MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY

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- EQUIPMENT BUILDING ELEVATIONS A-202
- EQUIPMENT BUILDING ELEVATIONS A-203



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www.tetratech.com

PROJECT LOCATION: SLEEPY HOLLOW STEELHEAD REARING FACILITY

CLIENT INFORMATION: MONTEREY PENINSULA WATER MANAGEMENT DISTRICT 5 HARRIS COURT, BUILDING G MONTEREY, CA 93940

Tt PROJECT No.: 135-124674-15001

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES: RAW WATER INTAKE AND WATER SUPPLY SYSTEM UPGRADES AT THE SLEEPY HOLLOW STEELHEAD REARING FACILITY (SHSRF).

ISSUED:

MAY 12, 2018 - ISSUED FOR BIDDING

VICINITY MAP:



	1 2	
GENERAL CON	STRUCTION NOTES	
1. TETRA TECH IS NOT COMPLIANCE BY TH	RESPONSIBLE FOR SAFETY, IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR E APPROPRIATE PARTY OF ANY REGULATIONS THERETO. TETRA TECH	
EXERCISES NO CON COMPONENTS, SCA	ITROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING FFOLDING, FORMS, OR OTHER WORK AIDS USED IN OR ABOUT THE PROJECT,	
OR IN THE SUPERVI	SION OF THE SAME.	
UTILITY LOCAT	ION NOTES	
1. CALIFORNIA STAT	E LAW REQUIRES CONTRACTORS TO LOCATE UTILITIES PRIOR TO BEGINNING	
ANY EXCAVATION REGULATIONS GO	CONTRACTOR IS EXPECTED TO ABIDE BY ALL APPLICABLE LAWS AND VERNED BY THE STATE OF CALIFORNIA.	
2. EXCAVATORS MUS	ST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, AND UP TO 14 BUSINESS	
3 IT IS THE RESPON	SIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING LITILITIES BOTH	
	ID VERTICALLY PRIOR TO STARTING CONSTRUCTION. THE 811 DIGLINE MAY	
	EN LOCATED. THIS INCLUDES POTHOLING ALL UTILITY CROSSINGS. THE	
CROSSINGS.		
SURVEY CONT	ROL DATA	
SURVEY PERFORMED	UNDER THE SUPERVISION OF DAN HELT LS 8925	
SURVEY DATES: JUNE	22-25 2015	
HORIZONTAL C	ONTROL	
HORIZONTAL CONTRO	L FOR THIS PROJECT IS BASED ON THE CALIFORNIA ZONE 4 NORTH AMERICAN DATUM OF 1983	
DEFINED LOCALLY BY COORDINATES FOR LC	CORS STATION SANTA LUCIACN, 2004 P171. DCAL CONTROL WERE ESTABLISHED BY GPS AND	
ADJUSTED THROUGH	POST PROCESSING.	
BASIS OF BEAF	ling	
THE BEARING OF N54° AND "4" IS THE BASIS (45'15"W BETWEEN SET CONTROL MONUMENTS "3" DF BEARING FOR THIS PROJECT	
CONTROL POIN	IT NUMBER "3"	
N [:] 2055949 337	COMBINED FACTOR: 0 99993164	
E: 5762949.718 ELEV: 403.17	CONVERGENCE ANGLE: -1°37'13"	
CONTROL POIN	IT NUMBER "4"	
N: 2056061.227	COMBINED FACTOR: 0.99993167	
E: 5762791.373 ELEV: 402.11	CONVERGENCE ANGLE: -1°37'14"	
VERTICAL CON	TROI	
	OR THIS PROJECT IS BASED ON THE NATIONAL	
GEODETIC VERITCAL E BY NGS SURVEY MONI	OATUM OF 1929 (NGVD 29) AND IS DEFINED LOCALLY JMENT F 704 PID: GU2842 ELEV = 408.50.	
BENCHMARK		
	THIS PROJECT IS SET CONTROL POINT NUMBER "3"	
SEE DRAWING C010 FC ELEVATION = 403.17 FE	DR LOCATION. ET (NGVD 29).	



ABBREVIATIONS



A	AIR	FG	FINISHED GRAD
AFF	ABOVE FINISHED FLOOR	FLG	FLANGE
AB	ANCHOR BOLT	FM	FORCE MAIN
ABV	ABOVE	FOC	FACE OF CONC
ADD'L	ADDITIONAL	FOF	FACE OF FRAM
AHU	AIR HANDLING UNIT	FOS	FACE OF STUD
ALT	ALTERNATE	FRP	FIBER REINFOR
ALUM	ALUMINUM	FT	FEET
ARCH	ARCHITECTURAL	GA	GAUGE
В	BYPASS	GAL	GALLONS
BD	BOARD	GI	GALVANIZED IF
BLDG	BUILDING	GPD	GALLONS PER
BLK	BLOCK	GPM	GALLONS PER
во	BOTTOM OF	GS	GRAVITY SEWE
BV	BUTTERFLY VALVE	GV	GATE VALVE
CD	CHEMICAL DRAIN	GWB	GYPSUM WALL
CFM	CUBIC FEET PER MINUTE	GYP	GYPSUM
CI	CAST IRON	HAS	HEADED ANCH
CIP	CAST IN PLACE	HDPE	HIGH DENSITY
CL	CENTER LINE	HDWR	HARDWARE
CLR	CLEAR	HGL	HYDRAULIC GR
CMP	CORRUGATED METAL PIPE	HM	HOLLOW META
CMU	CONCRETE MASONRY UNIT	HORIZ	HORIZONTAL
CO		HR	HOUR
CONC	CONCRETE	HRT	
CONN	CONNECTION	HP	HORSEPOWER
COORD			
		LHU	LOW HEAD UX
DS		LOC	
DIL		LP	
DWG	DRAWING	MAV	MOTORIZED AII
EA		MAX	MAXIMUM
EF	EACH FACE/EXHAUST FAN	MECH	MECHANICAL
EFF	EFFLUENT	MFR	MANUFACTURE
EG	EXHAUST GRILL	MG	MILLION GALLC
EL	ELEVATION	MG/L	MILLIGRAMS PE
ELEC	ELECTRIC	MGD	MILLION GALLC
EOS	EDGE OF SLAB	MH	MANHOLE
EP	EDGE OF PAVEMENT	MIN	MINIMUM
EQ	EQUAL	MJ	MECHANICAL J
EQUIP	EQUIPMENT	MT	MOUNTED
EW	EACH WAY	MTL	METAL
EXIST	EXISTING	NIC	NOT IN CONTRA
F	FAHRENHEIT	OA	OUTSIDE AIR
FCO	FLOOR CLEAN OUT	OC	ON CENTER
FD	FLOOR DRAIN	OH	OVERHANG
FFE	FINISHED FLOOR ELEV	OPP	OPPOSITE

PD

ΡE

PNT

PRV

PSIG

PVC R

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CRETE MING RCED PLASTIC

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BOARD

HOR STUD POLYETHELENE

RADE LINE

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YGENATOR

AIR VALVE

RER ONS PER LITER ONS PER DAY

JOINT

RACT

PERFORATED DRAIN PLAIN END PAINT PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH GAGE PENSTOCK TAP POLYVINYL CHLORIDE RADIUS **RETURN AIR** REDUCED PRESSURE BACKFLOW RPBP PREVENTER RECIRC RECIRCULATION REINF REINFORCING REQ'D REQUIRED ROUGH OPENING SCFM STD CUBIC FEET PER MINUTE STORM DRAIN SHEET SQUARE FEET/SUPPLY FAN SIMILAR SLOPE SQUARE SS/SST STAINLESS STEEL STE SEPTIC TANK EFFLUENT SEPTIC TANK EFFLUENT PUMP STEP TOP OF CURB TOP DEAD CENTER TOP OF TOP OF CONCRETE TOP OF WALL TAILRACE TAP TUBE STEEL TYPICAL UNDERDRAIN UNIT HEATER ULTRA VIOLET RADIATION VENT VARIABLE FREQUENCY DRIVE VACUUM VINYL VERTICAL VENT THROUGH ROOF WITH WATER HEATER NON-POTABLE WATER NON-POTABLE HOT WATER POTABLE WATER POTABLE HOT WATER WATER SURFACE WELDED WIRE FABRIC YARD CLEAN OUT







	LEGEND
	PROCESS PIPE
	DIGITAL SIGNAL
oo	ANALOG SIGNAL
1350 (810) GPM	FLOW @ 0% REUSE (FLOW @ 40% REUSE)

					15350 SW Sequola PKWY, Ste 220 Portland, OR 97224	Tel 503.684.9097	
		PF PF	OFE AN	SSIO, ADE, -30-1	6 Control Mark		
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MONTEREY PENINSULA WATER MANAGEMENT DISTRI	PROCESS FLOW				AND INSTRUMENTATION		
Pro Des Dra	ject signe wn I	No.: ed By By: d By	13 y: :	5-12	4674	4-150 Е Е	D01 BJV GN DJN
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	FROCESS WATER CO
LINES AT THE POINT OF CONNECTION TO THE NEW SYSTEM PRIOR TO ORDERING MATERIALS THAT DEPEND ON THIS INFORMATION.	 SEE PIPE SCHEDULE ON DV CLEAN PIPE OF ALL DEBRIS
2. ALL PIPE TO STRUCTURE CONNECTIONS AND PENETRATIONS (INCLUDING MANHOLES) SHALL HAVE A FLEXIBLE COUPLING OR FLEXIBLE JOINT NOT MORE THAN 18 INCHES OR ONE HALF OF THE PIPE DIAMETER (WHICHEVER IS GREATER) FROM THE OUTSIDE WALL OF THE STRUCTURE. ALL CONNECTIONS OF PRESSURIZED PIPING SHALL BE RESTRAINED.	PIPE. REMOVE GRINDINGS, 3. ELBOWS AND ANGLE POINT ALIGNMENT FOR THE PIPE. COMPLIANCE WITH APPLICA ENGINEER DEELECTIONS O
	4. SOME PIPE TYPES MAY ALL
GENERAL GEOTECHNICAL NOTES	5. PRESSURE TEST ALL PIPES
SEE GEOTECHNICAL INVESTIGATION BY PACIFIC CREST ENGINEERING INC. DATED APRIL 2018 FOR INFORMATION REGARDING EXPECTED SUBSURFACE CONDITIONS INCLUDING BUT NOT LIMITED TO AREAS OF EXPECTED DIFFICULT EXCAVATION AND GROUNDWATER CONDITIONS AS WELL AS OTHER	DOCUMENTS, THEN TEST T MAXIMUM PRESSURE FOR F ACCORDANCE WITH APPLIC
CRITERIA NOT IDENTIFIED ON THE DRAWINGS.	6. CONTRACTOR TO VERIFY F COMPATIBLE AND PROVIDE
THE INITIAL PREPARATION OF THE SITE MAY CONSIST OF REMOVAL OF ANY DESIGNATED TREES AND DEBRIS. TREE REMOVAL, IF NEEDED, SHOULD INCLUDE THE ENTIRE STUMP AND ROOT BALL. ANY VOIDS CREATED BY THE REMOVAL OF TREE AND ROOT BALLS MUST BE BACKFILLED WITH PROPERLY COMPACTED ENGINEERED FILL. SURFACE VEGETATION, TREE ROOTS AND ORGANICALLY CONTAMINATED TOPSOIL SHOULD THEN BE REMOVED ("STRIPPED") FROM THE AREA TO BE GRADED. IN ADDITION, ANY REMAINING DEBRIS OR LARGE ROCKS MUST ALSO BE REMOVED (THIS INCLUDES CONCRETE OR ROCKS GREATER THAN 2 INCHES IN GREATEST DIMENSION). LARGE ROCKS MIXED WITH CLEAN SOIL CAN BE USED FOR FILL WHERE DESIGNATED.	7. INSTALL STEEL PIPE IN ACC ACCORDANCE WITH AWWA INSTITUTE (PPI) POLYETHYI AND ASTM D 2321.
GENERAL SUBGRADE PREPARATION	
AREAS OF MAN-MADE FILL, IF ENCOUNTERED, ARE TO BE COMPLETELY EXCAVATED TO UNDISTURBED NATIVE MATERIAL. EXPOSED SOILS IN AREAS TO RECEIVE CONCRETE SLABS-ON-GRADE SHOULD BE SUBEXCAVATED TO A MINIMUM DEPTH SHOWN BELOW BOTTOM OF ALL FOUNDATIONS. SUBEXCAVATIONS SHOULD EXTEND AT LEAST 5 FEET HORIZONTALLY BEYOND FOUNDATIONS, UNLESS DIMENSIONED OTHERWISE ON THE DRAWINGS. FOLLOWING CLEARING, STRIPPING AND ANY NECESSARY SUBEXCAVATIONS, THE EXPOSED SUBGRADE SOIL THAT IS TO SUPPORT CONCRETE SLABS-ON-GRADE, AND FOUNDATIONS SHOULD THEN BE SCARIFIED 8 INCHES, AND THE SOIL MOISTURE CONDITIONED AND COMPACTED. FOLLOWING THE SUBEXCAVATION AND SUBGRADE PREPARATION, AREAS SHOULD BE BROUGHT UP TO DESIGN GRADES WITH ENGINEERED FILL THAT IS MOISTURE CONDITIONED AND COMPACTED.	
ENGINEERED FILL	
NATIVE OR IMPORTED SOIL PROPOSED FOR USE AS ENGINEERED FILL SHOULD MEET THE FOLLOWING REQUIREMENTS:	
 A. FREE OF ORGANICS, DEBRIS, AND OTHER DELETERIOUS MATERIALS. B. FREE OF "RECYCLED" MATERIALS SUCH AS ASPHALTIC CONCRETE, CONCRETE, BRICK, ETC. C. GRANULAR IN NATURE, WELL GRADED, AND CONTAIN SUFFICIENT BINDER TO ALLOW UTILITY TRENCHES TO STAND OPEN. D. FREE OF ROCKS IN EXCESS OF 2 INCHES IN SIZE. E. A PLASTICITY INDEX BETWEEN 4 AND 12 AND A MINIMUM RESISTANCE "R" VALUE OF 30. F. NON-EXPANSIVE. 	
ENGINEERED FILL PLACEMENT, COMPACTION, AND MOISTURE CONDITIONING	
ENGINEERED FILL SHOULD BE PLACED IN MAXIMUM 8 INCH LIFTS, BEFORE COMPACTION, AT A WATER CONTENT WHICH IS WITHIN 1 TO 3 PERCENT OF THE LABORATORY OPTIMUM VALUE. FILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF ITS MAXIMUM DRY DENSITY. MAXIMUM DRY DENSITY WILL BE OBTAINED FROM A LABORATORY COMPACTION CURVE RUN IN ACCORDANCE WITH ASTM PROCEDURE D1557. THIS TEST WILL ALSO ESTABLISH THE OPTIMUM MOISTURE CONTENT OF THE MATERIAL. FIELD DENSITY TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM TEST D6938 (NUCLEAR METHOD). PERFORM FIELD DENSITY TESTING IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION.	
UTILITY TRENCH BACKFILL	
ANY PIPES WITHIN THE TOP 24 INCHES OF A FINISHED SURFACE THAT WILL HAVE VEHICLE TRAFFIC SHALL BE CONCRETE ENCASED. PIPES SHALL BE BEDDED AND BACKFILLED AS SHOWN ON THE DRAWINGS AND DEFINED IN THE SPECIFICATIONS.	
BACKFILL IS DEFINED AS MATERIAL PLACED IN A TRENCH STARTING ONE FOOT ABOVE THE PIPE, AND BEDDING IS ALL MATERIAL PLACED IN A TRENCH BELOW THE BACKFILL.	
UNLESS SHOWN OTHERWISE, BEDDING AROUND UTILITY PIPES SHALL BE FREE-DRAINING CLEAN SAND FOR PIPES LESS THAN 6 INCHES DIAMETER. SAND BEDDING SHOULD BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. CLEAN SAND IS DEFINED AS 100 PERCENT PASSING THE #4 SIEVE, AND LESS THAN 5 PERCENT PASSING THE #200 SIEVE. APPROVED IMPORTED CLEAN SAND OR APPROVED NATIVE SOIL SHOULD BE USED AS UTILITY TRENCH BEDDING AND BACKFILL. BACKFILL IN TRENCHES LOCATED UNDER AND ADJACENT TO STRUCTURAL FILL, FOUNDATIONS, CONCRETE SLABS AND PAVEMENTS SHOULD BE PLACED IN HORIZONTAL LAYERS NO MORE THAN 8 INCHES THICK. EACH LAYER OF TRENCH BACKFILL SHOULD BE WATER CONDITIONED AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. UTILITY TRENCHES WHICH CARRY "NESTED" CONDUITS (STACKED VERTICALLY) SHOULD BE BACKFILLED WITH A CONTROL DENSITY FILL (SUCH AS 2-SACK SAND\CEMENT SLURRY) TO AN ELEVATION ONE FOOT ABOVE THE NESTED CONDUIT STACK.	
RAS/TREATMENT BUILDING	
THE FOUNDATION FOR THE RAS/TREATMENT BUILDING SHALL BE UNDERLAIN BY A MINIMUM 6 INCH THICK CAPILLARY BREAK OF ¾ INCH CLEAN CRUSHED ROCK (NO FINES). THE CAPILLARY BREAK SHALL BECOME THE TOP 6 INCHES OF THE 36 INCH DEPTH OF ENGINEERED FILL. A VAPOR RETARDER SHALL BE PLACED BETWEEN THE CAPILLARY BREAK LAYER AND THE FOUNDATION. VAPOR RETARDER SHALL BE A HIGH QUALITY VAPOR RETARDER AT LEAST 10 MIL THICK AND PUNCTURE RESISTANT (STEGO WRAP OR EQUIVALENT). THE VAPOR RETARDER MUST MEET THE MINIMUM SPECIFICATIONS FOR ASTM E1745, STANDARD SPECIFICATION FOR WATER VAPOR RETARDER. LAPS AND SEAMS SHOULD BE OVERLAPPED AT LEAST SIX INCHES AND PROPERLY SEALED TO PROVIDE A CONTINUOUS LAYER	

TAILRACE TAP (TRT)

FALLS CREEK TAP

SANITARY SEWER

SANITARY SEWER

ABANDONED PIPE

ELECTRIC - OVERHEAD

COMM - UNDERGROUND

WETLANDS BOUNDARY

CONTOUR MAJOR

CONTOUR MINOR

ELECTRIC - UNDERGROUND

STORM SEWER

FORCEMAIN

FIBER OPTIC

ASPHALT

GRAVEL

STEEL FENCE

WOOD FENCE

WATER

GAS

WARM WATER SUPPLY

UNDERGROUND ELECTRIC

UNDERGROUND TELEPHONE

UNDERGROUND FIBER OPTIC

HIGH PRESSURE, PENSTOCK TAP

ONSTRUCTION NOTES

WG D-001 FOR PIPE MATERIAL TYPE AND WALL THICKNESS.

S DURING INSTALLATION. DO NOT RELY ONLY ON FLUSHING TO CLEAN THE , FILINGS, SLAG, ETC. DURING INSTALLATION.

TS ARE SHOWN ON THE DRAWINGS TO ACHIEVE THE DESIRED LOCATION AND . CONTRACTOR SHALL USE ELBOWS THAT ARE FABRICATED AND MITERED IN ABLE PIPE STANDARDS. WHERE NECESSARY AND UPON REVIEW BY THE OTHER THAN WHAT ARE SHOWN ON THE DRAWINGS MAY BE USED.

LOW FOR ANGLES TO BE MADE BY DEFLECTING OR BENDING THE PIPE. EXCEED MANUFACTURES MAXIMUM DEFLECTION OR MINIMUM RADIUS.

. IF TEST PRESSURE IS NOT SPECIFIED ELSEWHERE IN THE CONTRACT TO 1.5 TIMES THE RATED PRESSURE. DO NOT EXCEED MANUFACTURE PIPE, FITTINGS, VALVES OR EQUIPMENT. TEST PROCEDURE TO BE IN ICABLE ASTM STANDARD AND AS APPROVED BY THE ENGINEER.

FITTINGS AND CONNECTIONS BETWEEN DIFFERENT MATERIAL TYPES ARE E ADAPTERS WHERE NECESSARY.

CORDANCE WITH AWWA MANUAL M11 AND FIELD WELD IN A C206. INSTALL HDPE PIPE IN ACCORDANCE WITH THE PLASTIC PIPE (LENE PIPE HANDBOOK, APPLICABLE PPI GUIDELINES, AWWA C906,

EXISTING

	- wws ·	
	— PT -	
	- FCT ·	
SS -		— ss ——
		— UE ——
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20200020002000200 RIPRAP CONCRETE BUILDING OUTLINE

TREES



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WATER VALVE
BORING
MONITORING WELL
OBSERVATION WELL
UTILITY POLE

UTILITY POLE ANCHOR

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STORM SEWER SANITARY SEWER SANITARY SEWER (FORCE MAIN) WATER ASPHALT GRAVEL ROAD CENTERLINE STEEL FENCE WOOD FENCE SEDIMENT CONTROL FENCE FLOOD HAZARD AREA PROPERTY LINE RIGHT OF WAY LINE (R-O-W) LIMITS OF CONTRUCTION EASEMENT POND / LAKE EDGE RAIL ROAD TRACK WETLANDS BOUNDARY CONTOUR MAJOR CONTOUR MINOR CONTOUR DEPRESSION ASPHALT PAVED SURFACE RIPRAP CONCRETE GRAVEL SURFACING PIPE BEND GATE VALVE WATER VALVE BACK FLOW PREVENTER HOSE BIB PIPE CAP HYDRANT SEWER CLEANOUT STORM BASIN STORM MANHOLE STORM CULVERT END ELECTRIC METER TRANSFORMER PAD SPOT ELEVATION BUTTERFLY VALVE









4'-0"

080800 C

8"MIN

685896

- BENCH

SLOPE 1:12

- CONC FILL



1"-0 COMPACTED CRUSHED ROCK UNDISTURBED SUB-GRADE -

TRACER WIRE

SEE NOTE 7 —

SEE NOTE 3 —

FLEXIBLE JOINT -

MANHOLE ADAPTER

- 1. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C478.
- 2. ALL POURED CONCRETE SHALL HAVE A MINIMUM 28 DAY

18"MAX

- COMPRESSIVE STRENGTH OF 3,000 PSI 3. PIPE TO MANHOLE ADAPTER SHALL PROVIDE A WATERTIGHT FLEXIBLE CONNECTION. KOR-N-SEAL OR EQUAL W/ STAINLESS STEEL
- ACCESSORIES. 4. PROVIDE A MINIMUM 8" CLEARANCE BETWEEN ADJACENT PIPE HOLES AND JOINTS IN MH BARREL.
- 5. MH STEPS ARE REQ'D WHEN DEPTH IS GREATER THAN 4'-0".
- 6. LOCATE MANHOLE COVER AND FRAME IN CENTER OF TOP SLAB WHEN DEPTH IS LESS THAN 4'-0"
- 7. SECURE TRACER WIRES TO INSIDE OF MANHOLE WITH NON-CORROSIVE FASTENERS. COIL ENDS OF WIRES, LEAVE ENOUGH FREE WIRE TO EXTEND 18" ABOVE TOP OF COVER.







1. STRIP TOPSOIL AND REMOVE ALL ORGANICS PRIOR TO PLACING FILL. 2. COMPACT TO 95% MAX DRY DENSITY.

NATIVE STRUCTURAL FILL SEE NOTES

1. NATIVE BACKFILL SHALL MEET REQUIREMENTS OF STRUCTURAL FILL IF REQUIREMENTS CANNOT BE ACHIEVED THEN CONTRACTOR SHALL FURNISH IMPORTED FILL.

- 2. STRIP TOPSOIL AND REMOVE ALL ORGANICS PRIOR TO PLACING FILL.
- 3. COMPACT TO 95% MAX DRY DENSITY.



GRAVEL SURFACING

NO SCALE



- 1. PRIOR TO EXCAVATION, TOPSOIL SHALL BE STRIPPED AND
- STOCKPILED ONSITE. 2. UTILIZE STOCKPILED TOPSOIL FOR FINAL RESTORATION.
- 3. COMPACT WITH ROLLER EQUIPMENT
- 4. RESEED WITH NATIVE GRASS MIX WHEN INSTRUCTED BY THE OWNER.











BY							
MARK DATE DESCRIPTION							
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND	WALER SUPPLY SUSTEN UPGRADE	CIVIL DETAILS			
Pro De Dra Ch	ojec sigr awn eck	et No.: ned By By: ced By	13 y: -()(4674 D	E E D	OO1 GN JJN

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(e	PRIOR OWNEI SALVA	TO STARTI R TO DETER GED.	NG DEMOLIT RMINE ANY IT	ION, MEET V TEMS THAT /	VITH THE ARE TO BE				tototop 20	-iteliatecri.cc -kwv_Ste 22	nd. OR 9722
2. / S	ALL EG SALVA DISPOS	QUIPMENT A GE SHALL E SED.	AND MATERIA BE HAULED C	ALS NOT DES OFF-SITE AN	SIGNATED FOR D LEGALLY		TRA -			www SW Securoia I	
							Ш			15350 5	
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		DEMOL	ITION KEY	ED NOTES	S:	-			J		
	DEMO PIPES CONCI OR GR	INTAKE SC AND COND RETE WET V RANULAR M	REEN AND W UIT. REMOVE WELL AND BA ATERIAI	ET WELL. R TOP 3-FEE CKFILL WIT	EMOVE PUMPS T OF THE TH NATIVE SANI	;, Э	P	ROFE	SSIO	Na	
2	ABAN[PLUG	DON EXISTII	NG BURIED F	PIPING IN PL	ACE. CUT AND			LA N	ADE,		
3		R WILL SAL	VAGE EXISTI TH PORTABI	NG ABOVE (GROUND 6"		*	Exp. 6	-30-1 VIL	9	₽ ★ い
4) I	REMO	VE VAULT P	PIPING, VALVI	ES, AND FLC	OW METER.	_		OF (CALIF	0h1 5-12	18
	SALVA OF VA	AGE FLOW N ULT STRUC	TURE AND B	VNER. REMO ACKFILL WIT	OVE TOP 3-FEE TH NATIVE						
5 -	SAND TEMP(DEMO	OR GRANUI ORARILY RE EXISTING (ELOCATE ANI	AL. D STORE CC LAB, WOOD	OLING TOWER STAIRS, AND						
6	DECK.										
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GENERAL NOTES:

1. ELEVATIONS AT EDGE OF STRUCTURES ARE OF FINISH GRADE ADJACENT TO THE STRUCTURE.

KEYED NOTES: 12" OF DISCHARGE IE 390.93. CORE DRILL EXIST CONC DRAIN CHANNEL		TETRA TECH	.	www.tetratech.com	15350 SW Sequola PKWY, Ste 220 Portland, OR 97224 Tel 503.684.9097
 WALL 12" SDR 35 PVC GASKETED 45° AND 22.5° ELBOWS. ACTUAL DEFLECTION ANGLE = 64.5° 48" CONCRETE MANHOLE 12" PVC 90° ELBOW 6" PVC 45° ELBOW 6" DVC 45° ELBOW 16" DI MJXMJ 45° VERTICAL ELBOW 16" DI MJXMJ 45° ELBOW 16" DI MJXMJ 90° ELBOW 16" DI MJXMJ 90° ELBOW 12" DI MJXMJ 45° ELBOW 14" PVC 45° ELBOW 4" PVC 45° ELBOW 			ROFESS LA NAL FACTOR TAR	10N412 100 19 19 11 11 5	THOME TO A BE
EXISTING GROUND 'JIJJJJJ MJXMJ 6'-0"	~				
4" MJXMJ ELBOW 4" PLUG VALVE W/ VALVE BOX	DESCRIPTION				
RU DRAIN CONNECTION SCALE: 1/2" = 1'-0"	MARK DATE				
	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SI FEPY HOLLOW STEFI HEAD REARING FACILITY	RAW WATER INTAKE AND	EOLIDMENT RUI DING	SITE PIPING PLAN	
	Proj Des Drav	ect No.: igned B wn By:	y:	124674	I-15001 EGN EGN
	Che		-2	02	DJN 2

Copyright: Tetra Te

4 PROFILE: 12" RIVER WATER / 12" REUSE - SCALE: 1"=20' H, 1"=10' V

5+	00 6+	00 7+
	12" RW & 12" RU S=0.0025	

- /

ER	OSION CONTROL NOTES
1.	THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
2.	THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE OR VIOLATE APPLICABLE WATER STANDARDS.
3.	THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NECESSARY TO PREVENT EROSION FROM THE SITE.
4.	THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
5.	CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE CLEANED AS NECESSARY TO PREVENT TRACKING OF SEDIMENT OFF THE SITE. ADDITIONAL MEASURES SUCH AS STABILIZED CONSTRUCTION ENTRANCES OR WHEEL WASH STATIONS WILL BE REQUIRED IF VEHICLES ARE TRACKING SEDIMENT.
6.	EROSION CONTROL MAINTENANCE PERIOD SHALL BE DEEMED OVER WHEN ALL CONSTRUCTION IS COMPLETED AND ACCEPTED AND ALL EXPOSED AREAS ARE PROTECTED BY PERMANENT COVER. AT THAT TIME TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED.
7.	THE BOUNDARIES OF THE CLEARING LIMITS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.

/2018 7:32:47 PM - P:\124674\135-124674-15001\CAD\SHEETFILES\EC-100 IN-WATERWORK.DWG - NORDHOL

CODE DATA	
BUILDING CODE: CBC 2016	

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

F-1 HATCHERY WATER PUMPING FACILITY

EXIT ACCESS TRAVEL DISTANCE < THAN STATED IN TABLE 1016.1 F-1 MAX DISTANCE = 250' PROPOSED MAX DISTANCE = 62'

CHAPTER 5 - BUILDING HEIGHT AND AREA TABLE 503

FACTORY USAGE TYPE OF CONSTRUCTION MAX AREA ALLOWED AREA PROPOSED MAX BUILDING HEIGHT ALLOWED

MAX BUILDING HEIGHT PROPOSED

CHAPTER 6 - 1	YPE OF CONSTRUCTION	TYPE V-N
TABLE 601	PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS INTERIOR NONBEARING WALLS FLOOR CONSTRUCTION	0 HOURS 0 HOURS 0 HOURS 0 HOURS 0 HOURS
	ROOF CONSTRUCTION	0 HOURS

F-1

- 4'

SCALE: 1/4" = 1'-0"

CHAPTER 9 - FIRE PROTECTION

NO SPRINKLERS

BUILDING IS UNHEATED

1	
	TETRA TECH www.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
	KC-35520 REN. 12/31/2019
	BY
	ARK DATE DESCRIPTION
	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE EQUIPMENT BUILDING ROOF PLAN
0 2' 4' 8' SCALE: 1/4" = 1'-0"	Project No.: 135-124674-15001 Designed By: MMB Drawn By: MMB Checked By: DJN

Project No.: 135-12467 Designed By: Drawn By: Checked By:	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE FLENATONS	MARK DATE DESCRIPTION	★ C-35520 REN. 12/31/2019	TETRA TECH www.tetratech.com
4-15001			ici +	15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097

SCALE: 1/4" = 1'-0"

8'	P D C	MONTEREY PENINSUL A WATER MANAGEMENT DISTRICT	MARK DATE DESCRIPTION	K		
Δ	Project Design Drawn Check	SLEEPY HOLLOW STEELHEAD REARING FACILITY		5	*	
	t No.: ned By By: ed By	RAW WATER INTAKE AND			COM. M. M.	TETRA TECH
2	13 /: :				ED	
ſ	5-124				ARC 552 731/20 731/20 CAL	manut totratoch com
	4674	FLEVATIONS				
2	1-150 MI MI D				tici *	15350 SVV Sequoia PKwy, Ste 220 Portland, OR 97224
)01 MB MB JN					Tel 503.684.9097

0 2' 4' SCALE: 1/4" = 1'-0"

	G. S	FRUCTURAL - GENERAL	C. CC	ONCRETE
	G1	SCOPE THE NOTES AND DETAILS ON THIS SHEET ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.	C1	APPLICABLE CODE CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
F	G2	APPLICABLE SPECIFICATIONS AND CODES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. THE ABOVE SHALL GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.	C2	REINFORCING STEEL DETAILS DETAILING, FABRICATION AND ERECTION OF REINFORCING STE NOTED, SHALL BE IN ACCORDANCE WITH DETAILS AND DETAILI REINFORCEMENT ACI 315.
	G3	ALTERNATIVE DESIGNS THE STRUCTURAL SYSTEMS AND DETAILS ON THESE PLANS ARE THE PRIORITY DESIGN:	C3	DESIGN STRENGTHS A. CAST-IN-PLACE CONCRETE
_	G4	HOWEVER, ALTERNATIVE SYSTEMS AND DETAILS MAY BE CONSIDERED IF THE CONTRACTOR SUBMITS PLANS WITH SUBSTANTIATING CALCULATIONS AND TEST DATA WHICH BEAR A CALIFORNIA STATE LICENSED ENGINEER'S SEAL AND SIGNATURE FOR APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHOSE EFFORTS FOR REVIEW OF SUCH ALTERNATIVE DESIGNS SHALL BE PAID FOR BY THE CONTRACTOR. DIMENSIONS STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO FIELD CONDITIONS SHALL BE		 (1) GENERAL USE - f'c = 4500 psi @ 28 DAYS B. MAX WATER TO CEMENTITIOUS MATERIAL RATIO = 0.45 C. MINIMUM CEMENTITIOUS MATERIAL FOR MAXIMUM AGGREMINIMUM AGGREGATE SIZE OF 3/4" OR 1", A FOR NOMINAL MAXIMUM AGGREGATE SIZE OF 1 1/2", AIR CO E. REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60.
		VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DEVIATIONS FROM THAT WHICH IS SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE DRAWINGS.	C4	 F. GROUT SHALL BE ASTM C 1107 WITH fc = 7000 psi @ 28 DAY G. CONCRETE SHALL BE PROPORTIONED TO MEET THE AVER REQUIREMENTS IN ACI 301. CONCRETE COVER
	G5	CONSTRUCTION LOADS STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED	04	CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLI
E		STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND SUPPORTS AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND MAINTENANCE OF TEMPORARY SUPPORTS. THE DESIGN OF THE TEMPORARY SUPPORTS SHALL BE PERFORMED BY A LICENSED ENGINEER HIRED BY THE CONTRACTOR.	C5	 A. FOOTINGS AND FOUNDATION MATS CAST ON GROUND - 3" B. FORMED OR FINISHED SURFACES - 2" DOWELS
	F. ST	RUCTURAL DESIGN		DOWELS SHALL BE AT LEAST THE SAME SIZE AND SPACING AS LAPPED. THE LAP EMBEDMENT SHALL BE AS RECOMMENDED B
	F1	DESIGN CODE DESIGN IS IN ACCORDANCE WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. THE	C6	BAR SPLICES SPLICES OF REINFORCING STEEL BAR SHALL BE IN ACCORDAN
_	F2	ABOVE SHALL GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE. DESIGN SOIL PRESSURE FOR FOUNDATIONS		CONCRETE DETAILS AND ACI 318 AND SHALL BE CLASS B UNLE LENGTH OF LAP SPLICE OF BARS OF DIFFERENT DIAMETER SHA DIAMETER. BAR SPLICES MAY ALSO BE MADE BY WELDING IN A 1.4 IF APPROVED BY THE ENGINEER.
		DESIGN BASED ON GEOTECHNICAL INVESTIGATION PREPARED BY PACIFIC CREST ENGINEERING INC DATED APRIL 2018. (1) ALLOWABLE BEARING PRESSURE = 1000 PSF W/ 1/3 INCREASE FOR WIND AND SEISMIC (2) LATERAL BEARING = 300 PCF (3) COEFFICIENT OF FRICTION = 0.35	C7	RESTRICTED BAR ANCHORAGE IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED A THE LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTUR FAR AS POSSIBLE AND END IN STANDARD HOOKS.
D	L. DE	(4) FROST DEPTH = 12" ESIGN LOADS	C8	STANDARD HOOKS BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONF ACI 318.
		 A. LIVE (1) SLAB ON GRADE = 125 PSF (2) ELEVATED WALKWAYS AND PLATFORMS = 60 PSF 	C9	CHAMFERS EXCEPT AS OTHERWISE REQUIRED, EXPOSED CONCRETE COR 3/4" CHAMFERS. RE-ENTRANT CORNERS SHALL NOT HAVE FILL
_		 B. SNOW (1) GROUND SNOW LOAD Pg = 0 PSF (2) MINIMUM FLAT ROOF SNOW LOAD Pf = N/A (3) OCCUPANCY CATEGORY II (4) IMPORTANCE FACTOR = N/A (5) EXPOSURE FACTOR Ce = N/A (6) THERMAL FACTOR Ct = N/A 	C10	CAST-IN-PLACE CONCRETE ANCHORS ANCHORS SHALL BE HEADED BOLTS OF ASTM F1554 GRADE 55 ASTM A563 HEAVY HEXAGONAL NUTS AND ASTM A36 PLATE WA CONFORMING TO TABLE 14-2 OF THE CURRENT AISC STEEL CO NOTED OTHERWISE. ALTERNATELY, ANCHORS SHALL BE THREA CONFORMING TO ASTM F1554 GRADE 55 (WITH SUPPLEMENT S HOT DIP GALVANIZED.
		 C. WIND (1) NOMINAL DESIGN WIND SPEED = 85 MPH (2) ULTIMATE DESIGN WIND SPEED = 110 MPH (3) OCCUPANCY CATEGORY II (4) IMPORTANCE FACTOR = 1.0 (5) WIND EXPOSURE B 	C11	POST-INSTALLED ADHESIVE ANCHORS ADHESIVE ANCHORS AND THEIR PROPERTIES SUCH AS DIAMET EMBEDMENT AND MATERIAL/FINSH SHALL CONFORM TO THE D ADHESIVE SHALL BE HILTI HIT-HY 200 OR APPROVED EQUAL. TH GRADE 55 (WITH SUPPLEMENT S1) HOT DIP GALVANIZED.
С		 (6) INTERNAL PRESSURE COEFFICIENTS ENCLOSED BUILDINGS - GCpi = +/-0.18 PARTIALLY ENCLOSED BUILDINGS - GCpi = +/-0.55 	C12	INSTALLATION OF POST-INSTALLED ANCH ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN STRICT CONF MANUFACTURER'S DIRECTIONS. ALL HOLES SHALL BE HAMMEF
		D. SEISMIC (1) OCCUPANCY CATEGORY II (2) IMPORTANCE FACTOR = 1.0 (3) SITE CLASS = D (4) SS = 1.34 S ₁ = 0.49	C13	SPECIAL WEATHER CONCRETING FOR SPECIAL WEATHER CONCRETING (HOT & COLD CONCRETIN ACI COMMITTEE 305, "HOT WEATHER CONCRETING", AND ACI 30 CONCRETING."
) _		(5) $SDS = 0.89$ $SD1 = 0.49$ (6) SEISMIC DESIGN CATEGORY = D (7) ANALYSIS PROCEDURE = EQUIVALENT LATERAL EORCE	C14	CURING CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 308.1.
		 (8) LATERAL FORCE RESISTING SYSTEM (COOLING TOWER) = STEEL ORDINARY MOMENT FRAME WITH UNLIMITED HEIGHT / R = 1 	C15	CONSTRUCTION JOINTS
	M. E _{M1}	NGINEERED BUILDING DESIGN		CONSTRUCTION JOINTS SHALL BE DETAILED AS SHOWN ON TH KEYED FORM IS USED, ALL CONSTRUCTION JOINTS SHALL BE F AMPLITUDE. ALL JOINT SURFACES SHALL BE THOROUGHLY CLE LOOSE CONCRETE, AND LAITANCE OR OTHER BOND REDUCING
В		THE ENGINEERED BUILDING SHALL BE DESIGNED BY THE BUILDING SUPPLIER, THIS INCLUDES THE LATERAL LOAD RESISTING SYSTEM AND ALL PERTINENT COMPONENTS AND CLADDING. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.	C16	CRACK CONTROL JOINTS CCJ INDICATES A 1/8" WIDE CONTINUOUS SAW CUT CRACK CON ELASTOMERIC JOINT SEALANT. VERTICAL CONTROL JOINTS SH
		THE CALIFORNIA BUILDING CODE. DESIGNED ACCORDING TO THE LOADS AS REQUIRED BY THE CALIFORNIA BUILDING CODE. DESIGN LOADS SHALL NOT BE LESS THAN THOSE SHOWN ON THE DRAWING. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY AN ENGINEER IN THE STATE OF PROJECT LOCATION.	c c'	CHAMFER STRIP AND FILLED WITH ELASTOMERIC JOINT SEALA SEALANT SHALL CONFORM TO ASTM C920, TYPE S OR M, GRAD
	M2	FABRICATION THE ENGINEERED BUILDING MANUFACTURERS SHALL BE REGULARLY ENGAGED IN THE	5. 5 S1	CODES AND SPECIFICATIONS
— —	MO	DESIGN AND FABRICATION OF ENGINEERED BUILDING SYSTEMS. PRODUCT DATA AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE APPROVED PRIOR TO FABRICATION.	52	STEEL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATION CONTAINED IN THE 14TH EDITION OF THE AISC MANUAL OF STEE ΜΔΤΕΡΙΔΙ
	IVI3	RESPONSIBILITY TETRA TECH IS NOT RESPONSIBLE FOR THE DESIGN OF ANY ASPECTS OF THESE BUILDINGS OTHER THAN THEIR FOUNDATION SYSTEMS. THE ENGINEERED BUILDING REGISTERED DESIGN PROFESSIONAL SHALL SUBMIT AN ANCHOR BOLT PLAN TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE ANCHOR BOLT PLAN SHALL INDICATE ANCHOR BOLT TYPE, LOCATION, DIAMETER, AND PROJECTION REQUIRED, ALONG WITH REACTION AT EACH LOCATION FOR LOAD COMBINATIONS IN THE CBC.	ΟZ	STRUCTURAL BARS, PLATES, ANGLES, AND CHANNELS INDICAT BE STEEL MEETING ASTM A36 SPECIFICATIONS. ROLLED W SEC MEETING ASTM A572 GR50 OR ASTM A992. HOLLOW STRUCTUR MEETING ASTM A500 GRADE B. BOLTS SHALL BE STEEL MEETIN HEXAGONAL NUTS SHALL BE STEEL MEETING ASTM A563. WASH ASTM F436 UNLESS OTHERWISE NOTED.
A			S3	WELDING WELDING SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING SHALL BE E70XX GROUP, LOW HYDROGEN. LIGHT GAUGE STEE AWS D1.3. WELDING SHALL BE CONDUCTED BY WELDERS CERT
			S4	HOT-DIP GALVANIZING UNLESS OTHERWISE NOTED, ALL STEEL FABRICATIONS SHALL STEEL SHALL BE GALVANIZED AFTER FABRICATION.
. '	10. AL			

	H. F	OUNDATIONS	I. STRU
STRUCTION SHALL CONFORM TO THE 2014 EDITION OF THE ACI	H1	SUBGRADE AND STRUCTURAL FILL SEE CIVIL DRAWINGS AND GEOTECHNICAL INVESTIGATION FOR SUBGRADE PREPARATION.	I1 STRUC SPECIAL IN
ITS FOR STRUCTURAL CONCRETE, ACI 318. L DETAILS	K. S	UBMITTALS	CODE. LAB SHALL BE S REPRESEN
ERECTION OF REINFORCING STEEL, UNLESS OTHERWISE ANCE WITH DETAILS AND DETAILING OF CONCRETE	K1	STRUCTURAL STEEL AND METAL FABRICATIONS SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL STEEL AND METAL FABRICATIONS.	THE FOLLC
5	K2	REINFORCING STEEL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL FABRICATION.	
4500 psi @ 28 DAYS TIOUS MATERIAL RATIO = 0.45 MATERIAL FOR MAXIMUM AGGREGATE SIZE OF 3/4" = 560 LBS/CY	K3	CONCRETE SUBMIT CONCRETE MIX DESIGN AND CONCRETE CYLINDER TEST RESULTS IN ACCORDANCE WITH ACI 318 CHAPTER 5.	INSPECTIO PLACEMEN INSPECTIO
MATERIAL FOR MAXIMUM AGGREGATE SIZE OF 1" = 535 LBS/CY MATERIAL FOR MAXIMUM AGGREGATE SIZE OF 1 1/2" = 515 LBS/CY AGGREGATE SIZE OF 3/4" OR 1", AIR CONTENT = 5% AGGREGATE SIZE OF 1 1/2", AIR CONTENT = 4.5% ALL BE ASTM A 615, GRADE 60. In 107 WITH fc = 7000 psi @ 28 DAYS OPORTIONED TO MEET THE AVERAGE COMPRESSIVE STRENGTH 1.	K4	ENGINEERED BUILDINGS SUBMIT SHOP DRAWINGS THAT ARE SIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION. SHOP DRAWINGS SHALL INCLUDE ANCHOR BOLT PLAN AND REACTIONS AT EACH LOCATION FOR THE LOAD COMBINATIONS IN THE CBC. SEE NOTES M ABOVE AND ARCHITECTURAL DRAWINGS FOR MORE DETAILS.	INSPECTIO HARDENEC VERIFYING
FORCING BARS SHALL BE AS FOLLOWS:			PRIOR TO (SPECIMEN

THE SAME SIZE AND SPACING AS BARS WITH WHICH THEY ARE SHALL BE AS RECOMMENDED BY ACI 318 OR AS NOTED.

EEL BAR SHALL BE IN ACCORDANCE WITH SCHEDULE SHOWN ON 318 AND SHALL BE CLASS B UNLESS OTHERWISE NOTED. THE ARS OF DIFFERENT DIAMETER SHALL BE BASED ON THE SMALLER ALSO BE MADE BY WELDING IN ACCORDANCE WITH AWS SPEC D

NCHORAGE

NG BARS CANNOT BE EXTENDED AS FAR AS REQUIRED DUE TO ADJACENT CONCRETE STRUCTURE, THE BARS SHALL EXTEND AS STANDARD HOOKS.

E BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF

JIRED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE CORNERS SHALL NOT HAVE FILLETS.

NCRETE ANCHORS

BOLTS OF ASTM F1554 GRADE 55 (WITH SUPPLEMENT S1) WITH L NUTS AND ASTM A36 PLATE WASHERS WITH MINIMUM SIZE OF THE CURRENT AISC STEEL CONSTRUCTION MANUAL, UNLESS TELY, ANCHORS SHALL BE THREADED AND NUTTED ROD GRADE 55 (WITH SUPPLEMENT S1). ALL MATERIALS SHALL BE

DHESIVE ANCHORS

EIR PROPERTIES SUCH AS DIAMETER, SPACING, EDGE DISTANCE, INSH SHALL CONFORM TO THE DETAILS IN THESE DRAWINGS. -HY 200 OR APPROVED EQUAL. THREADED ROD SHALL BE F1554 T S1) HOT DIP GALVANIZED.

OST-INSTALLED ANCHORS

LL BE INSTALLED IN STRICT CONFORMANCE TO IS. ALL HOLES SHALL BE HAMMER DRILLED WITH A CARBIDE BIT.

CONCRETING

CRETING (HOT & COLD CONCRETING) ADHERE TO REPORTS OF ATHER CONCRETING", AND ACI 306, "COLD WEATHER

I JOINTS SHALL HAVE THE APPROVAL OF THE ENGINEER. L BE DETAILED AS SHOWN ON THE DRAWINGS. UNLESS A METAL INSTRUCTION JOINTS SHALL BE ROUGHENED TO A MINIMUM 1/4" CES SHALL BE THOROUGHLY CLEANED TO REMOVE GREASE, ANCE OR OTHER BOND REDUCING MATERIAL. SURFACES SHALL PRIOR TO PLACING FRESH CONCRETE.

ONTINUOUS SAW CUT CRACK CONTROL JOINT FILLED WITH VERTICAL CONTROL JOINTS SHALL BE FORMED WITH 3/4 INCH WITH ELASTOMERIC JOINT SEALANT. THE ELASTOMERIC JOINT DASTM C920, TYPE S OR M, GRADE NS, CLASS 50.

ICATIONS

CONFORM TO THE SPECIFICATIONS AND STANDARDS AS ION OF THE AISC MANUAL OF STEEL CONSTRUCTION.

ANGLES, AND CHANNELS INDICATED ON THE DRAWINGS SHALL SPECIFICATIONS. ROLLED W SECTIONS SHALL BE STEEL ASTM A992. HOLLOW STRUCTURAL SECTIONS SHALL BE STEEL B. BOLTS SHALL BE STEEL MEETING ASTM A325. HEAVY STEEL MEETING ASTM A563. WASHERS SHALL BE STEEL MEETING SE NOTED.

D AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". ELECTRODE / HYDROGEN. LIGHT GAUGE STEEL WELDING SHALL CONFORM TO E CONDUCTED BY WELDERS CERTIFIED BY THE AWS.

ALL STEEL FABRICATIONS SHALL BE HOT-DIPPED GALVANIZED. AFTER FABRICATION.

NTATIVE. OWING ITEMS REQUIRE SPECIAL INSPECTION PER CBC CHAPTER 17. THESE ONS SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR.

AND AIR C **TEMPERAT**

CONCRETE TECHNIQUI

VERIFY MA **TEMPERAT**

INSPECTIO AND DIMEN

VERIFY MA ARE ADEQ CAPACITY

VERIFY E DEPTH AND

PERFORM COMPACTI

VERIFY US LIFT THICK COMPACTI

PRIOR TO SUBGRAD PROPERLY

PRIOR TO SPECIFICA CERTIFICA AVAILABLE

PRIOR TO WELDER AND FILLE ACCESS H

DURING W CONTROL CONSUMA WELDS, EI FOLLOWED

AFTER WEI

AFTER WE WELD,S W ARC STRIK TABS REM ACCEPTAN MEMBER

PRIOR TO CERTIFICA MATERIALS

PRIOR TO ACCORDA FASTENEF BOLTING CONNECTI APPROPR HOLE PREI REQUIREM TESTING AND DOCU METHODS PROPER S WASHERS

DURING BO SUITABLE WASHERS BROUGHT PRETENSIO NOT TURN ROTATING ACCORDA

AFTER BOI REJECTION

JCTURAL TESTS AND SPECIAL INSPECTIONS CTURAL TESTS AND SPECIAL INSPECTIONS NSPECTION SHALL CONFORM TO SECTION 1705 OF THE 2016 CALIFORNIA BUILDING

BORATORIES FOR MATERIAL TESTING AND/OR AGENCIES FOR TESTING SERVICES SELECTED BY, ENGAGED BY, AND RESPONSIBLE TO THE OWNER / OWNERS

I

JEC

		Checked By: HRN
DLTING, DOCUMENT ACCEPTANCE OR N OF BOLTED CONNECTIONS	FREQUENCY: PERFORM FOR EACH JOINT REFERENCE: AISC 360-10 TABLE N5.6-3	Project No.:135-124674-15001Designed By:RWMDrawn By:RWM
OLTING, FASTENER ASSEMBLIES, OF CONDITION, PLACED IN ALL HOLES AND ARE POSITIONED AS REQUIRED, JOINT TO THE SNUG-TIGHT CONDITION PRIOR TO ONING OPERATION, FASTENER COMPONENT NED BY THE WRENCH PREVENTED FROM 5, FASTENERS ARE PRETENSIONED IN NOCE WITH THE RCSC SPECIFICATION	FREQUENCY: OBSERVE RANDOMLY REFERENCE: AISC 360-10 TABLE N5.6-2	MONTEREY PENIN SLEEPY HOLLC WATER SU STRUC
NCE WITH ASTM REQUIREMENTS, PROPER RS SELECTED FOR JOINT DETAIL, PROPER PROCEDURE SELECTED FOR JOINT DETAIL, 'ING ELEMENTS, INCLUDING THE HATE FAYING SURFACE CONDITION AND PARATION MEET APPLICABLE MENTS, PRE-INSTALLATION VERIFICATION BY INSTALLATION PERSONNEL OBSERVED UMENTED FOR FASTENER ASSEMBLIES AND SUSED STORAGE PROVIDED FOR BOLTS, NUTS, S AND OTHER FASTENER COMPONENTS	REFERENCE: AISC 360-10 TABLE N5.6-1	ISULA WATER MANAGEMENT DISTI DW STEELHEAD REARING FACILITY WATER INTAKE AND IPPLY STSTEM UPGRADE TURAL GENERA NOTES
BOLTING, MANUFACTURER'S ATIONS AVAILABLE FOR FASTENER S BOLTING, FASTENERS MARKED IN	FREQUENCY: PERFORM FOR EACH JOINT REFERENCE: AISC 360-10 TABLE N5.6-1 FREQUENCY: OBSERVE RANDOMLY	
ELDING, SIZE, LENGTH AND LOCATION OF /ELDS MEET VISUAL ACCEPTANCE CRITERIA, KES, K-AREA, BACKING REMOVED AND WELD IOVED, REPAIR ACTIVITIES, DOCUMENT NCE OR REJECTION OF WELDED JOINT OR	FREQUENCY: PERFORM FOR EACH JOINT REFERENCE: AISC 360-10 TABLE N5.4-3	3K DATE DATE DE
ELDING, WELDS CLEANED	FREQUENCY: OBSERVE RANDOMLY REFERENCE: AISC 360-10 TABLE N5.4-3	SCRIPTI
VELDING, USE OF QUALIFIED WELDERS, AND HANDLING OF WELDING ABLES, NO WELDING OVER CRACKED TACK NVIRONMENTAL CONDITIONS, WPS D, WELDING TECHNIQUES	FREQUENCY: OBSERVE RANDOMLY REFERENCE: AISC 360-10 TABLE N5.4-2	
WELDING, MATERIAL IDENTIFICATION, DENTIFICATION SYSTEM, FIT-UP OF GROOVE ET WELDS, CONFIGURATION AND FINISH OF HOLES, CHECK WELDING EQUIPMENT	FREQUENCY: OBSERVE RANDOMLY REFERENCE: AISC 360-10 TABLE N5.4-1	
WELDING, WELDING PROCEDURE ATIONS AVAILABLE AND MANUFACTURER ATIONS OF WELDING CONSUMABLES E	FREQUENCY: PERFORM FOR EACH JOINT REFERENCE: AISC 360-10 TABLE N5.4-1	
PLACEMENT OF COMPACTED FILL, INSPECT E AND VERIFY THAT SITE HAS BEEN Y PREPARED	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.6	
SE OF PROPER MATERIALS, DENSITIES AND KNESSES DURING PLACEMENT AND 'ION OF COMPACTED FILL	FREQUENCY: CONTINUOUS REFERENCE: CBC 2016 TABLE 1705.6	
CLASSIFICATION AND TESTING OF ED FILL MATERIALS	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.6	
CAVATIONS ARE EXTENDED TO PROPER ID HAVE REACHED PROPER MATERIAL	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.6	
ATERIALS BELOW SHALLOW FOUNDATIONS QUATE TO ACHIEVE THE DESIGN BEARING	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.6	
ON OF FORMWORK FOR SHAPE, LOCATION NSIONS	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	
AINTENANCE OF SPECIFIED CURING TURE AND TECHNIQUE	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	<u> </u>
E PLACEMENT FOR PROPER APPLICATION JES	FREQUENCY: CONTINUOUS REFERENCE: CBC 2016 TABLE 1705.3	LXP. 5-51-20
CONCRETE PLACEMENT, FABRICATE NS FOR STRENGTH TESTS, PERFORM SLUMP CONTENT TESTS, AND DETERMINE THE TURE OF THE CONCRETE	FREQUENCY: CONTINUOUS REFERENCE: CBC 2016 TABLE 1705.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
G USE OF REQUIRED DESIGN MIX	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	OROFESS/04/
ON OF ANCHORS POST-INSTALLED IN D CONCRETE MEMBERS	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	
ON OF ANCHORS CAST IN CONCRETE	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	
ON OF REINFORCING STEEL, INCLUDING NT	FREQUENCY: PERIODIC REFERENCE: CBC 2016 TABLE 1705.3	
ONS SHALL BE PERFORMED BY A QUALIFIED SPE	ECIAL INSPECTOR. DESCRIPTION	3350 SW
OWING ITEMS REQUIRE SPECIAL INSPECTION P	ER CBC CHAPTER 17. THESE	Seq Seq

HILL DECH							www.tetratech.com		15350 SW Sequola PKWY, STE 220	Portland, OR 97224	Tel 503.684.9097
				xp. C/OF		-31-: VIL CALL	E CONTRACTOR				
MARK DATE DESCRIPTION BY											
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY					TYPICAL DETAILS		7			
Pro De Dra Ch	sign awr eck		No.: d By y: I By	1 y: ':	3)(246 0			RV RV	VM VM RN

- 1. FRAME AND COLUMN SPACING TO BE DETERMINED BY BUILI SUPPLIER. FOUNDATION SIZE AND REINFORCING TO BE FINA UPON RECEIPT OF FINAL APPROVED METAL BUILDING DRAV AND CALCULATIONS.
- 2. ANCHOR BOLT DIAMETER, LOCATION, SPACING, AND GRADE BUILDING SUPPLIER. ANCHOR BOLT EMBEDMENT TO BE DETERMINED BY THE ENGINEER OF RECORD ON UPON REC FINAL APPROVED METAL BUILDING DRAWINGS AND CALCUL COORDINATE WITH ENGINEER PRIOR TO CONSTRUCTION.

		TETRA TECH)	www.tetratecn.com	15350 SW Sequoia Pkwy, Ste 220 Portland. OR 97224	Tel 503.684.9097
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ВҮ							
CRIPTION							
MARK DATE DES							
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND		EQUIPMENT BUILDING &	SETTING RASIN DI AN		
Pro De Dra Ch	sign awn ecke	No.: ed By By: ed By	1: /: :	2 (2467	4-150 RV RV H	001 VM RN
	3 및 교 전 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT MARK DATE DESCRIPTION BY	D D	A MONTEREY PENINSULA WATER MANAGEMENT DISTRICT MARK DATE DESCRIPTION SLEEPY HOLLOW STEELHEAD REARING FACILITY TO DIA CONTRACT AND A MATER INTAKE AND A MATER INTAK	A DATER SUPPLY STSTEM UPGRADE WATER SUPPLY STSTEM UPGRADE WATER SUPPLY STSTEM UPGRADE	ACTION TO A CONTRECT MARK DATE DESCRIPTION MONTREY PRINSULA WATER MANAGEMENT DISTRICT MARK DATE DESCRIPTION MATER SUPPLY STSTEM UPGRADE MATER SUPPLY STSTEM UPGRADE Drawn BAI Drawn B	MONTREY PRINKULA WATER MANAGEMENT DISTRICT MARK DATE DESCRIPTION SLEEPPY HOLLOW STEELHEAD REARING FACILITY REAW WATER INTAKE AND MATER SUPPLY STSTEM UPGRADE MATER SUPPLY STSTEM UPGRADE Desidend BA: Drawn BA: Checked BA: Drawn BA: Checked BA: Drawn BA: Checked BA: Drawn BA:	AND TECH POINTS AND A MARK DATE DESCRIPTION BY ALEEPY HOLLOW STEELHEAD REARING FACILITY SLEEPY HOLLOW STEELHEAD REARING FACILITY AND TERS UPPLY STSTEM UPGRADE MATER SUPPLY STSTEM UPGRADE

SCALE: 1/4" = 1'-0"

7	
	TETRA TECH www.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
	Exp. 3-31-20 CIVIL OF CALIFORNIT FOR CALIFO
	SCRIPTION BY
	MARK DATE DI
	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE EQUIPMENT BUILDING SECTIONS
0 1'-4" 2'-8" 5'-4"	Project No.:135-124674-15001Designed By:RWMDrawn By:RWMChecked By:HRN
	S-202

	TETRA TECH www.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
	Exp. 3-31-20 C/VIL OF CALIFORNIT
	B
	MARK DATE DESCRIPTION
	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE SETTLING BASIN SECTIONS
0 1' 2' 4' SCALE: 1/2" = 1'-0"	Project No.: 135-124674-15001 Designed By: RWM Drawn By: RWM Checked By: HRN S-203

NOTES 1. SEE NOTE 2 ON S-201 FOR ANC	CHOR BOLT DETAILS.	TETRA TECH	www.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
		PR W W	DFESSIONA ILL 1414 FB 0.082540 CI P. 3-31-20 CIVIL DF CALIFORNIT F
) — FACE OF GIRT		BY	
WALL SYSTEM BY BUILDING SUPPLIER TOC EL 401.0		MARK DATE DESCRIPTION	
#4 TIES EDGE OF WALL BEYOND WALL REINF CONT TOC EL 398.0		MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SLIPPLY STSTEM LIPGRADE	EQUIPMENT BUILDING SECTIONS AND DETAILS
E: 1"=1'-0"	0 6" 1' 2'	Project No.: Designed By Drawn By: Checked By:	135-124674-15001 : RWM RWM HRN
	SCALE: 1" = 1'-0"	S-	204

	TETRA TECH Max.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
	Exp. 3-31-20
	B
	IK DATE DESCRIPTION
	ONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE COOLING TOWER PLANS
0 2' 4' 8' SCALE: 1/4" = 1'-0"	Project No.: 135-124674-15001 Designed By: RWM Drawn By: RWM Checked By: HRN S-301 Bar Measures 1 inch

		PIPE SCHEDULE		
PIPE ID	FUNCTION	SERVICE	SIZE	PIPE SYSTEM (UNLESS NOTED OTHERWISE)
		BURIED - (<30" COVER)		DI-1
CWE	CLEANING WASTEWATER	BURIED - (>=30" COVER)	ALL	PVC-3
		EXPOSED		PVC-1
D	DDAINI	DIIDIED	3" AND SMALLER	PVC-1
D	DRAIN	DURIED	4" AND LARGER	PVC-3
		CONC ENCASED		STL-1
OFD	OVEDELOW	BURIED - (<30" COVER)	ATT	DI-1
	UVERFLOW	BURIED - (>= 30" COVER)	ALL	PVC-3
		EXPOSED		PVC-1
RU	RE-USE	BURIED - (<30" COVER)		DI-1
		BURIED - (>= 30" COVER)	ALL	PVC-2
		EXPOSED		PVC-1
	RIVER WATER	CONC ENCASED		STL-1
		BURIED - (<30" COVER)		DI-1
RW		BURIED - (>= 30" COVER)	ALL	PVC-2
		EXPOSED - PUMP STATION		DI-1
		EXPOSED - OTHER		PVC-1
		BURIED - (<30" COVER)	ALL	DI-1
		BURIED - (>= 30" COVER)	3" AND SMALLER	DI-1
SB	SPRAY BAR SUPPLY	BURIED - (>= 30" COVER)	4" AND LARGER	PVC-2
		EXPOSED - IN WATER	ATT	STL-3
		EXPOSED - OTHER	ALL	DI-1
WD	WASHDOWN	ATT	2.5" AND SMALLER	STL-2
VVD	WASHDOWN		3" AND LARGER	DI-1

PIPING SYSTEMS

SYSTEM	PIPE MATERIAL - CLASS	PIPE JOINTS	FITTINGS	LINING / COATINGS
DI-1	DUCTILE IRON - CL 52	BURIED - GASKETED BELL & SPIGOT EXPOSED - FLANGED	BURIED - DI MJ RESTRAINED EXPOSED - DI FLANGED	LINING - CEMENT MORTAR COATING (BURIED) - MFR STD ASPHALTIC COATING (EXPOSED) - EPOXY
PVC-1	PVC - SCH 80	SOLVENT WELD OR FLANGED	SCH 80 PVC SOLVENT WELD OR FLANGED	LINING - NONE COATING (BURIED) - NONE COATING (EXPOSED) - FIELD PAINTED
PVC-2	C900/C905 PVC - DR 25	GASKETED BELL AND SPIGOT	DI MJ RESTRAINED	NONE
PVC-3	ASTM D3034 PVC - DR 35	GASKETED BELL AND SPIGOT	PUSH ON PVC- GASKETED	NONE
STL-1	ASTM A53 STEEL - STD WALL	SHOP WELDED OR FIELD FLANGED	ASME B16.9, SHOP WELDED OR FIELD FLANGED	EPOXY LINING AND COATING
STL-2	ASTM A53 STEEL - STD WALL	THREADED OR FLANGED	THREADED OR FLANGED STEEL	GALVANIZED
STL-3	316 STAINLESS STEEL - SCH 10	SHOP WELDED, THREADED, OR FIELD FLANGED	SHOP WELDED, THREADED, OR FLANGED 316 STAINLESS STEEL	NONE

EXH/	EXHAUST FAN SCHEDULE								
TAG		MANUFACTURER	MODEL	DRIVE TYPE	DIMENSIONS (L"xW"xD")	VOLUME (CFM)	STATIC PRESSURE (IN. WG)	MOTOR (HP)	ELEC DATA (V / HZ / PH)
EF-1		Greenheck	AER-E30C-615-C	DIRECT	38x38x20	5570	0.307	0.75	208 / 60 / 3

NOTES: 1. GRAVITY BACKDRAFT DAMPER

2. DISCONNECT SWITCH, FACTORY MOUNTED

3. FURNISH W/ WALL HOUSING

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	DIMENSIONS (L"xW"xD")	VOLUME (CFM)	PRESSURE DROP (IN. WG)	ELEC D (V / HZ
LV-1	Greenheck	ESD-635	EXHAUST	36x36x6	6000	0.195	-
LV-2	LV-2 Greenheck EACA-601 INTAKE 48x48x6 6000 0.070 120 / 6						
NOTES:							

 1. INSECT SCREEN, ALUMINUM, INTERNALLY MOUNTED

 2. BAKED ENAMEL PAINT, OWNER SELECTED COLOR

3. ACTUATOR, 2 POSITION SPRING RETURN W/ AUX. END SWITCH

CLEVIS PIPE HANGER

4

NO SCALE

2. WHERE NO REFERENCE TO PIPE SUPPORT SYSTEMS IS GIVEN ON THE DRAWINGS, THE CONTRACTOR SHALL SUBMIT A PIPE SUPPORT PLAN FOR REVIEW BY THE OWNER AND ENGINEER.

3. THE CONTRACTOR SHALL USE TYPICAL PIPE SUPPORT DETAILS SHOWN IN THESE DRAWINGS. WHERE THESE TYPICAL DETAILS ARE NOT APPROPRIATE OR SUITABLE FOR CONDITIONS, OTHER STANDARD MANUFACTURED COMPONENTS OR ENGINEERED, FABRICATED COMPONENTS MAY BE SUBMITTED FOR REVIEW BY OWNER & ENGINEER

4. ALL PIPING SUPPORTED BY HANGERS OR VERTICAL ATTACHMENTS SHALL BE BRACED AGAINST HORIZONTAL, VERTICAL AXIAL, AND LONGITUDINAL SWAY. BRACING SHALL BE SELECTED TO RESIST SEISMIC LOADINGS AS SPECIFIED BY SMACNA AND AS INDICATED IN THE SPECIFICATIONS.

PIPE SIZE < 1" 1"

1 1/4" 1 1/2" 2" 2 1/2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20" 24"

1. DESIGN WEIGHT SHALL NOT EXCEED MAX LOAD FOR GIVEN ROD SIZE. DESIGN WEIGHT SHALL ACCOUNT FOR ALL LOADS, INCLUDING THE WEIGHT OF THE PIPE FULL OF WATER PLUS THE WEIGHTS OF VALVES, FITTINGS, INSULATING MATERIALS AND SUSPENDED HANGER COMPONENTS.

2. MAXIMUM SPANS ARE BASED ON A SINGLE ROD SUPPORTING A SINGLE PIPE. SHORTER SPANS OR LARGER RODS ARE REQUIRED WHEN SUPPORTING MULTIPLE PIPES, OR CONCENTRATED LOADS FROM EQUIPMENT, VALVES OR FITTINGS.

3. SPAN SHOWN IS FOR SCHEDULE 80 PVC PIPE AT 100° F. SPANS FOR OTHER PLASTICS, OTHER PVC PIPE SCHEDULES AND PIPES AT HIGHER TEMPERATURES SHALL BE SHORTENED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. "CONTINUOUS" MEANS PIPE SHALL BE IN UNISTRUT OR SIMILAR CHANNEL.

4. 12 FT FOR PRESSURE PIPE AND 10 FT FOR SOIL PIPE. OTHERWISE, INSTALL AT LEAST ONE HANGER PER PIPE LENGTH AS NEAR THE BELL AS POSSIBLE. 5. UNDER NO CIRCUMSTANCES SHALL IMPOSED LOAD EXCEED THE PIPE SUPPORT MANUFACTURERS STATED LOAD CAPACITY.

PIPE SUPPORT SYSTEMS GENERAL NOTES

1. MSS REFERS TO MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY, STANDARD PRACTICE SP 58 AND SP 69. FITTINGS SHALL NOT BE LESS THAN MSS CL. B.

5. ALL STRUCTURAL AND PIPE ATTACHMENTS, PIPE SUPPORT RACKS AND TRAPEZE PIPE HANGER COMPONENTS SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

6. ALL SUPPORTS FOR STAINLESS STEEL PIPE SHALL ALSO BE STAINLESS STEEL.

7. PROVIDE MINIMUM EDGE DISTANCE COVER AND SPACING AND EMBEDMENT DEPTH IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR ALL EXPANSION AND EPOXY ANCHORS. NOTIFY ENGINEER IF THESE REQUIREMENTS CANNOT BE ACHIEVED.

8. AT LEAST ONE PIPE HANGER OR SUPPORT SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE JOINT OF ANY CONCENTRATED LOAD OR BEND IN THE PIPE SUCH AS VALVES, FITTINGS, ETC., IN ADDITION TO THE MAXIMUM SPANS LISTED IN TABLE A.

TABLE A						
SUPPORT MAX LOAD	ROD SIZE & . SEE NOTE 1	N	IAXIMUM SP NOT IN I	AN, IN FEET, FOR RACKS SEE NOTE	PIPES 2	
MAX LOAD (LBS)	ROD SIZE (INCHES)	STEEL	COPPER	PLASTIC SEE NOTE 3	CAST IRON	
275	3/8"	5	4	CONTINUOUS	-	
275	3/8"	5	4	5	_	
300	3/8"	5	5	5	_	
300	3/8"	5	5	5	_	
325	3/8"	10	5	5		
375	1/2"	10	10	5		
575	1/2"	10	10	5		
600	5/8"	10	10	7		
750	3/4"	10	10	7	4	
950	7/8"	10	10	7	Ш	
1,200	7/8"	10	—	10	ON	
1,450	7/8"	10	—	10		
2,500	1"	15	-	-	S	
2,500	1"	15	—	-		
2,500	1"	15	_	-		
 4,000	1 1/4"	18	_	-		
4,000	1 1/4"	18	_	_		

TABLE A NOTES

	GENERAL NOTES:
1.	CONTRACTOR SHALL SUBMIT PIPE SUPPORT PLAN FOR REVIEW BY ENGINEER. REFER TO DRAWING D-002 FOR SUPPORT LOCATION AND SPACING REQUIREMENTS.

KEYED NOTES:

(1) STEEL WALL PIPE. EPOXY LINED AND COATED W/ WEEP RING

2 FLANGE x COUPLING ADAPTOR. ROMAC FCA-501 OR EQUAL ③ PVC BUTTERFLY VALVE. LUG INSERT STYLE, BUNA-N SEATS W/ HANDWHEEL ACTUATOR. SPEARS OR EQUAL.

(5)

6

4 SOLID SLEEVE FLEX COUPLING. ROMAC 501 OR EQUAL.

NON-FREEZE POST HYDRANT PER DETAIL 1 / C-003

REUSE PUMPS. END SUCTION, CLOSE COUPLED STYLE. DESIGN POINT 1350 GPM @ 42' TDH, 78% EFFICIENCY. 20 HP, 1200 RPM, 60 HZ MOTOR. BASIS OF DESIGN: BELL AND GOSSETT SERIES E-1532 MODEL 6G, OR EQUAL.

7 12" SQUARE, CAST IRON FLOOR DRAIN. ZURN MODEL Z610 OR EQUAL.

Ch	De	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	MARK	DATE	DESCRIPTION	ВΥ	ĊŢ			
eck	sigi	SLEEPY HOLLOW STEELHEAD REARING FACILITY					*	CIST		
. c	ne									
d By	ed By						E	PF A		Ľ
:	y:						хр. (ОГ	ROF A	5	
	-			T			6-30 1/V1 CA	ESS		
								510, DE,		
	-						9	NA A	www.leiralecn.cor	
									15350 SW Sequoia Pkwy, Ste 22	220
D	E	150					₩ 8		Portland, OR 9722	7224
JN	GN	001					t	١	Tel 503.684.909	9097

D-201

			220
	KEYED NOTES:	atech.	v. Ste
1)	16"x6" MJ TEE WITH 6" RISER PIPE AND QUICK DISCONNECT COUPLING, LOCATED 30" ABOVE GRADE. CONSTRUCT 18"x18"x6" (LxWxD) CONCRETE PAD AROUND RISER PIPE.	A H	equoia Pkw
2	SOLID SLEEVE FLEXIBLE COUPLING. ROMAC 501 OR EQUAL.		ິ ∧
3	16" SST KNIFE GATE VALVE, WITH SQUARE NUT ACTUATOR IN A VALVE BOX CAST INTO TOP SLAB		5350 S
4)	RW PUMPS. SUBMERSIBLE NON-CLOG. DESIGN POINT 1350 GPM @ 54.5' TDH, 78% EFFICIENCY. 30 HP, 1770 RPM, 60 HZ MOTOR. BASIS OF DESIGN: FLYGT MODEL NP-3171 MT3-435, OR EQUAL.		
5	12" LEVER AND WEIGHT CHECK VALVE. LOCATE LEVERS ON OPPOSITE SIDES AS SHOWN IN PLAN.		
6)	LINK SEAL PIPE PENETRATION		
$\overline{7}$	45° MJ ELBOW		
8	12"x12" MJ WYE		
9	12" ELECTROMAGNETIC FLOW METER	AND PROFESSIONAL	
	12"x6" MJ x MJ REDUCING TEE	A A A A A A A A A A A A A A A A A A A	$\langle \rangle$
	90° MJ ELBOW	HAR Nackson	j S
2	6"x3" MJxMJ REDUCING TEE	Exp. 6-30-19	[]
3	6" MJ PLUG VALVE WITH BURIED SQUARE NUT ACTUATOR AND VALVE BOX.	OF CIVIL THE OF CALIFOR	
		- <u> </u>	

(14) YARD CLEAN-OUT. SEE CIVIL DETAILS. 6FT x 4FT PRECAST VAULT WITH TRAFFIC RATED DOUBLE LEAF ALUMINUM HATCH

- 6" SST FLUSH BOTTOM SLIDE GATE. PROVIDE HANDWHEEL, RISING STEM ACTUATOR. SEATING / UNSEATING HEAD = 10 FT.
- 16" SCH 80 PVC REMOVABLE STANDPIPE, TOP ELEV = 404.50. 16" PVC ELBOW PENETRATING SETTLING BASIN BOTTOM SLAB (PROVIDE HYDROPHILIC , ADHESIVE WATER STOP AROUND PVC PENETRATION).
- (18) 16"x12" PVC BUSHING.
- (19) STEEL WALL PIPE WITH WEEP RING. EPOXY LINED AND COATED.

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		TETRA TECH)	www.tetratecn.com	15350 SW Sequoia Pkwy, Ste 220 Portland OR 97224	Tel 503.684.9097	
đ		PF I A A A A A A A A A A A A A A A A A A	XP. 6 XP. 6 CT OF (SSIO ADE -30-1 VIL CALLI	NAL PLAN 9 B			r
BY								
MARK DATE DESCRIPTION								
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND			RW PUMP STATION			
Prc De: Dra	oject sign awn ecke	E No.: ed By: ed By: ed By	13 /: :	2 2	467 0	4-15 E [5	001 GN GN DJN	Copyright: Tetra Tech

GENERAL NOTES:	
 CONTRACTOR SHALL SUBMIT PIPE SUPPORT PLAN FOR REVIEW BY ENGINEER. REFER TO DRAWING D-002 FOR SUPPORT LOCATION AND SPACING REQUIREMENTS. 	TETRA TECH www.tetratech.col 15350 SW Sequoia Pkwy, Ste 22 Portland, OR 9722 Tel 503.684.909
	PROFESSION RELA NADEP THE ANADEP THE EXP. 6-30-19 CIVIL OF CALIFORNIA 5-12-18 5-12-18
	BY
	ATE DESCRIPTION
	ANAGEMENT DISTRICT MARK D REARING FACILITY AKE AND EM UPGRADE EM UPGRADE D DEGAS CTIONS
	MONTEREY PENINSULA WATER A SLEEPY HOLLOW STEELHEAT RAW WATER INT WATER SUPPLY STST COOLING ANI FACILITY SE
	Designed By: EGN Drawn By: EGN Checked By: DJN D-302

CO2 STRIPPER

- SCALE: 1/2"=1'-0"

		SHUNT TRIP CIRCUIT BREAKER	NORMALLY NORMA OPEN CLOSE	LLY D CONTACT
F	GF	GROUND FAULT CIRCUIT BREAKER		TIMED CONTACT, CONTACT ACTION RETARDED ON ENERGIZATION (ON DELAY)
	200/3	CIRCUIT BREAKER 200A, 3-POLE SHOWN		TIMED CONTACT, CONTACT ACTION RETARDED ON DE-ENERGIZATION (OFF DELAY)
_	VFD	VARIABLE FREQUENCY DRIVE	~ To	LEVEL SWITCH
		TRANSIENT VOLTAGE SURGE SUPRESSOR DISCONNECT SWITCH		PRESSURE SWITCH
_	\bigcirc	VALVE MOTOR AND ACTUATOR		PUSH BUTTON SINGLE CIRCUIT
E	مىيىە	INDUCTIVE REACTOR		TEMPERATURE SWITCH
	SSS	SOLID STATE STARTER		
	SST	SOLID STATE TRIP		LIMIT SWITCH
_	● G ●	BUS W/ CONNECTIONS G - GROUND, N - NEUTRAL	0)0	5 SPEED SWITCH, N.C. SHOWN. CONTACT CLOSES AT PRESET SPEED.
	⊥ 2 ┬2	M-MAGNETIC MOTOR STARTER, C-GENERAL USE CONTACTOR (NUMBER INDICATED NEMA SIZE)	0	PUSHBUTTON, N.O. SHOWN, LETTERS INDICATE: A-AUTO, DN-DOWN, FWD-FORWARD, H-HAND, O LOS-LOCK OUT STOP, O-OFF,
	— (—	POWER FACTOR CORRECTION CAPACITOR		REV-REVERSE, ST-START, SP-STOP, T-TEST CLOSE
D	≪≫	DRAW-OUT TYPE EQUIPMENT	ו	SELECTOR SWITCH, "A" POSITION SHOWN. ARROW, WHEN USED, INDICATES SPRING RETURN, X'S
		FUSE, RATING		$ \overline{O} $ AND O'S TO RIGHT OF CONTACTS, WHEN USED, INDICATE CONTACT $\overline{O} \times $ DEVELOPMENT.
	\bigcirc	GENERATOR	-#	MOTOR OVERLOAD DEVICE CONTACTS
_		GROUND OR EARTH CONNECTION	0 (C 0.0.0	DISCONNECT SWITCH MOTOR OVERLOAD DEVICE
		HEATER	→À	PILOT LIGHT R= RED, W= WHITE, G= GREEN, A= AMBER
С	75KW	THERMAL OVERLOAD		
	ᅌᅀᆡ	SURGE ARRESTOR	Оты	AE ENERGIZATION AD TIME DELAY RELAY. TIME DELAY ON DE ENERGIZATION
	+	CONDUCTOR CONNECTION		STARTER COIL
		BUS CONNECTION	\sim	SOLENOID OPERATED VALVE
_	M	METER		ELAPSED TIME METER
	C#)	CONTRACTOR COIL		FUSE
	(75)	MOTOR W/ HORSEPOWER INDICATED, 75HP SHOWN		
В	() _{16-30R}	RECEPTACLE - SPECIAL NEMA TYPE AS INDICATED		D REACTOR OR INDUCTOR
	VS	METER PHASE SELECTOR SWITCH, VS - VOLTMETER, AS - AMMETER		MOTOR SPACE HEATER
	၀၂ ၀	TRANSFER SWITCH		CONTROL PANEL D.C. SIGNALS
		POWER TRANSFORMER		CONTROL PANEL A.C. SIGNALS
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			MCC A.C. SIGNALS
	<b>⊣</b> (3)	INDICATES QUANTITY		DEVICE D.C. SIGNALS
	$\approx^{(3)}$	POTENTIAL TRANSFORMER (3) INDICATES QUANTITY		DEVICE A.C. SIGNALS
А	— <u>[]</u> —	KEY INTERLOCK OF EQUIPMENT		
. •		MECHANICAL INTERLOCK OF EQUIPMENT		- POTENTIAL TRANSFORMER
	-0	ELECTRICAL INTERLOCK OF EQUIPMENT		<b></b> •
		EQUIPMENT ENCLOSURE OUTLINE		CURRENT TRANSFORMER

	4' SURFACE OR PENDANT-MOUNT LINEAR LIGHTING FIXTURE
	EMERGENCY BATTERY LIGHT DUAL
<b>○</b> –	LIGHTING FIXTURE, OUTDOOR POLE MOUNT
H	WALL-MOUNT LIGHT - EXTERIOR
н⊗	EXIT SIGN - SINGLE FACE BACK WALL MOUNTED
HPC	PHOTOELECTRIC CONTROL UNIT. WALL MOUNTED
\$ _a	SPST LIGHTING SWITCH WITH SWITCHING CONTROL ZONE INDICATED AS "a".
\$ ³	3-WAY SWITCH
\$ ⁴	4-WAY SWITCH
$\begin{pmatrix} x \\ xx \end{pmatrix}$	CALLOUT - LIGHTING FIXTURE TYPE AND WATTAGE SEE SCHEDULE
a a	SUBSCRIPT INDICATING SWITCHING DUTY. CONTROL BY SWITCH "a" SHOWN.
A	CALLOUT - CONDUIT
HTR-1	CALLOUT - EQUIPMENT
	CALLOUT - INSTRUMENT
#	FLAG NOTE
	LIGHT LINE INDICATES EXISTING ELECTRICAL OR EXISTING EQUIPMENT. LIGHT LINE MAY ALSO BE USED FOR DETAIL DRAWING CLARITY.
	HEAVY LINE INDICATES NEW WORK
	EXISTING WORK TO BE REMOVED
	CONDUIT CONCEALED BELOW GRADE OR FINISHED FLOOR CONDUIT EXPOSED
	GROUNDING CONDUCTOR 30"
O	BELOW GRADE CONDUIT BENDS TOWARD
C	OBSERVER CONDUIT BENDS AWAY FROM
3	OBSERVER
	CONDUIT SEAL-OFF
	FLEXIBLE CONDUIT CONNECTION
	EQUIPMENT CONNECTION
$\bigcirc$	JUNCTION BOX
\$ ^M	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION
$\boxtimes$	GROUND ROD W/ INSPECTION WELL
$\times$	GROUND ROD W/O INSPECTION WELL
•	PUSH BUTTON
$\Theta$	GENERATOR
	MOTOR - HP INDICATED
⊗ TB	DEVICE CONNECTION TERMINAL BOX

÷	RECEPTACLE - DUPLEX
— нн	HANDHOLE
	PULLBOX
MH01	MANHOLE (SEE LAYOUT DETAILS)
<b>O</b> _{L6-30R}	RECEPTACLE - SPECIAL NEMA TYPE AS INDICATED.
GFI	RECEPTACLE MODIFIER SUBSCRIPTS: GFI - GROUND FAULT INTERRUP GFP - GROUND FAULT PROTECT WP - WEATHERPROOF COVER, AFCI - ARC-FAULT CIRCUIT INTE
	- PHASE/SWITCHLEG CONDUCTOR
	-HOMERUN/CONDUIT
	– GROUND CONDUCTOR – NEUTRAL CONDUCTOR
	– PANEL AND CIRCUIT (EXAMPLE: PANEL 2L1, CIRCUITS 1 AND 3)
	DUCT BANK, CONCRETE ENCASED
	DUCT BANK, CONCRETE ENCASED, STEEL REINFORCED
	GROUND WIRE WITH CADWELD CONNECTION PIGTAILED 18" ABOVE FINISHED FLOOR
<b>-</b> G	GROUND WIRE WITH CADWELD CONNECTION
	PANELBOARD, 120/240VAC
	DISCONNECT SWITCH
[F]-J	DISCONNECT SWITCH "F" INDICATES FUSED, SEE PLANS FOR RATING
$\boxtimes^{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	COMBINATION STARTER AND DISCONNECT SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
Т	TRANSFORMER
KWH DEM	WATTHOUR/DEMAND METER

JPTER, CTED,

, ERRUPTER

E	QUIPMENT TAGS
ſAG	DESCRIPTION
CT-1	COOLING TOWER
CP-100	RIVER INTAKE SCREEN PANEL
CP-200	PROCESS CONTROL PANEL
DF-203	DRUM FILTER #1
DF-204	DRUM FILTER #2
EF-200	EXHAUST FAN - RAS BUILDING
GEN-1	EXISTING 250KW ENGINE-GENERATOR
GEN-2	EXISTING 75KW GENERATOR - DEMO
MCC-1	MOTOR CONTROL CENTER - MAIN DIST
MCC-2A	MOTOR CONTROL CENTER - RIVER PUMPS
VICC-2B	MOTOR CONTROL CENTER - REUSE PUMPS
PMP-101	RIVER WATER PUMP #1
PMP-102	RIVER WATER PUMP #2
PMP-201	REUSE WATER PUMP #1
PMP-202	REUSE WATER PUMP #2
PMP-400	BOOSTER PUMP - HEAD TANK
SWBD	MAIN SERVICE SWITCHBOARD
JV-205	ULTRA-VIOLET SANITATION UNIT
VCP-203	VENDOR CONTROL PANEL DF-203
VCP-204	VENDOR CONTROL PANEL DF-204
VCP-205	VENDOR CONTROL PANEL UV-205

![](_page_44_Figure_12.jpeg)

![](_page_45_Figure_0.jpeg)

	7	7
KEYED NOTES REMOVE EXISTING RI CONNECTION. LEAVE	IVER PUMP, CABLE A CONDUIT IN PLACE.	ND MCC

![](_page_45_Figure_4.jpeg)

![](_page_45_Figure_5.jpeg)

-(N)

60'

0 15' 30'

![](_page_46_Figure_0.jpeg)

		SETTLING BASIN	-VALVE VAULT			<ul> <li>KEYED NOTES</li> <li>PROVIDE A DEDICATED CODE-SIZE CONNECTION TO EACH EQUIPMENT ROUTE WITH POWER CONDUCTORS SOURCE PANEL.</li> <li>PROVIDE GROUNDING CONNECTION WATER PIPING ENTERING THE BUIL</li> <li>GROUNDING INSPECTION WELL.</li> <li>BOND METAL PARTS OF ALL HAND H PER CODE, INCLUDING METAL HATCH</li> <li>PROVIDE CONNECTION TO FEEDER CONDUCTOR AS REQUIRED BY COD SWITCHES ARE TO BE SERVICE ENT</li> </ul>
	N					GROUNDING COMPONENT NOTED. S AND CONNECT TO N TO ALL METAL DING, TYPICAL. HOLES AND VAULTS CH LIDS. GROUND DE. DISCONNECT TRANCE LABELED.
E	Design Drawn Checke	Description     Description       Description     SLEEPY HOLLOW STEELHEAD REARING FACILITY	MARK DATE DESCRIPTION	ВУ	LIS * REGISTERS.	
<u>E</u> -1	ed By: By: ed By:	NATER INTAKE AND WATER SUPPLY STSTEM UPGRADE			PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS PROFESS	<b>TETRA TECH</b>
0	J-1246/4	LIGH ING AND GROUNDING       PI AN - RAS ARFA			570N47 CH CASSING 5809 31-18 1CA ALIFORNI	www.tetratech.com
1	JAR JAR	4-15001			MGINEER *	15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097

![](_page_47_Figure_0.jpeg)

![](_page_47_Figure_1.jpeg)

![](_page_47_Figure_2.jpeg)

![](_page_47_Figure_3.jpeg)

VALVE VAULT

SETTLING

BASIN

PROVIDE CONDUIT SEAL-OFF IN HAND HOLE FOR ALL RACEWAYS ENTERING THE WET-WELL.

![](_page_47_Figure_5.jpeg)

(N)

![](_page_48_Figure_0.jpeg)

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PROVIDE CONDUIT SEAL-OFF IN HAND HOLE FOR ALL RACEWAYS ENTERING THE WET-WELL.

2 INSTRUMENT NOTED IS FURNISHED BY VENDOR OF PACKAGED EQUIPMENT FOR FIELD CONNECTION / INSTALLATION. PROVIDE WIRING AND CONNECTION PER EQUIPMENT SUPPLIER INSTRUCTIONS.

3 CONTRACTOR MAY USE INTEGRAL TEMPERATURE ELEMENT ASSOCIATED WITH THE DISSOLVED OXYGEN PROBE.

PROVIDE DIGITAL DISPLAYS FOR DISSOLVED OXYGEN AND TEMPERATURE. MOUNT ON EQUIPMENT RACK WITHIN A NEMA 4X WEATHERPROOF ENCLOSURE.

5 REMOTE MOUNT RIVER WATER FLOW METER TRANSMITTER WITHIN CONTROL PANEL CP-200.

	BΥ			
SF 02 SF 01 VALVE VAULT	MARK DATE DESCRIPTION			
SETTLING BASIN	MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE	CONTROL PLAN -	KAO AKEA
	Project Desig Drawr	ot No.: ned By: n By:	135-1246	74-15001 JAF JAF
			10	3

![](_page_49_Figure_0.jpeg)

## KEYED NOTES

PROVIDE DIGITAL DISPLAYS FOR DISSOLVED OXYGEN AND TEMPERATURE. MOUNT ON EQUIPMENT RACK WITHIN A NEMA 4X WEATHERPROOF ENCLOSURE.

2 PROVIDE MANUAL DPST WEATHERPROOF SWITCH TO CONTROL STRIPPER AERATION FAN.

1	[			)	)	www.tetratecn.con	15350 SW Sequoia Pkwy, Ste 220	Portland, OR 97224 Tel 503.684.9097
X	S * REGISFER			FES NET 12- FC	S 10A 5809 31-1 AL 1F	A- 678 8 - 100	ENGINEER * K	
ВΥ								
MARK DATE DESCRIPTION								
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND		WALER SUFFLI SISTEM UPGRADE	POWER PLAN - COOLING			
Pro De: Dra	ojec sigr awn	t No ned By	р.: Ву	13 y:	5-12	46	74-1	5001 JAR JAR
Ch		ed	By	-	(	)	4	-

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![](_page_50_Figure_0.jpeg)

![](_page_50_Figure_1.jpeg)

![](_page_50_Figure_3.jpeg)

- WITHOUT ENTERING THE WET WELL. SPLICE INTEGRAL DEVICE AND EQUIPMENT CORDS IN HAND HOLE.
- 2. SLOPE CONDUIT SLEEVES DOWN TOWARD WET WELL. 3. PROVIDE FLEXIBLE WATER STOP COMPOUND IN OPEN CONDUIT SLEEVES TO INHIBIT AIR EXCHANGE.
- 4. PROVIDE A GRIP FOR EACH CABLE.
- 5. PROVIDE CONDUIT SEAL-OFF IN ADJACENT HAND HOLE (NOT SHOWN ON THIS DETAIL) FOR RACEWAYS ENTERING WET-WELL

![](_page_50_Figure_8.jpeg)

![](_page_50_Picture_9.jpeg)

![](_page_50_Figure_10.jpeg)

![](_page_50_Picture_11.jpeg)

## NOTES

1. FOR INSPECTION WELLS PROVIDE CLAMP CONNECTION IN LIEU OF CADWELD.

![](_page_50_Picture_14.jpeg)

![](_page_50_Picture_15.jpeg)

FLOAT SWITCH CABLE WEIGHT
MERCURY FREE DIRECT ACTING
LEVEL TRANSDUCER, SUSPEND 1"-2" ABOVE BOTTOM
NOTES
1. MOUNT FLOAT SWITCH 6" ABOVE INTAKE OF PUMP.
FLOAT AND LEVEL SWITCH MOUNTING DETAIL
J SCALL. NONE
CADWELD CONNECTION -
SIZE WIRE ACCORDING TO PLAN
ALE: NONE

![](_page_50_Figure_17.jpeg)

![](_page_51_Figure_0.jpeg)

![](_page_51_Figure_1.jpeg)

![](_page_51_Figure_2.jpeg)

,		TETRA TECH			www.tetratech.com	15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224	Tel 503.684.9097
Ĭ	S * REGIS ERC	P THE SPICE	FES L L L L L L L L L L L L L	SION KAS 15809 -31-1 RICK	AVCAR 8 XB	ENG/NEER + VI	
ВҮ							
MARK DATE DESCRIPTION							
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY			ELECTRICAL DETAILS 2			
Pro De: Dra Chi	ojec sigr awn eck	t No.: ned By By: ed By	1: y: ⁄:	35-12	246	74-150( JA JA	)1 .R .R
E-502							

![](_page_52_Figure_0.jpeg)

SWBD/MCC-1 ELEVATION MODIFIED **1** SCALE: NONE _

UNIT	NAMEPLATE	DISCRIPTION
1A	SPARE	SPACE
1E	SPARE	SPACE
11	PORTABLE PUMP P-6	PORTABLE PUMP DISCONNECT
1M		SPACE
1Q		SPACE
2A	CT-1	COOLING TOWER VFD, 125 AMP DISCONNECT
3A	MCC-2A	FEEDER FOR MCC-2A, 200 A DISCONNECT
4A	MCC-2B	FEEDER FOR MCC-2B, 200 A DISCONNECT
5A	ATS LOAD-SIDE LUGS	250W GEN MAIN LUG TIE, 600A
5C	SPARE	SPARE - FUTURE USE
5H	SPARE	SPACE
5V		SPACE

1

UNIT	NAMEPLATE	DISCRIPTION
1A	P-4	COLD WELL FVNR STARTER, 60A DISCONNECT
1E	P-3	COLD WELL FVNR STARTER, 60 A DISCONNECT
11	PORTABLE PUMP P-6	PORTABLE PUMP DISCONNECT
1M		SPACE
1Q		SPACE
2A	CT-1	COOLING TOWER SOFT STARTER, 125 A DISCONNECT
3A	P-1	RIVER PUMP SOFT STARTER, 125 A DISCONNECT
4A	P-2	RIVER PUMP SOFT STARTER, 125 A DISCONNECT
5A	ATS LOAD-SIDE LUGS	250W GEN MAIN LUG TIE, 600A
5C	75W GENERATOR GEN-SET TIE	75W KERKEY BREAKER, 225A DISCONNECT
5H	P-5	COLD WELL VFD, 60 DISSCONNECT,
5V		SPACE

3 MCC-1 NAMEPLATE SCHEDULES - SCALE: NONE

![](_page_52_Picture_6.jpeg)

![](_page_52_Figure_7.jpeg)

![](_page_52_Figure_8.jpeg)

9 ATT/HOUR METER SERVICE NTRANCE	К (1) (2) (3) (4) (5) (6) (7) (6) (7) (1) (1) (1)	EYED NOTES REMOVE EXISTING RIVER SUMP PUMPS CONDUCTORS ASSOCIATED MCC COMPONENTS. LEAVE CONDUIT IN-PLACE TO BE INTERCEPTED AND ROUTED TO RAS BUIDLING. REMOVE EXISTING COLD WELL PUMPS, CABLES AND EXPOSED PORTIONS OF RACEWAY WHERE ACCESSIBLE. REMOVE LABEL FROM MCC AND LABEL AS SPARE. REMOVE COOLING TOWER STARTER AND COMPONENTS. BREAKER FOUND AT 250W GENERATOR ABANDON IN PLACE FOR FUTURE USE WITH PORTABLE GENERATOR. PROVIDE NAMEPLATE VERIFY POWER ROUTING FOR PANEL MSD. COORDINATE REMOVAL AND INSTALLATION OF UTILITY CONDUCTORS. PROVIDE RACEWAYS, HAND-HOLE AND PULL CORD TO FACILITATE THIS WORK. STUB RACEWAY UP POLE TO 10' ABOVE FINISHED GRADE. REMOVE CONDUIT ROUTED TO POLE MOUNTED UTILITY TRANSFORMERS. TEMPORARILY REMOVE SWBD TO ALLOW FOR PAD AND RACEWAY MODIFICATIONS. REMOVE SECTION OF PAD AS REQUIRED FOR THE INSTALLATION OF UTILITY RACEWAYS. PROVIDE DISCONNECT AND FEED FOR MCC-2. CONDUIT TO BE INTERCEPTED AND ROUTED TO NEW RE-USE BUILDING. PROVIDE COOLING TOWER VFD BUCKET. PROVIDE VFD	15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
		CABLE ROUTED FROM VED TO COOLING TOWER MOTOR. PROVIDE HAND-HOLE AND TWO 5" CONDUIT FOR SWBD SERVICE. ROUTE TWO 5" CONDUIT TO POLE. PROVIDE HOUSEKEEPING PAD. TIE INTO EXISTING MCC PAD WITH EPOXY DOWELS.	
UNIT 1A 1E	NAMEPLATE NP-1	DISCRIPTION MAIN LUG PMP-101 - RIVER PUMP #1	
2A 2Q	NP-2 5 M - sc/	PMP-102 - RIVER PUMP #2 SPACE CC-2A NAMEPLATE SCHEDULE ALE: NONE	DISTRICT MARK DATE DESC
UNIT 1A	NAMEPLATE	DISCRIPTION MAIN LUG	
1E 1S	NP-3 NP-5	PMP-201 - REUSE PUMP #1 PANEL R SUBFEED	D REAR MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG MANAG M
1W 2A	NP-4	SPACE PMP-202 - REUSE PUMP #2	
2M	NP-6	EF-200 - EXHAUST FAN CC-2B NAMEPLATE SCHEDULE	MONTEREY PENINSULA SLEEPY HOLLOW STI RAW WAT WATER SUPPL' ELECTRICA
			Project No.:135-124674-15001Designed By:JARDrawn By:JARChecked By:

E-503

![](_page_53_Figure_0.jpeg)

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AG	NAME PLATE TOP LINE	NAMEPLATE BOTTOM LINE
1	CONTROL PANEL	CP-200
2	WATER PUMPING	(N/A)
3	RUN TIME	(N/A)
4	FAULT	(N/A)
5	RIVER PUMP SELECTOR	PMP-101 - ALT - PMP-102
6	PUMP PMP-101	(N/A)
7	PUMP PMP-102	(N/A)
3	REUSE PUMP SELECTOR	PMP-201 - ALT - PMP-202
9	PUMP PMP-201	(N/A)
.0	PUMP PMP-202	(N/A)
1	WATER QUALITY ALARMS	(N/A)
2	CONTROL BOX	(N/A)
3	HEAD TANK	(N/A)
4	LOW	OXYGEN
.5	HIGH	TEMP
.6	LOW	LEVEL
./	UV	DOSE
	CONTROL PA NAMEPLATE SCALE: NONE	NEL CP-200 SCHEDULE
	CONTROL PANAMEPLATE SCALE: NONE	ANEL CP-200 SCHEDULE
	CONTROL PANAMEPLATE SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE
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	SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE
	SCALE: NONE	ANEL CP-200 SCHEDULE

ВҮ								
DESCRIPTION								
DATE								
MARK								
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY	RAW WATER INTAKE AND	WATER SUPPLY STSTEM UPGRADE		CONTROL PANEL CP-200	PANFI FI FVATIONS		
Pro De:	ojec sigr	t No	.: By:	13	5-12	4674	1-15( J	001 AR
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![](_page_54_Figure_0.jpeg)

KEYED	NOTES

- 1 PROVIDE OVERCURRENT DEVICE AND FEEDER. CONDUIT TO BE INTERCEPTED AND ROUTED TO NEW RAS TREATMENT BUILDING.
- 2 PROVIDE COOLING TOWER VFD BUCKET. PROVIDE CABLE ROUTED FROM VFD TO COOLING TOWER MOTOR.
- 3 REMOVE EXISTING RIVER SUMP PUMPS CONDUCTORS AND ASSOCIATED MCC COMPONENTS. INTERCEPT RACEWAY AND ROUTE TO RAS TREATMENT BUILDING.
- 4 REMOVE COLD WELL PUMPS, CABLES AND EXPOSED PORTIONS OF RACEWAY WHERE ACCESSIBLE. REMOVE LABEL FROM MCC AND LABEL AS SPARE.
- $\langle 5 \rangle$  REMOVE COOLING TOWER STARTER AND COMPONENTS.
- 6 REMOVE 75W GENERATOR, AND CONDUCTORS. RE-LABLE BUCKET AS SPARE.
- $\langle 7 \rangle$  VERIFY POWER ROUTING FOR PANEL MSD.
- $\langle 8 \rangle$  COORDINATE REMOVAL AND INSTALLATION OF UTILITY CONDUCTORS. PROVIDE RACEWAYS, HAND-HOLE AND PULL CORD TO FACILITATE THIS WORK. STUB RACEWAY UP POLE TO 10' ABOVE FINISHED GRADE.
- 9 REMOVE CONDUIT ROUTED TO POLE MOUNTED UTILITY TRANSFORMERS.
- 10 TEMPORARILY REMOVE SWBD TO ALLOW FOR PAD AND RACEWAY MODIFICATIONS. REMOVE SECTION OF PAD AS REQUIRED FOR THE INSTALLATION OF UTILITY RACEWAYS.

![](_page_54_Figure_15.jpeg)

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L	UMINAIRE SCHEDULE							
ID	DESCRIPTION	MOUNTING	LAMPS	LUMENS	сст	INPUT WATTS	VOLTAGE	FIXTURE TYPE
A	4 FOOT, Enclosed & Gasketed Industrial LUMINAIRE, STAINLESS STEEL,	SUSPENDED	LED	5200	4000	46	120VAC	H.E. WILLIAMS, L97 SERIES
	MIN 82 CRI,3500K CCT							
В	MEDIUM SHALLOW WALL PACK, FULLY GASKETED SIDE DOOR,	WALL MOUNT	LED	4400	5000	48	120VAC	H.E WILLIAMS, WP1 SERIES
	WET LOCAITON RATED, BRONZE POWDER COATED FINISH,							
	HEAVY DUTY DIE-CAST HOUSING.							
EM	SURFACE WALL-MOUNT EMERGENCY EGRESS BATTERY LIGHT, INDUST	WALL MOUNT	LED	-	-	1.8	120VAC	H.E. WILLIAMS EMER/LED-WHT-SDT
	STYLE WITH DUAL LED LAMP CLUSTERS AND INTEGRAL BATTERY WITH							SERIES
	SELF-DIAGNOSTICS AND PUSH-TO-TEST FEATURE. WHITE THERMOPLAS	TIC						
	HOUSING.							
Х	ILLUMINATED EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, GREEN	IWALL MOUNT	LED	-	-	3.8	120VAC	H.E. WILLIAMS EXIT-G-EM-WHT-SDT
	STENCIL FACE AND INTEGRAL BATTERY. UNIT TO HAVE PUSH-TO-TEST							SERIES
	FEATURE. BATTERY SHALL OPERATE LAMPS FOR 90-MINUTES, MINIMUN	Л.						

# LOAD CALCULATION, MCC-1

EQUIPMENT NO.	DESCRIPTION	CONNE	CTED LOAD	DEMAND	DEMAND
		HP/KVA	AMPS @ 240V	FACTOR	LOAD AMPS
CT-1	COOLING TOWER	30HP	80.0	1.25	100.0
MCC-2A	RIVER PUMPS	60HP	160.0	0.50	80.0
MCC-2B	REUSE PUMPS	65.3KVA	157.0	0.70	110.0
MSD	EXISTING SITE DIST PANEL	77.0KVA	214.0	0.84	180.0
P-6	EXISTING PORTABLE PUMP	10HP	28.0	1.00	28.0
PMP-400	BOOSTER PUMP	5HP	15.2	1.00	15.2
TOTAL		$\geq$	654.2	$\left.\right>$	513.2
				$\langle \rangle$	

# LOAD CALCULATION, MCC-2A

EQUIPMENT NO.	DESCRIPTION	CONNECTED LOAD DEMAN			DEMAND
		HP/KVA	AMPS @ 240V	FACTOR	LOAD AMPS
PMP-101	RIVER PUMP #1	30HP	80.0	1.25	100.0
PMP-102	RIVER PUMP #2 (NON-COINCIDENT)	30HP	80.0	0.00	80.0
TOTAL		$\searrow$	160.0	$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	100.0

# LOAD CALCULATION, MCC-2B

EQUIPMENT NO.	DESCRIPTION	CONNECTED LOAD DEMAND			DEMAND
		HP/KVA	AMPS @ 240V	FACTOR	LOAD AMPS
EF-200	RAS BLDG EXHAUST FAN	0.5HP	2.2	1.00	2.2
PMP-201	REUSE PUMP #1	20HP	54.0	1.25	68.0
PMP-202	REUSE PUMP #2 (NONCOINCIDENT)	20HP	54.0	0.00	0.0
PNL R	PANEL R	16.8KVA 46.8		0.85	39.4
TOTAL		$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	157.0	$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	109.6

TETRA TECH www.tetratech.com 15350 SW Sequoia Pkwy, Ste 220 Portland, OR 97224 Tel 503.684.9097
PROFESS/ONA PROFESS/ONA DE 15809 EXP. 12-31-18 C. E' 15809 EXP. 12-31-18 EXP. 12-31
DATE DESCRIPTION
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT SLEEPY HOLLOW STEELHEAD REARING FACILITY RAW WATER INTAKE AND WATER SUPPLY STSTEM UPGRADE VATER SUPPLY STSTEM UPGRADE VATER SUPPLY STSTEM UPGRADE VANEL SCHEDULES, CALCS ND LUMINAIRE SCHEDULE
Project No.: 135-124674-15001 Designed By: JAR Drawn By: JAR Checked By: E-603

<b>CONDUIT SCHEDULE - POWER</b>	
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ID	FROM	ТО	VOLTS/	QTY	COND		WIRE	
			SIGNAL		SIZE	NO	SIZE	GND
P-001	UTILIITY POLE TRANSFORMER	SWBD	120/240V	2	5"	PROV	IDED BY L	
P-002	MCC-1	MCC-2A DISCONNECT	120/240V	1	3"	4	3/0	4
P-003	MCC-1	MCC-2B DISCONNECT	120/240V	1	3"	4	3/0	4
P-004	MCC-1	CT-1	120/240V	1	2"	3	1/0	6
P-005	MCC-1	PMP-400	120/240V	1	1"	3	10	10
P-006	MCC-2A	PMP-101	120/240V	1	2"	3	1/0	6
P-007	MCC-2A	PMP-102	120/240V	1	2"	3	1/0	6
P-008	MCC-2B	PMP-201	120/240V	1	1-1/2"	3	3	8
P-009	MCC-2B	PMP-202	120/240V	1	1-1/2''	3	3	8
P-010	MCC-2B	PNL R FEEDER	120/240V	1	2"	4	3/0	6
P-011	MCC-1	RAS TREATMENT BLDG (SPARE RACEWAY)	N/A	1	N/A	N/A	N/A	N/A
P-012	PNL R	VCP-204	120/240V	1	1"	4	10	10
P-012A	VCP-204	PMP-204	120/240V	1	1"	3	12	12
P-012B	VCP-204	MTR-204	120/240V	1	1"	3	12	12
P-013	PNL R	VCP-203	120/240V	1	1"	4	10	10
P-013A	VCP-203	PMP-203	120/240V	1	1"	3	12	12
P-013B	VCP-203	MTR-203	120/240V	1	1"	3	12	12
P-014	PNL R	VCP-205	120/240V	1	1"	4	10	10
P-014A	VCP-205	UV UNIT	120/240V	1	1"	3	10	10
P-015	PNL R	CP-100	120/240V	1	1"	3	10	10
P-016	CP-200	FIT-100 IN VAULT	120VAC	1	1"	2	12	12
P-017	CP-200	RAS CONTROL BOX TRANSMITTERS	120VAC	1	1"	2	12	12
P-018	MCC-2B	EXHAUST FAN EF-200	120/240V	1	1"	3	12	12
P-019	CP-200	HEAD TANK TRANSMITTERS	120VAC	1	1"	2	10	10
P-020	CP-200	REUSE FLOW TRANSMITTER FIT-206	120VAC	1	1"	2	12	12
P-021	PNL R	CP-200 CONTROL PANEL POWER	120VAC	1	3/4"	2	12	12
P-022	MCC-1	MTR-402	240VAC	1	1"	2	12	12

ID	FROM	то	QTY	SIZE	CONTENTS	NOTES
C-100A	PMP-101 / PMP-102	MCC-2A	1	1"	(4) #16AWG	
C-100B	RIVER PUMP STATION	CP-200	1	2"	(1) TSP, (2)#16AWG	
C-100C	FLOW METER VAULT	CP-200	1	1"	(1) TSP	4-20MA ANALOG
C-200	REUSE SUMP	CP-200	1	1"	(1) TSP, (2)#16AWG	4-20MA ANALOG AND DISCRETE
C-201	PMP-201	MCC-2B	1	1"	(2) #16AWG	
C-202	PMP-202	MCC-2B	1	1"	(2) #16AWG	
C-203	VCP-203	CP-200	1	1"	(4) #16AWG	VERIFY WITH VENDOR
C-203A	DF-203	VCP-203	1	1"	(4) #16AWG	VERIFY WITH VENDOR
C-204	VCP-204	CP-200	1	1"	(4) #16AWG	VERIFY WITH VENDOR
C-204A	DF-204	VCP-204	1	1"	(4) #16AWG	VERIFY WITH VENDOR
C-205	VCP-205	CP-200	1	1"	(4) #16AWG	VERIFY WITH VENDOR
C-205A	UV-205	VCP-205	1	1"	(1) TSP, (2)#16AWG	VERIFY WITH VENDOR
C-300	RAS CONTROL BOX	CP-200	1	2"	(2) TSP, (2) #16AWG	4-20MA ANALOG AND DISCRETE
C-400	HEAD TANK	CP-200	1	2"	(2)TSP, (2)#16AWG	HEAD TANK INSTRUMENTS
C-401	MCC-1	CP-200	1	2"	N/A	SPARE RACEWAY
C-402	MCC-1	CP-200	1	1"	(2) CAT-6 UTP	FOR CT-1 FAN VFD INTERFACE
C-403	FIT-401	FE-401	1	3/4"	VENDOR CABLE	REMOTE TRANSMITTER

![](_page_57_Picture_5.jpeg)

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From	Description	Type	
Cooling Tower Fan VFD	Fan Control	Etherne	
Mission Controller 1	River Pump 1 Run	Digital	
Mission Controller 1	River Pump 1 Stand By	Digital	
Mission Controller 1	River Pump 1 Fault	Digital	
Mission Controller 1	River Pump 2 Run	Digital	
Mission Controller 1	River Pump 2 Stand By	Digital	
Mission Controller 1	River Pump 2 Fault	Digital	
Mission Controller 1	Wetwell Low Level	Digital	
Mission Controller 1	Control Box Low level	Digital	
Mission Controller 1	Control Box DO Alarm	Digital	
Mission Controller 1	Control Box Temp Alarm	Digital	
Mission Controller 2	Reuse Pump 1 Run	Digital	
Mission Controller 2	Reuse Pump 1 Stand By	Digital	
Mission Controller 2	Reuse Pump 1 Fault	Digital	
Mission Controller 2	Reuse Pump 2 Run	Digital	
Mission Controller 2	Reuse Pump 2 Stand By	Digital	
Mission Controller 2	Reuse Pump 2 Fault	Digital	
Mission Controller 2	Reuse Sump Level Low	Digital	
Mission Controller 2	Head Tank Low level	Digital	
Mission Controller 2	Head Tank DO Alarm	Digital	
Mission Controller 2	Head Tank Temp Alarm	Digital	
Flansed Time Meter	River Pump 1 Run Time	Digital	
Pilot light	River Pump 1 Fault	Digital	
Flansed Time Meter	River Pump 2 Run Time	Digital	
Dilot light	River Pump 2 Fault	Digital	
Pilot light	Wetwell Low Level	Digital	
Flansed Time Meter	Reuse Pump 1 Run Time	Digital	
Pilot light	Reuse Pump 1 Fault	Digital	
Flanced Time Mater	Reuse Pump 1 Pup Time	Digital	
Dilot light	Reuse Pump 1 Kun Time	Digital	
Pilot light	Control Box Low O2	Digital	
Pilot light	Control Box High Tomp	Digital	
Pilot light		Digital	
Pilot light		Digital	
Pilot light		Digital	
Pilot light	UV Dose Low	Digital	

CONTROL PANEL CP-200 INPUTS						
From	Description	Туре				
River Pump 1	High Temp	Digital				
River Pump 2	High Temp	Digital				
River Pump Station Wet well	Low Level switch	Digital				
River Pump Station Wet well	Level Sensor	Analog				
Reuse Pump Sump	Low Level switch	Digital				
Reuse Pump Sump	Level Sensor	Analog				
River Pump Selector Switch	Pump 1	Digital				
River Pump Selector Switch	Pump 2	Digital				
River Pump Selector Switch	Alternate	Digital				
ReUse Pump Selector Switch	Pump 1	Digital				
ReUse Pump Selector Switch	Pump 2	Digital				
ReUse Pump Selector Switch	Alternate	Digital				
River Intake Meter Vault	FIT-100	Analog				
Reuse building output	FIT-206	Analog				
UV Panel	UV Dose	Analog				
Head Tank	Dissolved Oxygen	Analog				
Head Tank	Tempeture	Analog				
Head Tank	Low level	Digital				
Control Box	Dissolved Oxygen	Analog				
Control Box	Tempeture	Analog				
Control Box	Low level	Digital				
Drum filter panel 1	Drum Filter Alarm	Digital				
Drum filter panel 2	Drum Filter Alarm	Digital				
Intake screen Panel	High Oil Pressure	Digital				
Intake screen Panel	Low Oil	Digital				
Intake screen Panel	No Power	Digital				
UV System	fault	Digital				

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PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PR									
BΥ									
AARK DATE DESCRIPTION									
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	SLEEPY HOLLOW STEELHEAD REARING FACILITY			CONTROL PANEL CP-200	I/O SCHEDI II ES				
Pro De: Dra Che	oject sign awn ecko	t No.: hed By By: ed By	13 y: ::	35-12	467	4-150 J	001 AR AR		