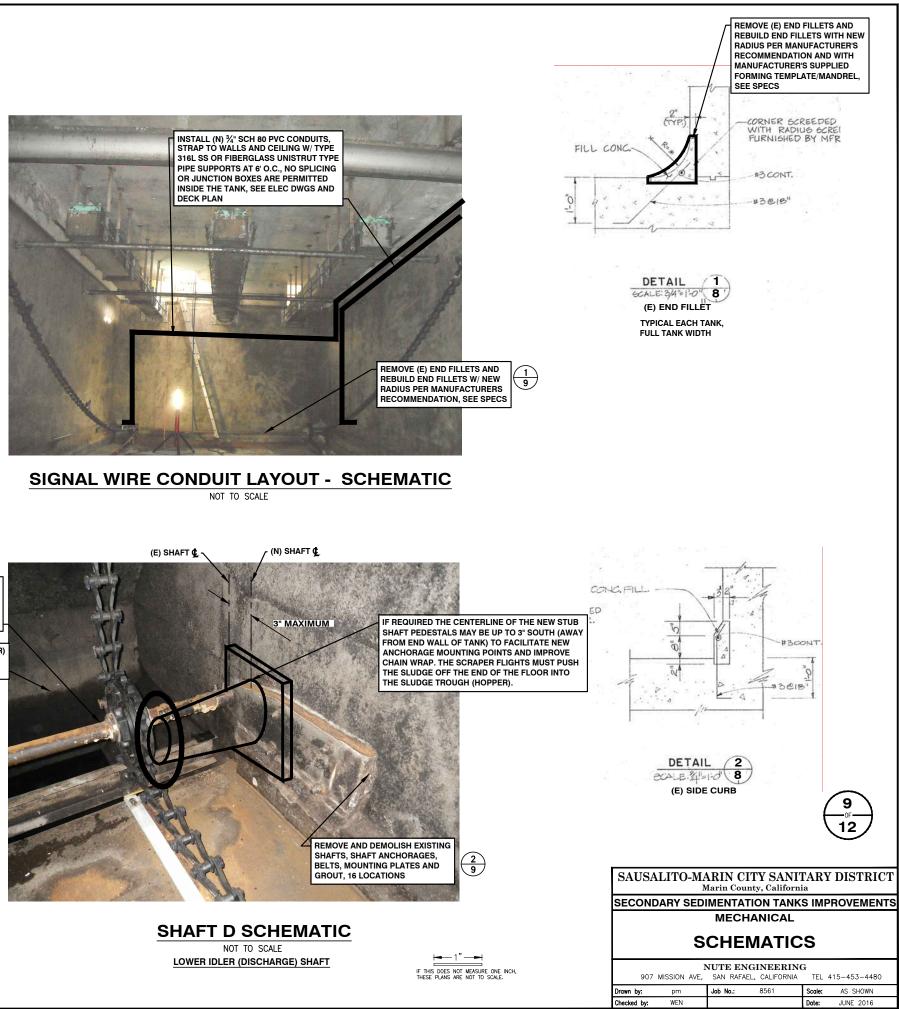
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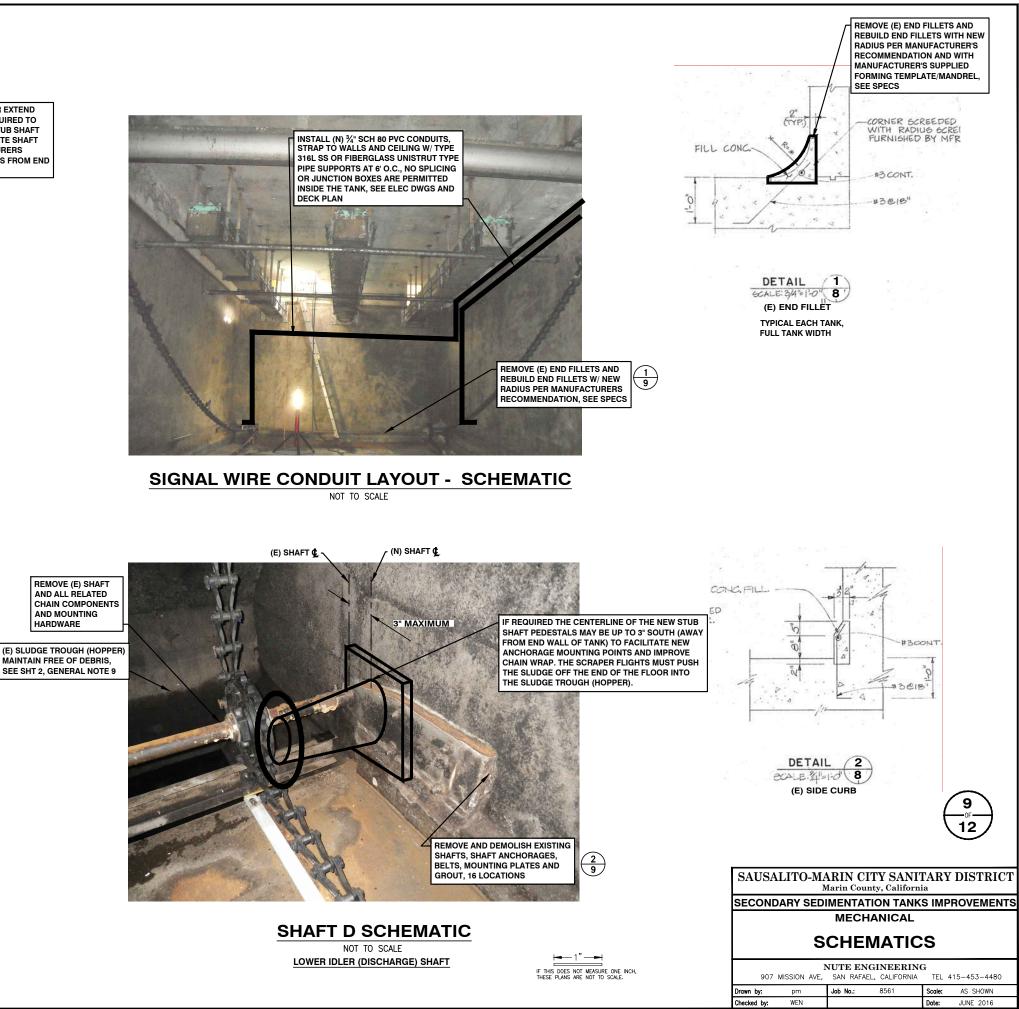
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Date: JUNE 2016



SHAFT C SCHEMATIC NOT TO SCALE TAIL IDLER SHAFT







	MECHANICAL					
	GAT	E REP	LACEMEN	T DETAILS		
IF THIS DOES NOT MEASURE ONE INCH,	907	-	NUTE ENGINEERIN SAN RAFAEL, CALIFORNIA	-		
THESE PLANS ARE NOT TO SCALE.	Drawn by:	pm	Job No.: 8561	Scale: AS SHOWN		
	Checked by:	WEN		Date: JUNE 2016		

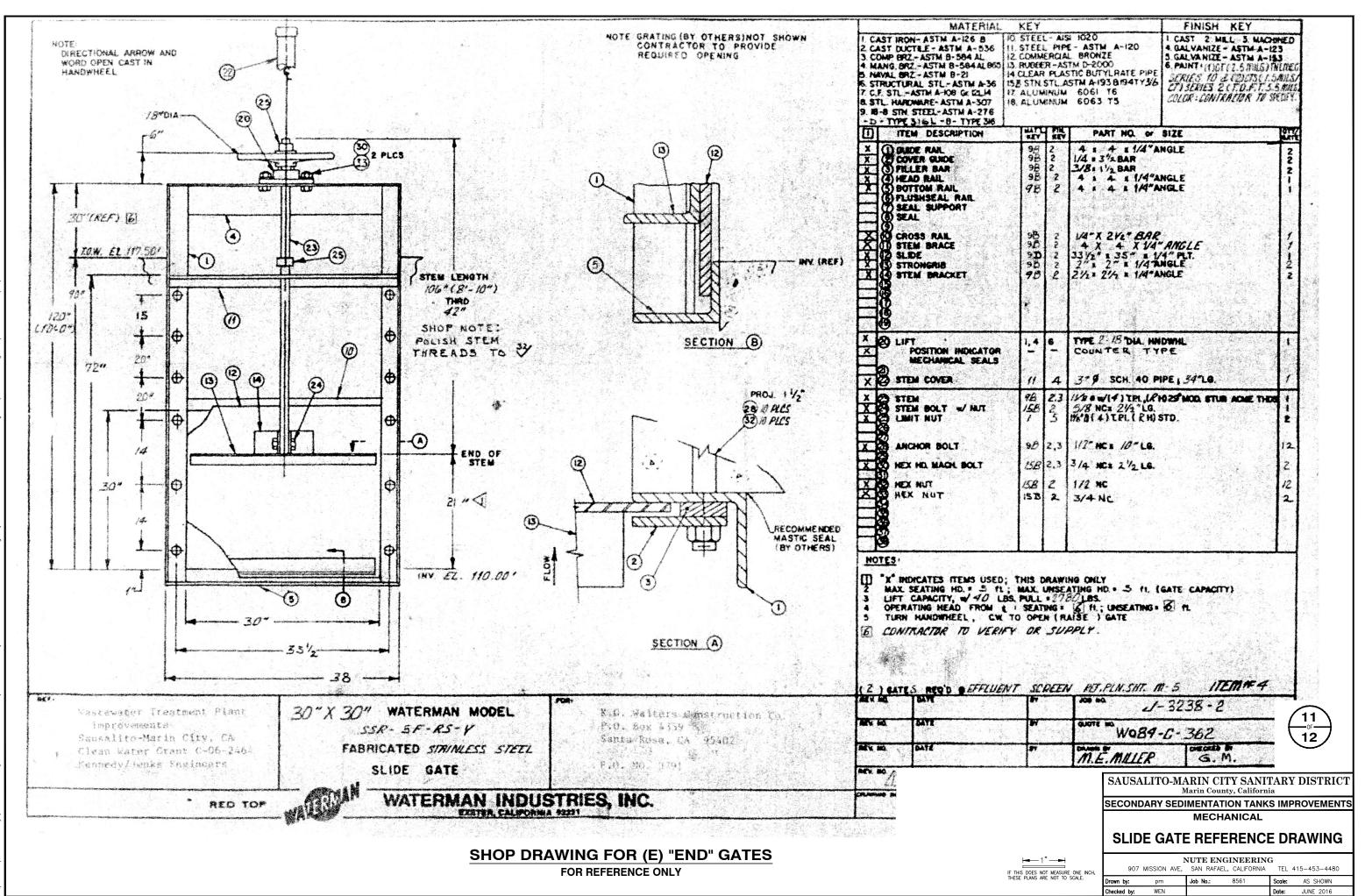
SAUSALITO-MARIN CITY SANITARY DISTRICT Marin County, California

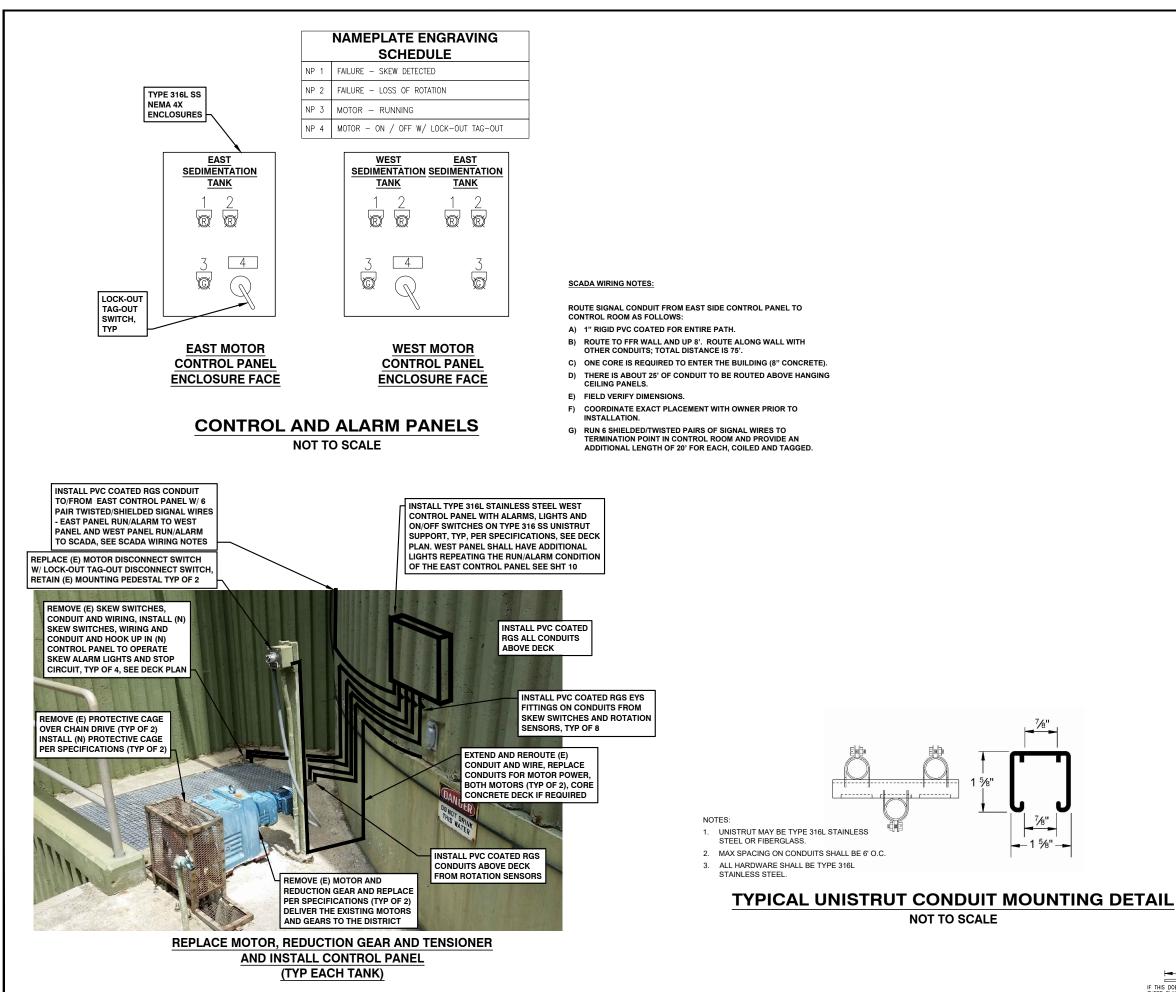
SECONDARY SEDIMENTATION TANKS IMPROVEMENTS

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REPLACE 3 SLIDE GATES, SEE DECK PLAN FOR LOCATIONS

NEW GATES MUST HAVE A WEDGE TYPE SEAL SUFFICIENT TO WITHSTAND (MIN) 15' UNSEATING HEAD PER SPECIFICATIONS. CONSTRUCTION MUST BE TYPE 316L STAINLESS STEEL OR FIBERLITE OR APPROVED EQUAL, PER SPECIFICATIONS.









**⊢**1" −► IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.

SAUSALITO-MARIN CITY SANITARY DISTRICT Marin County, California SECONDARY SEDIMENTATION TANKS IMPROVEMENTS

**MOTOR CONTROL PANELS** AND DETAILS

NUTE ENGINEERING							
907	MISSION AVE	SAN RAFAEL,	CALIFORNIA	TEL	415-453-4480		
Drawn by:	pm	Job No.:	8561	Scale:	AS SHOWN		
Checked by:	WEN			Date:	JUNE 2016		