NEIGHBORHOOD #1 PUMP STATION

PUMP HOUSE - 16106 4S RANCH PARKWAY - SAN DIEGO, CA. 92127

1.56kW DC - 1.37kW CEC AC GRID-TIED ROOF MOUNTED PHOTOVOLTAIC SYSTEM

GENERAL PHOTON	OLTAIC NOTES:		GEN	IERAL ELECTRIC	AL NOTES:
 PHOTOVOLTAIC SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 690 OF THE 2013 CALIFORNIA ELECTRICAL CODE (CEC). SOLAR PV MODULES ARE MOUNTED FLUSH TO THE ROOF PLANE UNLESS OTHERWISE NOTED. SOLAR PV MODULES ARE NON—REFLECTIVE IN NATURE THIS PROJECT SHALL COMPLY WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE, 2013 CALIFORNIA ELECTRICAL CODE, AND CALIFORNIA FIRE CODE, NATIONAL ELECTRICAL CODE PLANS MEET THE CAL—FIRE WALKWAYS FOR SOLAR PHOTOVOLTAIC INSTALLATION GUIDELINES AND THE PATHWAYS ARE AT 36" FROM EAVE TO THE RIDGE AND 18" FROM ANY HIPS OR VALLEYS. CUSTOMER TO REMOVE OR RELOCATE EXISTING TREES, SHRUBS OR PLANTS AS NEEDED PER DESIGN FOR MAXIMUM EFFICIENCY OF SOLAR PANELS. 		4.	SHALL BE INSTALI BE IDENTIFIED EVE BENDS AND WITHII OF ROOF/CEILING, PHOTOVOLTAIC PO EXPOSED NON—CU MODULE FRAMES, ENCLOSURES SHAL NEC/CEC 250.134 VOLTAGE. EACH MODULE SHA CONNECTION POINT MANUFACTURERS IN IF THE EXISTING G BE VERIFIED OR IS THE CONTRACTORS	LED IN METALIC RAERY 10'-AND WITHIN N 1' ABOVE AND BIWALLS OR BARRIED WER SOURCE) WERENT CARRYING MEQUIPMENT AND COLL BE GROUNDED IN OR 250.136 (A) FOR LIBRET BE GROUNDED IN THE STRUCTIONS.	N 1' OF TURNS OR ELOW PENETRATIONS RS. (WARNING! ETAL PARTS OF ENDUCTORS NACCORDANCE WITH REGARDLESS OF THE EMODULE AND THE E
7. N/A			ALL EXPOSED CON EXISTING SURFACE.	DUIT TO BE PAINTE	D TO MATCH
8. ALL DIMENSIONS TO BE VERIFIE	ED IN FIELD BY PV			CSI DATA	
CONTRACTOR.				TILT	AZIMUTH
9. A LADDER SHALL BE SET UP A OF INSPECTION	ND READY AT THE TIME		ARRAY 1	18°	168°
ROOF MATERIAL:	PROJECT DATA:			VICINITY MA	AP:
T. Carrier	JURISDICTION/AGENCY OLIVENHAIN MUNICIPAL WATER	R DI	ISTRICT	Stone Ranch Elementary School	GC.

DRAWING	INDEX

TS TITLE SHEET

PV-0.1 NOTES

PV-1 SITE/ROOF PLAN

PV-2 SOLAR MODULE MOUNTING DETAIL

PV-3 RACKING DETAILS

PV-4 ELECTRICAL SINGLE LINE DIAGRAM

PV-5 NEC 690 PLACARDS

PROJECT SCOPE:

INSTALLATION OF A 1.37kW CEC AC GRID—TIED, ROOF MOUNTED PHOTOVOLTAIC SYSTEM CONSISTING OF THE FOLLOWING MAJOR COMPONENTS OR EQUAL:

(6) <u>MODULES</u>

MANUFACTURE: SOLARWORLD MODEL # : SW260 MONO

WATTS: 260 SqFt: 102.84

(6) <u>MICRO-INVERTERS</u>

MANUFACTURE: ENPHASE

MODEL # : M250

WATTS: 250

ELECTRICAL

SOLAR

LICENSE #

950771

CONTRACTORS

11/26/14

1.56kW DC

1.37kW AC

NEIGHBORHOOD

#1 PUMP

STATION 16106 4S RANCH

PARKWAY

SAN DIEGO, CA.

92127

580 AIRPORT ROAD OCEANSIDE, CA 92058 P: 760-966-8060 F: 760-966-8056 CAL. LIC.# 950771 A,B,C-10

INFO@HERCASOLAR.COM WWW.HERCASOLAR.COM

HECTOR R. CASTELLON

SIG.

PROJECT NO.: D701062

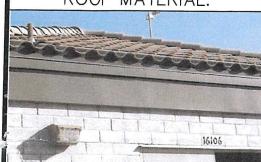
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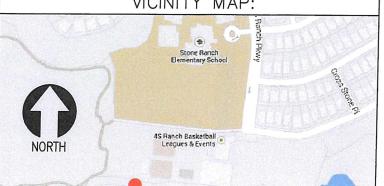
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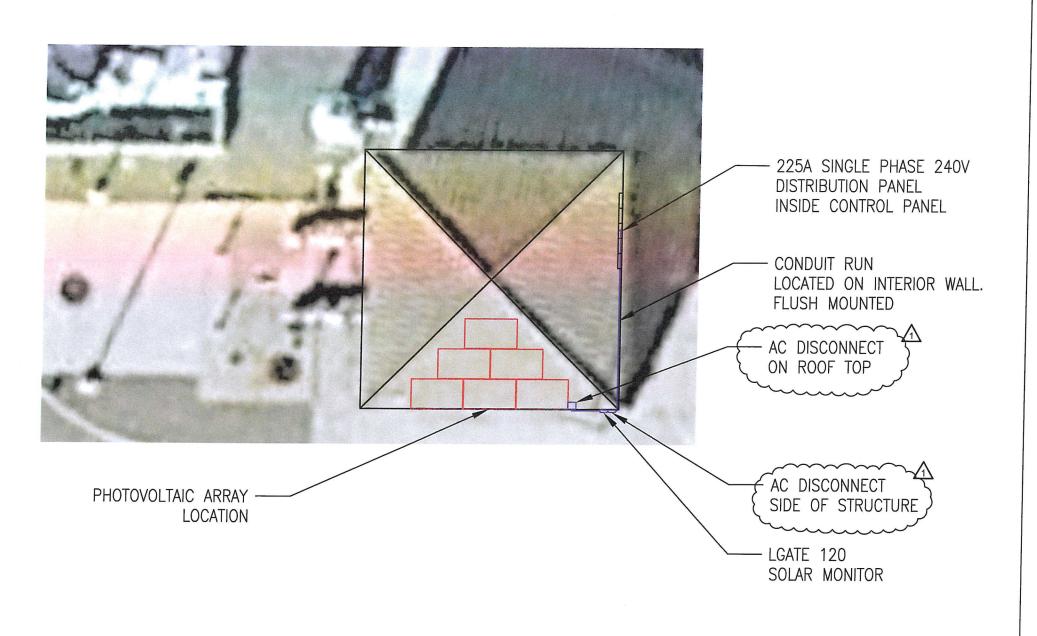
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TILE/METAL

OLIVENHAIN MUNICIPAL WATER DISTRIC 1966 OLIVENHAIN ROAD ENCINITAS, CA. 92024—9761 (760) 753—6466





SITE PLAN

GENERAL NOTES:

- SOLAR PHOTOVOLTAIC SYSTEM
 TO BE INSTALLED ON A
 COMMERCIAL PUMP STATION
- DESIGN SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRIC CODE, NEC, AND ALL LOCAL ORDINANCES AND POLICIES.
- THIS PROJECT HAS BEEN
 DESIGNED IN COMPLIANCE WITH
 THE CBC 2013 TO WITHSTAND
 A MINIMUM 110 MPH WIND
 LOAD.
- 4. N/A
- 5. N/A
- THIS SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND THE UTILITY IS OBTAINED.
- 7. THE SYSTEMS IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
- 8. NO BUILDING, PLUMBING OR MECHANICAL VENTS TO BE COVERED, OBSTRUCTED OR ROUTED AROUND SOLAR MODULES.
- 9. IF THE EXISTING MAIN SERVICE PANEL DOES NOT HAVE A VERIFIABLE GROUNDING ELECTRODE, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
- 10. EACH MODULE WILL BE GROUNDED USING THE SUPPLIED CONNECTION POINTS IDENTIFIED ON THE MODULE AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 11. A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH CAL-OSHA REGULATIONS.
- 12. PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED PER SECTION 11026 CEC.
- 13. ALL DIMENSIONS TO BE VERIFIED IN FIELD BY PV CONTRACTOR.

SNOISIONS 11/26/14

1.56kW DC 1.37kW AC

NEIGHBORHOOD
#1 PUMP
STATION
16106 4S RANCH
PARKWAY
SAN DIEGO, CA.
92127



580 AIRPORT ROAD OCEANSIDE, CA 92058 P: 760-966-8060 F: 760-966-8056 CAL. LIC.# 950771 A,B,C-10

INFO@HERCASOLAR.COM WWW.HERCASOLAR.COM HECTOR R. @ASTELLON

SiG.

PROJECT NO.: D701062

DATE: 9/22/2014

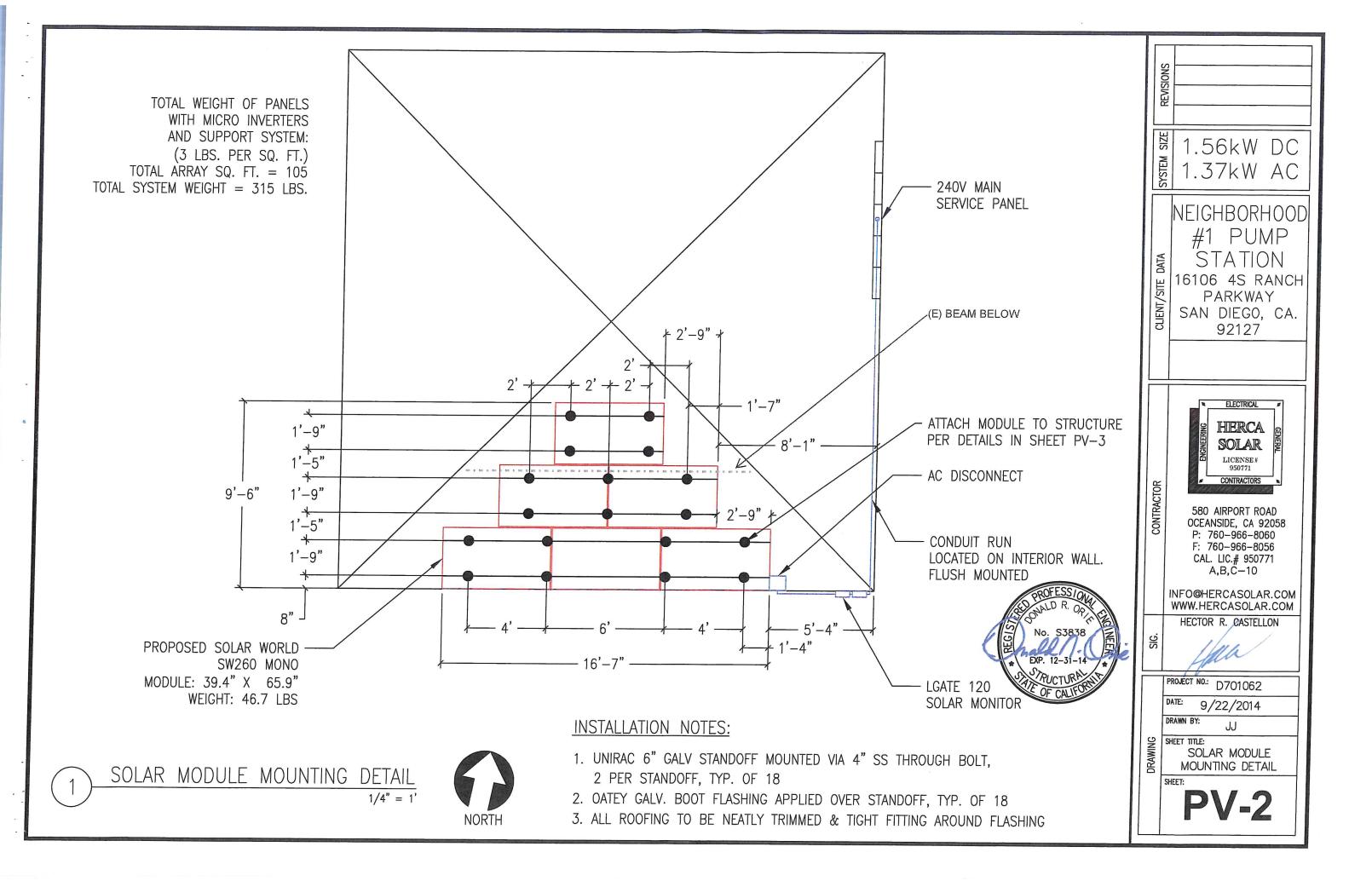
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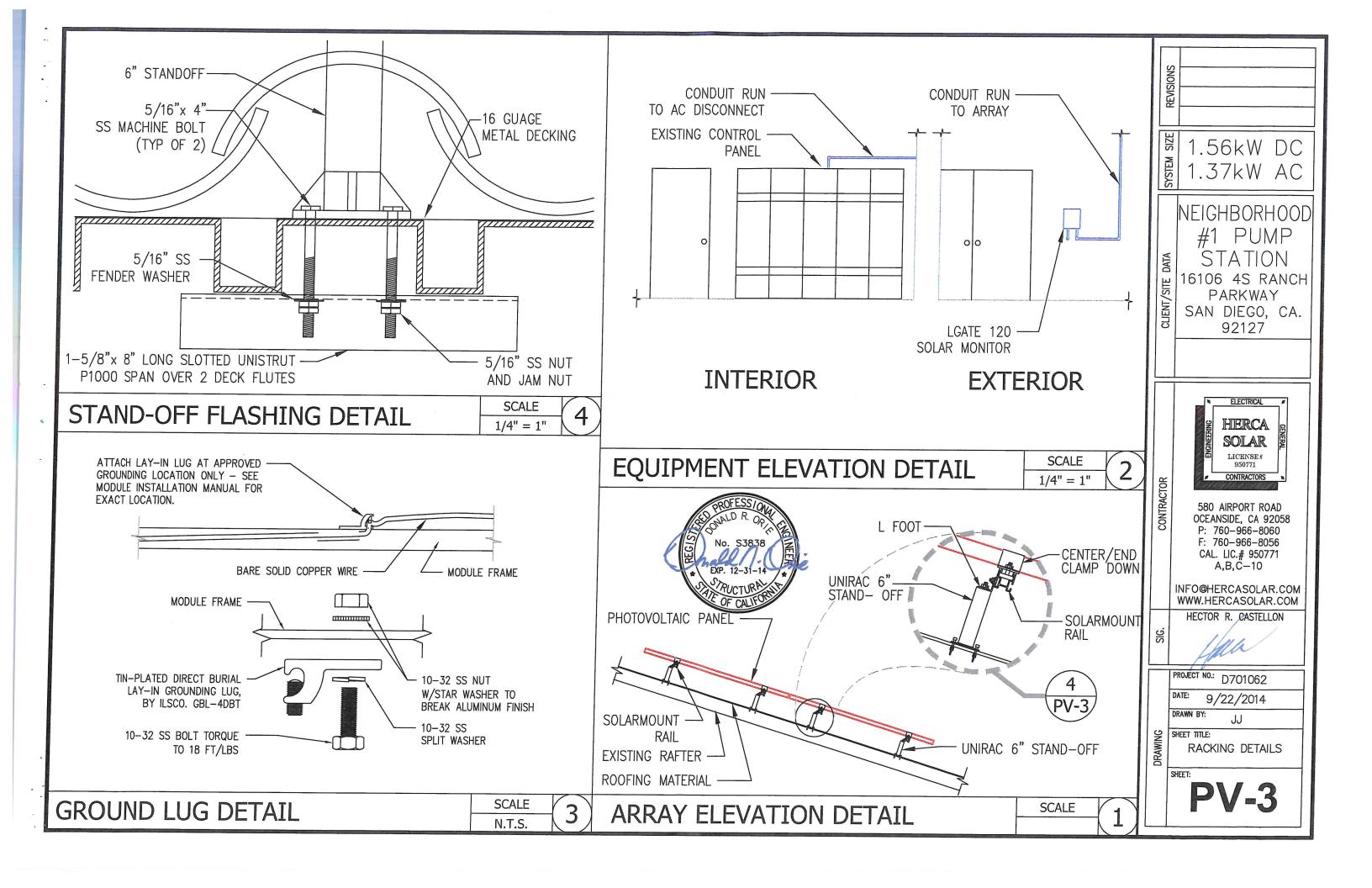
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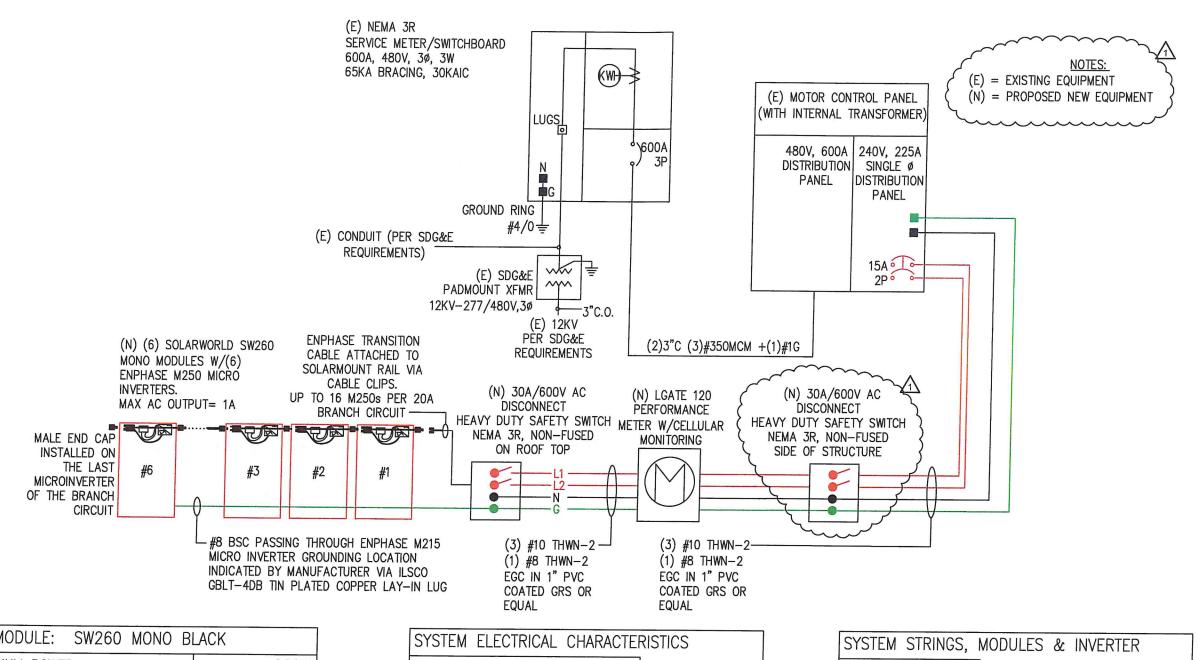
SITE PLAN

SHEET:

PV-1-R







PV MODULE: SW260 MONO B	LACK
MAXIMUM POWER	260W
OPEN CIRCUIT VOLTAGE (VOC)	38.9V
MAXIMUM POWER VOLTAGE (VMPP)	30.7V
SHORT CIRCUIT CURRENT (ISC)	9.18A
MAX POWER CURRENT (IMP)	8.56A

SYSTEM ELECTRICAL CHARACTE	RISTICS	
RATED MAX POWER POINT CURRENT	6	Adc
RATED MAX POWER POINT VOLTAGE	240	Vdc
MAXIMUM SYSTEM VOLTAGE	240	Vdc
SHORT CIRCUIT CURRENT	6	Adc

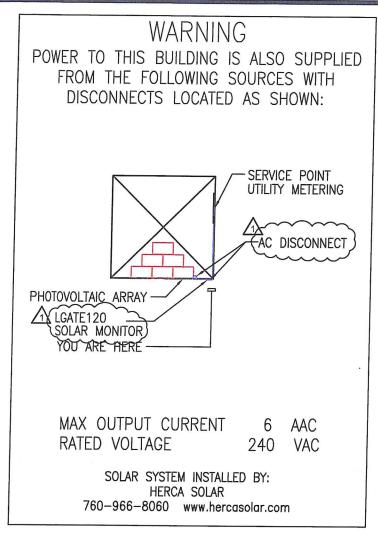
MAT	TEC.
NO ⁻	LO:

ELECTRICAL SINGLE LINE DIAGRAM N.T.S.

- 1. ALL MODULES WILL BE GROUNDED IN ACCORDANCE WITH CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2. ALL EXPOSED METAL PARTS INCLUDING MODULES, FRAMES, RAILS, BOXES, ETC..., SHALL BE GROUNDED WITH ILSCO GBL-4DBT TIN PLATED COPPER LAY-IN LUGS WITH A CONTINUOUS #8 BARE SOLID COPPER WIRE.

SYSTEM STRINGS,	MODULES & INVERTER
# STRINGS	1
MODULES/STRING	6
MODULE MFR/MODEL	SOLARWORLD SW260 MONO
INVERTER MFR/MODEL	ENPHASE M250
SERVICE BUS RATING	225
MAIN BREAKER RATING	225
PV BACKFEED BREAKER	15

. Izelenia opinema	H TO LEGA	
	מאסומויקם	11/26/14
	CYCTEM CIZE	1.56kW DC 1.37kW AC
	CLIENT/SITE DATA	NEIGHBORHOOD #1 PUMP STATION 16106 4S RANCH PARKWAY SAN DIEGO, CA. 92127
1	CONTRACTOR	ELECTRICAL SOLAR LICENSE# 950771 CONTRACTORS 580 AIRPORT ROAD OCEANSIDE, CA 92058 P: 760-966-8060 F: 760-966-8056 CAL. LIC.# 950771 A,B,C-10 INFO@HERCASOLAR.COM WWW.HERCASOLAR.COM
6 D O	SIG.	HECTOR R. CASTELLON
E 0 5	DRAWING	PROJECT NO.: D701062 DATE: 9/22/2014 DRAWN BY: JJ SHEET TITLE: ELECTRICAL SINGLE LINE DIAGRAM SHEET: PV-4-R



ALTERNATE POWER SOURCE PLACARD SHALL MEET THE SPECIFICATIONS OF THE SAN DIEGO AREA NEWSLETTER. ENGRAVED METER PLACARD 6" X 8", 3/8" WHITE ARIAL FONT ON RED BACKGROUND, MOUNTED CENTERED ON LOAD CENTER (CIRCUIT BREAKER COVER) AT UTILITY SERVICE POINT (NEC 690.56)(B) NEC 690.54

SOLAR PHOTOVOLTAIC SYSTEM AC DISCONNECT

WARNING!

ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDE MAY BE ENERGIZED IN OPEN POSITION

ENGRAVED DC DISCONNECT 3" X 3" PLACARD, WHITE 1/4" ARIAL FONT ON RED BACKGROUND, MOUNTED ON INVERTER FACEPLATE (NEC 690.14(C)(2) & 690.17(4)(WHEN REQUIRED).

PHOTOVOLTAIC SYSTEM DO NOT RELOCATE THIS BREAKER

WARNING!

PHOTOVOLTAIC POWER SOURCE

ADHESIVE LABEL

(ON INTERIOR AND EXTERIOR DC CONDUIT. ENCLOSURES, RACEWAYS, CABLE ASSEMBLIES. JUNCTION BOXES, COMBINER BOXES AND DISCONNECTS EVERY 10' WITHIN ONE FOOT OF TURNS, BENDS, ABOVE AND BELOW ROOF/CEILING, WALLS OR BARRIERS.) LABEL TO BE REFLECTIVE

NEC PLACARD DETAIL

PLACARD NOTES:

- 1. ALL PLACARDS ENGRAVED ON 3/16", WEATHER RESISTANT TWO COLOR PLASTIC AS NOTED.
- 2. PLACARDS RIVETED USING 3/8" ALUMINUM POP RIVETS.
- 3. ALL DC CURRENT CONDUIT LABELED USING REFLECTIVE, UV RESISTANT UL 969 WEATHER RATED ADHESIVE LABELS, 3/8" WHITE ARIAL ON RED BACKGROUND CAUTION: PHOTOVOLTAIC POWER SOURCE.

UTILITY OPERATION

PV DISCONNECT (WHEN REQUIRED)

11/26/14 1.56kW DC 1.37kW AC NEIGHBORHOOD #1 PUMP STATION 16106 4S RANCH PARKWAY SAN DIEGO, CA. 92127 HERCA SOLAR LICENSE# CONTRACTORS CONTRACTOR 580 AIRPORT ROAD OCEANSIDE, CA 92058 P: 760-966-8060 F: 760-966-8056 CAL. LIC.# 950771 A,B,C-10 INFO@HERCASOLAR.COM WWW.HERCASOLAR.COM HECTOR R. CASTELLON PROJECT NO.: D701062 9/22/2014 DRAWN BY: JJ SHEET TITLE: NEC 690 PLACARDS

PV DISCONNECT FOR

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE OUTDOOR UNIT INDOOR UNIT SYSTEM REMARKS OPER. FAN TSP ESP OPER. CFM (IN) (IN) WT. (LBS) ELECTRICAL DATA MODEL NOMINAL V/ø/Hz MCA MOCP WT. (LBS) SERVICE MARK MANUFACTURER V/ø/Hz MCA MOCP TONNAGE 1 1,100 CFA-009 480/3/60 10 15

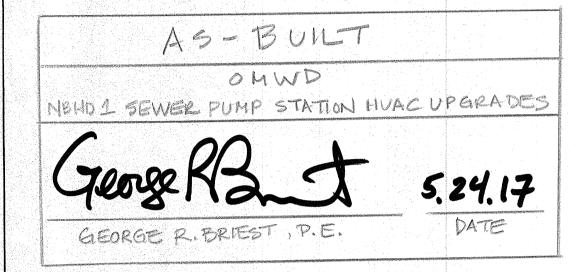
2,400 | 1.08 | 0.25 |

625

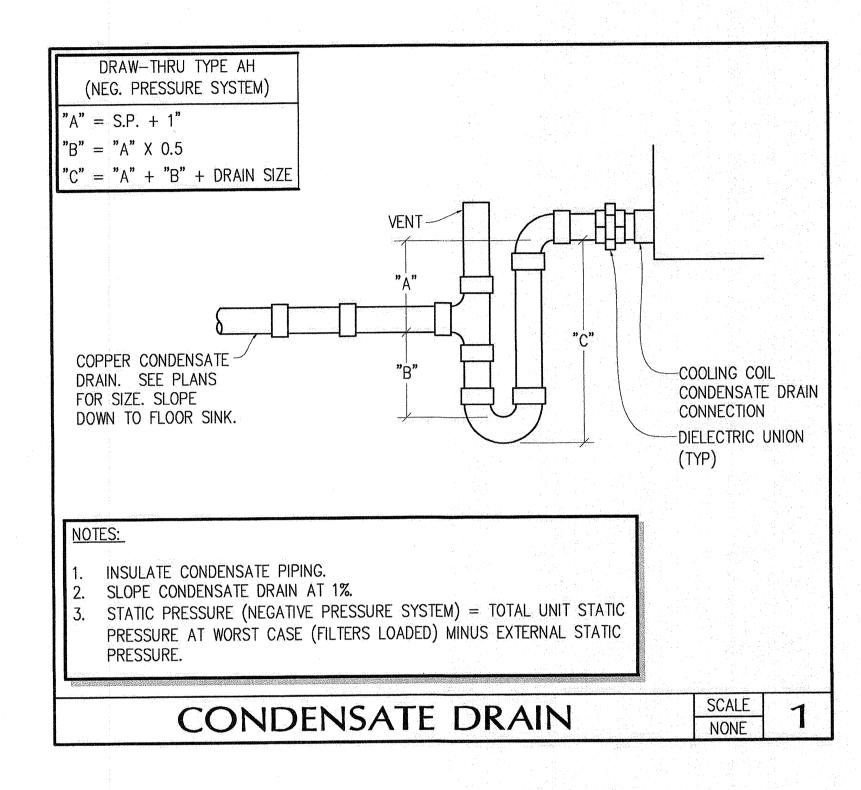
FURNISH WITH REFRIGERANT LINESETS, R-410A REFRIGERANT, MODULATING HOT GAS REHEAT COIL, FACTORY INSTALLED THERMAL EXPANSION VALVE, FACTORY INSTALLED CONTROLLER, POLYMER E-COATED COILS (CONDENSER, EVAPORATOR, AND HOT GAS REHEAT).

20

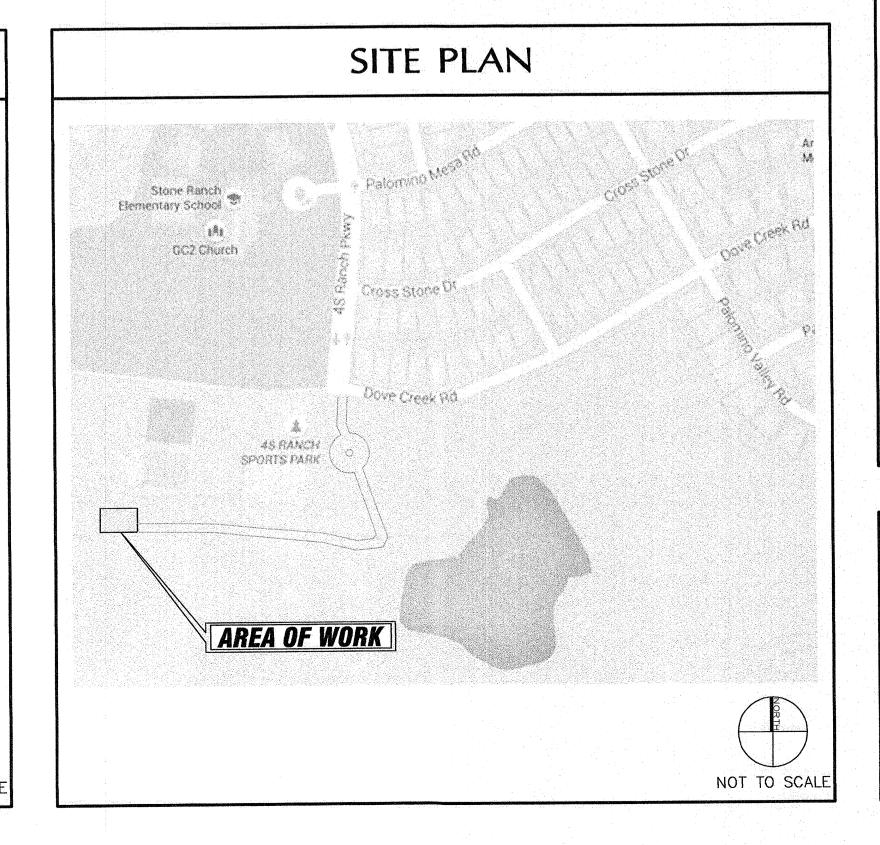
480/3/60



LIFT STATION



VICINITY MAP 45 RANCH AREA OF WORK BLACK MOUNTAIN RANCH The Santaluz Club Mountain Open Space Park TORREY HIGHLANDS 15 (F) NOT TO SCALE



HVAC GENERAL NOTES

- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND ASSOCIATED BOOK SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING STRUCTURAL AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'s, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
- NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'s AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL
- 8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
- CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA.
- O. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
- IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
- SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.

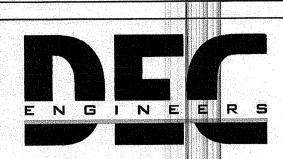
PROJECT TEAM

Mechanical Engineer	Electrical Engineer	Structural Engineer
DEC Engineers, Inc.	EPI Consulting Engineers	GSSI Structural Enginee
7360 Carroll Rd.	9565 Waples St.	3969 First Avenue
Ste. 100	Ste. 100	Ste. 200
San Diego, CA 92121	San Diego, CA 92121	San Diego, CA 92103
Ph: (858) 578-3270	Ph: (858) 824-1761	Ph: (619) 687-3810
Contact:	Contact:	Contact:
Tim Hermann, PE	Bobby Eugenio	Bill Schell, S.E.

SYMBOL	ABBR.	DESCRIPTION
	POC	POINT OF CONNECTION
<u> </u>	POD	POINT OF DISCONNECTION
<u> </u>		REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
R		DUCT RISE / DUCT DROP
	1 (**********************************	DUCT WITH SOUND INSULATION/LINING
	10 102 min	DUCT SECTION — SUPPLY
		DUCT SECTION — RETURN
	1994 - Santa S Santa Santa Sa Santa Santa S	DUCT SECTION — EXHAUST
	DL/UC	DOOR LOUVER OR UNDERCUT
T)		ROOM THERMOSTAT/TEMP SENSOR
\oplus	ALANA DITORNA	ROOM HUMIDISTAT/HUMIDITY SENSOR
— HHWS —	HHWS	HEATING HOT WATER SUPPLY
— HHWR —	HHWR	HEATING HOT WATER RETURN
RL -	RL	REFRIGERANT LIQUID
RS	RS	REFRIGERANT SUCTION
	11/0	THE MICHAIN SOCION
	D.	AUTOMATIC DAMPER
	MVD	MANUAL VOLUME DAMPER
0	SFD	COMBINATION SMOKE & FIRE DAMPER
	GLV	GLOBE VALVE
	CHV	CHECK VALVE
- N	BV	BALL VALVE
—— Ф——	BFV	BUTTERFLY VALVE
	BC	BALANCING COCK
	R	REDUCER
	STR	STRAINER
	JOIN U	UNION
	AFF	ABOVE FINISHED FLOOR
	B/G	BELOW GRADE
	DTR	DOWN THRU ROOF
		EXISTING
<u> </u>	(E) EA	EXISTING EXHAUST AIR
	EA	
	ESP	EXTERNAL STATIC PRESSURE
	GBS	GALVANIZED BIRD SCREEN
	OSA RA	OUTSIDE AIR RETURN AIR
titistis nijeniya ya ka	RA	RETURN AIR
and the state of t	SA	SUPPLY AIR TOTAL STATIC PRESSURE
<u> </u>	TSP	
1		DIFFUSER/REGISTER
7		TYPE AIR QUANTITY (C.F.M.)
		EQUIPMENT TAG
_		TYPE
	·	TIYPE TEQUIPMENT NUMBER
er en		

SHEET INDEX			
DRAWING	SHEET TITLE		
MECHANICAL			
M-00	MECHANICAL COVER SHEET		
M-10	MECHANICAL DEMOLITION PLAN		
M-20	MECHANICAL NEW WORK PLAN		
ELECTRICAL			
E-00	ELECTRICAL COVER SHEET		
E-01	ELECTRICAL SINGLE LINE — DEMOLITION		
E-02	ELECTRICAL SINGLE LINE - NEW WORK		
E-10	ELECTRICAL DEMOLITION PLAN		
E-20	ELECTRICAL NEW WORK PLAN		
E-30	PANEL SCHEDULE & LOAD CALCULATION		
STRUCTURAL			
S-001	GENERAL NOTES & ABBREVIATIONS		
S-101	FOUNDATION PLAN		





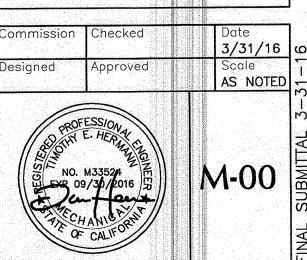
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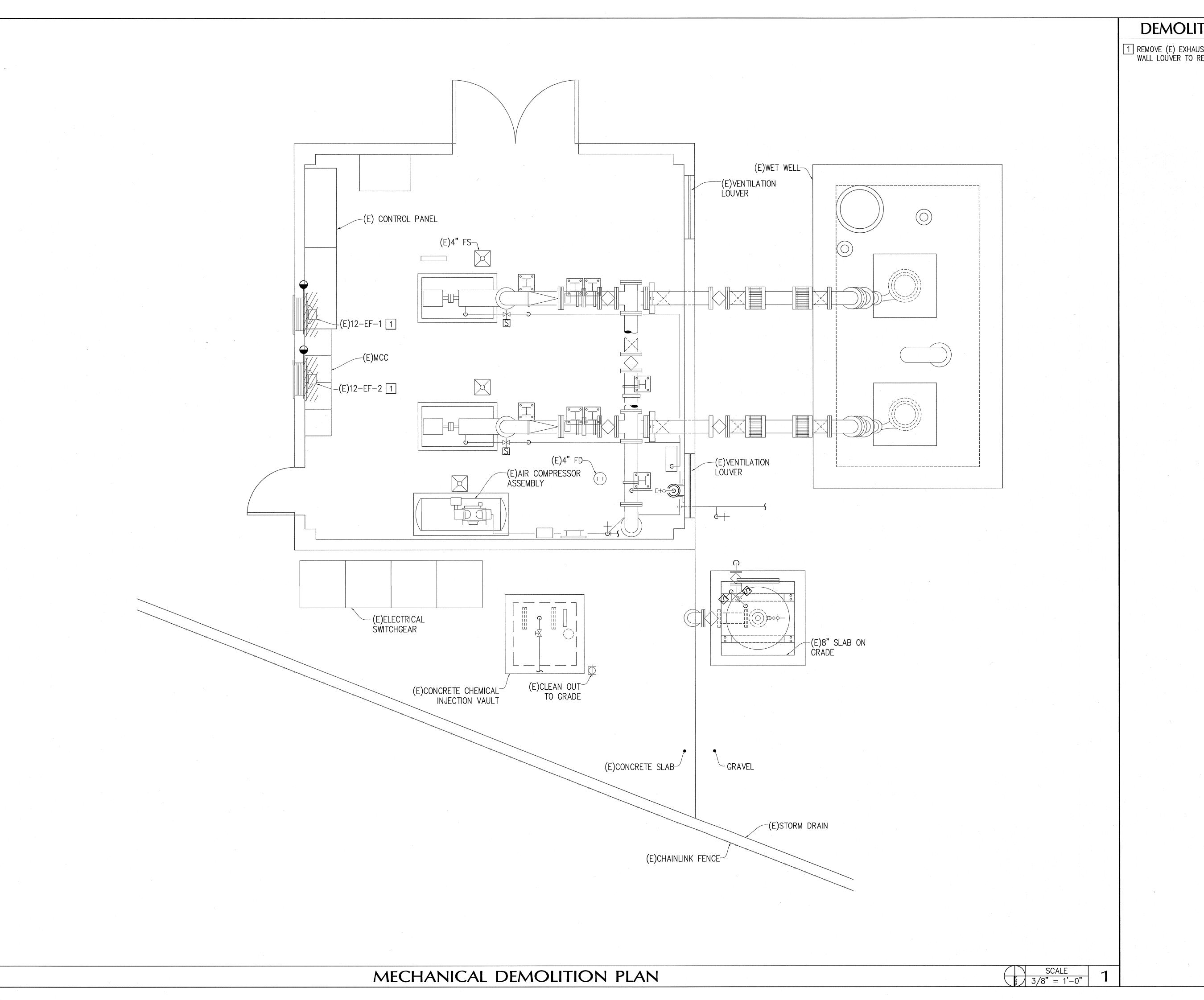
K N C P. SEWER PUMP 2 Z 1BORHOOD 1.S RENOVATION 营

OLIVENHAIN MUNICIPAL WATER DISTRICT DRAWING APPROVAL OMWD WO# 70000 4

		ISSUES			
YMBOL	Date	Desc	ription	Ву	
To Change to a large					
			IF-MARK	1	

MECHANICAL COVER SHEET





DEMOLITION NOTES

1 REMOVE (E) EXHAUST FAN AND METAL SHROUD.
WALL LOUVER TO REMAIN.



1966 Olivenhain Road Encinitas, CA 92024



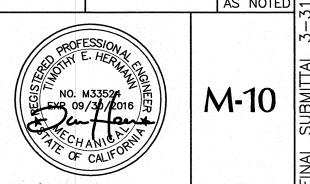
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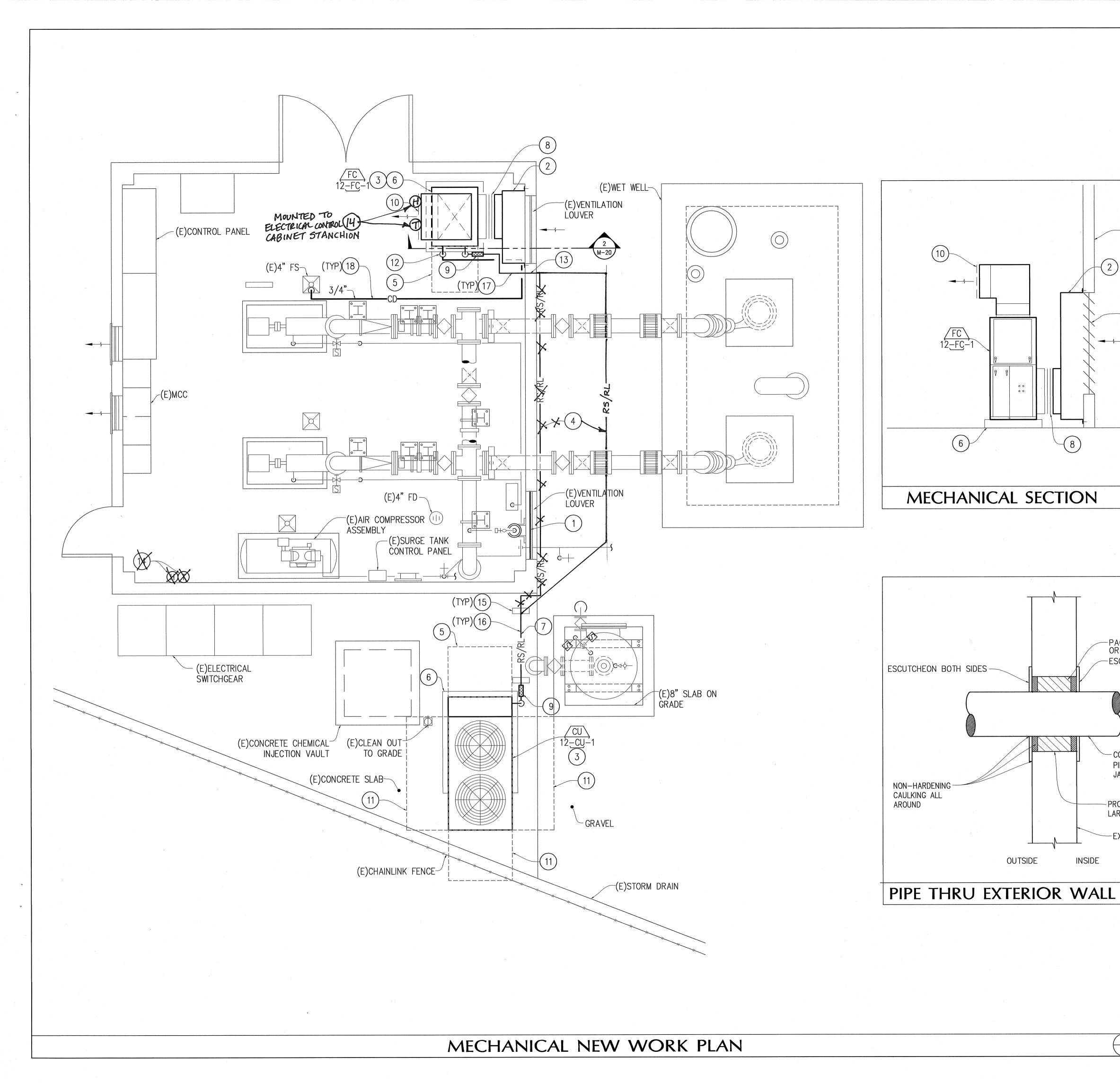
STATION NEIGHBORHOOD 1 SEWER PUMP HVAC RENOVATION WATER

	Veneza de la Caración	ISSUES	
SYMBOL	Date	Description	Ву
	Automore Freite		
	Name of the state		
	100		

MECHANICAL DEMOLITION PLAN

Date 3/31/16 ω Scale AS NOTED





NEW WORK NOTES

- 1 COVER INSIDE OF (E) 48" X 72" LOUVER WITH 26GA GALV SHEET METAL. SEAL ALL EDGES FOR AN AIR—TIGHT CONSTRUCTION.
- 2 52"W x 90"H x 16"D GALV SHEET METAL PLENUM OVER (E) LOUVER. ATTACH TO CMU WALL ON ALL 4 SIDES. SEAL ALL EDGES WITH EXTERIOR CAULKING FOR AN AIR—TIGHT CONSTRUCTION.
- 3 ATTACH UNIT TO CONCRETE PAD. SEE STRUCTURAL DRAWINGS.
- 4 ROUTE REFRIGERANT PIPING AND CONTROL WIRING (IN CONDUIT) ON WALL @ 12" ABOVE SLAB. ALL WALL MOUNTED PIPE AND CONDUIT SUPPORTS SHALL BE UNISTRUT WITH PIPE CLAMPS.
- (5) MAINTENANCE ACCESS CLEARANCE AREA. KEEP CLEAR OF OBSTRUCTIONS.
- (6) 6" HIGH CONCRETE PAD.

—(E)WALL

(E) VENTILATION

SCALE 3/8" = 1'-0"

-PACK VOID WITH ROCKWOOL OR FIBERGLASS

- CONDUIT OR REFRIGERANT PIPING W/INSULATION &

-PROVIDE OPENING MIN. 1" LARGER THAN PIPING SYSTEM

-EXTERIOR WALL

-ESCUTCHEON

LOUVER

- 7 CONTROL WIRING AND RL & RS PIPING. SIZE PIPING PER MANUFACTURER'S RECOMMENDATIONS.
- (8) FLEXIBLE DUCT CONNECTOR.
- 9 FLEXIBLE REFRIGERANT PIPING CONNECTOR FOR RS AND RL.
- 1/2" GBS. (10) 24"x34" OPEN ENDED SA, COVER OPENING WITH
- (11) AIRFLOW CLEARANCE AREA. KEEP CLEAR OF OBSTRUCTIONS.
- 12 SEE CONDENSATE DRAIN DETAIL 1/M-00.
- (13) SEE PIPE PENETRATION DETAIL 3/M-20.
- (14) WALL MOUNTED TEMPERATURE AND HUMIDITY SENSOR FOR HVAC SYSTEM CONTROL.
- (15) DURA-BLOCK PIPE SUPPORTS OR EQUAL.
- (16) PROVIDE ALUMINUM JACKET ON EXTERIOR PIPING.
- (17) PROVIDE PVC JACKET ON INTERIOR REFRIGERANT PIPING.
- (18) PIPE SUPPORTS SHALL BE UNISTRUT WITH PIPE CLAMPS.



1966 Olivenhain Road Encinitas, CA 92024



WATER DISTRICT
NEIGHBORHOOD 1 SEWER PUMP STATION
HVAC RENOVATION

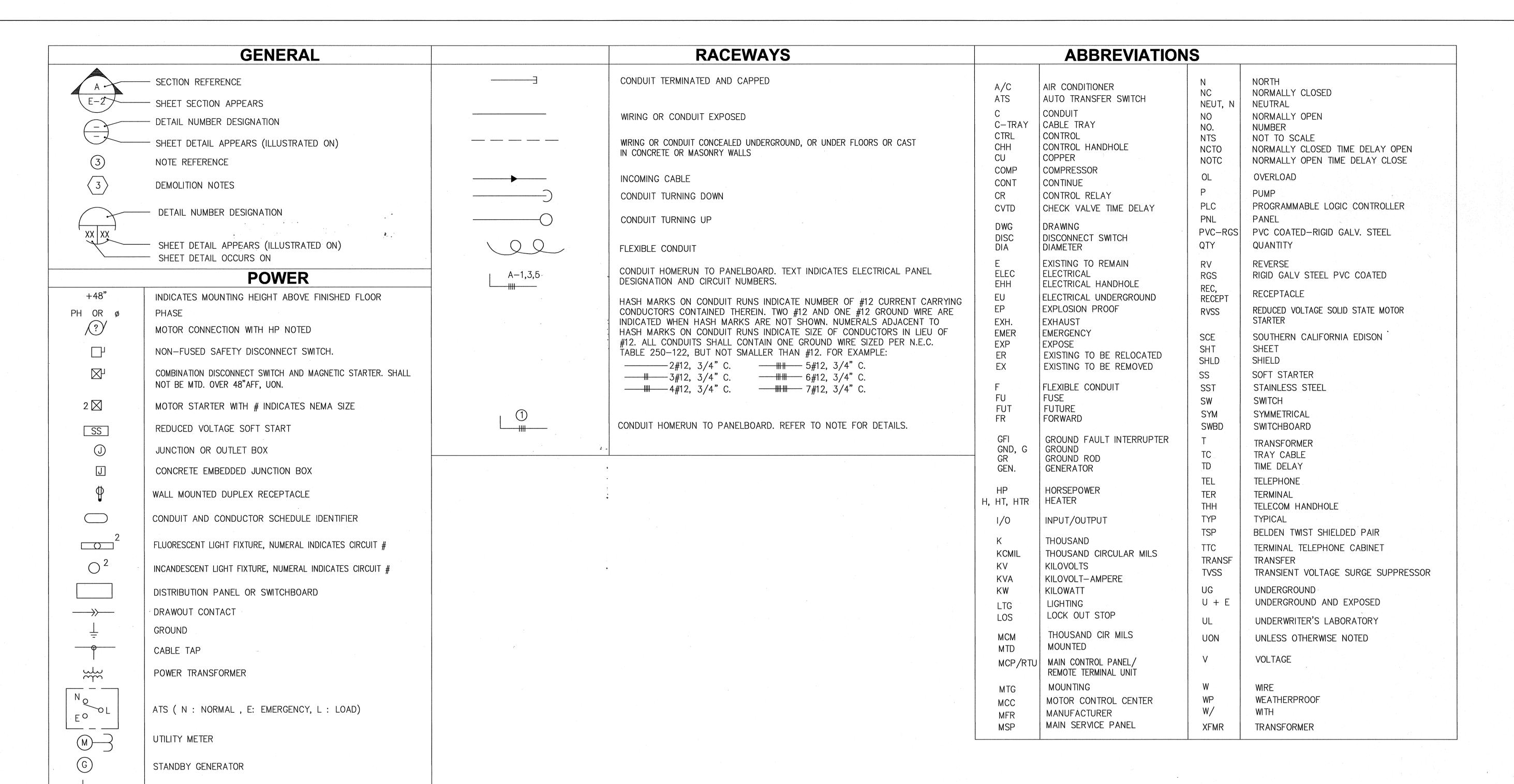
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4. 1			
		ISSUES	
SYMBOL	Date	Description	Ву
	<u>, </u>		

MECHANICAL NEW WORK PLAN

	<u>German January Constitution of the Constituti</u>	
Commission	Checked	Date 3/31/16
Designed	Approved	Scale AS NOTED
11 In Ilan	M3352A M3352A M3352A M3352A M3352A M342016 M3352A M142016 M3352A M142016 M3352A M342016 M3420 M342016 M342	<i>A</i> -20

SCALE 1'-0" 1

3



MOTOR STARTER WITH OVERLOAD

CIRCUIT BREAKER

AMPS FRAME

AMPS TRIP

) <u>225A</u>F

NUMBER OF POLES





Project# 37-145E

LIVENHAIN MUNICIPAL ATER DISTRICT IGHBORHOOD 1 SEWER PUMP ATION HVAC RENOVATION

5	ISSUES				
	SYMBOL	Date	Description	Ву	

ELECTRICAL COVER SHEET

Commission	Checked	Date 3/31/16	9
Designed	Approved	Scale AS NOTED	31-1
REGISTRA SA NOW NOW WAS A WAY OF THE PARTY O	ESSIONAL CHOMEER 13441 GALLER ALLEROR CALLEROR CALLE	-00	NAL SUBMITTAL 3-3



- 1 AIR COMPRESSOR TO BE ABANDONED IN PLACE. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO MCC 12M.
- 2 REMOVE EXISTING 15A 3P CIRCUIT BREAKER.





Project# 37-145E

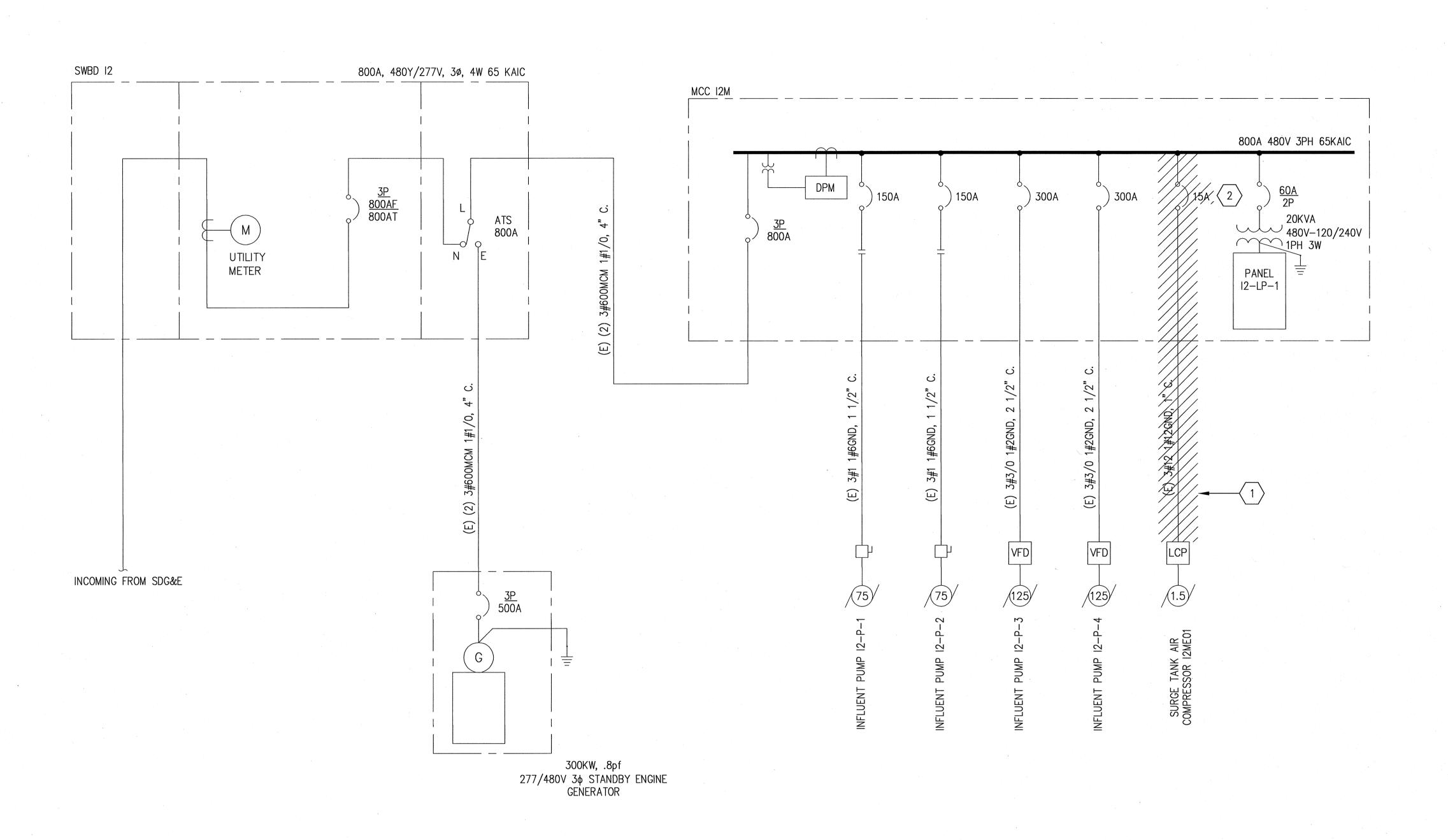
OLIVENHAIN MUNICIPAL WATER DISTRICT NEIGHBORHOOD 1 SEWER PUMP STATION HVAC RENOVATION

	· · · · · · · · · · · · · · · · · · ·	ISSUES	
SYMBOL	Date	Description	Ву
		7	

ELECTRICAL SINGLE LINE — DEMOLITION

Checked	Date 3/31/16
Approved	Scale
	AS NOTED

PROFESSIONAL CITY OF CALIFORNIA



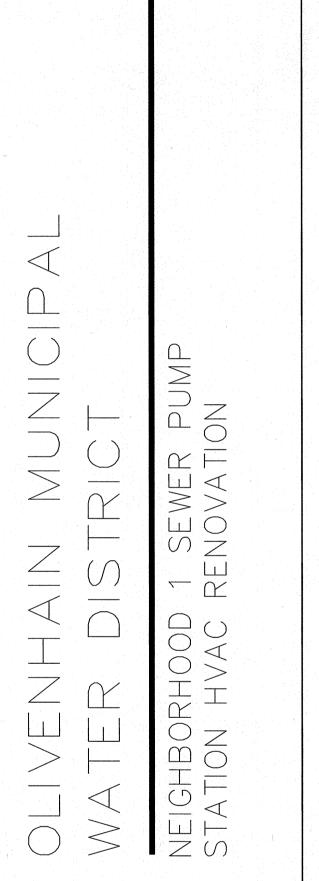


- 1) PROVIDE 30A 600V 3PH NEMA 4X FUSED DISCONNECT. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATION.
- 2) PROVIDE 30A 3P BREAKER IN SPACE MADE AVAILABLE DURING DEMOLITION. CIRCUIT BREAKER SHALL MATCH EXISTING MCC COMPONENTS AND AIC RATING.
- 3 PROVIDE 3#10 1#10G., 3/4" C.





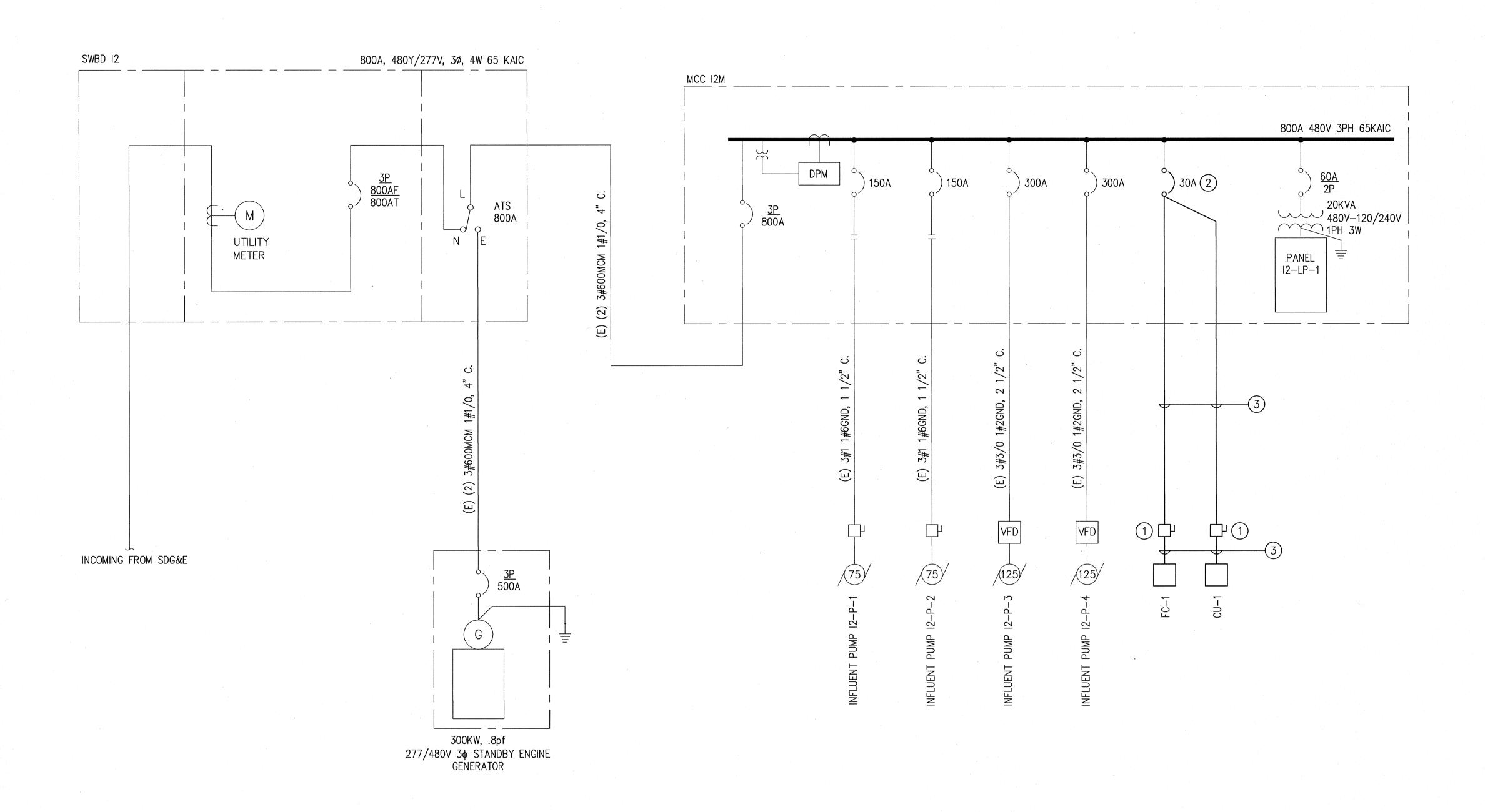
Project# 37-145E

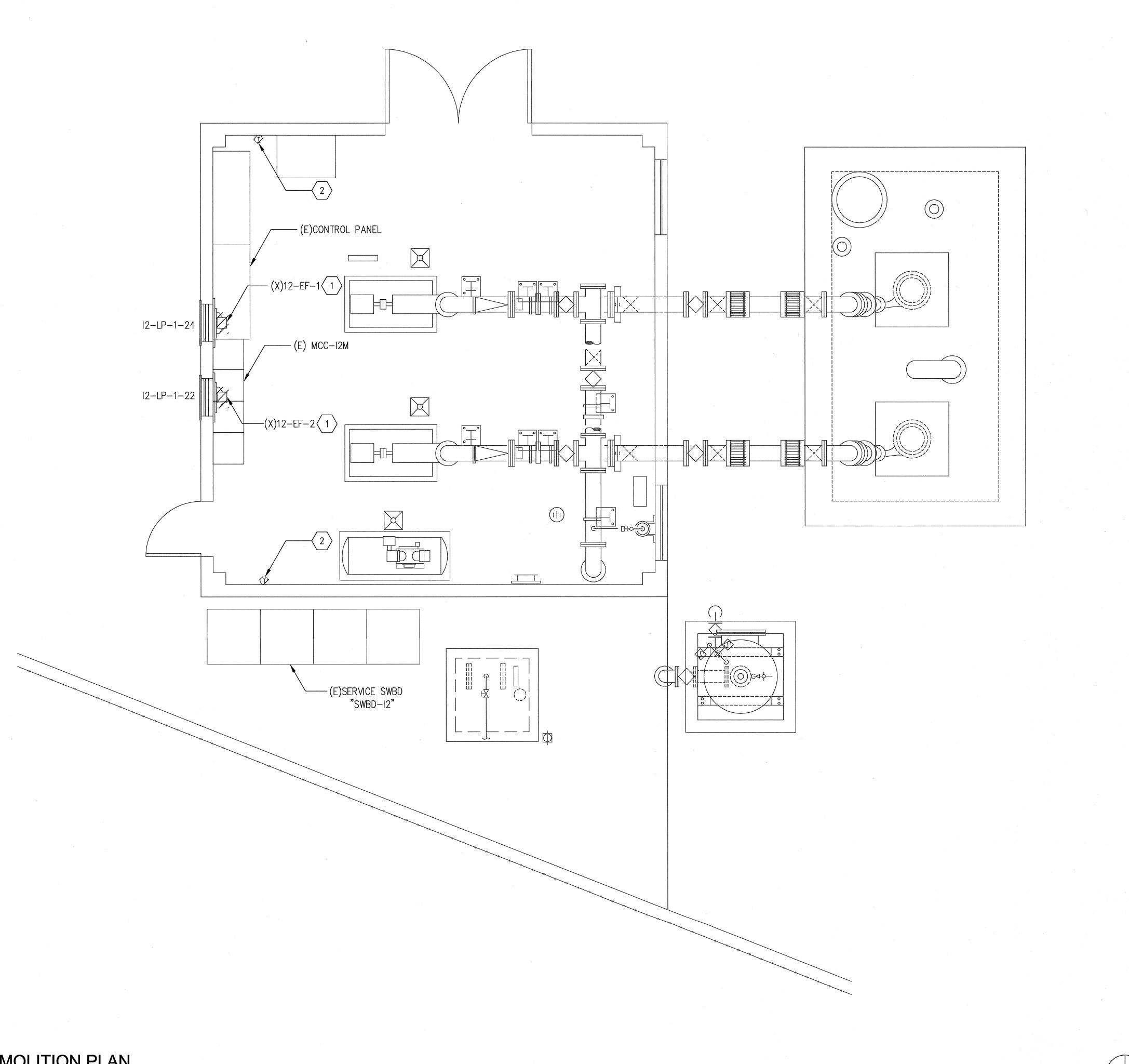


Descri	ption	Ву

ELECTRICAL SINGLE LINE — NEW WORK

Commission	Checked	Date 7 / 3 / 3 / 4 6	١.
Designed	Approved	3/31/16 Scale	
		AS NOTED	
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PRODUCTION NO.	13441 6 E	 \sim	ļ





DEMOLITION NOTES:

EXISTING EXHAUST FAN TO BE DEMOLISHED.
REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. SEE PANEL SCHEDULE ON SHEET E-30.

REMOVE EXISTING LINE VOLTAGE THERMOSTAT.
REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.

OLIVENHAIN

Municipal Water District

1966 Olivenhain

Road

Encinitas, CA 92024



Project# 37-145E

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	/	NEIGHBOR Station 1
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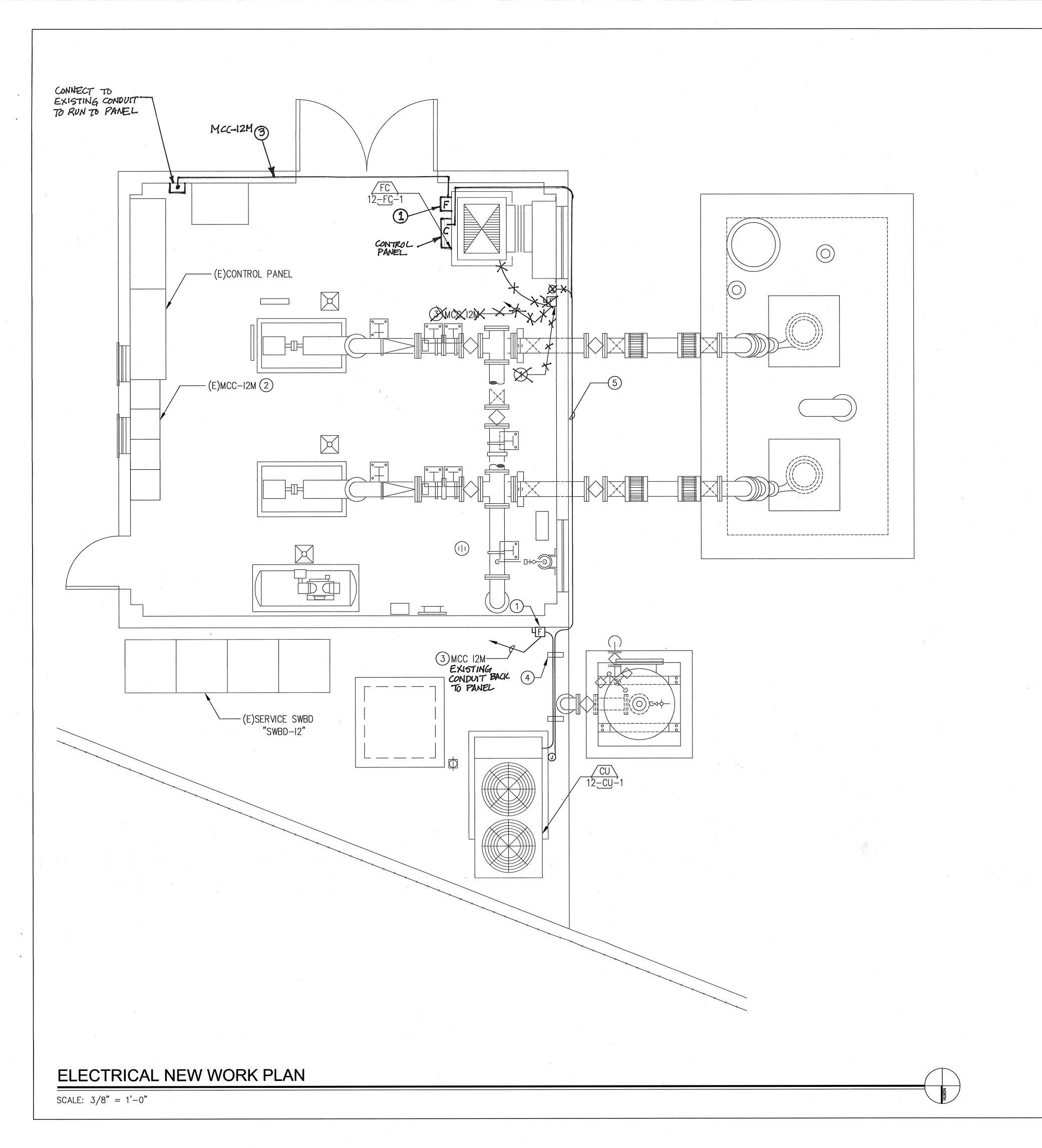
ISSUES					
SYMBOL	Date	Description	Ву		

ELECTRICAL DEMOLITION PLAN

Commission	n Checked	Date 3/31/16	
Designed	Approved	Scale AS NOTED	
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REGISTRAD	WEW S. OF ESS/ON THE W. S. OF ESS/ON THE W. S. OF ESS/ON THE ESS/O	-10	



SCALE: 3/8" = 1'-0"



GENERAL NOTES:

1. ALL NEW CONDUITS AND FITTINGS SHALL BE PVC COATED RIGID.

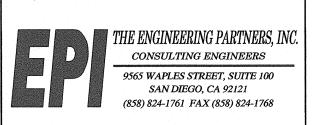
KEY NOTES:

- 1 PROVIDE 30A 600V 3PH NEMA 4X FUSED DISCONNECT. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATION.
- 2 PROVIDE CIRCUIT BREAKER IN SPACE MADE AVAILABLE DURING DEMOLITION. SEE SINGLE LINE DIAGRAM ON SHEET E-02 FOR NEW WORK.
- 3 SEE SINGLE LINE DIAGRAM ON SHEET E-02 FOR CONDUIT AND CABLE SIZE.
- 4) ROUTE CONDUIT ON DURA-BLOCK PIPE SUPPORTS OR EQUAL, SEE SHEET M-20.
- 5 PROVIDE 3/4" C.O. FOR CONTROLS.

OLIVENHAIN

Municipal Water District
1966 Olivenhain
Road

Encinitas, CA 92024



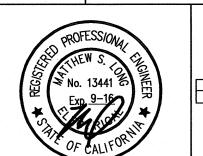
Project# 37-145E

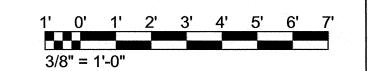
WATER DISTRICT
VEIGHBORHOOD 1 SEWER PUMP
STATION HVAC RENOVATION

ISSUES						
SYMBOL	DL Date Description		Ву			
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ELECTRICAL NEW WORK PLAN

Commission Checked Date
3/31/16
Designed Approved Scale
AS NOTED





		LOCATIO	N: M	CC 12	2M				BUSS		120/240V, 1ø, 3W
(E)PANEL I2-LP-1		MAIN:	100	A 2P				*	RATING:	225A	MOUNTING: IN MCC
		PANEL DEVICE MIN AIC									
LOCATION	VOLT	AMPS	CIR	R BRK A	Δ	B BF	BRK	(CIR	VOLTAMPS		LOCATION
LOOATION	øΑ	øΒ		Dia		L	יייטום	5	øΑ	øB	ECOATION
PUMP STATION LTG	1200		1	20	*		20	2	400		PUMP STATION REC
PUMP STATION PERIMITER LTG	,	200	3	20		*	20	4		400	PUMP STATION REC
ROADWAY LIGHTS	1000	,	5	20	*		20	6	400	7 .	PUMP STATION REC
LIGHTING CONTROL		100	7	20		*	20	8		100	LIT-I20
LIT-I205	100		9	20	*		20	10	500		PLC-
FERRIC CHLORIDE PNL		1660	11	20		*	20	12		500	PLC
SURGE TANK LCP	200		13	20	*		20	14	200		ROADWAY REC
WETWELL LEVEL CONTROL		100	15	20		*	20	16		1000	GENERATOR ACC
FIT-I212	200		17	20	*		20	18	1000		GENERATOR ACC
BATTERY CHARGER		200	19	20		*	20	20		1000	GENERATOR ACC
FUEL TANK MONITOR	600		21	20	*		20	22			SPAR
l2-P-5		1128	23	20		*	20	24			SPAR
EXISTING LOAD			25	20	*		20	26	1000	·	STORM WATER SUMP PUM
EXISTING LOAD			27	20		*	20	28			SPAR
SPARE			29	20	*		20	30			SPAR
SPACE			31	20		*	20	32	-		EXISTING LOA
SPACE			33	20	*		20	34			EXISTING LOA
SPACE			35	20		*	20	36			SPAC
SPACE			37	20	*		20	38			SPAC
SPACE			39	20		*	20	40	,		SPAC
SPACE			41	20	*		20	42			SPAC
	øA =	6800	-	øB =	63	88					
TOTAL CONNECTED VA =	13	KVA									
+ 25% LCL =	•	KVA									
TOTAL	13	KVA									
CONNECTED LOAD =	55	A									
MINIMUM FEEDER SIZE =	55	A									

KEYNOTES

1) EXISTING LOAD REMOVED. RELABEL CIRCUIT AS SPARE.

(E)PANEL 12-LP-1 SCHEDULE

SCALE: NO SCALE

	(E)MCC-I2M	LOAD CALCULATION
EXISTING CONNECTED LO	AD	558 KVA
CONNECTED LOAD REMO	/ED	
1	2-EF-1	0.8 KVA
1	2-EF-2	0.8 KVA
CONNECTED LOAD ADDED)	
C	U-1	8.31 KVA
F	C-1	10.80 KVA
	TOTAL	575.51 KVA
NET LOAD		692.55 AMPS @ 277/480V 3PH

(E)MCC-I2M LOAD CALCULATION

SCALE: NO SCALE





Project# 37-145E

LIVENHAIN MUNICIPAL
ATER DISTRICT
GHBORHOOD 1 SEWER PUMP
ATION HVAC RENOVATION

SYMBOL	Date	Description	Bv
STMBOL	Date	Description	Бу

PANEL SCHEDULE & LOAD CALCULATION

Commission	Checked		Date 3/31/16
Designed	Approved		Scale AS NOTED
DRO	FESS/ONA	1	
REGISTRA NO.	EW S. C.		

GENERAL: ALL MATERIALS, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO MINIMUM STANDARDS OF THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND ANY OTHER REGULATORY AGENCIES WHO MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. SIMILAR WORK.

WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK THE DETAILS USED SHALL BE THE SAME AS FOR THE OTHER

- WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED.
- . WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.

STRUCTURAL DESIGN CRITERIA: SEISMIC PARAMETERS:

RISK CATEGORY: II SEISMIC DESIGN CATEGORY: D SITE CLASS: D SEISMIC GROUND MOTION VALUES:

MAPPED ACCELERATION PARAMETERS: $S_{a} = 1.052$, $S_{1} = 0.406$ $F_a = 1.079, F_V = 1.594$ SITE COEFFICIENTS: DESIGN SPECTRAL ACCELERATION PARAMETERS: $S_{DS} = \emptyset.757, S_{DI} = \emptyset.431$ SEISMIC COEFFICIENT FOR MECHANICAL COMPONENTS: ap = 2.5, Rp = 6.0 COMPONENT IMPORTANCE FACTOR: Ip = 1.0

WIND: 110 MPH, EXPOSURE: C, ENCLOSED BUILDING

<u> FOUNDATION:</u>

CHARACTER OF FOUNDATION SOIL: NONE, USE CBC 2013, TABLE 1806.2 CODE MINIMUMS.

- MAXIMUM SOIL PRESSURE: 1500 PSF FOR DEAD LOAD PLUS LIVE LOADS. THE ALLOWABLE BEARING PRESSURE MAY BE INCREASE BY ONE THIRD WHEN CONSIDERING LOADING OF SHORT DURATION SUCH AS WIND OR SEISMIC
- FOOTING SHALL EXTEND A MINIMUM DEPTH OF 1'-6" BELOW FINISHED GRADE AND SHALL BEAR ENTIRELY ON PROPERLY COMPACTED SOILS OR NATIVE
- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE CALIFORNIA BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS

<u>CONCRETE:</u>

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 3,000 PSI WITH ASTM CI50 TYPE II PORTLAND CEMENT, LOW ALKALI ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS
- SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. . CONDUIT, PIPES OR DUCTS SHALL NOT BE PLACED IN CONCRETE COLUMNS, WALLS, CONCRETE TOPPING FILLS, SLABS OR CONCRETE TOPPING FILLS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER. SLEEVES FOR OPENINGS IN CONCRETE SHALL BE INSTALLED BEFORE PLACING REINFORCING, AND SHALL NOT BE CUT UNLESS APPROVED IN WRITING BY THE ENGINEER.
- I. MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS FOLLOWS: A. CLASS B AS DEFINED IN ACI 318.
- 5. WALLS AND COLUMNS SHALL BE DOWELED FROM THE SUPPORTS WITH BARS OF THE SAME SIZE, GRADE AND SPACING UNLESS OTHERWISE NOTED. SPLICE CONTINUOUS WALL OR COLUMN REINFORCEMENT (CLASS B) UNLESS OTHERWISE
- 6. TYPICAL CONCRETE COVERAGE OF REINFORCING:

CONCRETE CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER *6 AND LARGER	2"
#5 AND SMALLER	1/2"
UNEXPOSED COLUMNS, BEAMS AND GIRDERS	
SLAB WALL AND JOISTS	3/4"

- REINFORCEMENT SHALL CONFORM WITH ASTM A615, GRADE 60. WELDED REINFORCEMENT SHALL CONFORM WITH ASTM A106, GRADE 60. . CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CALIFORNIA BUILDING CODE AND TO THE PROVISIONS OF ACI 318, LATEST
- . SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1705 OF THE CALIFORNIA BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS. 10. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33.

. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE TYPE

- AND CONFORM TO ASTM C 330. 2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE ENGINEER. MIX DESIGN METHOD FIELD EXPERIENCE OR TRIAL MIXTURES) SHALL BE IN ACCORDANCE WITH ACI 318,
- SECTION 5.4 SHALL BE USED TO PROPORTION CONCRETE. 13. FLY ASH SHALL BE LIMITED TO NO MORE THAN THE FOLLOWING PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, UNLESS OTHERWISE NOTED. FLY ASH OR OTHER POZZOLÁN SHÁLL CONFORM TO ASTM C

	CHERATSE NOTED. FLT ASH OR CHER POZZOLAN SHALL CONFORT IN	7 4011
	618 FOR CLASS F MATERIAL (CLASS C IS NOT PERMITTED).	
	COLUMNS AND WALLS	15%
	FOUNDATIONS	15%
	SLABS ON GRADE	15%
14.	PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL	BE

FORMED WITH A 3/4" CHAMFER UNLESS OTHERWISE NOTED

15. CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE AND LIGHTWEIGHT CONCRETE FLOOR TOPPINGS SHALL BE PROVIDED AS INDICATED. THE LOCATIONS OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BY THE ARCHITECT. WHERE POSSIBLE JOINTS SHALL ALIGN WITH RE-ENTRANT CORNERS OF THE SLAB OR TOPPING.

16. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND ROUGHENED TO A MINIMUM AMPLITUDE OF 1/2 INCH, A CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACE.

ANCHOR RODS EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F 1554, GRADE 36, UNLESS OTHERWISE NOTED. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A 563, GRADE A HEX (HEAVY HEX WHERE ANCHOR ROD DIAMETER IS GREATER THAN 1/5").

POST INSTALLED ANCHORS:

- 1. EXPANSION, MECHANICAL AND ADHESIVE ANCHORS IN CONCRETE SHALL BE ICC APPROVED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. DIAMETER, BOLT SPACING AND EMBEDMENT SHALL BE AS SHOWN ON THE DRAWINGS.
- 2. SUBMIT MANUFACTURER'S DATA SHEETS AND ICC REPORTS FOR ENGINEER'S REVIEW PRIOR TO INSTALLATION.

POST INSTALLED ANCHORS			
CONCRETE ANCHORS	ICC REPORT NUMBER		
HILTI "HIT-RE 500-SD" ADHESIVE	ESR 2322		
HILTI "KB-TZ" WEDGE ANCHOR	ESR 1917		

- 3. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWER DRIVEN PINS IN EXISTING NON- PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AYOID CUTTING OR DAMAGING THE EXISTING REINFORCING
- 4. TEST FREQUENCY:
- A. WHEN POST-INSTALLED ANCHORS ARE USED FOR SILL PLATE BOLTING APPLICATIONS, 10 PERCENT OF THE ANCHORS SHALL BE TESTED. FOR OTHER APPLICATIONS, ALL ANCHORS SHALL BE TESTED.
- B. AT EQUIPMENT ANCHORAGE, 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP SHALL BE TESTED. SEE TABLE BELOW FOR TORQUE TEST VALUES. THE TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST REGULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.

STATEMENT OF SPECIAL INSPECTIONS:

- 1. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME VERIFICATION OF THE
- WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY
- 3. SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF THE CBC CHAPTER IT AND SHALL BE PERFORMED BY A QUALIFIED INSPECTOR OR TESTING AGENCY, RETAINED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL TO ACT AS A SPECIAL INSPECTOR. THEY SHALL PERFORM INSPECTIONS PER CBC SECTIONS 1704, 1707 \$ 1708.
- 4. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY INSPECT THE INITIAL INSTALLATION OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR BY EACH INSTALLER. SUBSEQUENT INSTALLATIONS OF THE SAME TYPE AND SIZE OF ANCHOR BY THE SAME INSTALLER MAY BE PERFORMED ON A PERIODIC BASIS.

SUMMARY OF SPECIAL INSPECTIONS	. "%
DESCRIPTION OF TYPE OF INSPECTION REGULIRED, LOCATION, REMARKS, ETC.	DESIGN STRENGTHS
POST INSTALLED ANCHORS	-

STATEMENT OF SPECIAL INSPECTIONS NOTES:

- A. THE CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CBC. THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
- 3. SPECIAL INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK PER CBC REFERENCED ABOYE.
- C. IT IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST TWO WORKING DAYS PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- D. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE FIELD INSPECTION DIVISION.
- E. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF CARLSBAD, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- F. AN APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
- G. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF CARLSBAD DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENT.
- H. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.

TYPICAL ABBREVIATIONS: ANCHOR BOLT(S) A.B. ABOVE ACI AMERICAN CONCRETE INSTITUTE ADD'L **ADDITIONAL ADJACENT** ADJ AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE ALUM. ALUMINUM APPROXIMATE ARCHITECT ARCH'L ARCHITECTURA AMERICAN SOCIETY FOR TESTING 4 MATERIALS AVERAGE AWS AMERICAN WELDING SOCIETY AND ANGLE ΔŤ BOARD BELOW BLW B.F. BRACED FRAME BLOCK JOINT BLD'G BUILDING BLK BLOCK BLK'G BLOCKING BOUNDARY NAILING B.N. BNDRY BOUNDARY BOTTOM OF FOOTING BOTTOM OF PIER BRD'G BRIDGING BEARING BETWEEN CHANNEL CALCULATIONS CALCS C, CAMB. CAMBER(ED) CANT. CANTILEVER CAP. CAPACITY CBC CALIFORNIA BUILDING C CAT. CATEGORY C.F. CUBIC FOOT C.G. CENTER OF GRAVITY C.I.P. CAST IN PLACE C.J. CONTROL JOINT CENTER LINE CEILING CLG CLR CLEAR CMU CONCRETE MASONRY UNIT COL. COLUMN CONC CONCRETE CONN CONNECTION CONSTRUCTION CONST CONT. CONTINUOUS CONTR. CONTRACTOR CENTER(ED) CENTERED CTR'D CTSK COUNTERSINK C.Y. CUBIC YARD PENNEY (NAIL) DEFORMED BAR ANCHOR DBL DOUBLE DEPRESSED (DEPRESSIO DEPT DEPARTMENT D.F. DOUGLAS FIR

DIAMETER

DIAPHRAGM

DIMENSION

DEAD LOAD

DRAWING(S)

DECKING

DOWN

DITTO

DETAIL

DOWEL(S)

EXISTING

EACH END

EACH FACE

ELEVATION

ELECTRICAL

ELEVATOR

EDGE NAIL

ENCLOSURE

ENGINEER

EQUIPMENT

EACH SIDE

EACH WAY

EXPANSION

EXTERIOR

EAST-WEST

FABRICATION

FOUNDATION

FIELD NAIL

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUD

FRAMING

FAR SIDE

FOOTING

FEET (FOOT)

FACE OF PLYWOOD

FINISH

FLOOR

FLANGE

EQUAL

EMBED

EXPANSION JOINT

EACH

DIAGONAL

DIAG.

DIAPH.

DKG

D.L.

DN

DO

E.J.

ELEC.

ELEY.

EMB.

ENCL.

ENGR

EQUIP

E.N.

EQ.

E.S.

EXT.

E-M

FDN

FIN.

FLG

FLR

F.N.

F.O.C.

F.O.M.

F.O.P.

F.O.S.

FRM'G

F.S.

DWG(S)

DWL(S)

(E), EXST.

	K.O.	KNOCK OUT
CODE		LATERAL POUNDS LINEAL FEET (FOOT) LONG LIVE LOAD LONGITUDINAL LENGTH LONG LEG HORIZONTAL LONG LEG OUTSTANDING LONG LEG VERTICAL LIGHT WEIGHT
T	MIN. MISC.	MASONRY MATERIAL MAXIMUM MACHINE BOLT MECHANICAL MEMBRANE MEZZANINE MOMENT FRAME MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING METAL
? ON)	N.S.G.	NEW NON APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NORTH-SOUTH NEAR SIDE NON-SHRINKING GROUT NOT TO SCALE NORMAL WEIGHT

ING LEG VERTICAL GHT WEIGHT 450NRY ATERIAL MUMIX4 ACHINE BOLT ECHANICAL MBRANE EZZANINE DMENT FRAME ANUFACTURER MIMUM SCELLANEOUS ASONRY OPENING ETAL ON APPLICABLE OT IN CONTRACT MBER DMINAL DRTH-SOUTH ON-SHRINKING GROUT OT TO SCALE ORMAL WEIGHT ON CENTER O.D. OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPN'G OPENING OPPOSITE O.W.J. OPEN WEB JOISTS OPTIONAL OPT'L PARALLEL P/C PRECAST CONCRETE PEN. PENETRATION PERPENDICULAR PERP. PLATE PROPERTY LINE P.L.F. POUNDS PER LINEAR FOOT PLY. PLYWOOD

PRELIM.

P.S.F.

P.S.I.

QTY

REF.

REINF.

REM.

RET.

REY.

R.F.

RND

R.O.

RTN

REQ'D

R. RAD.

PRELIMINARY

POST TENSION

QUANTITY

RADIUS

REFERENCE

REMAINDER

REQUIRED

RETAINING

REVISION

ROOM

ROUND

RETURN

RIDGE FRAME

ROUGH OPENING

REINFORCEMENT

LBS PER SQUARE FOOT

LBS PER SQUARE INCH

PRESSURE TREATED

GAUGE

G.C.

GALY.

GLB

GRD

HGR

I.B.

IN.

INFO.

INTER.

GYPBD

H, HORIZ.

GRADE BEAM

GALYANIZED

HORIZONTAL

HOLDOWN

HEADER

HANGER

HEIGHT

INCHES

INTERIOR

JOINT

GENERAL

GRADE

GENERAL CONTRACTOR

GLUED LAMINATED BEAM

GYPSUM WALLBOARD

HIGH STRENGTH BOLT

INSIDE DIAMETER

INVERT ELEVATION

ISOLATION JOINT

INSIDE FACE

INFORMATION

INTERMEDIATE

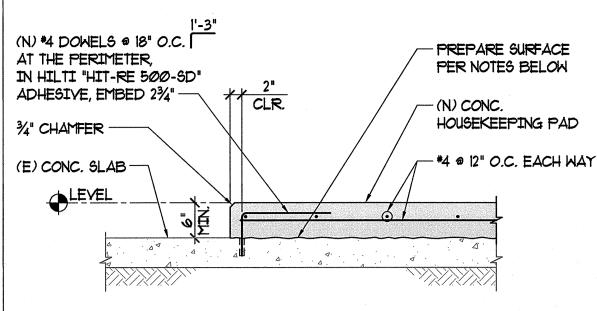
KIPS PER SQUARE INCH

HOLLOW STRUCTURAL SECTION

S.C. SLIP CRITICAL SCHED. SCHEDULE SECT. S.F. SQUARE FOOT SHT'G SHEATHING SIM. SIMILAR SLRS SEISMIC LOAD RESISTING SYSTEM S.M.S. SHEET METAL SCREW 5.O.G. SLAB ON GRADE SPEC. SPECIFICATION SQ. SQ. YD SQUARE YARD SELECT STRUCTURAL STAINLESS STEEL STD. STANDARD STGR'D STAGGERED STIFF. STIFFENER STL STEEL STR'L STRUCTURAL SUSP. SUSPENDED SYMM SYMMETRICAL T & B TOP AND BOTTOM TEMP. TEMPORARY TEMP. TEMPERATURE T & G TONGUE AND GROOVE THK THICK THRD THREADED THKN THICKENED TOTAL LOAD T.N. TOE NAIL T.O.C. TOP OF CONCRETE T.O.D. TOP OF DECK T.O.F. TOP OF FOOTING T.O.P. TOP OF PARAPE TOP OF SHEATHING T.O.S. T.O.W. TOP OF WALL TRANSY TRANSVERSE TS TUBE SECTION TSG TAPERED STEEL GIRDER T.O.S. TOP OF STEEL TYP. TYPICAL UNLESS OTHERWISE NOTED YAR. VARIES VERTICAL Y, YERT Y.I.F. **YERIFY IN FIELD** WIDTH (WIDE, W/0

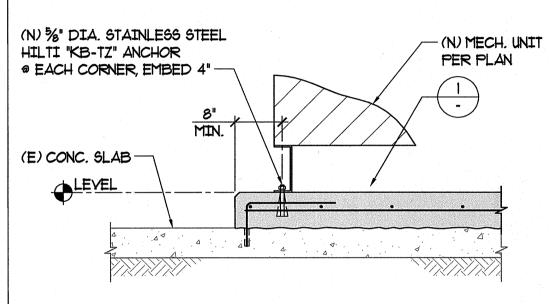
WITHOUT W.F. WIDE FLANGE WELDED HEADED STUD WORK POINT WEAKENED PLANE JOINT WELDED STUD WEIGHT

W.H.S. STRUCTURAL TEE W.W.F. WELDED WIRE FABRIC



- 1. REMOVE THE EXISTING WEARING SURFACE.
- 2. MECHANICALLY PREPARE THE SURFACE PROFILE EQUAL TO ICRI CSP 6
- 3. APPLY "SIKADUR 32 HI-MOD" EPOXY BOND AGENT.
- 4. WHILE THE BONDING AGENT IS STILL TACKY, FORM AND POUR THE CONCRETE MIX.





Municipal Water District 1966 Olivenhain Road Encinitas, CA 92024

Owner/Client



Project Engineer PROJECT# 4729

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Project Description ISSUES SYMBOL Date Description

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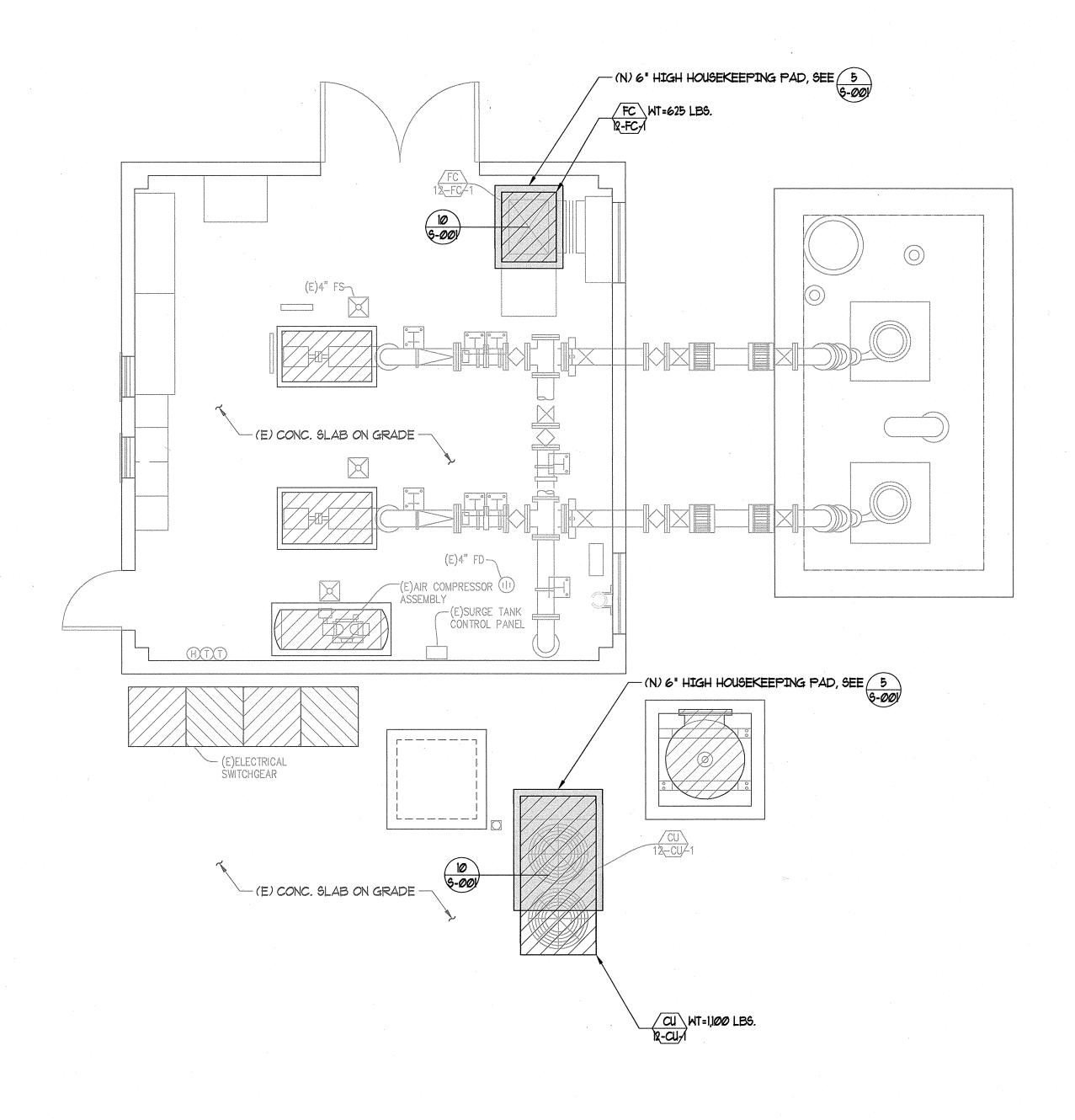
GENERAL NOTES ABBREVIATIONS

Drawing Title

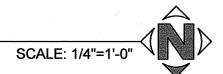
16037A



3/31/16 Scale AS NOTED rawing No. S-001



FOUNDATION PLAN





Encinitas, CA 92024

Owner/Client



Project Engineer PROJECT# 4729

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SYMBOL	Date	Description	Ву

FOUNDATION PLAN

Drawing Title

Commission	Checked		Date	
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