# WEST BAY SANITARY DISTRICT

SAN MATEO COUNTY

## SAUSAL VISTA PUMP STATION PHASE II

REPLACEMENT OF THE SAUSAL VISTA PUMP STATION

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction sibility for job sire conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

### BOARD OF DIRECTORS

EDWARD P. MORITZ FRAN DEHN RONALD W. SHEPHERD DAVID WALKER ROY THIELE-SARDINA DIRECTOR

DATE:

9/15/2015

PRESIDENT **SECRETARY TREASURER** DIRECTOR

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### **LEGEND**

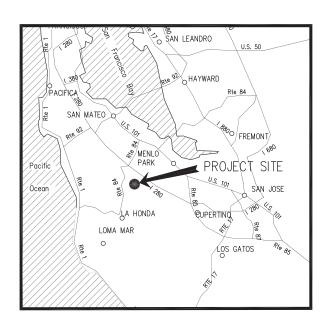
---- EXISTING PVC FORCE MAIN - EXISTING SS GRAVITY MAIN - SANITARY SEWER TO BE INSTALLED EXISTING SANITARY SEWER FORCE MAIN EXISTING GAS LINE - FXISTING UNDERGROUND FLECTRICAL LINE - EXISTING WATER LINE EXISTING STORM DRAIN ROLLED CURB AND GUTTER

CURB AND GUTTER

EXISTING JOINT POLE/ POWER POLE EXISTING WATER VALVE EXISTING WATER METER EXISTING CLEAN OUT EXISTING FIRE HYDRANT

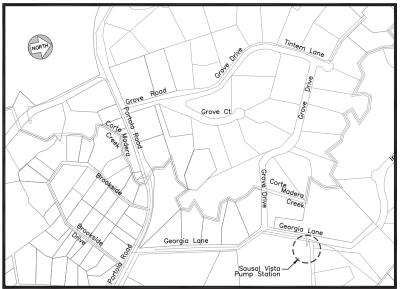
EXISTING SEWER / STORM DRAIN MANHOLE EXISTING ELECTRICAL PULL BOX EXISTING CATCH BASIN

TRAFFIC SIGN



REGIONAL LOCATION NTS

9/15/15 ISSUED FOR BID



PORTOLA VALLEY VICINITY LOCATION NTS

### West bay SANITARY DISTRICT SAN MATEO COUNTY

### PROJECT No. 1758.1

# SAUSAL VISTA PUMP STATION PHASE II **COVER SHEET**

### **GENERAL NOTES:** 1. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONSTRUCTION PLANS AND

- 2. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY 2. COMMACION ARREST INAI THE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY.

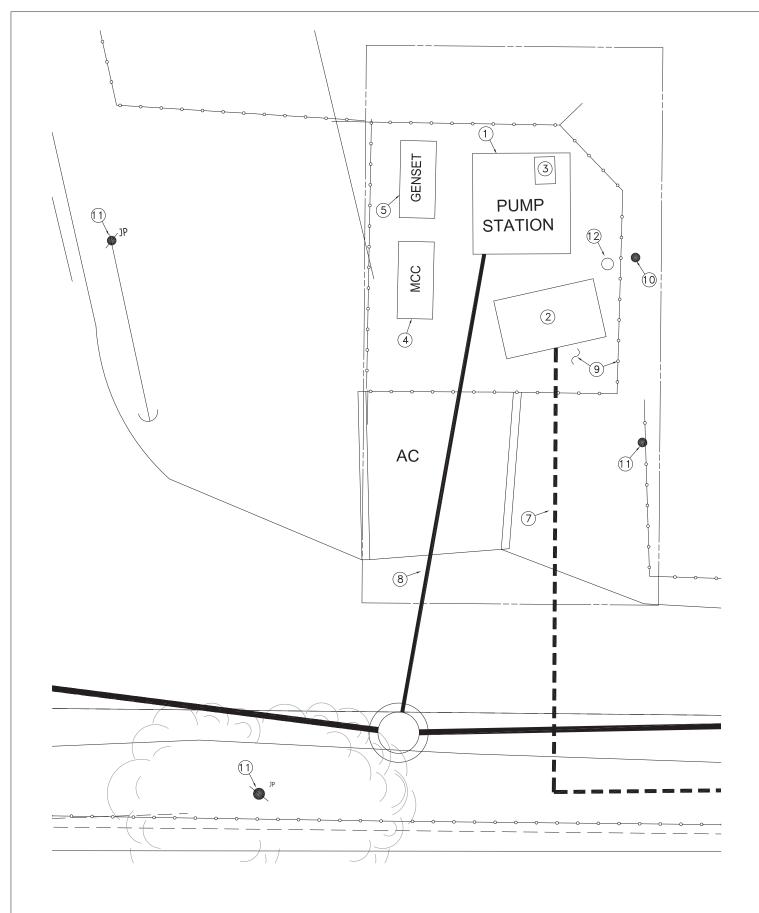
  FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE MEGLIGENCE OF THE OWNER OR THE THE PROJECT.
- 3. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE SPECIAL TECHNICAL PROVISIONS AND THE STANDARD SPECIFICATIONS OF THE WEST BAY SANITARY DISTRICT. ALL WORK NOT SPECIFICALLY COVERED IN THE STANDARD SPECIFICATIONS OF WEST BAY SANITARY DISTRICT AND THE SPECIAL TECHNICAL PROVISIONS FOR THESE IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.
- 4. THE WORK SHOWN ON THESE PLANS IS WITHIN THE JURISDICTION OF THE TOWN OF PORTOLA VALLEY, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS AND THE REQUIREMENTS OF THE ENCROACHMENT PERMIT.
- 5. THE LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE IMPROVEMENT PLANS ARE BASED ON INFORMATION FURNISHED BY SERVICING AGENCIES AND IS TO BE SUPPLEMENTED BY ACTUAL FIELD INVESTIGATION AND VERIFICATIONS BY CONTRACTOR. ATTENTION IS DIRECTED TO VERIFICATIONS OF DEPTHS AND EXACT LOCATIONS OF EXISTING SERVICES WHETHER SHOWN ON THE PLAN OR NOT AND THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PRESERVE AND AVOID DAMAGES TO EXISTING UTILITIES ENCOUNTERED. NOTE: EXISTING UTILITY SERVICES TO HOUSES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY PG&E. AT&T. CALIFORNIA WATER AND UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444, PRIOR TO ANY FIELD INVESTIGATION.
- 6. BEDDING MATERIAL SHALL BE AN IMPORTED VIRGIN GRANULAR MATERIAL FREE FROM VEGETABLE MATTER AND OTHER ORGANIC SUBSTANCES AND SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING, ROLLING AND TAMPING TO FORM A FIRM AND STABLE BASE, BEDDING MATERIAL SHALL CONFORM TO THE GRADATION REQUIREMENTS SHOWN ON THE DETAIL DRAWING.
- 7. RELATIVE COMPACTION AND IN-PLACE DENSITY SHALL BE DETERMINED AS DEFINED BY
- 8. EXISTING FLOWS MUST BE MAINTAINED BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS OF ANY INTERRUPTION OF SEWER SERVICES PRIOR TO ANY WORK ON EXISTING SEWER PIPES. SEWAGE FLOWS SHALL BE
- 9. ALL EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRIVEWAYS, CURB, GUTTER, SIDEWALK, CULVERTS, DRAINS, STRIPING (PAINTED OR THERMOPLASTIC) AND MONUMENTS, SHALL BE RESTORED TO THE CONDITION IN WHICH THEY WERE OR BETTER BEFORE THE EXCAVATION WAS MADE. PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE AND SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK INVOLVED.
- 10. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS IN REGARD TO TRAFFIC CONTROL. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN PRIOR TO THE START OF WORK TO BE APPROVED BY THE DISTRICT AND THE LOCAL JURISDICTION.
- 11. THE CONTRACTOR SHALL CONDUCT THEIR OPERATION AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC. THROUGHOUT THE PERFORMANCE OF THE WORK, OR IN CONNECTION TO THIS CONTRACT, THE CONTRACTOR SHALL CONSTRUCT AND ADEQUATELY MAINTAIN SUITABLE AND SAFE CROSSINGS OVER TRENCHES, DRIVEWAY ACCESS AND SUCH DETOURS AS ARE NECESSARY TO CARE FOR PUBLIC PEDESTRIAN TRAFFIC.
- 12. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OSHA RULES, REGULATIONS, AND ORDERS ESTABLISHED BY FEDERAL AND STATE AGENCIES BEFORE ENTERING SANITARY SEWER
- 13. IF THE CONTRACTOR PLANS TO USE MACHINERY WITH TRACKS, PLYWOOD SHALL BE 13. IF THE CONTRACTOR PLANS TO USE MACHINERY WITH TRACKS, PLYWOOD SHALL BE PLACED IN FRONT AND/OR BACK OF THE MACHINE (DEPENDING ON THE TRAYEL DIRECTION), SO THAT SURFACE DESTRUCTION IS AVOIDED. ANY SURFACE DESTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DISTRICT, TO THE SATISFACTION OF
- 14. THE REPLACEMENT OF SEWER MAINS SHALL BE CONSTRUCTED AT THE DESIGNED HORIZONTAL ALIGNMENT AND THE PROPOSED GRADE (DEPTH) AS SHOWN ON THE PLANS. THE EXISTING SEWER MAINS SHALL BE USED AS STATIONING CONTROL LINE. THE CONTRACTOR SHOULD BE ALERTED TO THE NEED FOR EXCAVATION BELOW EXISTING PIPE INVERT FOR PLACEMENT OF BEDDING MATERIALS AS SHOWN ON THE DETAIL DRAWINGS.
- 15. CONCRETE FOR MANHOLES SHALL MEET THE REQUIREMENTS OF CLASS 1 CONCRETE AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.
- 16. CONTRACTOR SHALL PROVIDE PUMPS OR OTHER MEANS TO PREVENT SEWER WASTE BACKUP DUE TO THEIR WORK ON THE EXISTING SEVERS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND DAMAGES CAUSED BY THEIR NEGLIGENCE, AND SHALL PAY ANY FINES DUE TO THEIR NEGLIGENCE.
- 17. PRIOR TO THE START OF SEWER CONSTRUCTION, THE CONTRACTOR SHALL PERFORM BYPASSING OPERATIONS. CONSTRUCTION CAN NOT BEGIN UNTIL BYPASSING OPERATIONS ARE
- 18. THE CONTRACTOR SHALL AT ALL TIMES HAVE AT THE JOB SITE SUFFICIENT PUMPING MACHINERY READY FOR IMMEDIATE LISE. THE TRENCHES AND EXCAVATIONS SHALL BE KEPT MACHINERY REAUT FOR IMMEDIATE OSE. THE TREATHES AND EXCAVATIONS SHALL BE REFI ENTIRELY FREE OF WATER WHILE CONCERTE IS BEING POURED OR PIPE IS BEING LAID AND UNTIL CONCRETE OR MORTAR HAS SET HARD. WATER SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, NOR BE A MENACE
- 19. ALL PROPERTY LINES SHOWN ARE APPROXIMATED FROM ASSESSORS PARCEL MAPS OR FROM RECORD INFORMATION, AND THEIR LOCATION MAY NOT BE EXACT. THE PROPERTY LINES SHALL BE USED AS REFERENCE TO LOCATE SERVICE LATERAL CONNECTION TO EACH PROPERTY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT LOCATION OF EACH PROPERTY LATERAL FOR CONNECTION.
- 20. THE NUMBER OF LATERALS SHOWN ON THE PLANS IS BASED ON T.V. INVESTIGATION LOSS, WHICH MAY INCLUDE BOTH LIVE AND DEAD LATERALS. FINAL NUMBERS TO BE USED FOR PAYMENT IS THE NUMBER OF LIVE LATERALS CONNECTED. THE CONTRACTOR SHALL SAWCUT THE ABANDONED LATERALS AT THE EDGE OF THE TRENCH AND PLUG THEM IN ACCORDANCE WITH THE DISTRICT'S STANDARDS.

SHEET 1

JOB NO. 1067

SCALE: AS NOTED DESIGNED: R.II. DRAWN: JJF CHECKED: RJL CIVIL ENGINEERS \* SURVEYORS \* CONSTRUCTION MANAGERS 144 North San Mateo Drive \* San Mateo, CA 94401 (650)344-9901 \* Fax (650)344-9920 \* www.freyerlaureta.com PROJ. ENGR: RJI BY DATE DESCRIPTION OF REVISIONS

PORTOLA VALLEY. CALIFORNIA



### CONTRACTOR NOTE:

GROUNDWATER WILL BE ENCOUNTED DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AND PROPER DISPOSAL OF GROUNDWATER. THE DISTRICT WILL ALLOW FOR THE TEMPORARY DISCHARGE OF GROUNDWATER INTO THE SANITARY SEWER SYSTEM FOR TWO DAYS (48 HOURS) TO ALLOW FOR THE CONTRACTOR TO INSTALL A COFFERDAM OR OTHER MEANS TO CONSTRUCT THE WET WELL..

#### NOTES

- 1 REMOVE EXISTING WET WELL
  ENTIRELY (INCLUDING PUMPS, COVER,
  ETC.) AND EXCAVATE TO NECESSARY
  DEPTH TO FACILITATE NEW WET
  WELL CONSTRUCTION. EXISTING
  PUMPS SHALL BE PROPERLY
  DISPOSED.
- ② REMOVE VALVE PIT ENTIRELY (INCLUDING ALL VALVES).
- ③ REMOVE AND PROPERLY DISPOSE EXISTING FUEL TANK.
- 4 REMOVE AND DELIVER TELEMETERY PANEL TO DISTRICT MAINTENANCE FACILITY ADJACENT TO BAYFRONT PARK IN MENLO PARK OR AS DIRECTED BY DISTRICT REPRESENTATIVE. REMAINING MCC TO BE PROPERLY DISPOSED.
- (5) EXISTING GENERATOR SHALL REMOVED AND PROPERLY DISPOSED. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID FUEL SPILL.
- 6 CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONDUIT AND WIRING.
- TREMOVE EXISTING FORCE MAIN BETWEEN EXISTING VALVE PIT AND PROPERTY LINE.
- (8) ABANDON EXISTING SS WHERE POSSIBLE. FILL WITH SAND/SLURRY AND PLUG BOTH ENDS WITH 12" CONCRETE. WHERE EXISTING SS IS ENCOUNTERED DURING INSTALLATION OF NEW GRAVITY SS, EXISTING PIPING SHALL BE REMOVED.
- REMOVE AND PROPERLY DISPOSE EXISTING CONCRETE SLAB AND CHAIN LINK FENCE.
- (10) EXISTING TREE SHALL BE REMOVED.
- 1 EXISTING POWER POLE SHALL BE PROTECTED IN PLACE.
- 12 PROTECT IN PLACE EX. WATER LINE, EXTEND TO NEW HOSE BIB/BACKFLOW PREVENTER LOCATION.

			GR	APHIC SC	ALE	
		) :	2		8   	16
( IN FEET ) 1 inch = 4 ft.						

DATE:	9/15/2015		9/15/15	ISSUED FOR BID		
SCALE:	AS NOTED					FREYER
DESIGNED:	RJL					ALIDETA.
DRAWN:	JJF					LAURETA, INC.
CHECKED:	RJL					CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS
PROJ. ENGR	R: RJL					144 North San Mateo Drive . San Mateo, CA 94401
		BY	DATE	DESCRIPTION OF REVISIONS	APP'D	(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com

SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1758.1



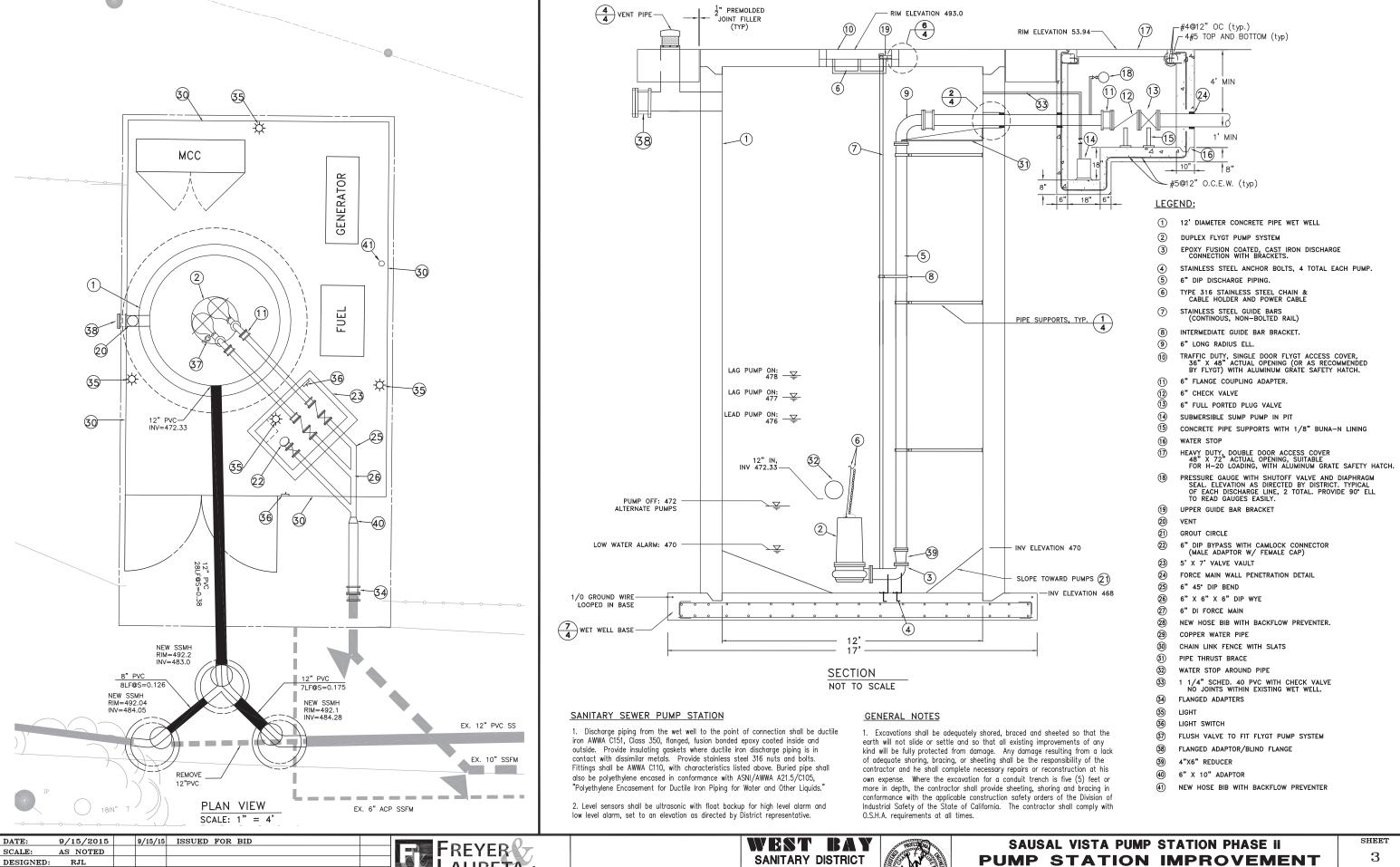
SAUSAL VISTA PUMP STATION PHASE II

PUMP STATION DEMOLITION PLAN

PORTOLA VALLEY, CALIFORNIA

SHEET 2

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BY DATE

DESCRIPTION OF REVISIONS

CHECKED:

PROJ. ENGR: RJL

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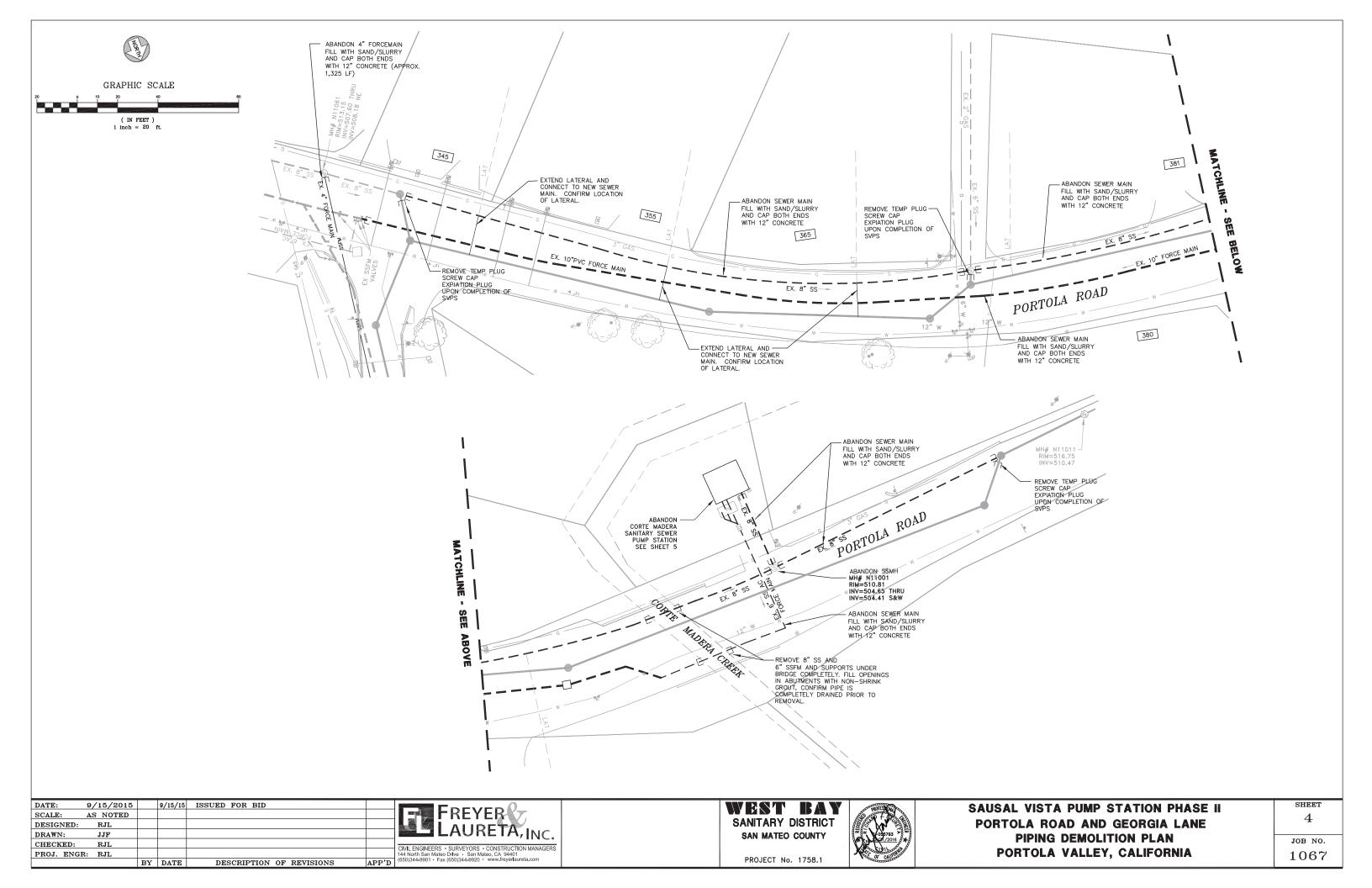
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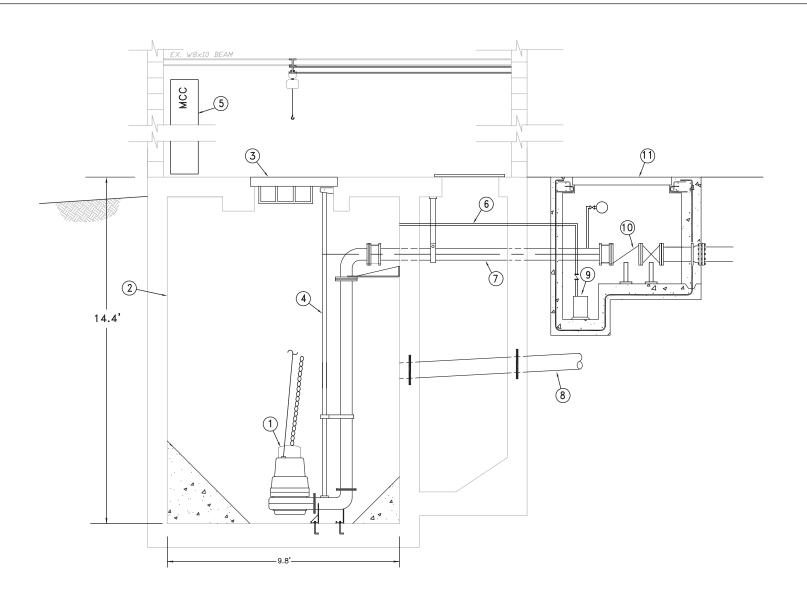


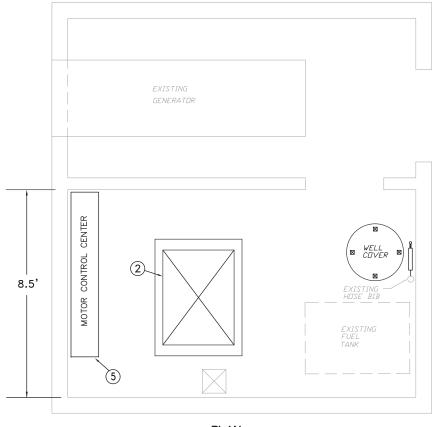
# PLAN AND SECTION PORTOLA VALLEY, CALIFORNIA

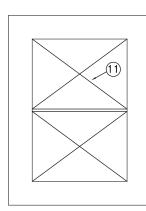
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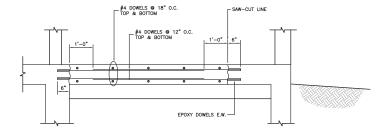






<u>PLAN</u>

### SECTION A



CONCRETE DECK

### NOTES:

- TREMOVE PUMPS AND DELIVER TO THE DISTRICT MAINTENANCE FACILITY NEAR BAYFRONT PARK IN MENLO PARK OR AS DIRECTED BY DISTRICT.
- CLEAN WET WELL AND FILL WITH CELLCRETE (30pcf) TO 10" BELOW DECK ELEVATION.
- 3 REMOVE 36"x48" WET WELL COVER AND GRATE. SEAL WITH CONCRETE DECKING AFTER PLACEMENT OF SLURRY.
- REMOVE ALL PIPING, SUPPORTS, BRACKETS, RAILS WITHIN WET WELL.
- (5) REMOVE AND PROPERLY DISPOSE OF MOTOR CONTROL CENTER. FILL ALL FLOOR PENETRATIONS UNDER THE MCC.
- 6 REMOVE SUMP PUMP PIPING.
- 7 REMOVE 6" DUCTILE IRON FORCEMAIN.
- (8) CAP 8" GRAVITY MAIN LINE WITH 12" CONCRETE PLUG.
- (9) REMOVE SUMP PUMP AND RETURN TO THE DISTRICT.
- (1) REMOVE ALL PIPING, VALVES, GAUGES WITHIN THE VALVE PIT.
- (1) DEMOLISH THE TOP 18" OF 5"X7"
  VALVE VAULT, FILL VALVE PIT AND
  VOID UP TO 6" BELOW GRADE WITH
  CELLCRETE (30pcf), PLACE 6" OF
  AC OVER SLURRY.

DATE:	9/15/2015		9/15/15	ISSUED FOR BID		
SCALE:	AS NOTED					FREYER
DESIGNED:	RJL					LAUDETA.
DRAWN:	JJF					LAURETA, INC.
CHECKED:	RJL					CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS
PROJ. ENGI	: RJL					444 North Con Martin Detra Con Martin CA 04404
		BY	DATE	DESCRIPTION OF REVISIONS	APP'D	(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com



PROJECT No. 1758.1

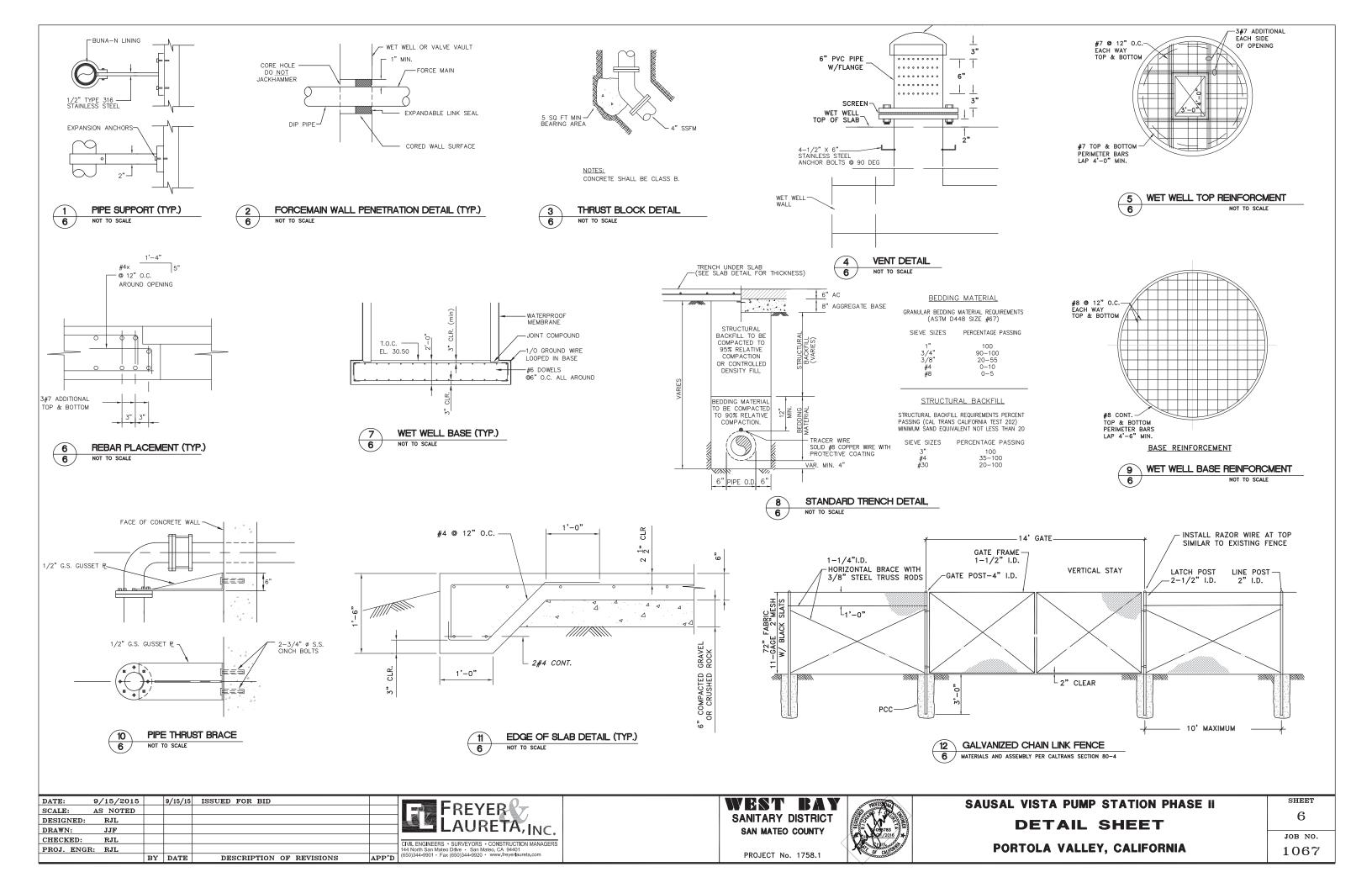
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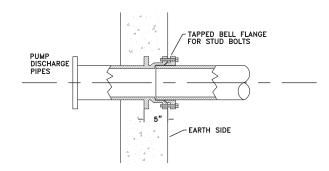
DETAIL SHEET

PORTOLA VALLEY, CALIFORNIA

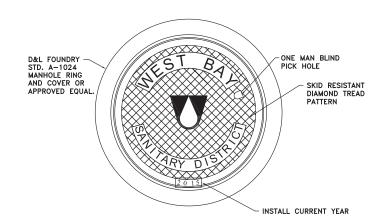
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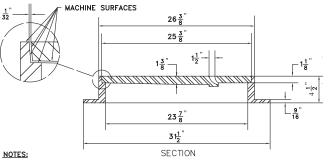
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WALL PIPE DETAIL (THROUGH 10' VALVE PIT WALL)



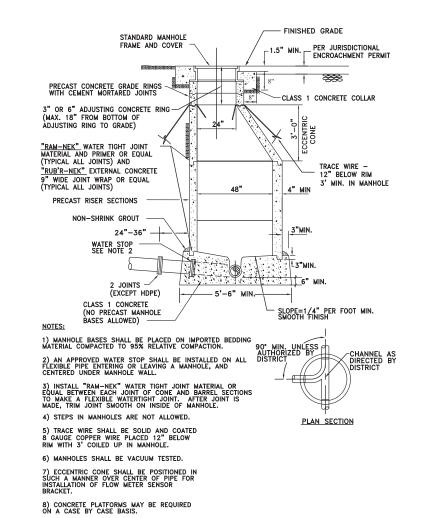


1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.

2) COVERS SHALL BE H-20, FULL VEHICULAR TRAFFIC LOADING, RATED AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.

3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.







DATE: 9	/15/2015		9/15/15	ISSUED FOR BID		
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		BY	DATE	DESCRIPTION OF REVISIONS	APP'D	(650)344



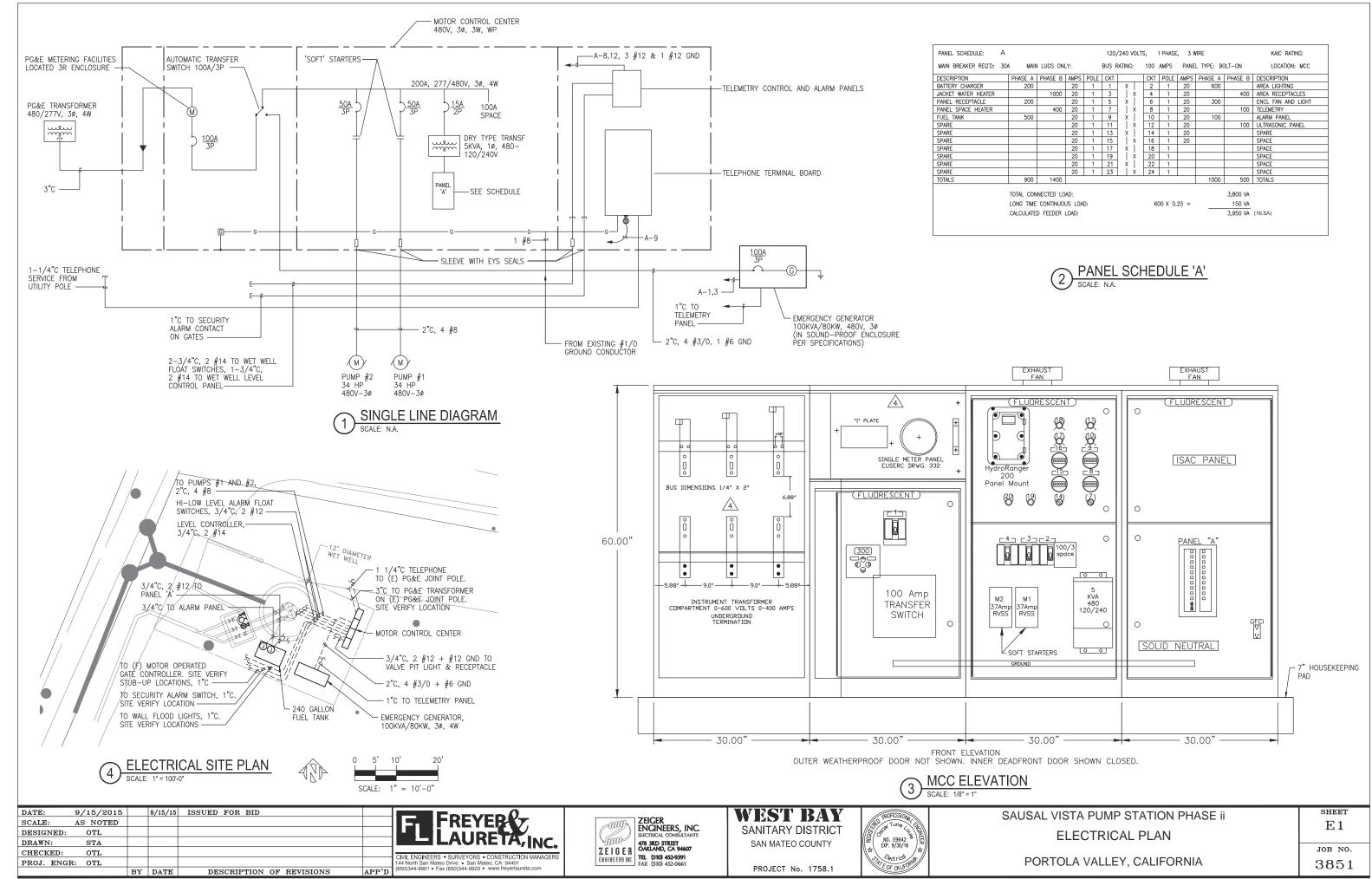


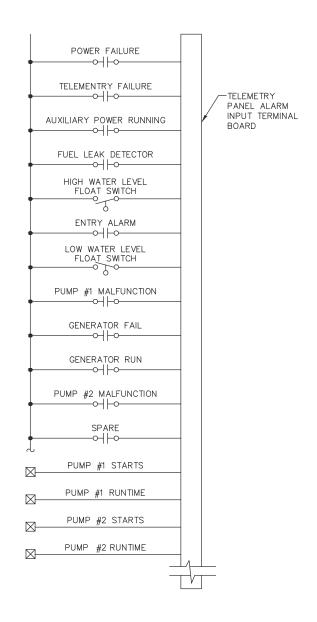
# SAUSAL VISTA PUMP STATION PHASE II **DETAIL SHEET PORTOLA VALLEY, CALIFORNIA**

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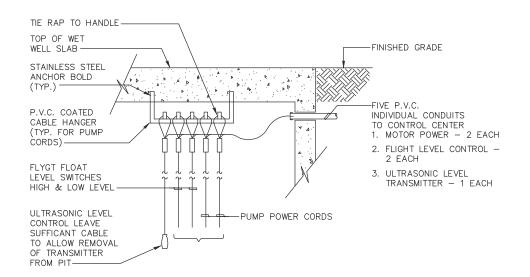
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PROJECT No. 1758.1

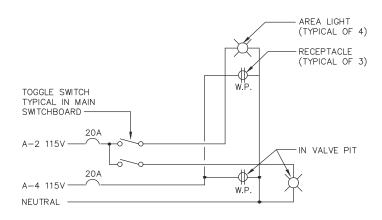




2 ALARM INPUT TERM. /BOARD DIAGRAM SCALE: NONE









DATE:	12/16/2014					
SCALE:	AS NOTED					FREYER
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CHECKED:	OTL					CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS
PROJ. ENG	R: OTL					444 North Con Mater Drive Con Mater CA 04404
		BY	DATE	DESCRIPTION OF REVISIONS	APP'D	(650)344-9901 • Fax (650)344-9920 • www.freyerlaureta.com







# SAUSAL VISTA PUMP STATION REPLACEMENT PROJECT ELECTRICAL DETAILS

E2

JOB NO. 3851