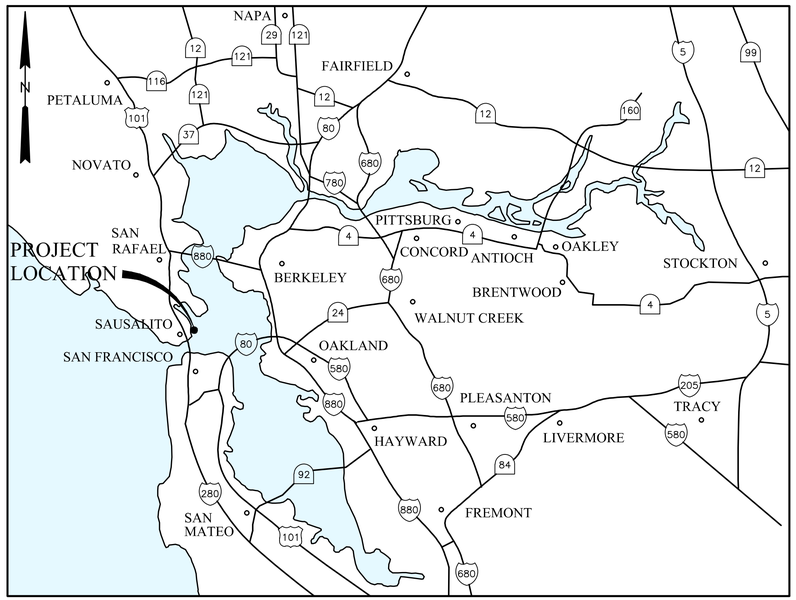
SAUSALITO - MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

PROJECT NO. 0055-006



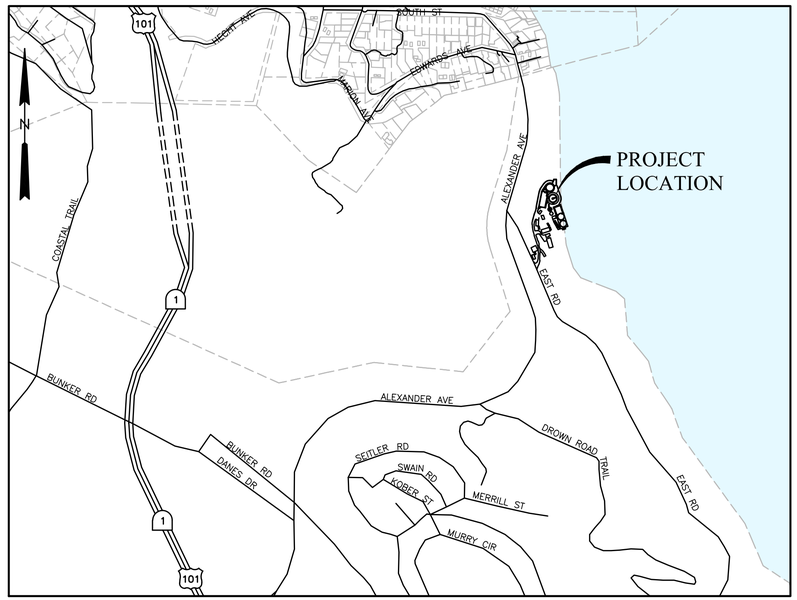
VICINITY MAP
NTS

CONTRACT DRAWINGS

VOLUME 3 (2 of 2)

JULY 2022

RECORD DRAWINGS



LOCATION MAP
SCALE: 1"=2000'

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

Woodard & Curran

TJC and ASSOCIATES, INC.

DTN ENGINEERS, INC.

FILENAME: 0055-006-Cover 8-01-22 11:26am cto || XREFS: ||<<--

Last Saved By: cto 7-11-22 03:09pm

INDEX OF DRAWINGS

SELECT REFERENCE DRAWINGS (AVAILABLE IN ELECTRONIC PDF FORMAT ONLY)

1952 SMCSD SEWAGE PUMPING AND TREATMENT WORKS
1972 SMCSD WASTE TREATMENT AND DISPOSAL FACILITIES
1988 SMCSD WASTEWATER PLANT IMPROVEMENTS C-06-2464 RECORD DRAWINGS
1990 SMCSD WASTEWATER PLANT IMPROVEMENTS EFFLUENT FILTERS
1997 SMCSD BEACH FORCEMAIN REPLACEMENT
2008 SMCSD SLUDGE DEWATERING PROEJCT

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

INDEX OF DRAWINGS

DWG NO	G-1
SHEET NO	2 OF 226
PROJ NO	055-006
DATE	JULY 2022

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT, AGGREGATE BASE
ABC	AGGREGATE BASE COURSE (CALTRANS CLASS 2 AGGREGATE BASE)
ABS	ACRYLONITRILE-BUTADIENE- STYRENE
AC	ASBESTOS CEMENT, ASPHALTIC CONCRETE
AC/HR	AIR CHANGES PER HOUR
ACI	AMERICAN CONCRETE INSTITUTE
ADH AB	ADHESIVE ANCHOR BOLT
ADJ	ADJACENT, ADJUSTABLE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALUMINUM
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH.	ARCHITECTURAL
ARV	AIR RELEASE VALVE
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
AWT	ADVANCED WASTE TREATMENT
BC	BOLT CIRCLE, BEGIN CURVE
BD	BOARD
BF	BLIND FLANGE, BOTTOM FLAT
BFV	BUTTERFLY VALVE
BGS	BELOW GROUND SURFACE
BLDG	BUILDING
BM	BENCH MARK, BEAM
BO	BLOWOFF
BOT	BOTTOM
BRG	BEARING
BS	BUTT STRAP
BV	BALL VALVE
BVC	BEGINNING OF VERTICAL CURVE
C	CHANNEL (BEAM)
CAV	COMBINATION AIR AND VACUUM VALVE
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHEM	CHEMICAL
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENTIAL
CJ	CONSTRUCTION JOINT
CLR	CLEAR
CLS	CHLORINE SOLUTION HYPOCHLORITE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSOR(S)
CONC	CONCRETE, CONCENTRIC
COND	CONDUIT
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CT	CERAMIC TILE
CTD	CENTERED
CTJ	CONTROL JOINT
CTR	CENTER
CTS	CORROSION TEST STATION
C TO C	CENTER TO CENTER
CU	CUBIC
CU FT	CUBIC FOOT
CU IN.	CUBIC INCH
CU YD	CUBIC YARD
CV	CHECK VALVE
°C	DEGREE CELSIUS
d	PENNY (NAIL SIZE)
D	DRAIN
DBL	DOUBLE
DET	DETAIL
DFT	DRY FILM THICKNESS
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DN	DOWN
DWG	DRAWING

E	EAST
EA	EACH
EC	END CURVE
ECB	EROSION CONTROL BLANKET
ECC	ECCENTRIC
EF	EACH FACE, EXHAUST FAN
EL, ELEV	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELL	ELBOW
ENGR	ENGINEER
EO	EMERGENCY OVERFLOW
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQPT	EQUIPMENT
EQ SP	EQUALLY SPACED, EQUAL SPACES
ESMT	EASEMENT
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EWEF	EACH WAY, EACH FACE
EXC	EXCAVATE
EXH	EXHAUST
EXP	EXPOSED
EXP JT	EXPANSION JOINT
EXST	EXISTING
FA	FOUL AIR
FAB	FABRICATION
FC	FLEXIBLE COUPLING
FCA	FLANGED COUPLING ADAPTER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDS	FINAL DIGESTED SLUDGE
FDN	FOUNDATION
FE	FLANGED END, FINAL EFFLUENT
FEXT	FIRE EXTINGUISHER
FF	FINISH FLOOR
FG	FINISH GRADE
FHY	FIRE HYDRANT
FI	FILTER INFLUENT
FIG.	FIGURE
FL	FLOOR
℄	FLOW LINE
FLG	FLANGE
FLH	FLAT HEAD
FLTR	FILTER
FM	FORCE MAIN
FO	FIBER OPTIC
FOC	FACE OF CONCRETE, FIBER OPTIC CABLE
FOCC	FIBER OPTIC CABLE CONDUIT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FTG	FOOTING
FUT	FUTURE
FWD	FORWARD
°F	DEGREE FAHRENHEIT
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GROOVED COUPLING
GCO	GRADE CLEAN OUT
GE	GROOVED END
GL	GLASS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GVL	GRAVEL
HD	HUB DRAIN
HDG	HOT DIP GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE, HDPE PIPE
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOSE RACK, HANDRAIL, HOUR
HV	HOSE VALVE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
H2E	HOOK TWO ENDS
ID	INSIDE DIAMETER
IF.	INSIDE FACE
IJTS	INSULATING JOINT TEST STATION
IN.	INCH
INFL	INFLUENT
INSTM	INSTRUMENTATION
INSUL	INSULATE
INVT	INVERT
IRR, IRRIG	IRRIGATION
IE	INVERT ELEVATION

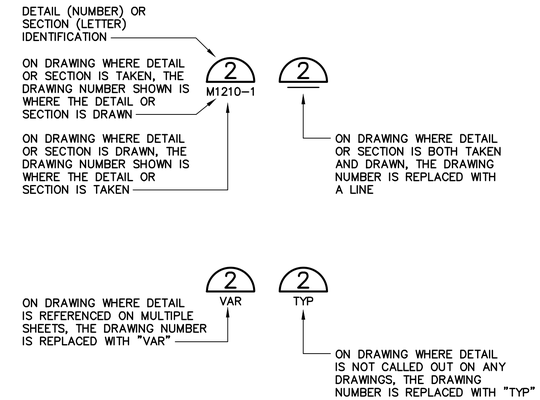
JT	JOINT
KIP	THOUSAND POUNDS
KW	KILOWATT
L	ANGLE, LENGTH
LAB	LABORATORY
LAV	LAVATORY
LB	POUNDS
LB/CU FT	POUNDS PER CUBIC FOOT
LF	LINEAR FEET
LONG.	LONGITUDINAL
LP	LOW PRESSURE
LR	LONG RADIUS
LT	LEFT
MAG	MAGNETIC
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MIXED LIQUOR
MLCSP	MORTAR LINED AND COATED STEEL PIPE
MSNRY	MASONRY
MO	MASONRY OPENING
MT	MITER
MTR	METER
MTS	MILL TYPE STEEL PIPE
MWS	MAXIMUM WATER SURFACE
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF.	OUTSIDE FACE, OVERFLOW
OSD	OPEN SITE DRAIN
OPNG	OPENING
OZ	OUNCE
PC	POINT OF CURVE
PCC	PORTLAND CEMENT CONCRETE, POINT OF COMPOUND CURVATURE
PCO	PRESSURE CLEANOUT
PD	PUMPED DRAIN
PE	PLAIN END
PH	POTHOLE
PI	POINT OF INTERSECTION
PL	PLASTIC, PROPERTY LINE, PLATE
℔	PLATE (STEEL)
PLYWD	PLYWOOD
PRC	POINT OF REVERSE CURVE
PREFAB	PREFABRICATED
PRESS.	PRESSURE
PRI	PRIMARY
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAUGE
PT	POINT, POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE PLASTIC, PVC PIPE
PVMT	PAVEMENT
R	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RDCR	REDUCER
RDW	REDWOOD
RECIRC	RECIRCULATION
REF	REFER OR REFERENCE
REINF	REINFORCED, REINFORCING, REINFORCE
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RPVC	REINFORCED POLYVINYL CHLORIDE
RSFM	RAW SEWAGE FORCE MAIN
RSU	RETURN SUPERNATANT
RT	RIGHT
RTN	RETURN
RV	ROOF VENT
RW	RECYCLED WATER
R/W	RIGHT-OF-WAY

SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SD	STORM DRAIN, SOAP DISPENSER
SE	SECONDARY EFFLUENT
SEC	SECONDARY
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL, SLP	SLOPE
SMP	SAMPLE
SOLN	SOLUTION
SP	SPACE OR SPACES
SPEC	SPECIFICATIONS
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SS	SANITARY SEWER
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL, STEEL PIPE
STR	STRAIGHT
STRL	STRUCTURAL
STRUCT	STRUCTURE
SUSP	SUSPEND
SWD	STORM WATER DRAIN
SYMM	SYMMETRICAL
T	TANGENT LENGTH
TAN.	TANGENT
TBG	TUBING
TBM	TEMPORARY BENCH MARK
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TDH	TOTAL DYNAMIC HEAD
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
TF	TOP FACE, TOP FLAT
T&G	TONGUE AND GROOVE
THD	THREAD
THK	THICK
THRU	THROUGH
TOS	TOP OF SLOPE, TOP OF STEEL
TP	TURNING POINT
TRANSF	TRANSFORMER
TRANSV	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UD	UNDERDRAIN
UNO	UNLESS NOTED OTHERWISE
USA	UNDERGROUND SERVICES ALERT
UW	UTILITY WATER
V	VENT, VOLT, VALVE
VAC	VACUUM
VAR	VARIOUS
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
VTR	VENT THRU ROOF
W	WIDE FLANGE (BEAM), WEST, WATER
W/	WITH
WAS	WASTE ACTIVATED SLUDGE
WC	WATER CLOSET
WH	WATER HEATER
WM	WATER METER
WP	WORK POINT
WS	WATER SURFACE, WATER STOP
W SH ST	WEATHERING SHEET STEEL
WSP	WELDED STEEL PIPE
WT	WEIGHT
WTR	WATER
WW	WASHWATER
WWF	WELDED WIRE FABRIC
YD	YARD

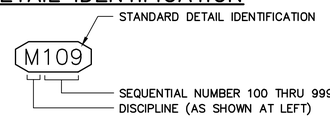
NOTES:

1. THIS IS A STANDARD ABBREVIATION SHEET. SOME ABBREVIATIONS THAT APPEAR ON THIS SHEET ARE NOT USED ON THIS PROJECT.
2. FOR PROCESS FLUID ABBREVIATIONS SEE SHEET G-6.

SECTION AND DETAIL IDENTIFICATION



STANDARD DETAIL IDENTIFICATION



DISCIPLINES:

C	CIVIL
CP	CATHODIC PROTECTION
L	LANDSCAPING AND IRRIGATION
M	MECHANICAL
A	ARCHITECTURAL
E	ELECTRICAL
P	INSTRUMENTATION AND CONTROL
S	STRUCTURAL

NOTE:

STANDARD DETAIL IDENTIFICATIONS ARE SHOWN ON THE PLANS AND ON THE STANDARD DETAIL DRAWINGS. THERE IS NO SPECIFIC CROSS REFERENCING OF DRAWINGS. STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS OCCURRING ON THIS PROJECT, WHETHER OR NOT THEY ARE REFERENCED TO IN EACH APPLICABLE LOCATION. CONSULT THE ENGINEER FOR REVIEW OF THE USE OF STANDARD DETAILS PRIOR TO BIDDING.

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

ABBREVIATIONS AND SYMBOLS

DWG NO	G-2
SHEET NO	3 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 055-006-G-2 8-01-22 11:27am cto || XREFS|| X-SMCSD-TBLK |<<--
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VENTILATION SYMBOLS

- SUPPLY DUCT (SECTION)
- INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
- WALL REGISTER OR GRILLE (SUPPLY)
- WALL REGISTER OR GRILLE (RETURN AND EXHAUST)
- TURNING VANES
- SOUND ATTENUATED DUCT
- FLEXIBLE CONNECTION

MECHANICAL EQUIPMENT LEGEND

P	PUMP
CP	CENTRIFUGAL PUMP
TP	TURBINE PUMP
PP	PROGRESSIVE CAVITY PUMP
SP	SAMPLE PUMP
V	VALVE
CV	CHECK VALVE
BV	BUTTERFLY VALVE
GV	GATE VALVE
PV	PLUG VALVE
DV	DIAPHRAM VALVE
OV	SOLENOID VALVE
MX	MIXER
ME	PROCESS EQUIPMENT
FE	FLOW ELEMENT (METER)
LE	LEVEL ELEMENT
G	GATE
T	TANK
B	BLOWER
SC	SCREEN
H	HOIST/CRANE
AH	AIR HANDLER
AC	AIR CONDITIONER
EF	EXHAUST FAN
SF	SUPPLY FAN
LCP	LOCAL CONTROL PANEL
MCC	MOTOR CONTOL CENTER
LP	LIGHTING PANEL
UV	ULTRA VIOLET EQUIPMENT

EQUIPMENT NUMBERING CONVENTION

UV-1513-30 EQUIPMENT NUMBER TAG

FLOW STREAM IDENTIFICATION

SEE DWG G-6 FOR PROCESS FLUID SCHEDULE

PIPING SCHEDULE

SEE PIPING SCHEDULE ON DWG G-6.

VALVE SCHEDULE

SEE SPEC SECTION 15200 FOR VALVE SCHEDULE.

PUMP SCHEDULE

SEE INDIVIIDUAL PUMP SPEC SECTIONS FOR PUMP SCHEDULE.

GATE SCHEDULE

SEE SPEC SECTION 15250 FOR GATE SCHEDULE.

GATE SYMBOLS

- SLUICE GATE
- SLIDE GATE
- STOP GATE

0" — 1" VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

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SAUSALITO · MARIN CITY SANITARY DISTRICT

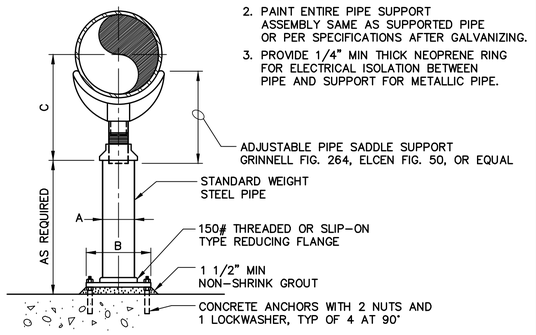
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL LEGEND AND SCHEDULES

DWG NO M-1
SHEET NO 113 OF 226
PROJ NO 055-006
DATE JULY 2022

ADJUSTABLE PIPE SUPPORT

NTS



NOTES:

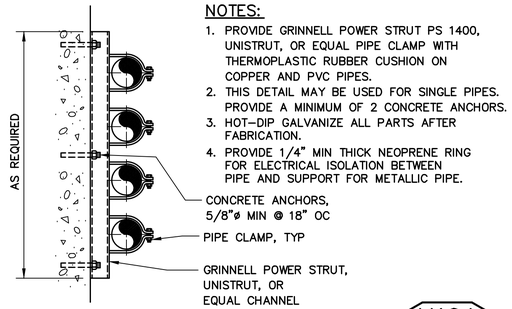
1. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. PAINT ENTIRE PIPE SUPPORT ASSEMBLY SAME AS SUPPORTED PIPE OR PER SPECIFICATIONS AFTER GALVANIZING.
3. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

DIMENSIONS IN INCHES				
PIPE SIZE	A	B	C MIN	C MAX
2 1/2	2 7/8	9	8	13
3	2 7/8	9	8 1/4	13 1/4
3 1/2	2 7/8	9	8 1/2	13 1/2
4	3 1/2	9	9 1/4	14
5	3 1/2	9	10	14 3/4
6	3 1/2	9	10 1/2	15 1/4
8	3 1/2	9	11 3/4	16 1/2
10	3 1/2	9	13 1/2	18 1/4
12	3 1/2	9	15	19 3/4
14	4 1/2	11	16 1/4	20 3/4
16	4 1/2	11	17 3/4	22 1/4

M100

WALL TYPE PIPE SUPPORT

NTS



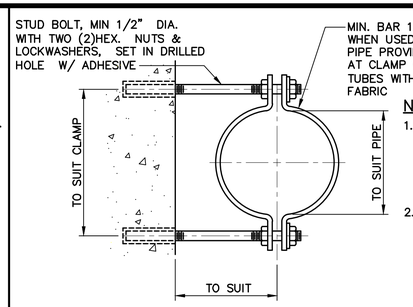
NOTES:

1. PROVIDE GRINNELL POWER STRUT PS 1400, UNISTRUT, OR EQUAL PIPE CLAMP WITH THERMOPLASTIC RUBBER CUSHION ON COPPER AND PVC PIPES.
2. THIS DETAIL MAY BE USED FOR SINGLE PIPES. PROVIDE A MINIMUM OF 2 CONCRETE ANCHORS.
3. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
4. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

M104

PIPE CLAMP DETAIL

NTS



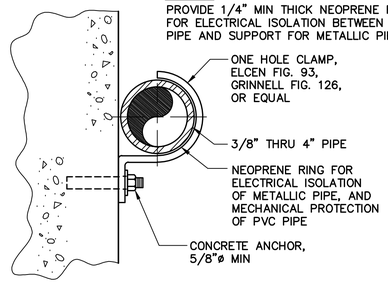
NOTES:

1. GALVANIZE ALL PARTS AFTER FABRICATION. WHERE SUBMERGED PIPE CLAMP, NUTS LOCKWASHERS, ANCHORS AND SHIELDS TO BE TYPE 316 STAINLESS STEEL.
2. IN AREAS DESIGNATED CORROSIVE, HYDRAULIC STRUCTURES AND SUBMERGED CONDITIONS: TYPE 316 STAINLESS STEEL OR FIBERGLASS MATERIALS REQUIRED (SEE SPECIFICATION SECTION 15020).

M111

PIPE SUPPORT

NTS



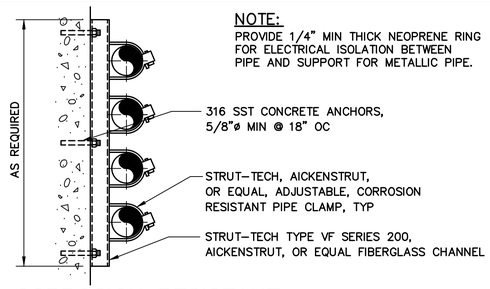
NOTE:

PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

M114

CORROSION RESISTANT WALL TYPE PIPE SUPPORT

NTS



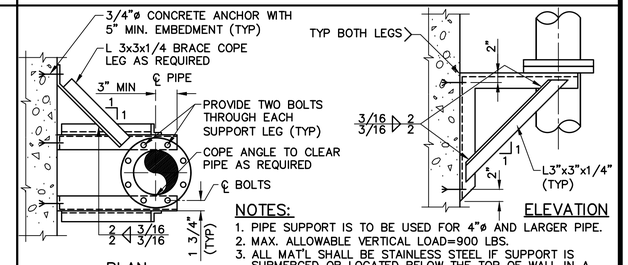
NOTE:

PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

M106

PIPE SUPPORT

NTS



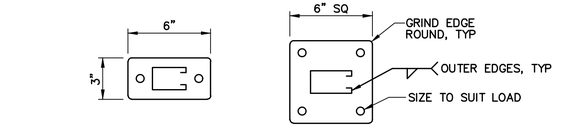
NOTES:

1. PIPE SUPPORT IS TO BE USED FOR 4"ø AND LARGER PIPE.
2. MAX. ALLOWABLE VERTICAL LOAD=900 LBS.
3. ALL MAT'L SHALL BE STAINLESS STEEL IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN A WATER BEARING STRUCTURE. IN ALL OTHER AREAS, THE MAT'L SHALL BE HOT-DIP GAL. STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
4. FIELD PAINT GALVANIZED STEEL PER THE SPECIFICATIONS.

M115

PIPE STANCHION

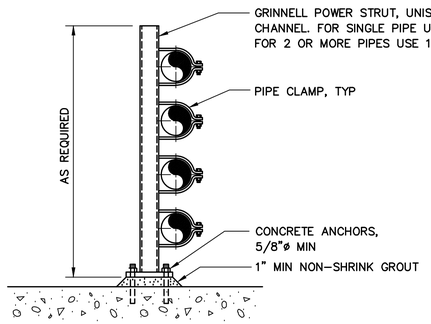
NTS



ONE PIPE TWO OR MORE PIPES

NOTES:

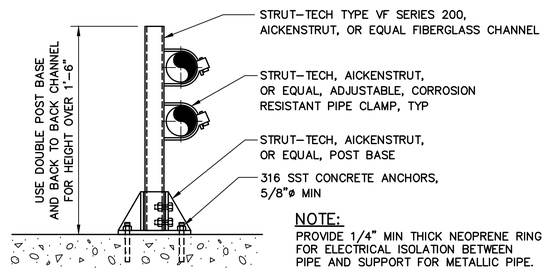
1. PROVIDE GRINNELL POWER STRUT PS 1400, UNISTRUT, OR EQUAL PIPE CLAMP WITH THERMOPLASTIC RUBBER CUSHION ON COPPER AND PVC PIPES.
2. MAXIMUM PIPE SIZE IS 4".
3. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
4. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.



M102

CORROSION RESISTANT PIPE STANCHION

NTS



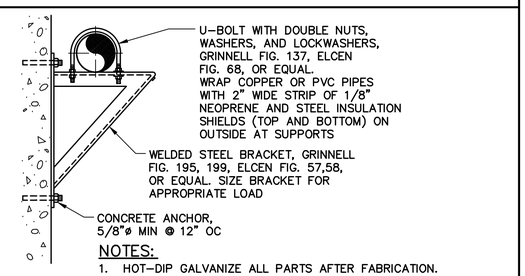
NOTE:

PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

M108

PIPE BRACKET

NTS



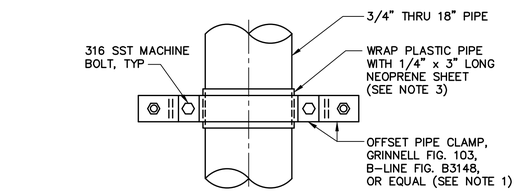
NOTES:

1. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

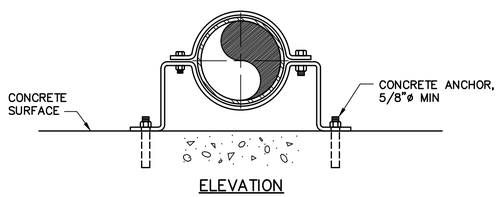
M110

PIPE SUPPORT

NTS



PLAN



ELEVATION

NOTES:

1. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION. WHERE PIPE SUPPORT IS SUBMERGED, LOCATED BELOW THE TOP OF WALL IN A WATER BEARING STRUCTURE. PIPE CLAMP SHALL BE 316 STAINLESS STEEL.
2. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.
3. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.

M112

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

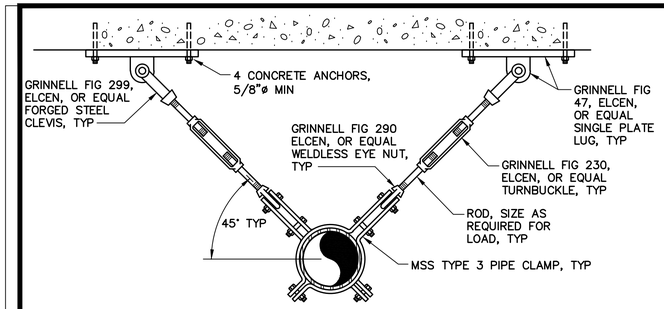
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 2

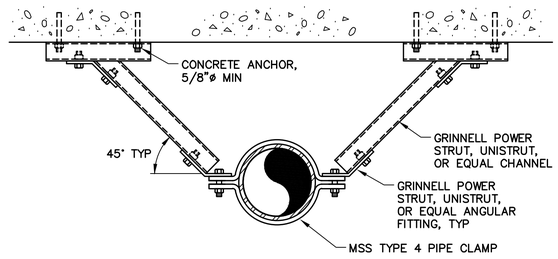
DWG NO M-2
SHEET NO 114 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M-2 8-01-22 11:28am cto || XREFS|| X-SMCSD-TBLK |<<--

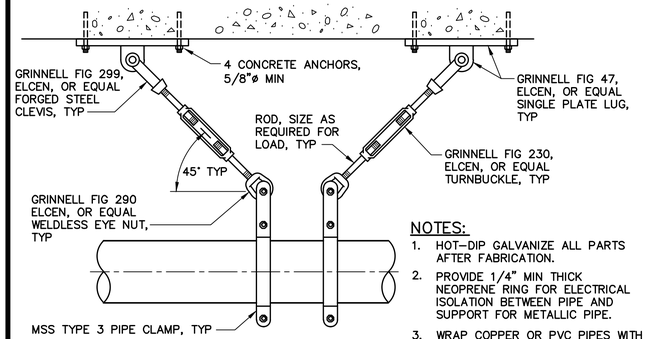
Last Saved By: cto 5-10-21 01:41pm



TRANSVERSE ROD BRACE



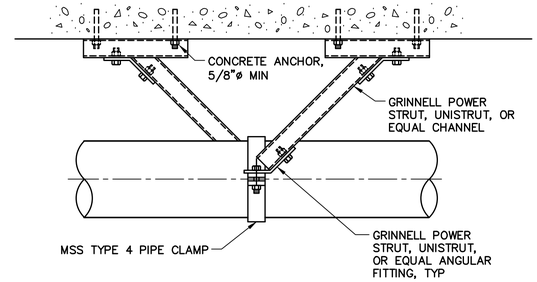
TRANSVERSE CHANNEL BRACE



LONGITUDINAL ROD BRACE

NOTES:

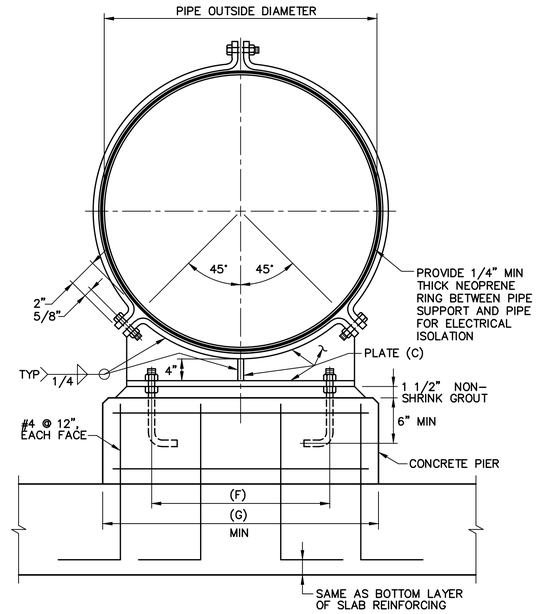
1. HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. PROVIDE 1/4" MIN THICK NEOPRENE RING FOR ELECTRICAL ISOLATION BETWEEN PIPE AND SUPPORT FOR METALLIC PIPE.
3. WRAP COPPER OR PVC PIPES WITH 2" WIDE STRIP OF 1/8" NEOPRENE.

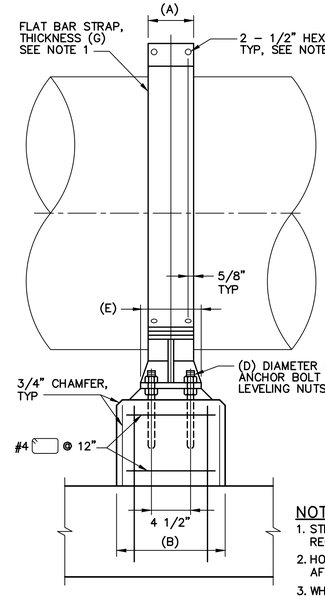


LONGITUDINAL CHANNEL BRACE

SEISMIC BRACING (ELEVATIONS) M116

NTS





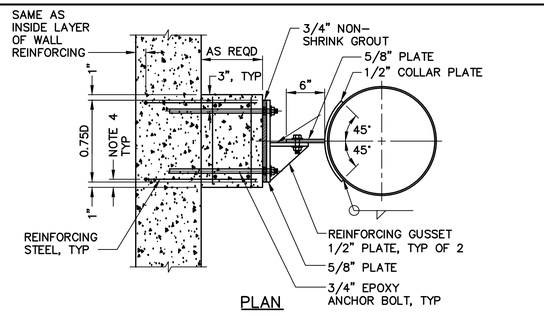
PIPE SUPPORT SCHEDULE							
DIMENSIONS IN INCHES							
PIPE SIZE (NOM)	(A)	(B)	(C)	(D)	(E)	(F)	(G)
14	4	12	3/8	5/8	6	8	18
16	4	12	3/8	5/8	6	9	21
18	4	12	3/8	5/8	6	10	22
20	5	12	3/8	5/8	6	10	24
22	5	12	3/8	5/8	6	12	24
24	5	12	3/8	5/8	6	13	26
26	5	12	3/8	3/4	6	14	28
30	5	12	3/8	3/4	6	16	30
34	5	15	3/8	3/4	6	18	33
36	6	15	3/8	3/4	6	19	34

NOTES:

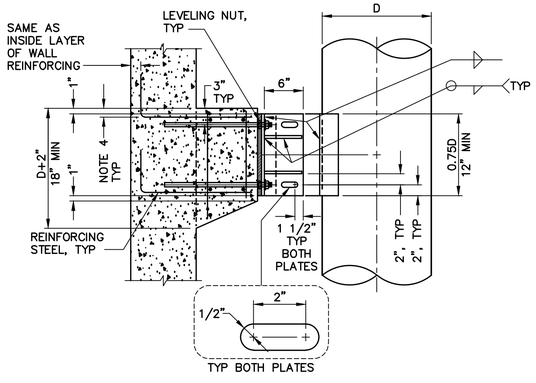
1. STRAP AND RELATED NUTS AND BOLTS ARE REQUIRED EXCEPT WHERE NOTED ON THE DRAWINGS.
2. HOT-DIP GALVANIZE STEEL COMPONENTS AFTER FABRICATION.
3. WHEN ATTACHING TO EXISTING CONCRETE, PROVIDE EQUIVALENT SIZE ADHESIVE ANCHORS.
4. VERIFY PIPE OD PRIOR TO FABRICATION.

PIPE SUPPORT M118

NTS



PLAN



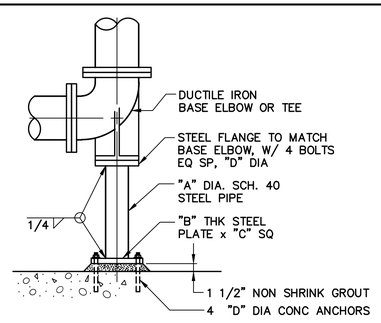
ELEVATION

NOTES:

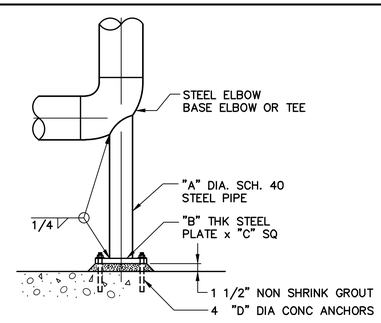
1. ADJUST THICKNESS OF CONRETE BASE ACCORDINGLY TO MAINTAIN SIZE OF STEEL PLATE PIECES AND SPACING FROM WALL AS SHOWN ON PLANS.
2. ALL BOLTS SHALL BE 0.75" DIAMETER.
3. ALL REINFORCING SHALL BE #4 BARS.
4. ALL REINFORCING SHALL HAVE 2" OF CONCRETE COVER.
5. VERIFY PIPE OD PRIOR TO FABRICATION.
6. HOT DIP GALVANIZE STEEL COMPONENTS AFTER FABRICATION.

VERTICAL PIPE SUPPORT M117

NTS



CAST IRON ELBOW



STEEL ELBOW

ELBOW/TEE SIZE (IN)	DIMENSIONS IN INCHES "A"	"B"	"C"	"D"
4	2	3/8	6	5/8
6	2 1/2	3/8	7	5/8
8	4	1/2	9	5/8
10	4	1/2	9	5/8
12	6	1/2	11	3/4
14	6	1/2	11	3/4
16	6	1/2	11	3/4
18	8	1/2	13 1/2	3/4
20	8	1/2	13 1/2	3/4
24	8	1/2	13 1/2	3/4
30	10	3/4	16	7/8
36	12	3/4	19	7/8
42	16	3/4	23 1/2	1
48	18	3/4	25	1 1/16

BASE ELBOW SUPPORT M120

NTS

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" VERIFY SCALES BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

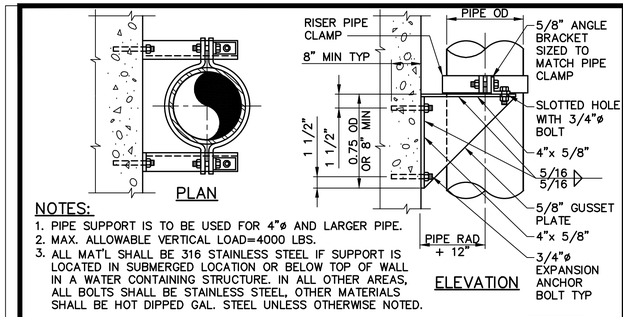
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 3

DWG NO M-3
SHEET NO 115 OF 226
PROJ NO 055-006
DATE JULY 2022

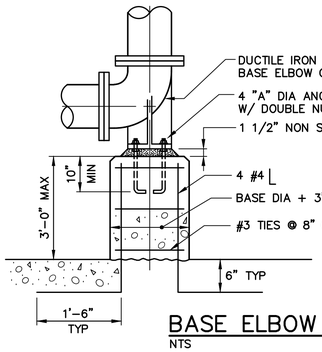
FILENAME: 0055-006-M-2 8-01-22 11:28am cto || XREFS:| X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm



NOTES:
1. PIPE SUPPORT IS TO BE USED FOR 4"ø AND LARGER PIPE.
2. MAX. ALLOWABLE VERTICAL LOAD=4000 LBS.
3. ALL MAT'L SHALL BE 316 STAINLESS STEEL IF SUPPORT IS LOCATED IN SUBMERGED LOCATION OR BELOW TOP OF WALL IN A WATER CONTAINING STRUCTURE. IN ALL OTHER AREAS, ALL BOLTS SHALL BE STAINLESS STEEL, OTHER MATERIALS SHALL BE HOT DIPPED GAL. STEEL UNLESS OTHERWISE NOTED.

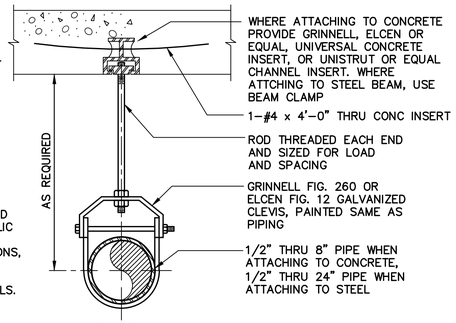
PIPE SUPPORT M121
NTS



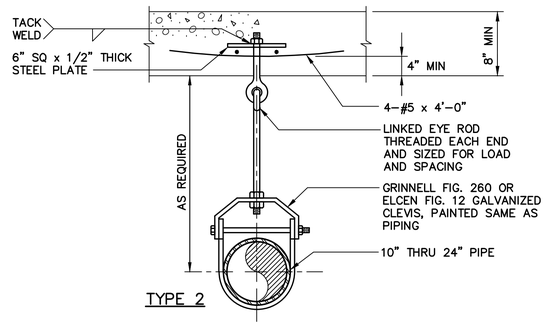
ELBOW/TEE SIZE (IN)	'A' (IN)
4	5/8
6	5/8
8	5/8
10	5/8
12	3/4
14	3/4
16	3/4
18	3/4
20	3/4
24	3/4
30	7/8
36	7/8
42	1
48	1 1/16

BASE ELBOW SUPPORT M122
NTS

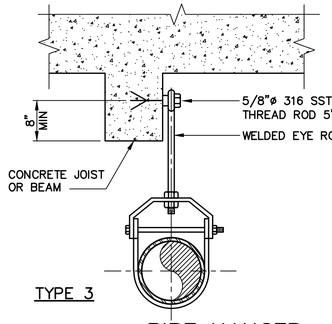
NOTES:
1. FOR INSULATED PIPES, USE GRINNELL FIG. 167 OR ELCEN FIG. 219 INSULATION PROTECTION SHIELD. SIZE CLEVIS FOR SHIELD DIAMETER.
2. TOTAL LOADING ON EACH COMPONENT SHALL NOT EXCEED MFR'S RECOMMENDATIONS.
3. IN AREAS DESIGNATED CORROSIVE, HYDRAULIC STRUCTURES AND SUBMERGED CONDITIONS, PROVIDE TYPE 316 STAINLESS STEEL OR FIBERGLASS MATERIALS.



TYPE 1

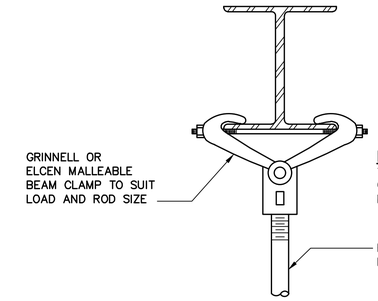


TYPE 2



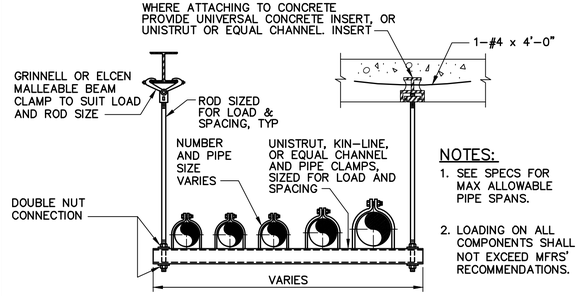
TYPE 3

PIPE HANGER M125
NTS



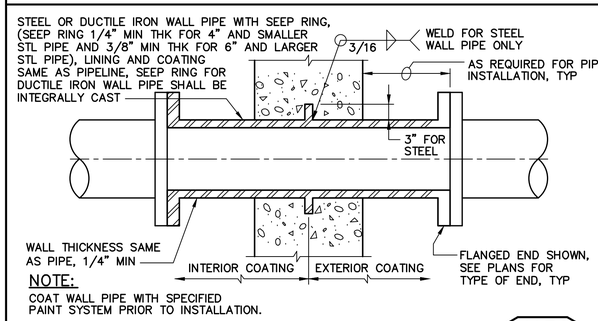
NOTE:
TOTAL LOADING OF EACH BEAM CLAMP SHALL NOT EXCEED MFR'S RECOMMENDED LOADINGS.

BEAM CLAMP M127
NTS



NOTES:
1. SEE SPECS FOR MAX ALLOWABLE PIPE SPANS.
2. LOADING ON ALL COMPONENTS SHALL NOT EXCEED MFRS' RECOMMENDATIONS.

TRAPEZE SUPPORT M128
NTS

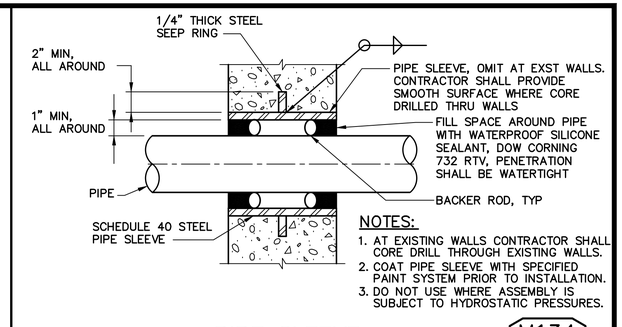


NOTE:
COAT WALL PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO INSTALLATION.

PIPE WALL THIMBLE M130
NTS

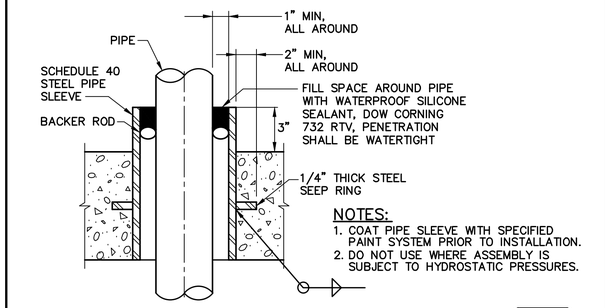
NOTE:
COAT PIPE SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO INSTALLATION.

MODULAR MECHANICAL SEAL M132
NTS



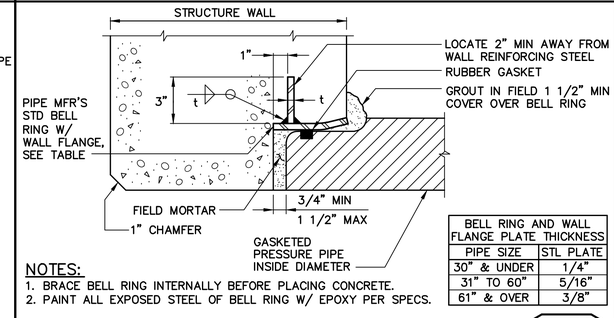
NOTES:
1. AT EXISTING WALLS CONTRACTOR SHALL CORE DRILL THROUGH EXISTING WALLS.
2. COAT PIPE SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO INSTALLATION.
3. DO NOT USE WHERE ASSEMBLY IS SUBJECT TO HYDROSTATIC PRESSURES.

PIPE SLEEVE M134
NTS



NOTES:
1. COAT PIPE SLEEVE WITH SPECIFIED PAINT SYSTEM PRIOR TO INSTALLATION.
2. DO NOT USE WHERE ASSEMBLY IS SUBJECT TO HYDROSTATIC PRESSURES.

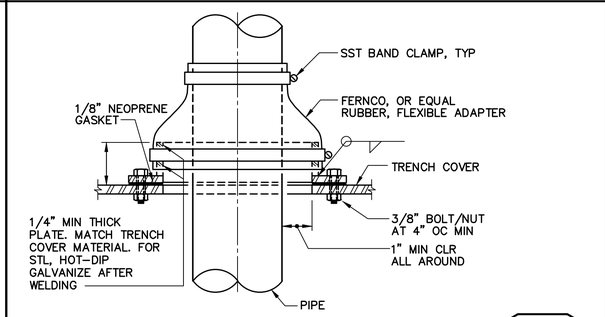
FLOOR SLEEVE M136
NTS



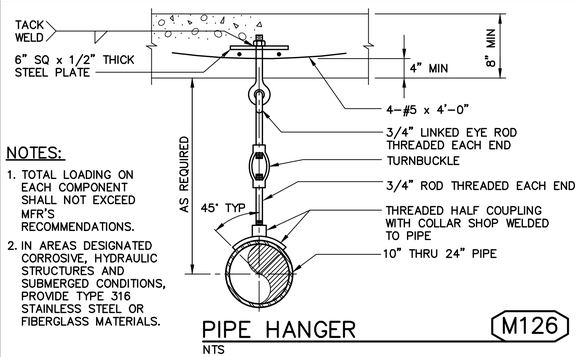
BELL RING AND WALL FLANGE PLATE THICKNESS	
PIPE SIZE	STL PLATE
30" & UNDER	1/4"
31" TO 60"	5/16"
61" & OVER	3/8"

NOTES:
1. BRACE BELL RING INTERNALLY BEFORE PLACING CONCRETE.
2. PAINT ALL EXPOSED STEEL OF BELL RING W/ EPOXY PER SPECS.

GASKET PIPE TERMINATION AT STRUCTURE M138
NTS



TRENCH COVER PENETRATION M140
NTS



NOTES:
1. TOTAL LOADING ON EACH COMPONENT SHALL NOT EXCEED MFR'S RECOMMENDATIONS.
2. IN AREAS DESIGNATED CORROSIVE, HYDRAULIC STRUCTURES AND SUBMERGED CONDITIONS, PROVIDE TYPE 316 STAINLESS STEEL OR FIBERGLASS MATERIALS.

PIPE HANGER M126
NTS

FILENAME: 0055-006-M-2 8-01-22 11:28am cto || XREFS: || X-SMCSD-TBLK |<<--

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

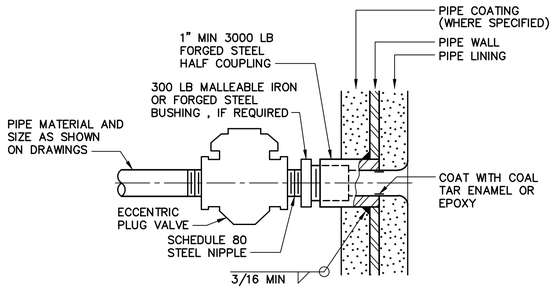
SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 4

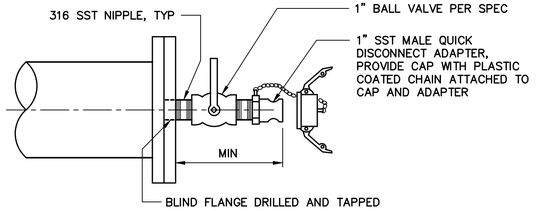
DWG NO M-4
SHEET NO 116 OF 226
PROJ NO 055-006
DATE JULY 2022

Last Saved By: cto 5-10-21 01:41pm



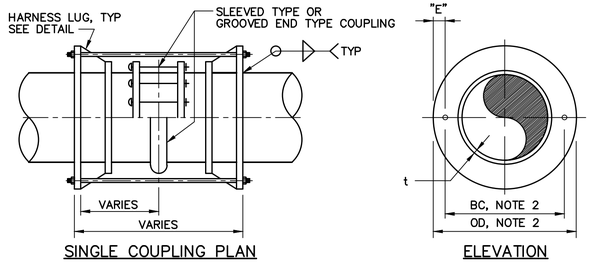
2" AND SMALLER PIPE CONNECTION (M150)

NTS



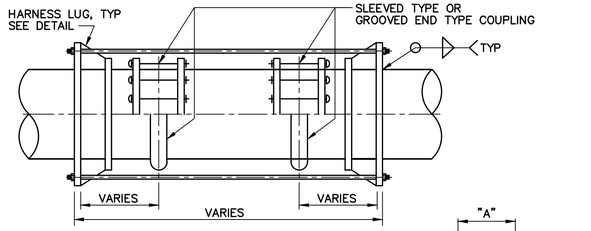
FLUSHING CONNECTION (M156)

NTS



SINGLE COUPLING PLAN

ELEVATION



DOUBLE COUPLING PLAN

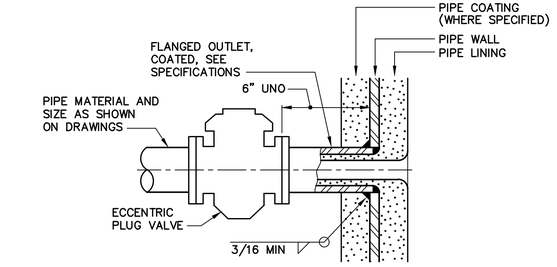
STEEL PIPE HARNESS SET SCHEDULE										
PIPE DESCRIPTION	MAX TEST PRESSURE (PSIG)	DIMENSIONS IN INCHES								
		PIPE CYLINDER OD (SEE NOTE 6)	T	A	W	E	D	BACK PLATE OD	FRONT PLATE OD	NO. TIE RODS
< 12"	160	–	0.38	5.00	1.38	3.00	0.63	–	–	4
12–18"	35	–	0.38	5.00	1.38	3.00	0.63	–	–	2
24"	25	35.13	0.38	5.00	1.50	3.13	0.63	–	–	4
30"	35	31.13	0.38	5.00	1.38	3.00	0.63	–	–	4
36"	10	37.13	0.38	5.00	1.38	3.00	0.63	–	–	4
42"	10	–	0.38	5.00	1.38	3.00	0.63	–	–	4
48"	10	–	0.38	5.00	1.38	3.00	0.63	–	–	4
48"	35	–	0.38	5.00	1.38	3.00	0.63	–	–	4

NOTES:

1. WELD SIZE SHALL BE MINIMUM REQUIRED BY AMERICAN WELDING SOCIETY, MINIMUM TO MATCH PIPE WALL.
2. BOLT CIRCLE AND OD SHALL BE SIZED TO ENSURE 1/2" MIN AND 1" MAX CLEARANCE TO COUPLING.
3. SMALLER STIFFENER PLATE SHALL BE 2" HIGH EXCEPT WHEN BOLT DIAMETER EXCEEDS 1", THEN PLATE SHALL BE 2 1/2" HIGH.
4. USE THIS DETAIL FOR ONE END OF TIE RODS WHERE THE OPPOSITE END OF TIE RODS IS ATTACHED TO A FLANGE OR A RESTRAINED FLANGE COUPLING ADAPTER.
5. PROVIDE INSULATING SLEEVE AND WASHERS WHERE ELECTRICAL ISOLATION IS REQUIRED. REFER TO CATHODIC PROTECTION, YARD PIPING, AND MECHANICAL DRAWINGS.
6. CONTRACTOR SHALL VERIFY PIPE OD PRIOR TO HARNESS FABRICATION.
7. HARNESS SHALL SPAN PAIRS OF MECHANICAL SLEEVE COUPLINGS WHERE INDICATED.
8. FOR PIPE MATERIAL OTHER THAN STEEL, CONTRACTOR SHALL PROVIDE EQUIVALENT HARNESSING ACCEPTABLE TO THE ENGINEER.
9. WHERE 4 TIE RODS ARE REQUIRED, STRADDLE HORIZONTAL AND VERTICAL CENTERLINES UNLESS OTHERWISE REQUIRED.

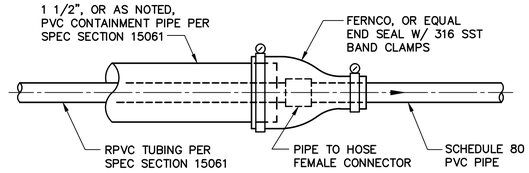
THRUST RESTRAINT HARNESS (M160)

NTS



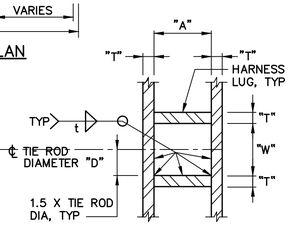
3" AND LARGER PIPE CONNECTION (M152)

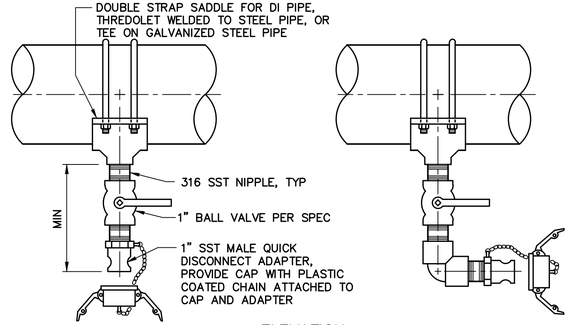
NTS



DOUBLE/SINGLE WALL PIPE TRANSITION (M158)

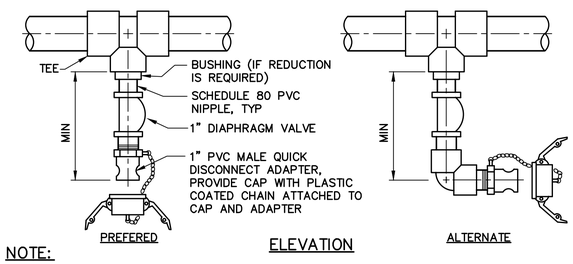
NTS





ELEVATION

FOR FERROUS METAL PIPING



ELEVATION

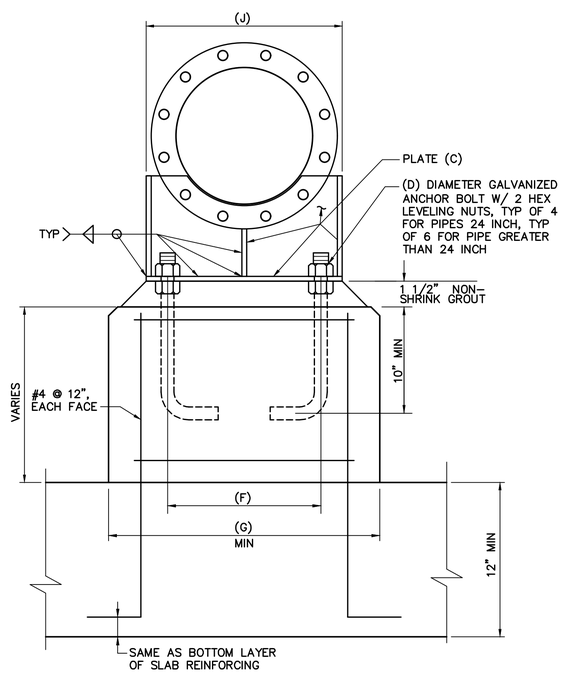
FOR PVC PIPING

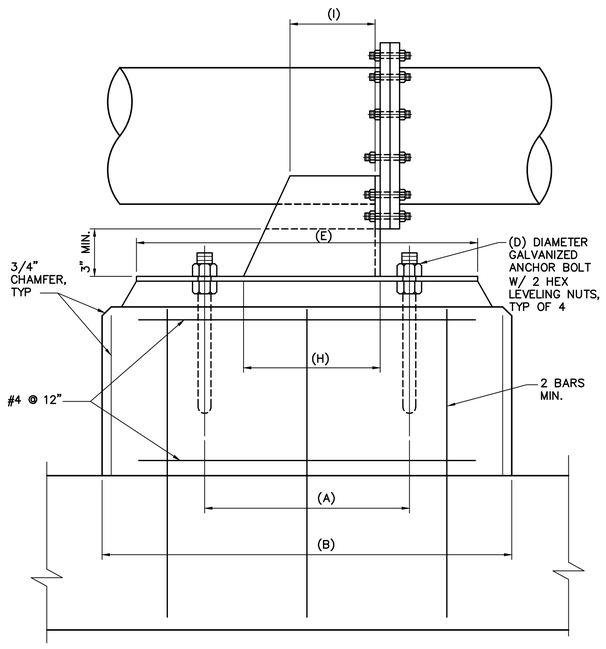
NOTE:

FOR LINE SIZES SMALLER THAN 1", VALVE AND ADAPTER SIZES SHALL MATCH LINE SIZE.

FLUSHING/DRAIN CONNECTION (M154)

NTS





PIPE SUPPORT SCHEDULE										
	DIMENSIONS IN INCHES									
PIPE SIZE (NOM)	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
8	12	24	1/2	3/4	20	9	16	8	5	12
16	16	24	1/2	3/4	20	21	25	12	4	21
18	19	30	1/2	3/4	26	23	26	15	5	22
30	24	40	3/4	1 1/4	36	36	40	20	6	36

NOTES:

1. HOT–DIP GALVANIZE STEEL COMPONENTS AFTER FABRICATION.
2. WHEN ATTACHING TO EXISTING CONCRETE, PROVIDE EQUIVALENT SIZE ADHESIVE ANCHORS.
3. VERIFY PIPE OD PRIOR TO FABRICATION.

EXPOSED PIPE THRUST RESTRAINT (M161)

NTS

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS–CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS–CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

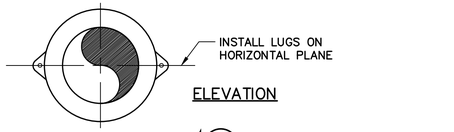
MECHANICAL STANDARD DETAILS - 5

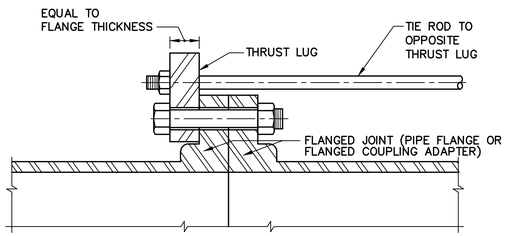
DWG NO M-5
SHEET NO 117 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M-2 8-01-22 11:28am cto || XREFS: X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm

TIE ROD SCHEDULE							
PIPE SIZE (NOM IN)	MINIMUM STEEL PIPE WALL THICKNESS (IN) (NOTE 5)	MAXIMUM TEST PRESSURE					
		25 PSIG		50 PSIG		100 PSIG	
		NUMBER REQUIRED	DIAMETER (IN)	NUMBER REQUIRED	DIAMETER (IN)	NUMBER REQUIRED	DIAMETER (IN)
6	3/16	2	5/8	2	5/8	2	5/8
8	3/16	2	5/8	2	5/8	2	5/8
10	3/16	2	5/8	2	5/8	2	5/8
12	3/16	2	5/8	2	5/8	2	5/8
14	3/16	2	5/8	2	5/8	2	3/4
16	3/16	2	5/8	2	5/8	2	3/4
18	1/4	2	5/8	2	5/8	2	7/8
20	1/4	2	5/8	2	3/4	2	7/8



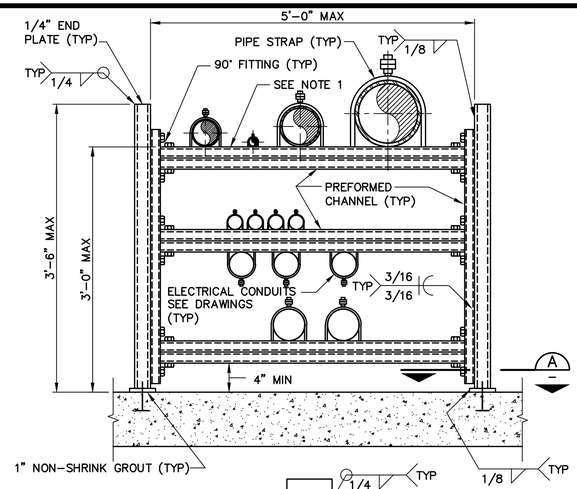


NOTES:

1. PLATE: ASTM A283 GRADE D.
2. TIE RODS: ASTM A193 GRADE B7.
3. NUTS: ASTM A194 GRADE 2H.
4. INSTALL TIE RODS IN HORIZONTAL PLANE.
5. INCREASE STEEL PIPE WALL THICKNESS TO TIE ROD SCHEDULE MINIMUM THICKNESS IF SPECIFIED PIPE WALL THICKNESS IS LESS. IF INCREASING IS REQUIRED, INCREASE FROM FLANGE TO 2'–0" MINIMUM FROM FLANGE.
6. THIS DETAIL SHALL BE USED WHERE FCA IS ADJACENT TO OTHER FCA OR FLANGES. CONNECT TIE RODS FROM LUGS AT FCA TO LUGS AT ADJACENT FCA OR FLANGES. WHERE ADJACENT FCA OR FLANGE IS NOT PRESENT, INSTALL THRUST HARNESS PER DETAIL (M160).
7. TIGHTEN TIE ROD NUTS ALTERNATELY AND EQUALLY TO ALIGN EVENLY AND TO PROVIDE EQUAL STRESS ON ALL TIE RODS WHEN SUBJECT TO OPERATING PRESSURES. NUTS SHALL BE TIGHTENED SNUG. THREADS SHALL PROTRUDE 1/2" MINIMUM FROM NUTS AFTER TIGHTENING. PEEN THREADS AFTER TIGHTENING TO LOCK NUTS IN PLACE.

THRUST RESTRAINT FOR FLEXIBLE COUPLING OR FLANGE COUPLING ADAPTER (M162)

NTS

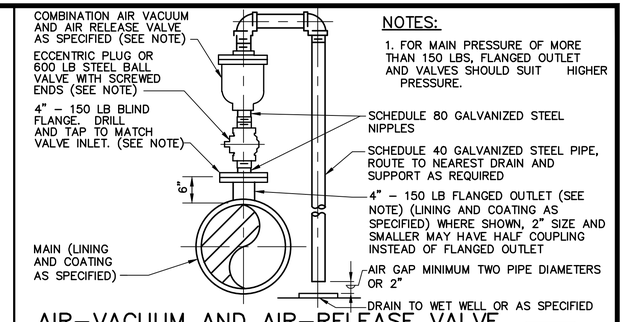


NOTES:

1. MAX TOTAL ALLOWABLE LOAD 400 LBS.
2. SUPPORTS SHALL BE 5'–0" MAXIMUM SPACING.
3. HOT–DIP GALV SUPPORT COLUMN ASSEMBLIES AFTER FABRICATION.

PIPE RACK (M164)

NTS

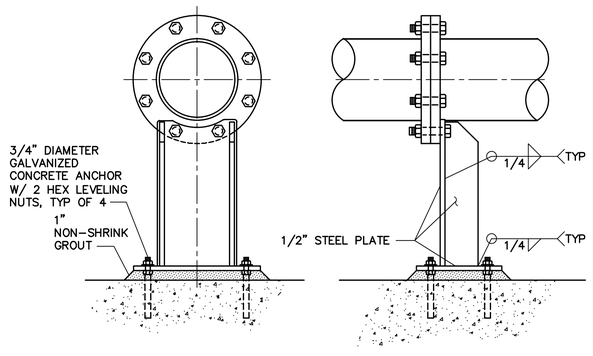


NOTES:

1. FOR MAIN PRESSURE OF MORE THAN 150 LBS, FLANGED OUTLET AND VALVES SHOULD SUIT HIGHER PRESSURE.

AIR–VACUUM AND AIR–RELEASE VALVE ASSEMBLY 3" AND SMALLER (M172)

NTS

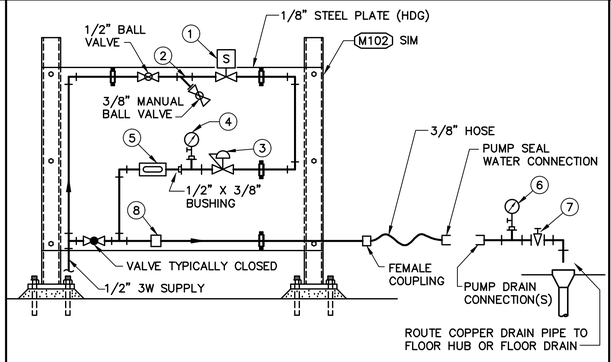


NOTES:

1. HOT–DIP GALVANIZE STEEL COMPONENTS AFTER FABRICATION.
2. WHEN ATTACHING TO EXISTING CONCRETE, PROVIDE EQUIVALENT SIZE ADHESIVE ANCHORS.
3. VERIFY PIPE OD PRIOR TO FABRICATION.

PIPE SUPPORT 4" THRU 8" (M163)

NTS



(1) SOLENOID VALVE, SEE P&ID

(2) WYE STRAINER

(3) 1/2" PRESSURE REGULATOR SET OUTLET PRESSURE AS RECOMMENDED BY PUMP MFR. FOR CLARIFIER EQUIPMENT, COORDINATE WITH MFR.

(4) PRESSURE GAUGE, RANGE AS REQUIRED BY PUMP MFR (REQUIRED ONLY FOR SINGLE MECHANICAL SEAL AND PACKING TYPE PUMP SEALS)

(5) 3/8" SIGHT GLASS (REQUIRED FOR MECHANICAL SEAL ONLY)

(6) PRESSURE GAUGE, RANGE AS REQUIRED BY PUMP MFR (REQUIRED FOR DOUBLE MECHANICAL PUMP SEALS ONLY)

(7) 1/2" NEEDLE VALVE (REQUIRED FOR DOUBLE MECHANICAL PUMP SEALS ONLY)

(8) FLOW SWITCH (FSL)

NOTES:

1. PIPING CONFIGURATION IS SHOWN SCHEMATICALLY. CONTRACTOR SHALL CONFIGURE AS REQUIRED.
1. ALTERNATE CONFIGURATION. ASSEMBLY SHALL BE WALL MOUNTED, IF SPECIFIED.

SEAL WATER ASSEMBLY (M170)

NTS

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

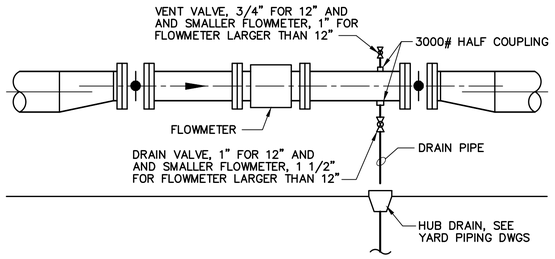
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 6

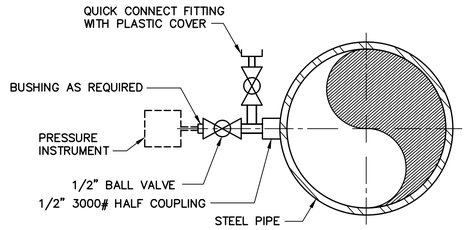
DWG NO M-6
SHEET NO 118 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M-2 8-01-22 11:28am cto || XREFS:| X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm

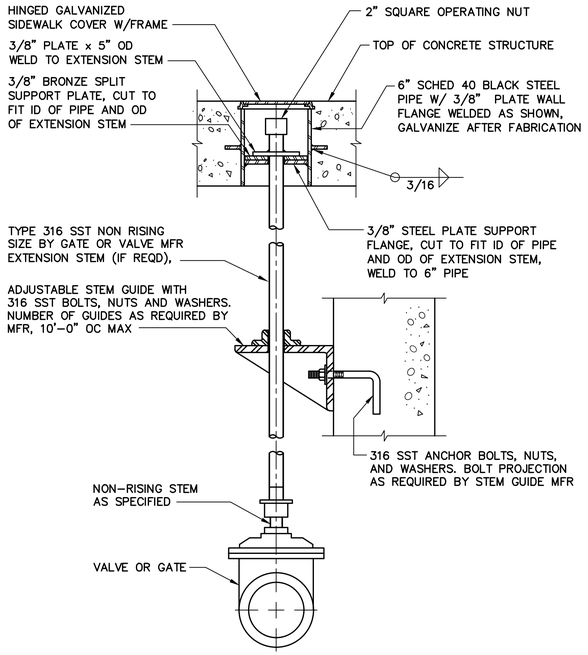


FLOWMETER VENT/DRAIN M214
NTS

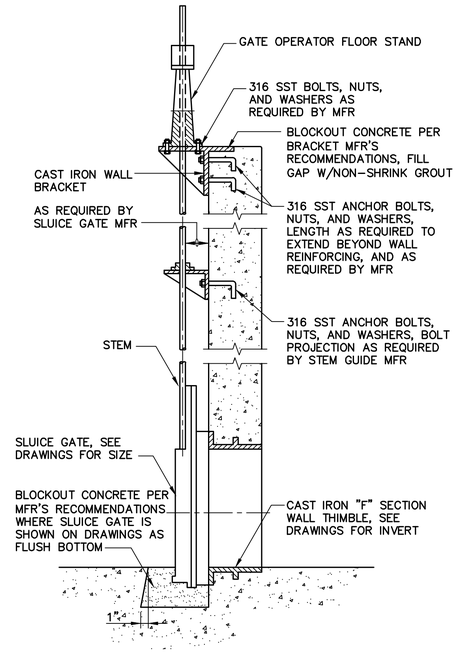


NOTE:
FOR TRUE ORIENTATION SEE PLANS.

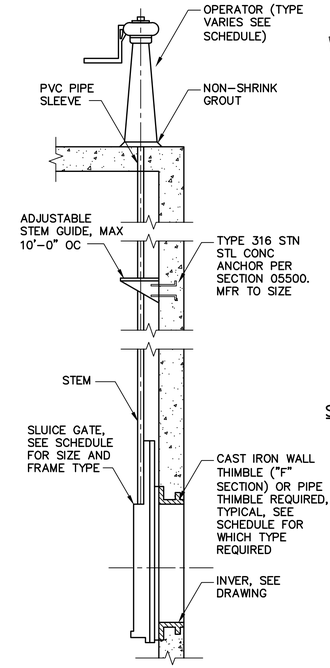
PRESSURE INSTRUMENT CONNECTION M218
NTS



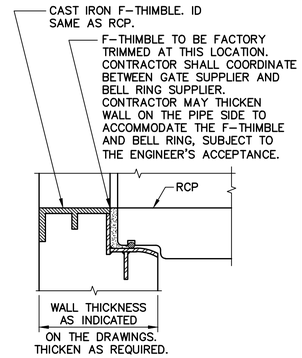
FLOOR BOX OPERATOR M230
NTS



WALL BRACKET



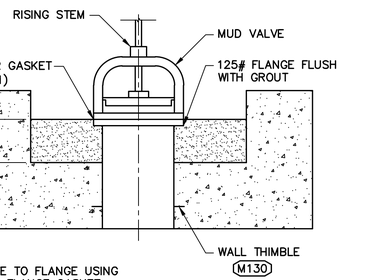
SLAB MOUNT



SLUICE GATE TO PIPE CONNECTION

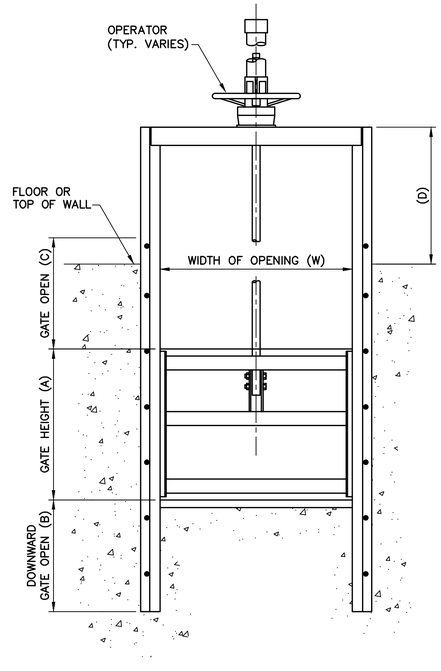
NOTES:
1. DETAIL IS NOT APPLICATION SPECIFIC.
2. REFER TO MECHANICAL SCHEDULE FOR:
   - -FRAME TYPE (SELF CONTAINED OR NOT, SPIGOT BLACK, FLAT BACK F-TYPE OR FLANGE BACK)
   - -BOTTOM TYPE (FLUSH OR PORT)
   - -OPERATOR TYPE (HANDWHEEL, HANDCRANK, 2" NUT OR MOTOR)
   - -PEDESTAL TYPE (FLOOR, BENCH, OFFSET OR NOT)

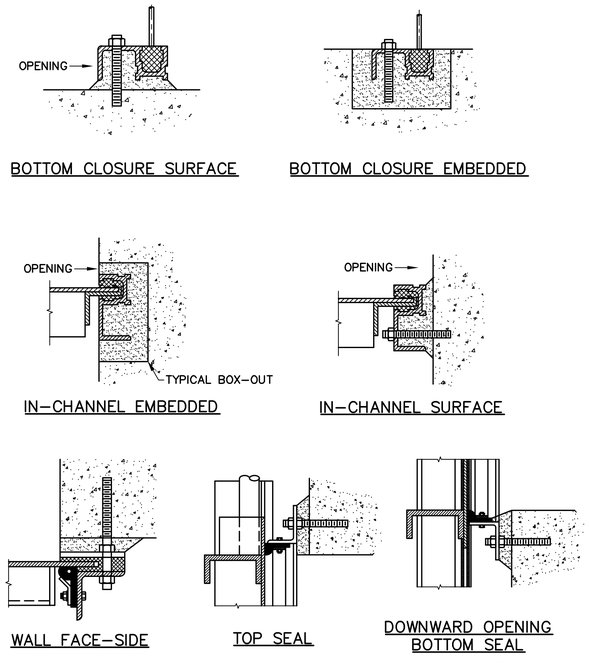
SLUICE GATE M250
NTS



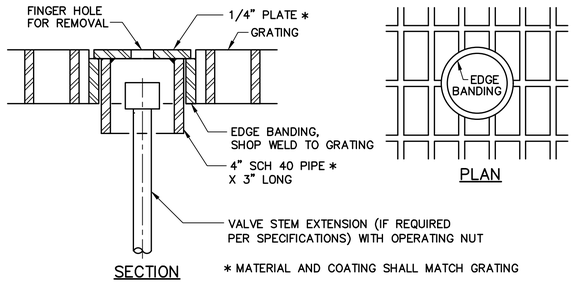
NOTE:
1. INSTALL VALVE TO FLANGE USING SOFT RUBBER FLANGE GASKET.

MUD VALVE M233
NTS

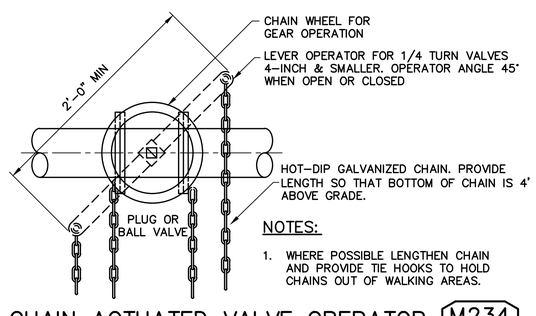




SLIDE GATE M254
NTS



OPERATING NUT ACCESS OPENING M232
NTS



NOTES:
1. WHERE POSSIBLE LENGTHEN CHAIN AND PROVIDE TIE HOOKS TO HOLD CHAINS OUT OF WALKING AREAS.

CHAIN ACTUATED VALVE OPERATOR M234
NTS

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

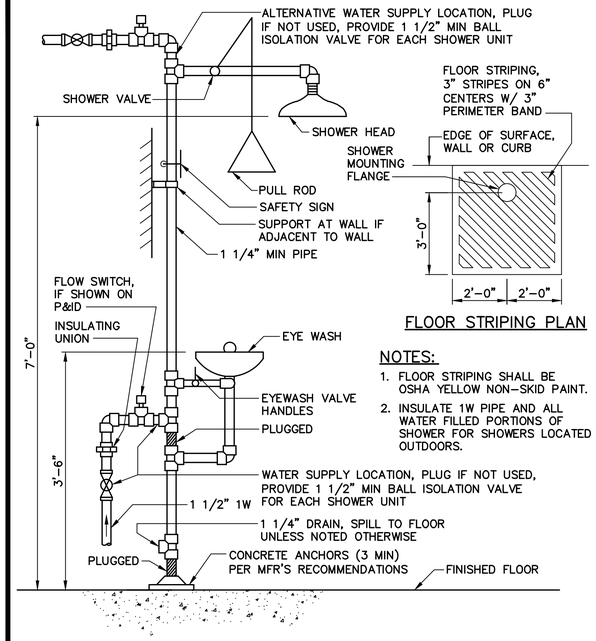
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 7

DWG NO M-7
SHEET NO 119 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 055-006-M-2 8-01-22 11:28am cto | XREFS: | X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm



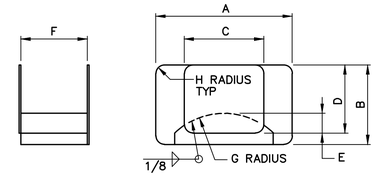
FLOOR STRIPING PLAN

NOTES:

1. FLOOR STRIPING SHALL BE OSHA YELLOW NON-SKID PAINT.
2. INSULATE 1W PIPE AND ALL WATER FILLED PORTIONS OF SHOWER FOR SHOWERS LOCATED OUTDOORS.

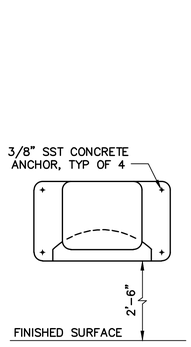
DRENCH SHOWER AND EYEWASH (M259)

NTS



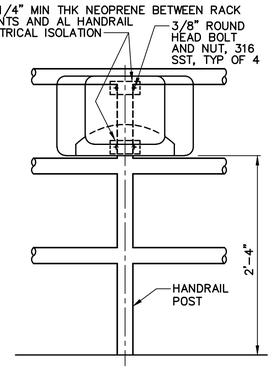
RACK TYPE	DIMENSIONS IN INCHES							
	A	B	C	D	E	F	G	H
TYPE 1 (3/4" & 1" HOSE)	18	11	10	9 1/2	3	7 1/2	9	1 1/4
TYPE 2 (1 1/2" HOSE)	24	14	14	12	3 1/2	10	12 1/2	1 1/2

HOSE RACK

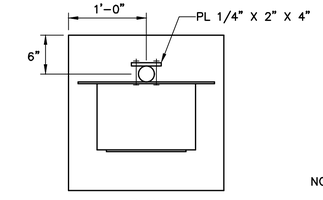


ELEVATION

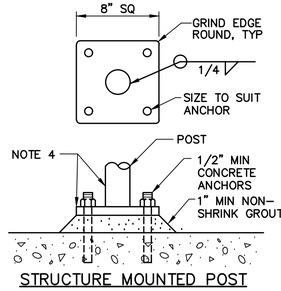
WALL MOUNTED



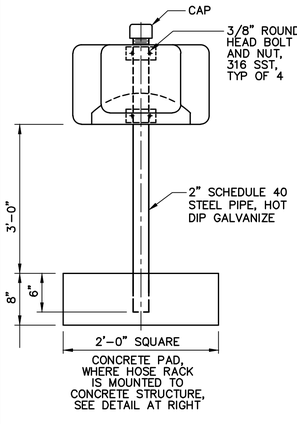
HANDRAIL MOUNTED



PLAN



STRUCTURE MOUNTED POST



ELEVATION

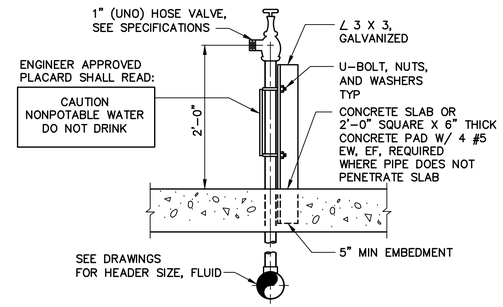
POST MOUNTED

NOTES:

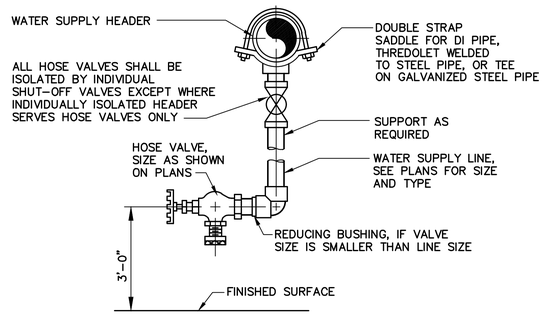
1. CONSTRUCT HOSE RACK FROM 1/8" MIN A-36 STEEL PLATE. HOT DIP GALVANIZE HOSE RACK AFTER FABRICATION.
2. ATTACH A WARNING SIGN TO EACH HOSE RACK OR ADJACENT HOSE VALVE. SIGN SHALL READ:
   CAUTION
   NONPOTABLE WATER
   DO NOT DRINK
3. PROVIDE MINIMUM 75 FT OF HOSE AT EACH HOSE RACK. SIZE SHALL MATCH HOSE VALVE.
4. CONSTRUCT BASEPLATE FOR STRUCTURE MOUNTED POST FROM 1/2" MIN A-36 STEEL PLATE. HOT DIP GALVANIZE BASE AND POST AFTER FABRICATION.

HOSE RACK (M270)

NTS



EXTERIOR HOSE VALVE TYPE 1



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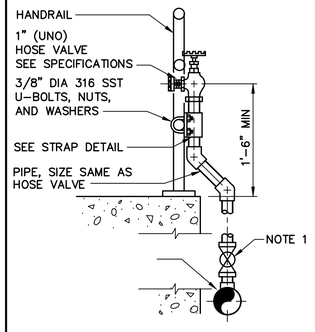

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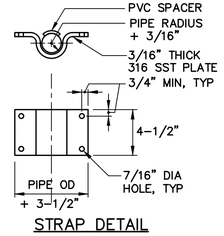
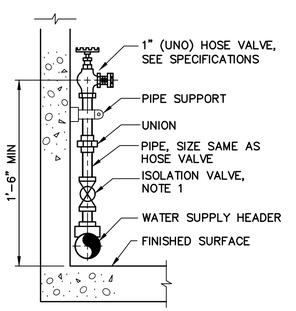
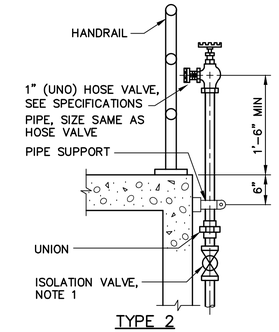


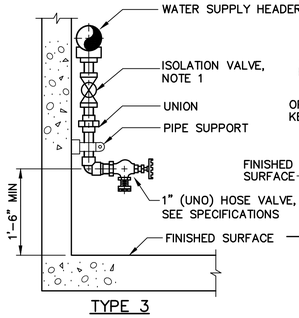
STRAP DETAIL



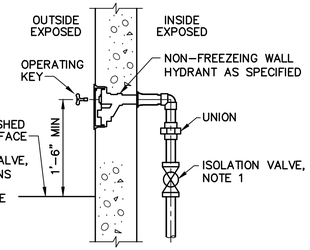
TYPE 1



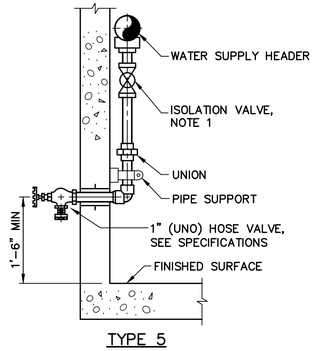
TYPE 2



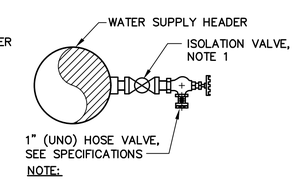
TYPE 3



TYPE 4



TYPE 5



NOTE:
TAP ORIENTATION MAY VARY, SEE PLANS.

TYPE 6

NOTES:

1. ALL HOSE VALVES RAISERS OUTSIDE BUILDINGS LESS THEN 1 1/2" INCHES IN DIAMETER SHALL HAVE INSULATION FOR FREEZE PROTECTION.

HOSE VALVES (M275)

NTS

RECORD DRAWING
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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

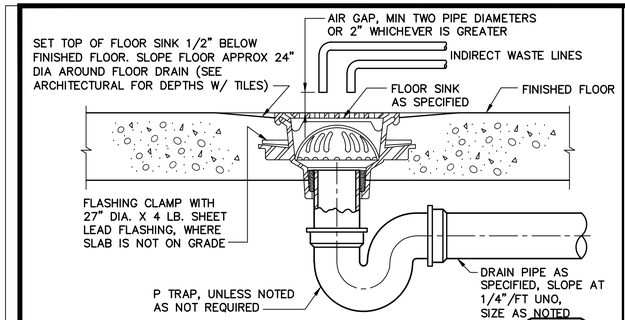
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 8

DWG NO M-8
SHEET NO 120 OF 226
PROJ NO 055-006
DATE JULY 2022

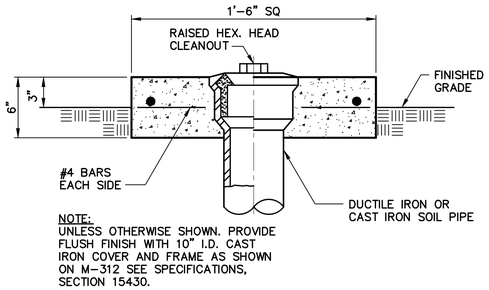
FILENAME: 0055-006-M-2 8-01-22 11:29am cto || XREFS: | X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm



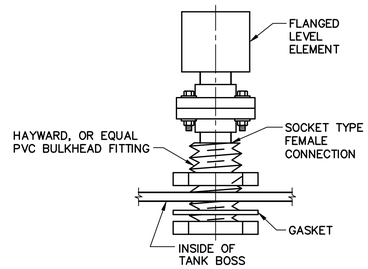
FLOOR SINK M280

NTS



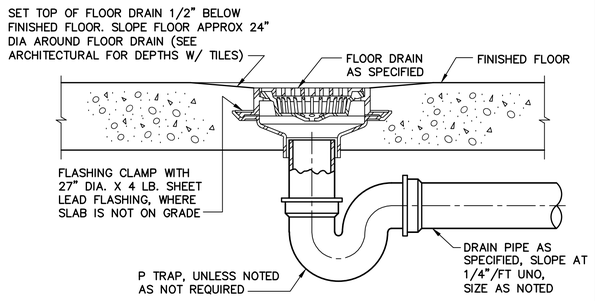
CLEANOUT TO GRADE M288

NTS



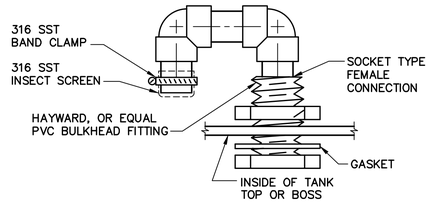
FLANGED LEVEL ELEMENT M306

NTS



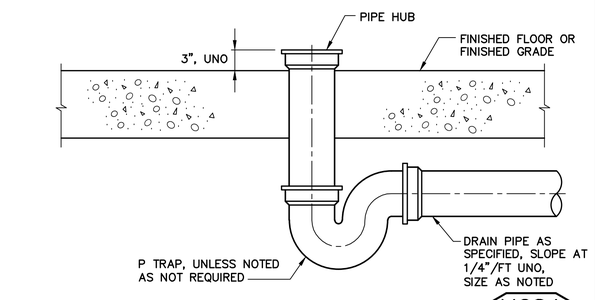
FLOOR DRAIN M282

NTS



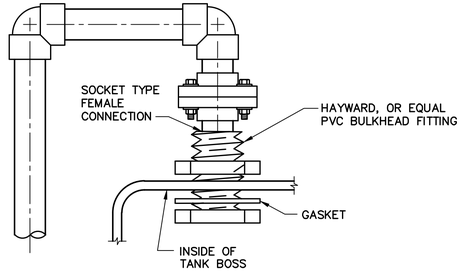
TANK VENT M308

NTS



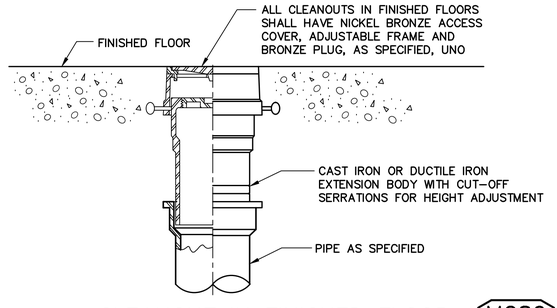
HUB DRAIN M284

NTS



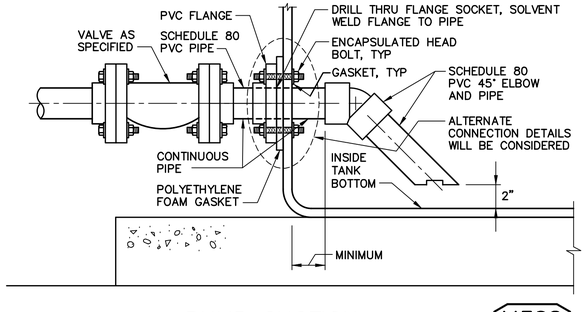
TOP NOZZLE M310

NTS



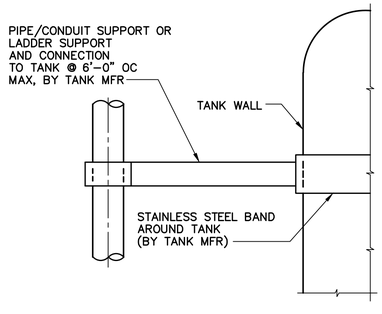
CLEANOUT IN FINISHED FLOOR M286

NTS



PUMP SUCTION M302

NTS



TANK PIPE AND LADDER SUPPORT M314

NTS

RECORD DRAWING

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

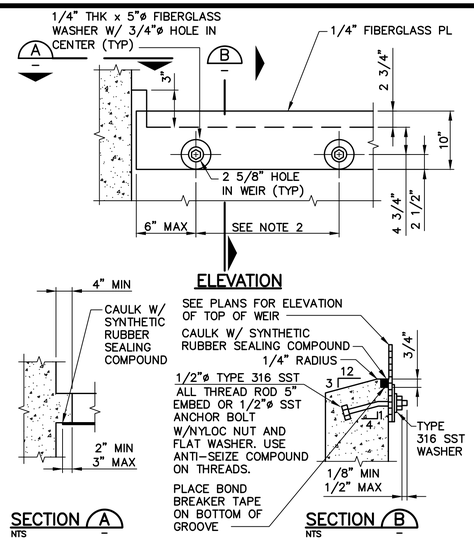
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 9

DWG NO M-9
SHEET NO 121 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M-2 8-01-22 11:29am cto || XREFS:| X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm



NOTES:

1. ALL EDGES, VOIDS, AND SPLICES SHALL BE SEALED WATER TIGHT W/SYNTHETIC RUBBER SEALING COMPOUND.
2. ANCHOR BOLT SPACING = 12" OC FOR STRAIGHT WEIRS AND 2'-0" OC FOR CIRCULAR WEIRS.
3. ADJUST WEIR LEVEL AT CALM WATER SURFACE TO WITHIN ± 1/32 INCH OF THE INDICATED ELEVATION. ENGINEER TO APPROVE PRIOR TO CAULKING.

PLAIN WEIR

M320

NTS

RECORD DRAWING

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Woodard & Curran

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1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

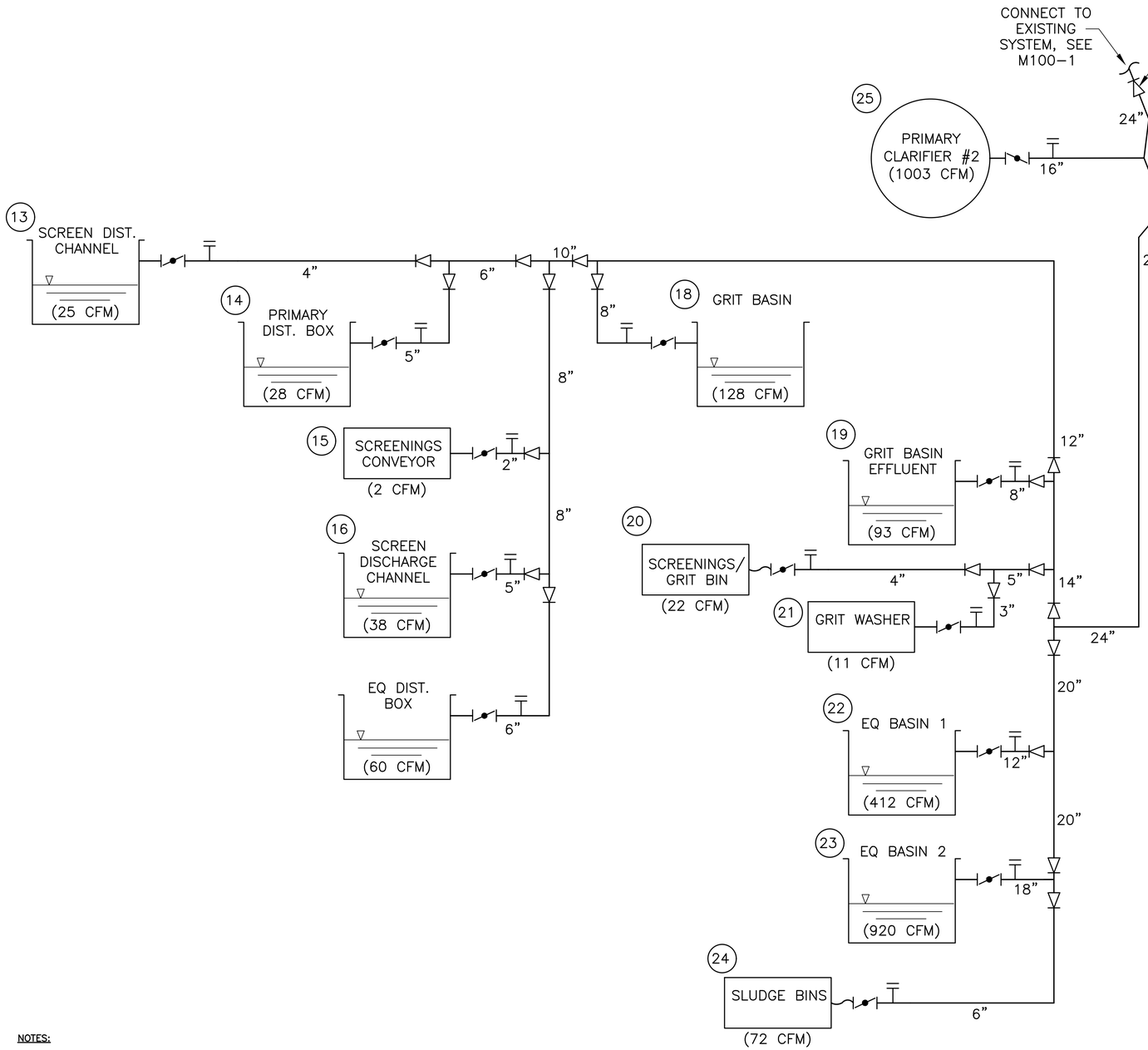
TREATMENT AND WET WEATHER FLOW UPGRADE

MECHANICAL STANDARD DETAILS - 10

DWG NO M-10
SHEET NO 122 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M-2 8-01-22 11:29am cto || XREFS: | X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 01:41pm



LEGEND:

- DAMPER
- INSERTION AIRFLOW PROBE
- REDUCER
- (XX) ZONE NUMBER
- FLEXIBLE CONNECTION

ODOR CONTROL SYSTEM AIR FLOW SCHEDULE

Zone #	Duct Size (IN.)	Location	Volume (CU FT)	Minimum CFM	% of Total	Minimum AC/HR
Existing Zones						
6	6	Primary Effluent Chamber (sample sump)	592	118	1.2%	12
1	8	Launder Trough	283	57	0.6%	12
3	8	Launder Trough	283	57	0.6%	12
4	8	Launder Trough	283	57	0.6%	12
7	8	Launder Trough	283	57	0.6%	12
		Subtotal Primary Clarifier	1,722	344	3.4%	12
5	8	~~Removed From Service~~	-	-	0.0%	0
2	18	~~Removed From Service~~	-	-	0.0%	0
9	12	Sludge Thickener	471	31	0.3%	4
8	12	Screw Press	251	50	0.5%	12
10	2	Screw Press	48	10	0.1%	12
		Subtotal Screw Press	299	60	0.6%	12
11	28	FFR #2	40,500	3,465	33.9%	5
12	28	FFR #1	40,500	3,505	34.3%	5
		Existing Subtotal	**83,491**	**7,406**	**72.5%**	-
New Zones						
13	4	Screen Dist Channel	124	25	0.3%	12
14	5	Primary Dist. Box	140	28	0.4%	12
15	2	Sreenings Conveyor	12	2	0.0%	12
16	5	Screen Discharge Channel	192	38	0.5%	12
17	6	EQ Dist Box	299	60	0.8%	12
18	8	Grit Basin	638	128	1.7%	12
19	8	Grit Basin Effluent	466	93	1.3%	12
20	4	Screenings/Grit Bin	108	22	0.3%	12
21	3	Grit Washer	57	11	0.2%	12
22	12	EQ Basin 1	4,125	412	5.6%	6
23	18	EQ Basin 2	9,201	920	12.4%	6
24	6	Sludge Bin	360	72	1.0%	12
25	18	Primary Clarifier No. 2	5,014	1,003	13.5%	12
		New Subtotal	**20,611**	**2,814**	**38.0%**	-
All Zones		**Total**	**104,102**	**10,220**	**100%**	-

NOTES:

1. DRAWING NOT TO SCALE.
2. ODOR CONTROL FOUL AIR LINES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 02510 – FRP DUCTWORK.
3. EXISTING AND NEW ODOR CONTROL ZONES SHALL BE BALANCED PER THE ODOR CONTROL AIR FLOW SCHEDULE AND IN ACCORDANCE WITH SECTION 15954 – HVAC SYSTEMS TESTING, ADJUSTING, AND BALANCING.

FILENAME: 055-006-M-20 8-01-22 11:29am cto || XREFS: X-SMCSD-TBLK |<<--

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN M. TAKEMOTO
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

ODOR CONTROL SCHEMATIC

DWG NO M20
SHEET NO 123 OF 226
PROJ NO 055-006
DATE JULY 2022

Last Saved By: cto 7-15-22 12:10pm

SCALE: 1"=10'

0 10 20 30

SCALE IN FEET

SAN FRANCISCO BAY

FFR MEDIA REPLACEMENT
SEE M300-3

SEE DWG
M300-1

NEW DISK FILTER
AREA. SEE M400-1

UTILITY WATER PUMPS
REPLACMENT AND SAMPLE
PUMP NO. 5 RELOCATION,
SEE M600-1

RECYCLE PUMPS
REPLACEMENT,
SEE M500-1

B M100-7

24"x22"
REDUCER TIE
IN TO EXISTING

24"FA

(E) PRIMARY
CLARIFIER NO. 1

PRIMARY CLARIFIER
NO. 2
M200-1

16"FA

J M100-15

D M100-9

E M100-10

C M100-8

F M100-11

G M100-13

H M100-13

M M210-2

PLANT
LIBRARY

14"FA

24"FA

L M100-14

P M100-15

I M100-14

20"PI
SEE C200-1

TRUCK
TURNTABLE

N M100-16

A M100-7

PRIMARY
SLUDGE/SCUM PUMPS
SEE M210-1

O M210-1

HEADWORKS/EQ. SEE
M100-2 THROUGH
M100-6

O M100-16

(N) ENERGY
DISSIAPATION BOX
SEE C200-1

RELOCATED PG&E
TRANSFORMER
SEE E24-1

PLAN
1"=10'

NOTES:

1. SEE C200-1 FOR YARD PIPING

FILENAME: 0055-006-M100-1 8-01-22 11:30am cto || XREFS:| X-SMCSD-TBLK | X-Treatment Plant Site Plan | X-SitePlan | X-Topo Survey new | X-Site | S-HEADWORKS-PLAN | 0055-006-M100-5 |<<--

Last Saved By: cto 5-10-21 03:20pm

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

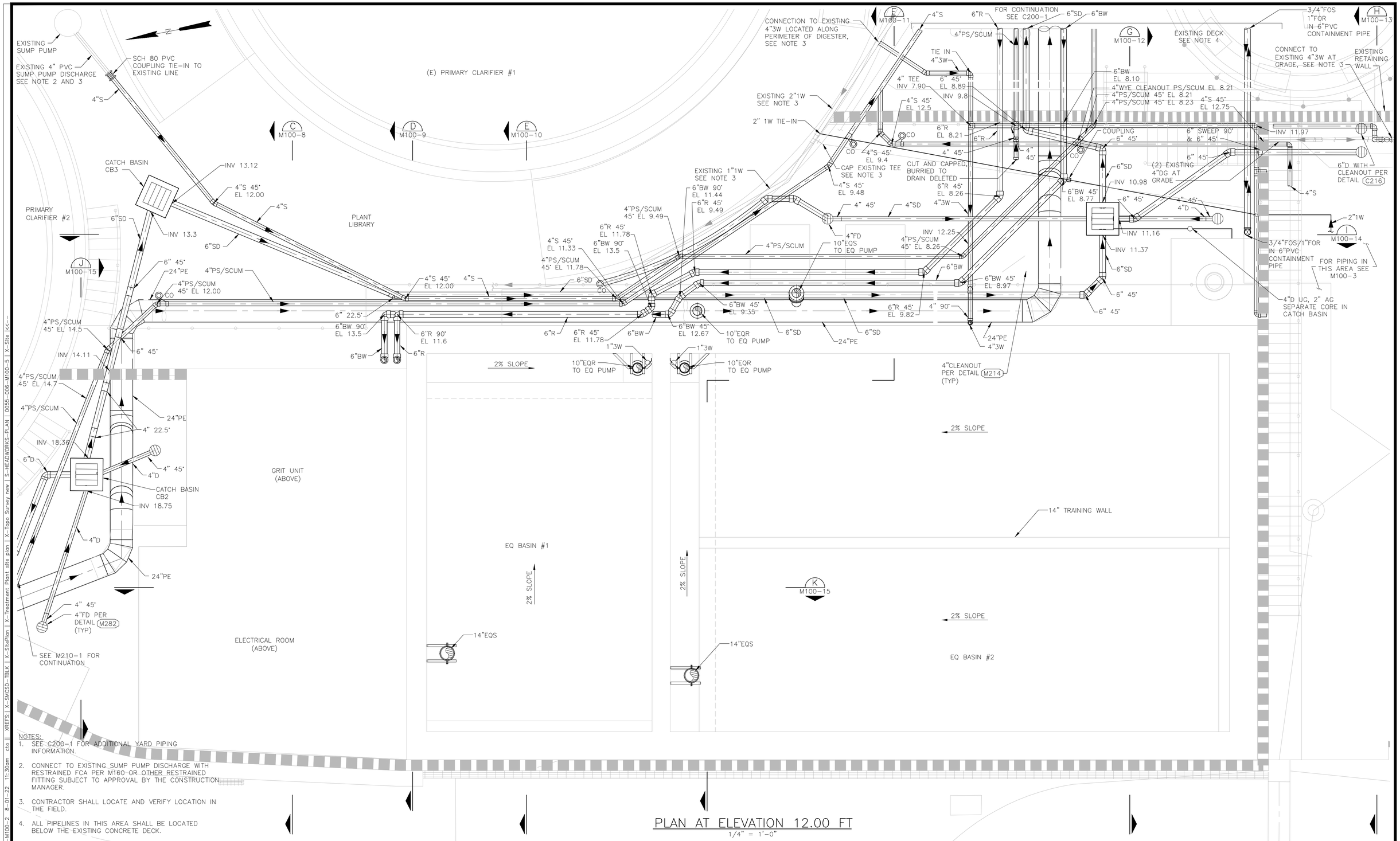
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

OVERALL SITE PLAN

DWG NO	M100-1
SHEET NO	124 OF 226
PROJ NO	055-006
DATE	JULY 2022



NOTES:

1. SEE C200-1 FOR ADDITIONAL YARD PIPING INFORMATION.
2. CONNECT TO EXISTING SUMP PUMP DISCHARGE WITH RESTRAINED FCA PER M160 OR OTHER RESTRAINED FITTING SUBJECT TO APPROVAL BY THE CONSTRUCTION MANAGER.
3. CONTRACTOR SHALL LOCATE AND VERIFY LOCATION IN THE FIELD.
4. ALL PIPELINES IN THIS AREA SHALL BE LOCATED BELOW THE EXISTING CONCRETE DECK.

PLAN AT ELEVATION 12.00 FT

1/4" = 1'-0"

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1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS AND EQ BASIN FOUNDATION PLAN

DWG NO	M100-2
SHEET NO	125 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 0055-006-M100-2 8-01-22 11:30am cto || XREFS: | X-SMCSD-TBLK | X-SitePlan | X-Treatment Plant site plan | X-Topo Survey new | S-HEADWORKS-PLAN | 0055-006-M100-5 | X-Site |<--

Last Saved By: cto 5-10-21 01:44pm

CONNECT 1/2"FC TO EXISTING SLUDGE HEAT LOOP RETURN LINE, INSTALL ISOLATION BALL VALVE AT CONNECTION.

(E) PRIMARY CLARIFIER NO. 1

PRIMARY CLARIFIER NO. 2

PLANT LIBRARY

3/4"FC LINE IN 1 1/2" CONTAINMENT PIPE

CONNECT TO EXISTING 3"DG LINES

SUPPORT PER M106

3"DG

12"EQR (SCH 80 PVC)

6"BW

6"R

4"3W UP

1"3W

4"3W

4"3W

M115

10"EQR

12"x10" REDUCER (SCH 80 PVC)

EQ-PMP1

EQ-PMP2

10"CHECK VALVE (TYP.2)

M115

M116

10"EQR

M130 (TYP)

1"3W

3/4"FC LINE IN 1 1/2" CONTAINMENT PIPE

4"3W

3"DG

2"3W

HOSE BIBB AND HOSE RACK SEE DET. M275 M270

2"3W

RELOCATED 1/2"FC LINE IN 1 1/2" CONTAINMENT PIPE

FERRIC CHLORIDE PUMP

FC-PMP1

FERRIC CHLORIDE TANK

FC-TNK1

FC-TNK1-LE-01

FC-LSH1-01

2"3W

3/4"FOS

1"FOR

1"1W

INSTALL PRV AND ISOLATION VALVE ON 2"1W INSIDE A PRECAST UTILITY BOX AT GRADE WITH COVER LABELED "WATER"

NEW 1/2" FC TUBING IN 1-1/2" CONTAINMENT MOUNTED TO EXISTING PIPE RACK

CONNECT EXISTING 4"S TO NEW 4"S WITH SOLVENT WELDED FITTING

MAINTAIN SEPARATION BETWEEN 1W AND SEWER PER DETAIL C384

NEW 3/4"FC TUBING IN 1-1/2" CONTAINMENT PIPE MOUNTED TO EXISTING PIPE RACK

CONNECT TO EXISTING 2"1W LINE

12"SD

4"3W

6"D

2"1W

4"S

4"D

(2) EXISTING 4" DG LINES ABOVE GRADE

(2) 3"DG

FOR CONT. SEE M100-2

1" DG DRIP TRAP (TYP. OF 2)

FC-SHWR1-FSH-01

1"1W

2"D (PVC)

FC-TNK1-LIT-01

1"FOR 3/4"FOS

6"D WITH CLEANOUT PER DETAIL C216

2"1W

EXISTING CHEMICAL RACK

12"SD SEE C200-1 FOR CONT.

2"1W

4"S

SEW. LINE

12"SD

GRIT PUMP HW-GRT-PMP1

1"3W

4"G

SEE NOTE 1

1"3W

1"x1"x1/2" REDUCING TEE WITH 1/2" OPENING POINTING DOWNWARD TOWARD THE CORNER OF THE BASIN (TYP. OF 2)

1"x1/2" REDUCING ELBOW WITH 1/2" OPENING POINTING DOWNWARD TOWARD THE CORNER OF THE BASIN (TYP. OF 2)

VOID SPACE

GRIT PUMP HW-GRT-PMP2

1" HOSE BIBB AND HOSE RACK SEE DET. M275 M270

VOID SPACE

EQ BASIN #1

EQ BASIN #2

PRIMARY SLUDGE SCUM PUMPS SEE M210-1

ELECTRICAL ROOM (SEE E100-7)

14"EQS

M116

14"EQS

M116

NOTES:

1. CONTRACTOR SHALL CONNECT 3W AND G LINES IN ACCORDANCE WITH HYDRAULIC GRIT MANUFACTURER'S REQUIREMENTS.
2. CONNECT 1" D LINE TO BOTTOM OF EACH OF THE TWO (2) 3" DG LINES AT THE LOW POINT TO CONDENSATE TO BE DRAINED FROM THE LINE. ROUTE AND CONNECT EACH OF THE 1" D LINES TO A 1" DRIP TRAP LOCATED ON THE WALL NEXT TO THE STAIRS. DIRECT DRAINAGE FROM THE DRIP TRAPS TO THE NEAREST FLOOR DRAIN.

BOTTOM PLAN
1/4" = 1'-0"

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS AND EQ BASIN LOWER PLAN EL 25.00

DWG NO M100-3
SHEET NO 126 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-3 8-01-22 11:31am cto || XREFS: X-SMCSD-TBLK | X-SitePlan | X-Treatment Plant site plan | X-Topo Survey new | 0055-006-M100-2 | S-HEADWORKS-PLAN |<<--

Last Saved By: cto 5-10-21 01:45pm

NOTES:
1. TEST PORT FOR FA BALANCING, ROUTE TO ACCESS OPENING IN PLATFORM ABOVE.
2. PROVIDE OPERATING NUT FOR DAMPER THROUGH OPENING IN PLATFORM.
3. FLOW CONTINUES UNDER THE SCREEN CHANNEL.
4. EXACT LOCATION IS UNKNOWN. CONTRACTOR SHALL LOCATE IN THE FIELD.
5. SEE M100-6 FOR ADDITIONAL DETAILS ON THE HEADWORKS AREA.

(E) PRIMARY CLARIFIER NO. 1
BUTT JOINT NEW FA TO EXISTING FA. FIELD WRAP PER FA DUCT MANUFACTURES INSTRUCTIONS
24"FA
16"FA
20"x14" REDUCER
14"FA
PLANT LIBRARY
12"EQR (SCH 80 PVC)
6"R
10"EQR
EQ-GAT4
EQ-GAT5
ADDED POSITION SWITCH ON GATES, SEE PD&I DWG
EQ-PMP1
EQ-PMP2
NOTE 1
NOTE 2
20"FA
6"FA
PRIMARY CLARIFIER NO.2
3"3W
4"3W
1"3W DN
2"3W
6"BW
12"FA
5"FA
8"D
14"EQR (SCH 80 PVC)
EQ BASIN NO.1
EQ BASIN NO.2
4" MUD VALVE
SC-EQP2-MVLV04-01
SC-EQP1-MVLV04-01
DETAIL M233
SUPPORT PER M125 (TYP)
SUPPORT PER M115
14"EQS
4"G
GRIT BASIN
GRT-EQP1
PARSHAL FLUME
HW-FLW1
SLUICE GATE SEE M250 (TYP)
MANUAL BAR
SC-BAR1
20"PI
PRIMARY INFLUENT DISTRIBUTION BOX
5"FA
SCREEN
SC-EQP1
SC-EQP2
STOP GATE SEE M254 SIM, (TYP)
SLIDE GATE SEE M254 (TYP)
4"D
TIPPING TROUGH
EQ1-TRS1
EQ2-TRS1
EQ2-TRS2
TROUGH CONTACT SWITCH
EQ1 TRS1-ZS-01
EQ2 TRS1-ZS-01
EQ2 TRS2-ZS-01
STRUCTURAL SUPPORT HAUNCHES
18"FA
2"3W
1"1W
1"FOR 3/4"FOS
EXISTING CHEMICAL RACK
12"SD SEE C200-1 FOR CONT.
4" SEWER
EXISTING 4"S
2"1W
12"SD
MAINTAIN SEPARATION BETWEEN 1W AND SEWER PER DETAIL C384
1/2"FC LINE IN 1 1/2" CONTAINMENT PIPE
NEW 1/2"FC TUBING IN 1-1/2" CONTAINMENT PIPE MOUNTED TO EXISTING PIPE RACK
CONNECT TO EXISTING 2"1W LINE
EXISTING 2"1W, SEE NOTE 4
CATCH BASIN CB10
EXISTING CHEMICAL PULL BOX
SEE M100-3 FOR PIPING IN THIS AREA
STAIRS
DOWN
CORRUGATED HDPE SLEEVES AT SN WALL
TRANSITION STEP
20" PI TO PRIMARY CLARIFIER NO.1
24"INF
EQ1-LSHH-01
EQ2-LSHH-01

PLAN AT EL 43.00
1/4" = 1'-0"

0" — 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

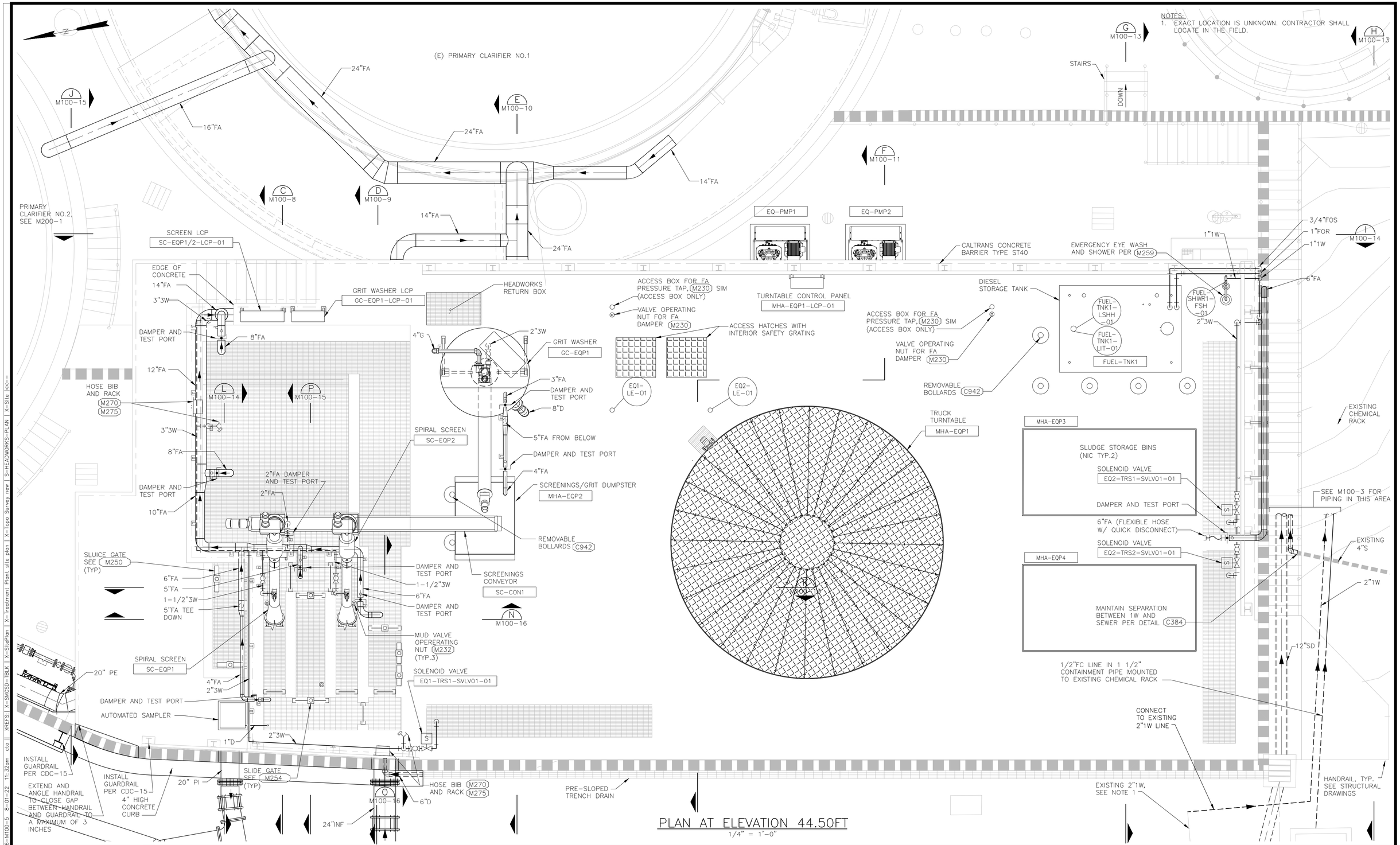
TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS AND EQ BASIN PLAN AT EL 43.00

DWG NO M100-4
SHEET NO 127 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-4 8-01-22 11:31am cto || XREFS: X-SMCSD-TBLK | X-SitePlan | X-Treatment Plant site plan | X-Topo Survey new | S-HEADWORKS-PLAN | X-Site |<<--

Last Saved By: cto 7-15-22 12:09pm



PLAN AT ELEVATION 44.50FT

1/4" = 1'-0"

RECORD DRAWING

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

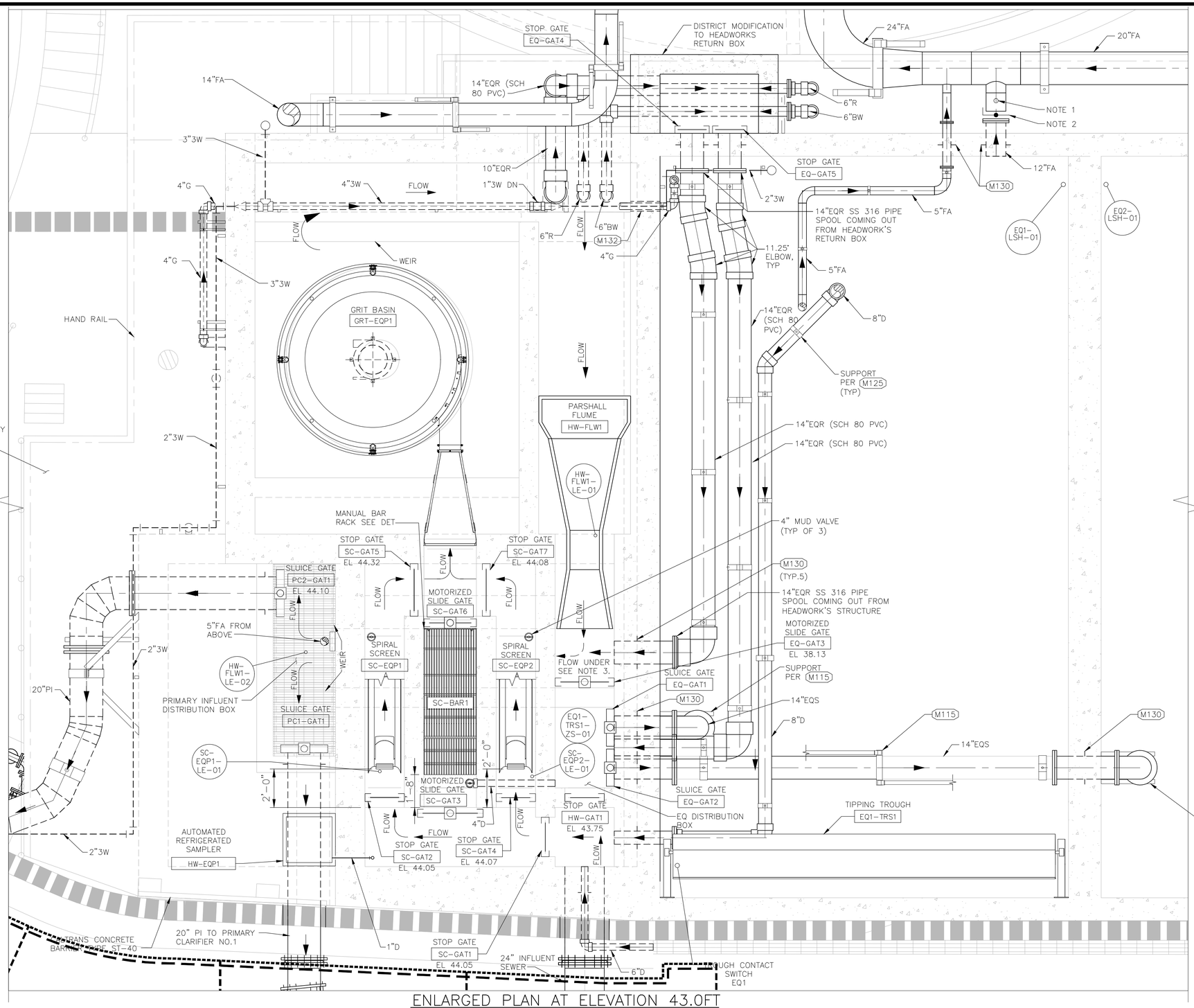
TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS AND EQ BASIN TOP PLAN

DWG NO	M100-5
SHEET NO	128 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 0055-006-M100-5 8-01-22 11:32am cto || XREFS: | X-SMCSD-TBLK | X-SitePlan | X-Treatment Plant site plan | X-Topo Survey new | S-HEADWORKS-PLAN | X-Site |<<--

Last Saved By: cto 5-10-21 01:48pm



NOTES:
1. TEST PORT, ROUTE TO ACCESS OPENING IN PLATFORM ABOVE.
2. PROVIDE OPERATING NUT FOR DAMPER THROUGH OPENING IN PLATFORM.
3. FLOW CONTINUES UNDER THE SCREEN CHANNEL.

ENLARGED PLAN AT ELEVATION 43.0FT

3/8" = 1'-0"

FILENAME: 0055-006-M100-6 8-01-22 11:32am cto || XREFs: | X-SMCSD-TBLK | X-SitePlan | X-Treatment Plant site plan | X-Topo Survey new | S-HEADWORKS-PLAN | X-Site | 0055-006-M100-4 |<<--

Last Saved By: cto 5-10-21 02:09pm

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

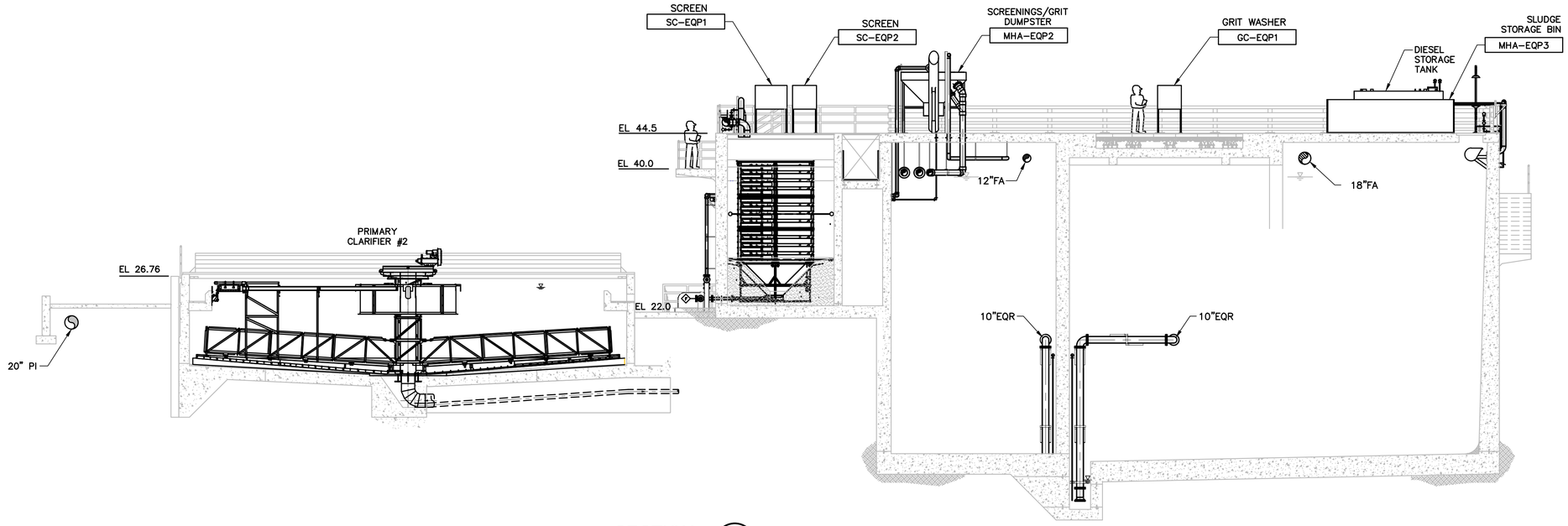
SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS AND EQ BASIN ENLARGED PLAN AT EL 43.00

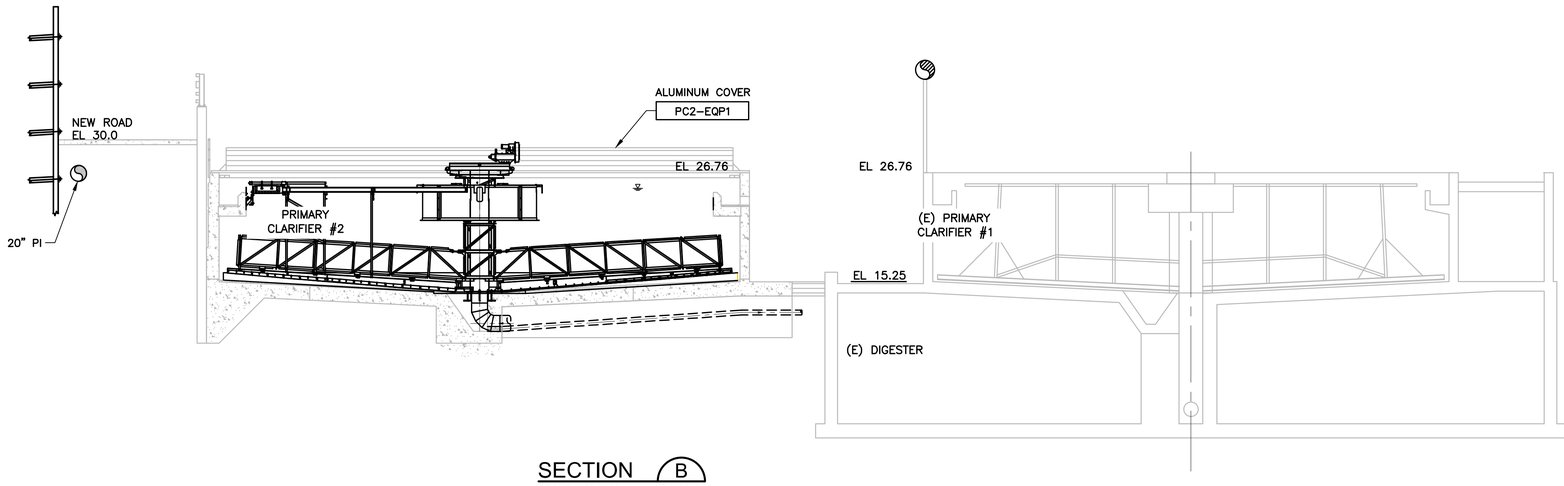
DWG NO M100-6
SHEET NO 129 OF 226
PROJ NO 055-006
DATE JULY 2022



SECTION A
SCALE: 1/8"=1'-0" M100-1

NOTES:

1. NOT ALL BURIED PIPING SHOWN FOR CLARITY.



SECTION B
SCALE: 1/8"=1'-0" M100-1

RECORD DRAWING
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0" — 1"
VERIFY SCALES
BAR IS ONE INCH
LONG ON FULL
SIZE DRAWING.
IF NOT ONE INCH
LONG ON THIS
DRAWING, ADJUST
SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO
RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY
RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

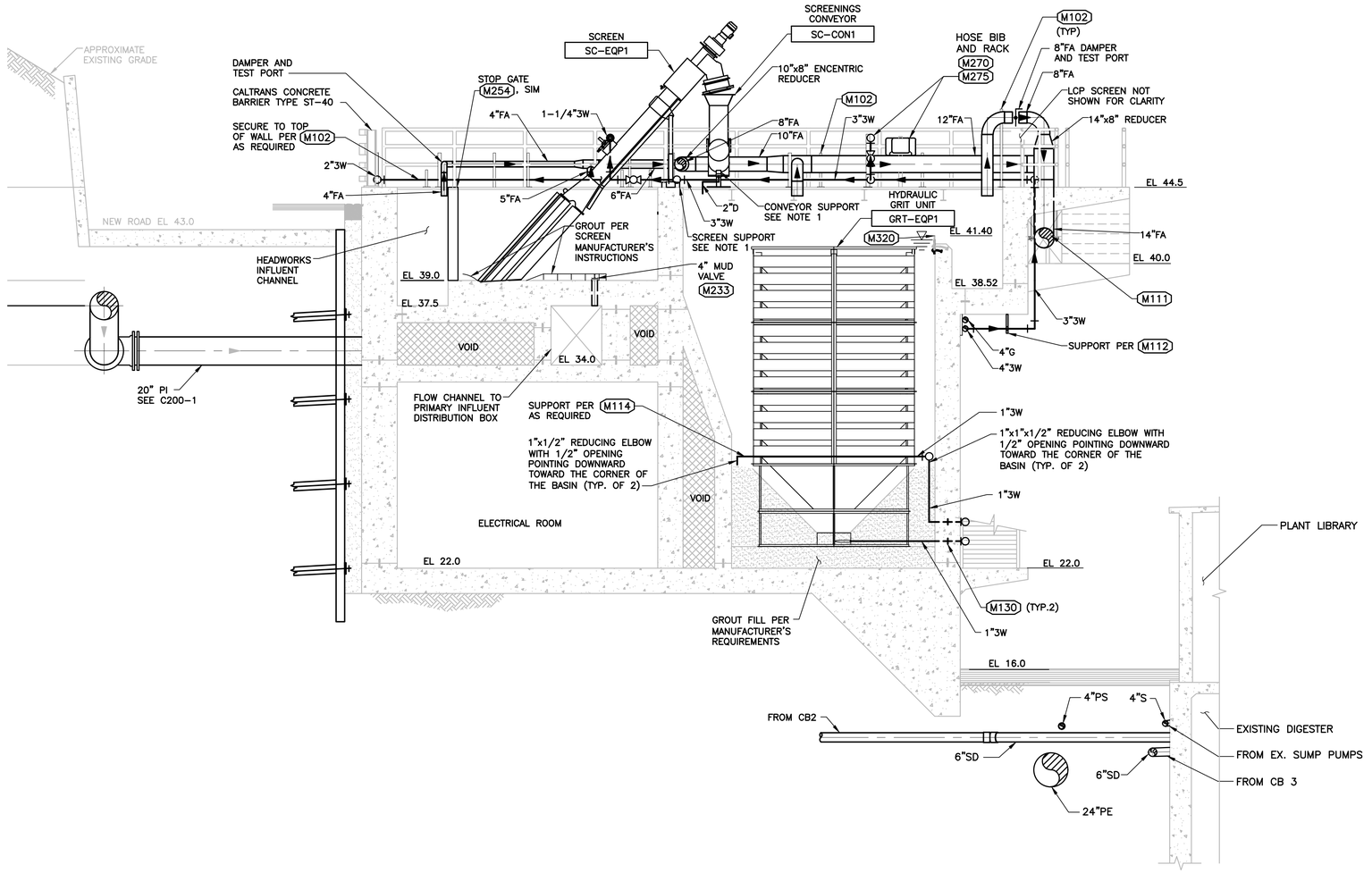
HEADWORKS/PRIMARY
SECTION 1

DWG NO M100-7
SHEET NO 130 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-7 | 8-01-22 11:33am cto | XREFS: | X-SMCSD-TBLK | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-SECT | X-Treatment Plant site plan | S-TANK-SECT |<<--

Last Saved By: cto 5-10-21 02:11pm

NOTES:
1. CONTRACTOR SHALL COORDINATE AND CONFIRM ALL EQUIPMENT DIMENSIONS, CONNECTIONS, AND INSTALLATION REQUIREMENTS.



SECTION C
SCALE: 1/4"=1'-0" M100-3

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

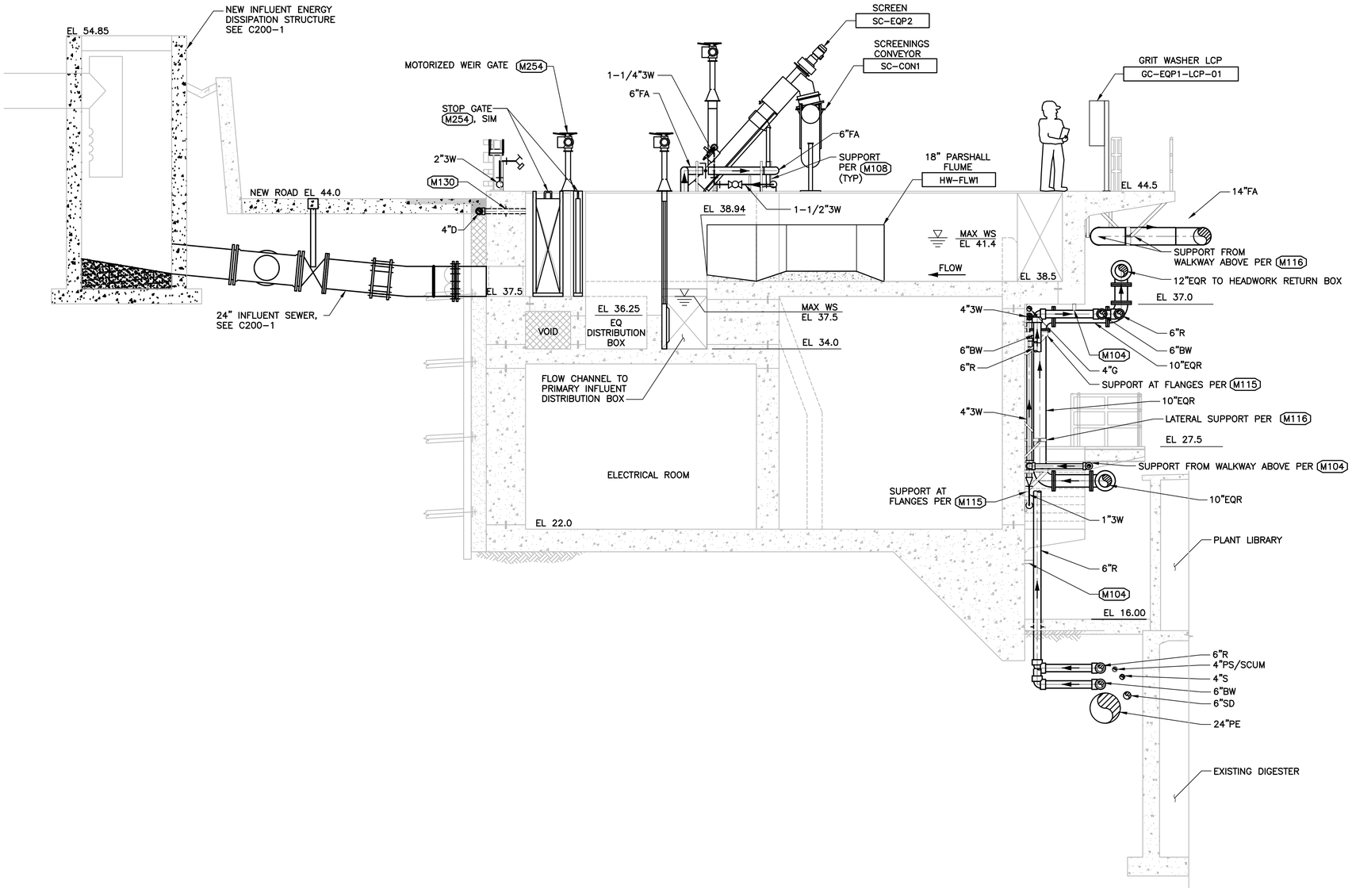
HEADWORKS SECTION 1

DWG NO M100-8
SHEET NO 131 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-8 8-01-22 11:34am cto || XREFS: X-SMCSD-TBLK | X-Headworks Sections | S-HEADWORKS-SECT | 0055-006-M100-5 | X-SitePlan | 0055-006-M100-4 | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:11pm

NOTES:
1. CONTRACTOR SHALL COORDINATE AND CONFIRM ALL EQUIPMENT DIMENSIONS, CONNECTIONS, AND INSTALLATION REQUIREMENTS.
2. PIPE SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 15006.
3. BURIED PIPELINES LOCATED BETWEEN THE EXISTING DIGESTER AND NEW EQ STRUCTURE SHALL BE BACKFILLED WITH CLSM.



SECTION D
SCALE: 1/4"=1'-0" M100-3

RECORD DRAWING
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0" — 1" VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

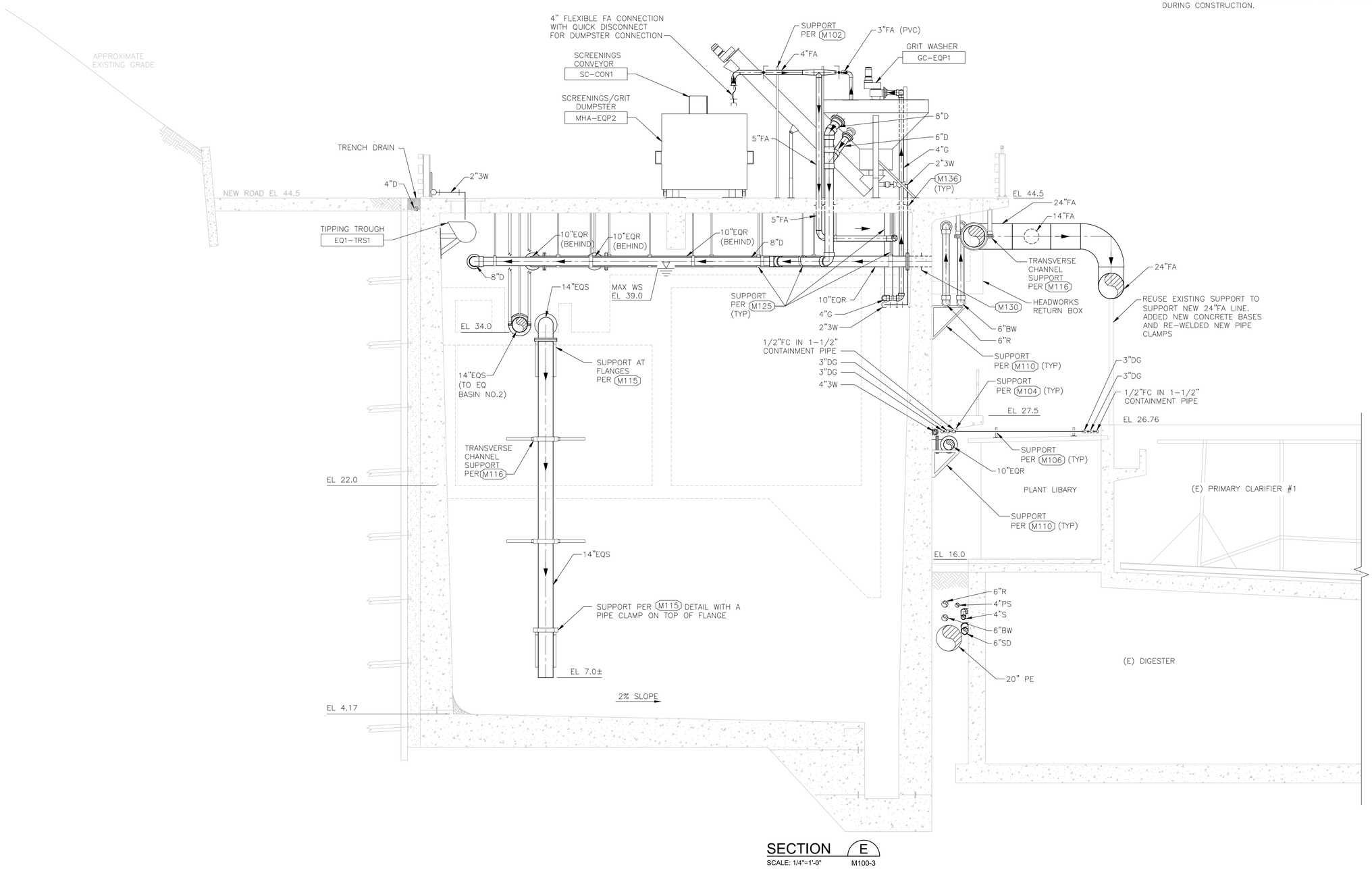
HEADWORKS SECTION 2

DWG NO M100-9
SHEET NO 132 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-9 8-01-22 11:34am cto | XREFS: | X-SMCSD-TBLK | S-HEADWORKS-SECT | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:11pm

NOTES:
1. CONTRACTOR SHALL COORDINATE AND CONFIRM ALL EQUIPMENT DIMENSIONS, CONNECTIONS, AND INSTALLATION REQUIREMENTS.
2. PIPE SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 15006.
3. BURIED PIPELINES LOCATED BETWEEN THE EXISTING DIGESTER AND NEW EQ STRUCTURE SHALL BE BACKFILLED WITH CLSM.
4. CONTRACTOR SHALL PROTECT THE EXISTING DIGESTER IN PLACE AND SHALL PREVENT UNDERMINING OF THE EXISTING STRUCTURE DURING CONSTRUCTION.



SECTION E
SCALE: 1/4"=1'-0" M100-3

RECORD DRAWING
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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

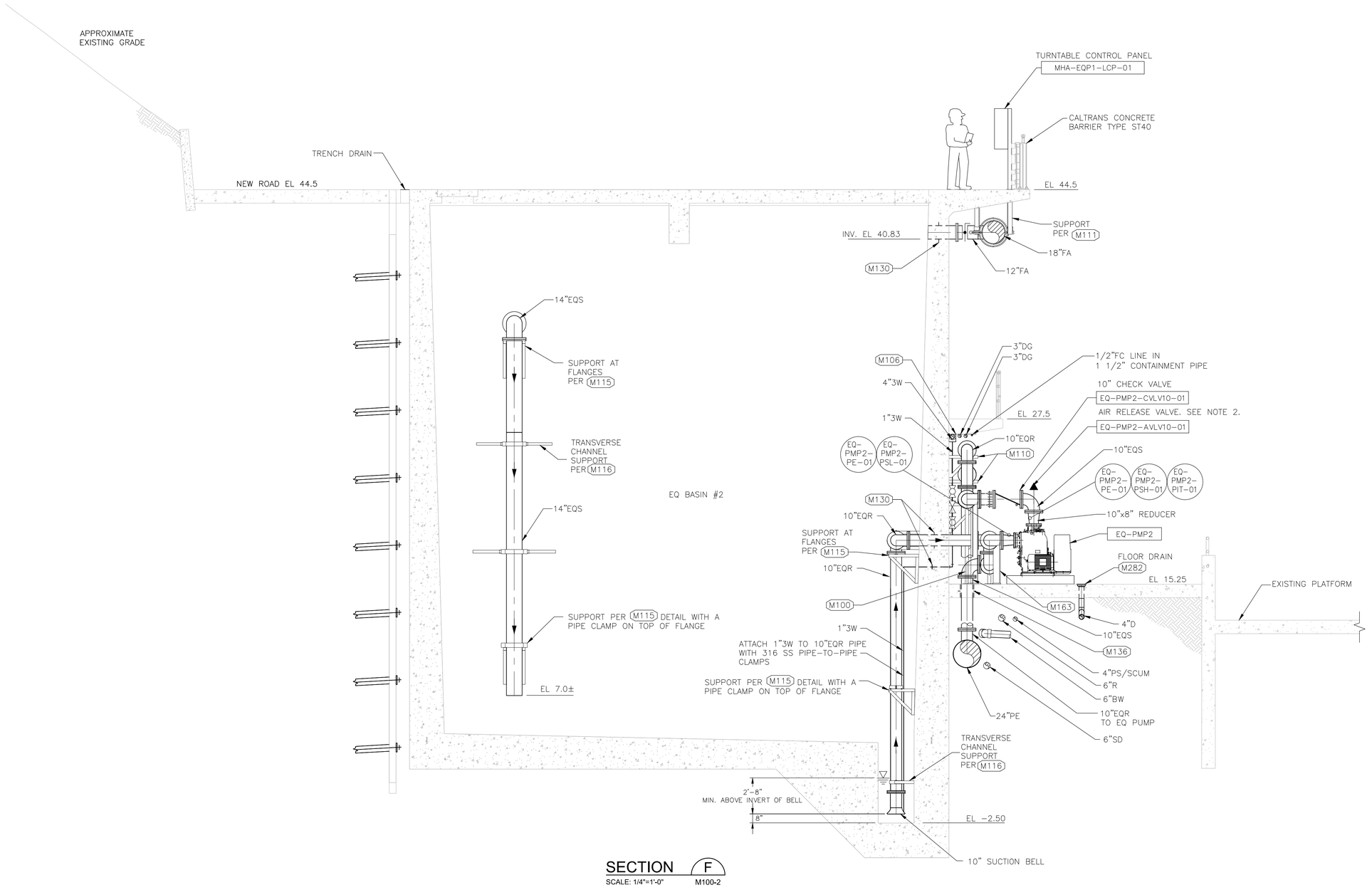
HEADWORKS
SECTION 3

DWG NO	M100-10
SHEET NO	133 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 0055-006-M100-10 8-01-22 11:35am cto | XREFS: | X-SMCSD-TBLK | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-SECT | S-HEADWORKS-PLAN | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:12pm

NOTES:
1. CONTRACTOR SHALL COORDINATE AND CONFIRM ALL EQUIPMENT DIMENSIONS, CONNECTIONS, AND INSTALLATION REQUIREMENTS.
2. AIR RELEASE VALVES SHALL BE PROVIDE AND INSTALLED IN ACCORDANCE WITH THE PUMP MANUFACTURER'S REQUIREMENTS.



SECTION F
SCALE: 1/4"=1'-0" M100-2

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO
RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY
RMC ENGINEER CE-30318

SAUSALITO • MARIN CITY SANITARY DISTRICT

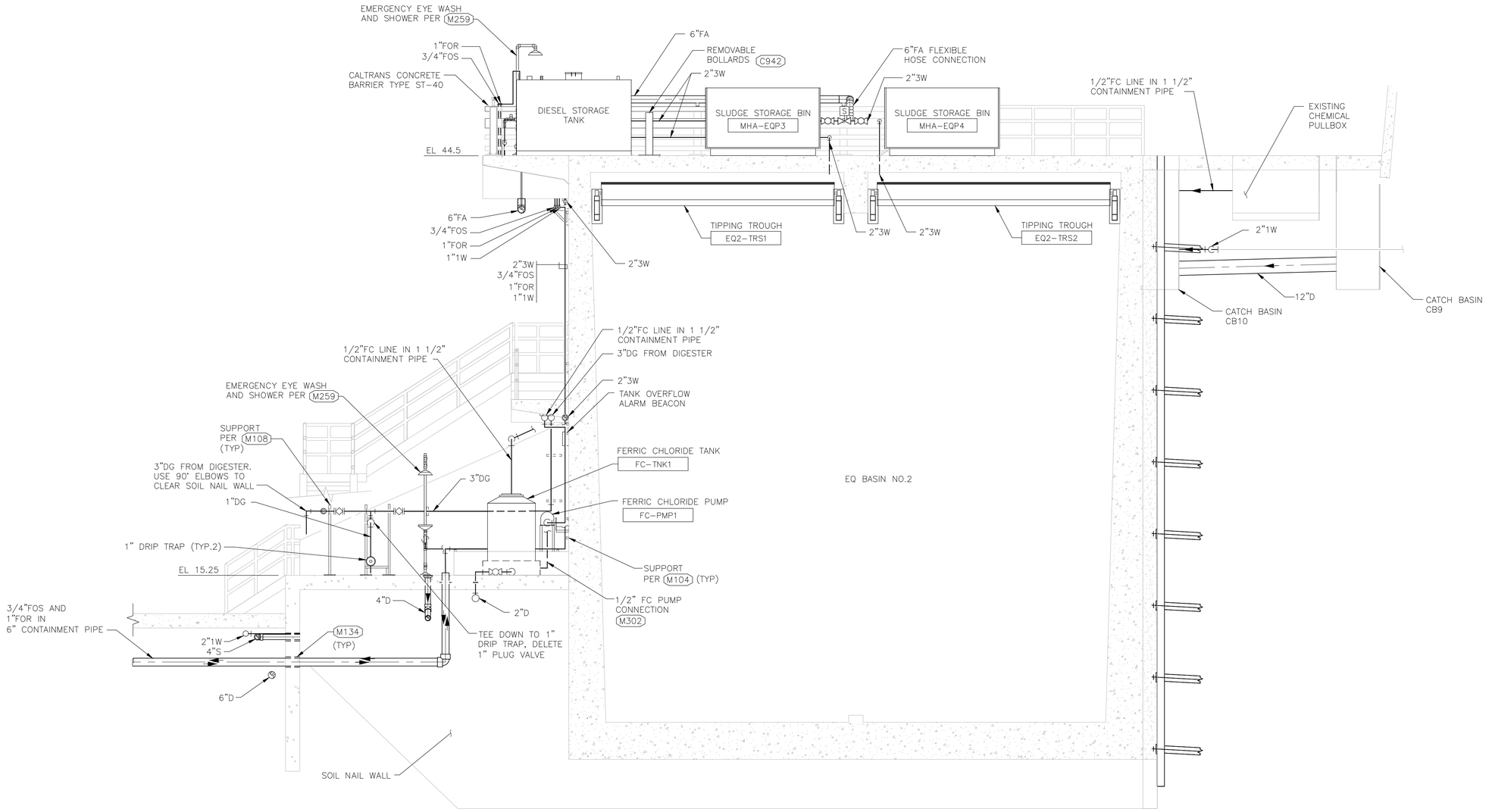
TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS
SECTION 4

DWG NO M100-11
SHEET NO 134 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-11 | 8-01-22 11:35am cto | XREFS: X-SMCSD-TBLK | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-PLAN | S-HEADWORKS-SECT | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:12pm



SECTION G

SCALE: 1/4"=1'-0" M100-2

RECORD DRAWING

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

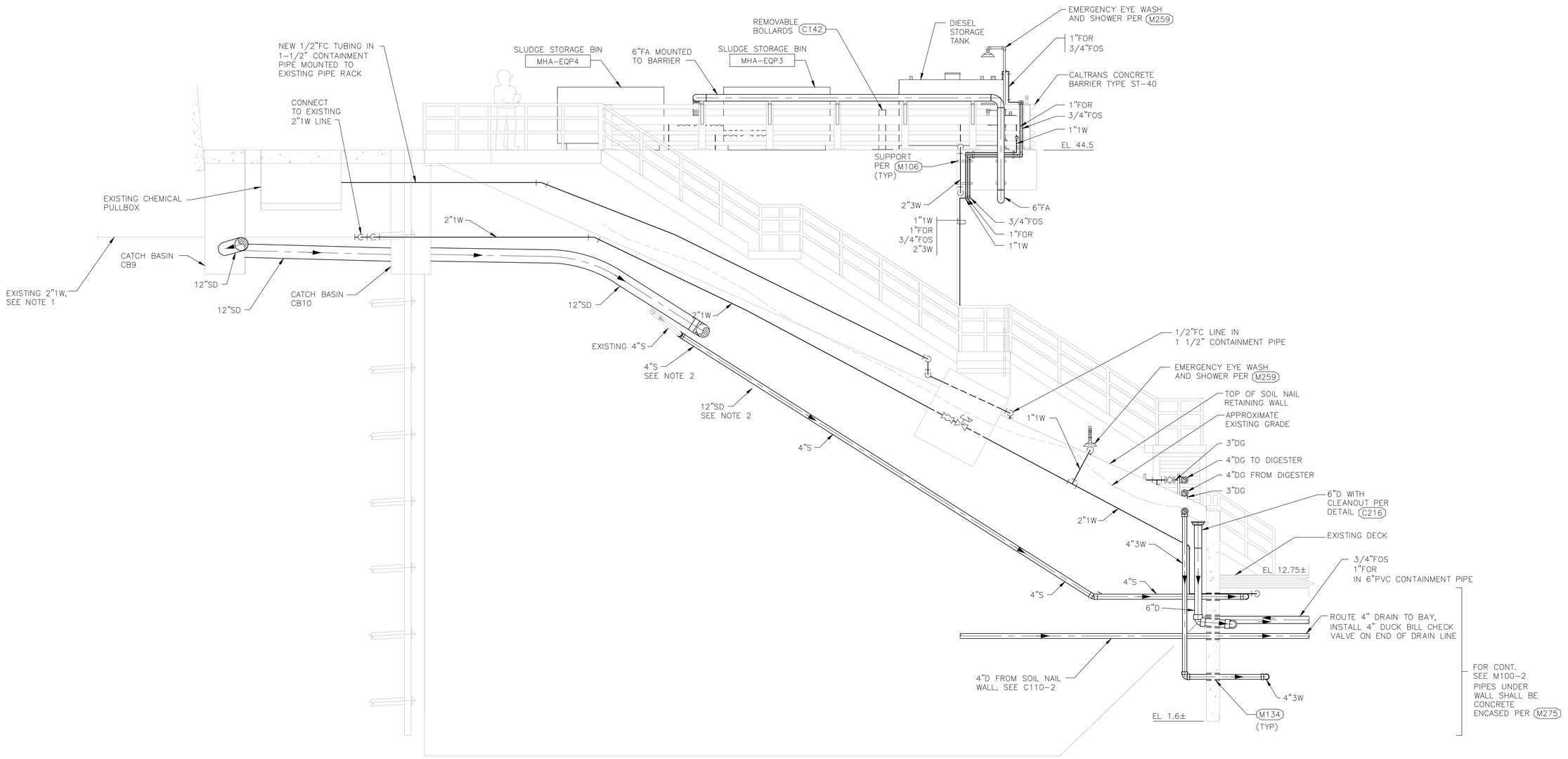
TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS
SECTION 5

DWG NO	M100-12
SHEET NO	135 OF 226
PROJ NO	055-006
DATE	JULY 2022

Last Saved By: cto 5-10-21 02:12pm

NOTES:
1. CONTRACTOR SHALL VERIFY LOCATION IN FIELD.
2. CONTRACTOR SHALL COORDINATE PIPE LOCATION AND ALIGNMENT WITH EXISTING UTILITIES AND THE SOIL NAIL WALL TO AVOID ANY CONFLICTS.



SECTION H
SCALE: 1/4"=1'-0" M100-2

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" — VERIFY SCALES — 1"
BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS
SECTION 6

DWG NO M100-13
SHEET NO 136 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-13 8-01-22 11:37am cto || XREFS|| X-SMCSD-TBLK | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-SECT | SPC Topo Rev#041813 | Structural | X-Treatment Plant site plan |X<--

Last Saved By: cto 5-10-21 02:13pm

EMERGENCY EYE WASH AND SHOWER PER M259
1"FOR
3/4"FOS
DIESEL STORAGE TANK
SLUDGE STORAGE MHA-EQP3
REMOVABLE BOLLARDS C942
TURNTABLE CONTROL PANEL MHA-EQP1-LCP-01
GRIT WASHER GC-EQP1
3"FA
5"FA
GRIT INLET
4"G
SCREENINGS CONVEYOR SC-CON1
GRIT WASHER LCP GC-EQP1-LCP-01
SCREEN LCP SC-EQP1/2-LCP-01
8"FA
M102 (TYP)
12"FA
3"3W
EL 44.5
SUPPORT PER M116
6"D
8"D
14"FA
3/4"FOS
1"FOR
1"1W
2"3W
6"FA
18"FA
6"FA
SUPPORT PER M125 (TYP)
SUPPORT PER M116 (TYP)
SUPPORT PER M111
20"FA
12"FA
5"FA
24"FA
6"BW
6"R (BEHIND)
HEADWORKS RETURN BOX
EL 40.0
2"3W
3/4"FOS
1"FOR
1"1W
1/2"FC LINE IN 1 1/2" CONTAINMENT PIPE
EQ-PMP2-PVLV10-03
EQ-PVLV10-03
EQ-PVLV10-01
EQ-PMP2-PVLV10-01
EQ-PVLV10-02
EQ-PVLV10-04
EQ-PVLV10-05
12"EQR
4"3W
4"G
2"3W
20"PI
TANK OVERFLOW ALARM BEACON
SUPPORT PER M104 (TYP)
10"EQR
EQ-FLW1
3"DG
6"R
6"BW
SUPPORT AT FLANGES PER M115
HOSE BIB AND RACK M270 M275
1"3W
1/2"FC LINE IN 1-1/2" CONTAINMENT PIPE
(2)3"DG
2" VENT M308
FERRIC CHLORIDE PUMP FC-PMP1
FERRIC CHLORIDE TANK FC-TNK1
1-1/2"3W
10"x8" REDUCER
12"x10" REDUCER
SOLENOID VALVE EQ1-SVLV01-01
SOLENOID VALVE EQ2-SVLV01-01
EQ-PMP1-PVLV10-01
EQ-PMP1-PVLV10-03
EQ-PMP2
EQ-PMP1
EQ-PMP2-PVLV10-02
EQ-PMP1-PVLV10-02
M115
M110 (TYP)
M136 (TYP)
EL 27.5
EL 22.0
EL 16.00
GRIT PUMPS
PRIMARY CLARIFIER NO.2
4"HIGH CONCRETE TRANSITION STEP
10"EQR FROM EQ PUMP
10"EQS
10"EQS TO EQ PUMP
3"DG
1"OF
1"1W
1"FOR
3/4"FOS
4"S
12"SD
2"D
EL 15.25±
1"OF M310
FC-TNK1-LE-01
M306
FC-LSH-01
4"PS/SCUM
6"SD
24"PE
4"D FROM BEHIND SOIL NAIL WALL

SECTION 1
SCALE: 1/4"=1'-0" M100-1

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0" 1" — VERIFY SCALES — BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

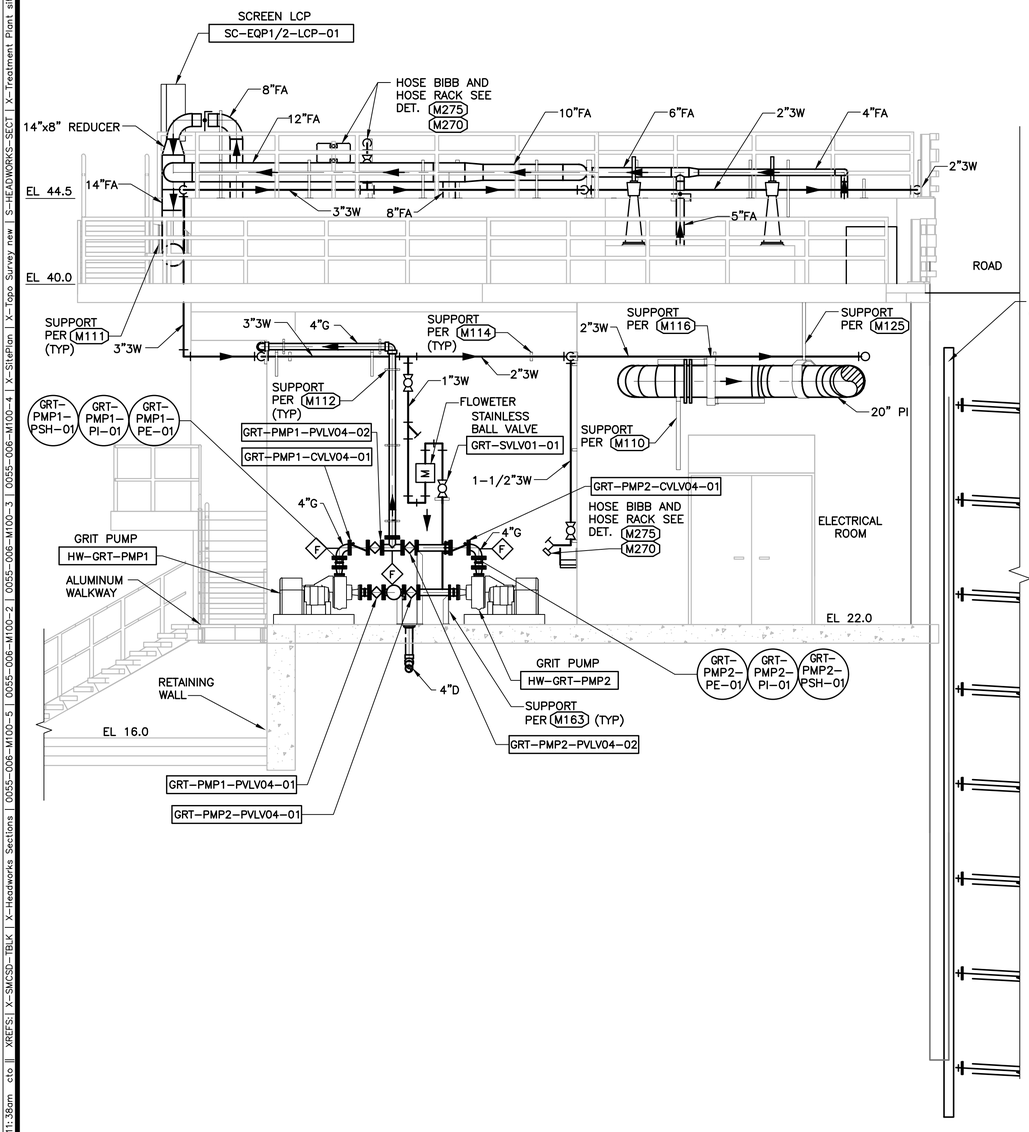
SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

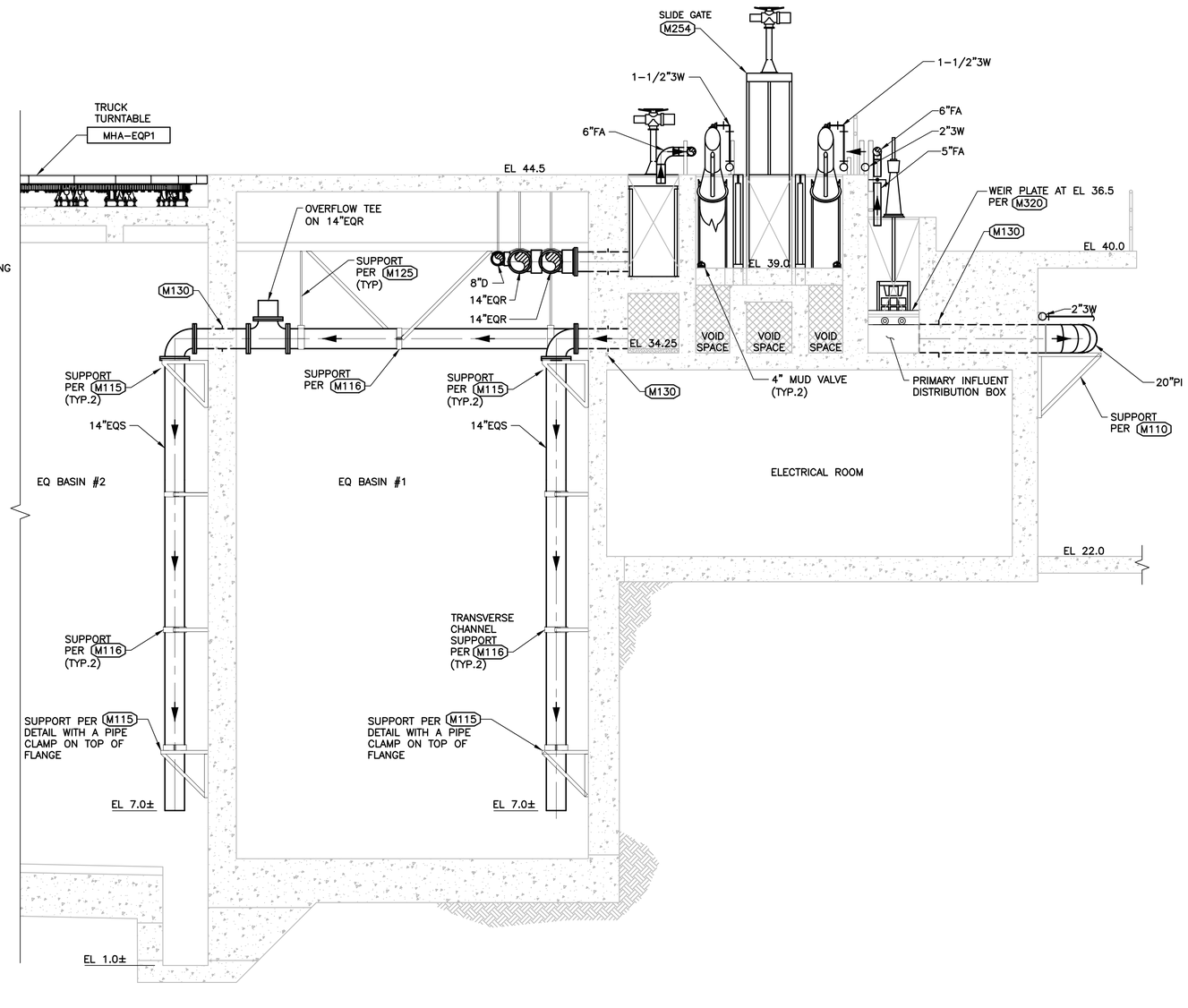
HEADWORKS
SECTION 7

DWG NO M100-14
SHEET NO 137 OF 226
PROJ NO 055-006
DATE JULY 2022

Last Saved By: cto 5-10-21 02:13pm



SECTION J
SCALE: 1/4"=1'-0" M100-3



SECTION K
SCALE: 1/4"=1'-0" M100-3

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

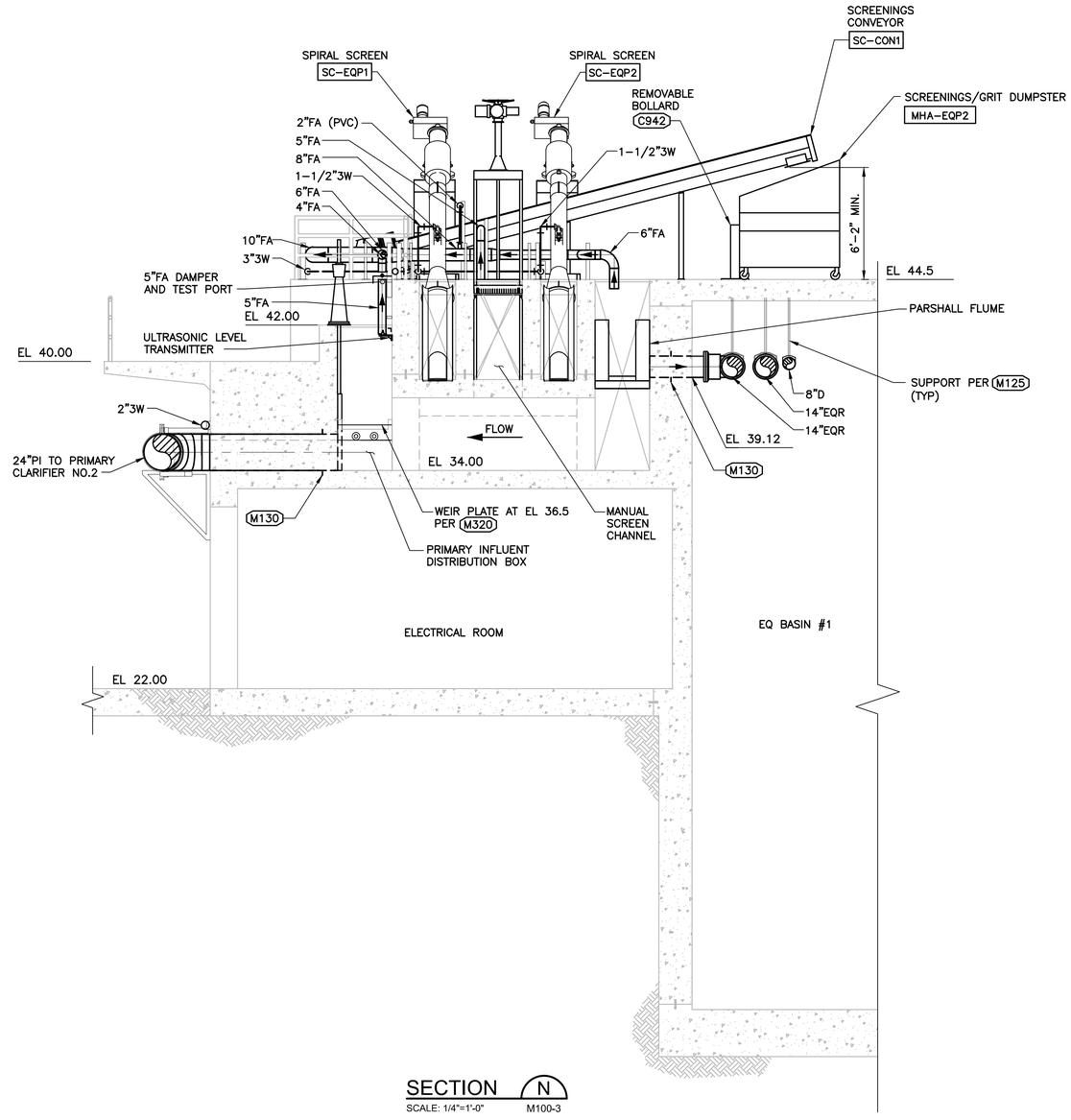
HEADWORKS
SECTION 8

DWG NO M100-15
SHEET NO 138 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 055-006-M100-15 8-01-22 11:38am cto || XREFS: X-SMCSD-TBLK | X-Headworks Sections | 055-006-M100-5 | 055-006-M100-2 | 055-006-M100-3 | 055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-SECT | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:14pm

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DIMENSION, CONNECTIONS AND ALL OTHER REQUIREMENTS TO ENSURE PROPER INSTALLATION AND OPERATION AMONGST ALL EQUIPMENT.



SECTION N
SCALE: 1/4"=1'-0" M100-3

FILENAME: 0055-006-M100-16 8-01-22 11:39am cto | XREFS: | X-SMCSD-TBLK | X-Headworks Sections | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-SECT | S-HEADWORKS-PLAN | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:14pm

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

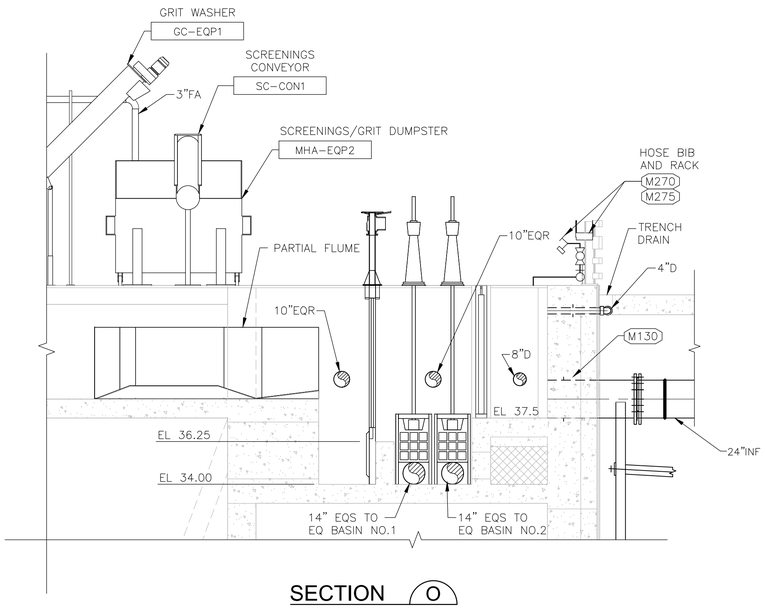
SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

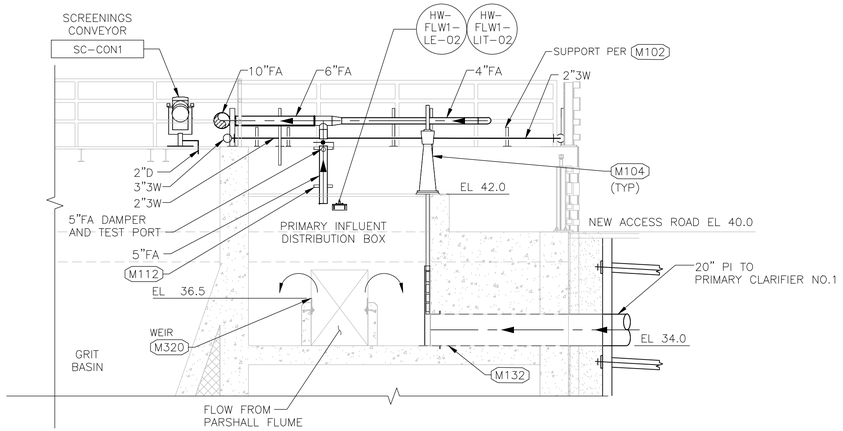
HEADWORKS
SECTION 9

DWG NO M100-16
SHEET NO 139 OF 226
PROJ NO 055-006
DATE JULY 2022



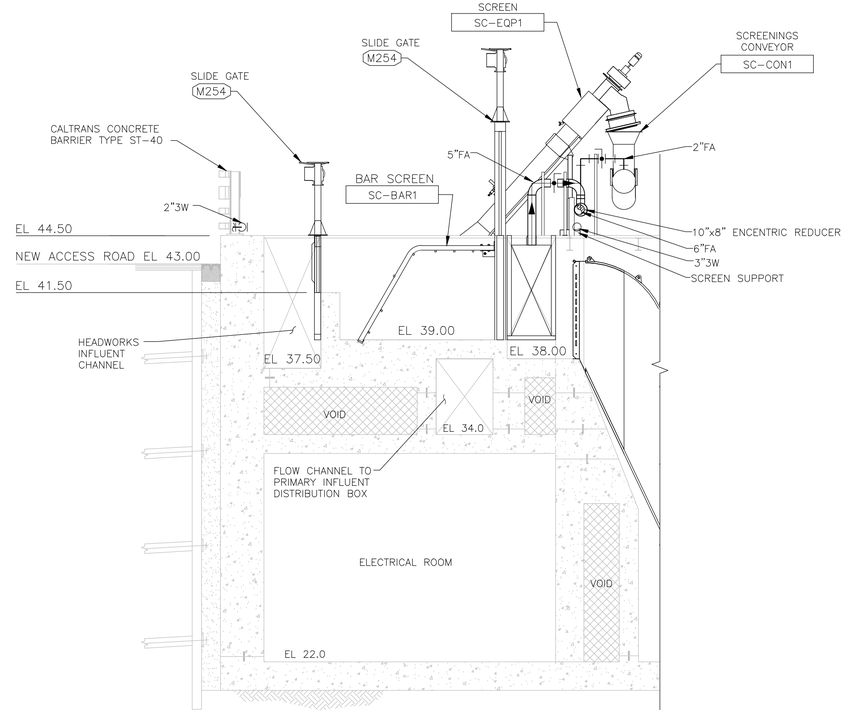
SECTION O

SCALE: 1/4"=1'-0" M100-4



SECTION L

SCALE: 1/4"=1'-0" M100-4



SECTION P

SCALE: 1/2"=1'-0" M100-3

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369

APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

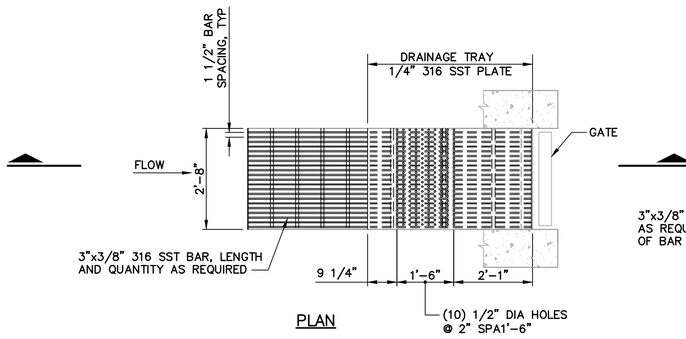
TREATMENT AND WET WEATHER FLOW UPGRADE

HEADWORKS SECTION 10

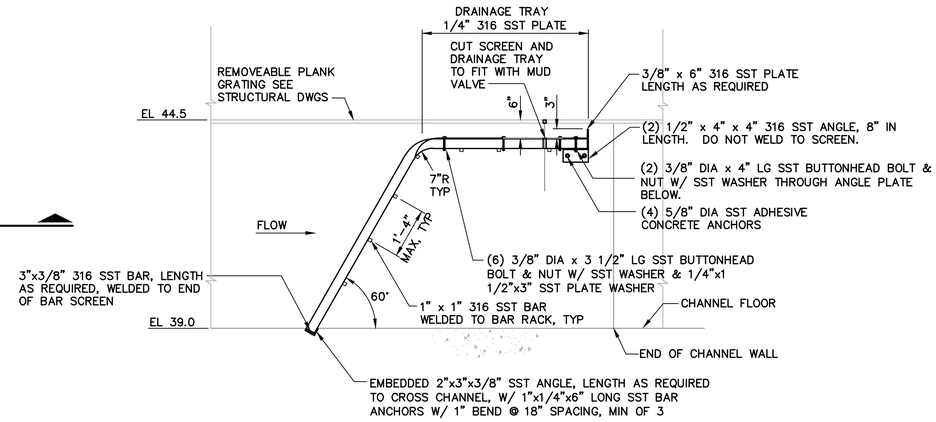
DWG NO	M100-17
SHEET NO	140 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 0055-006-M100-17 8-01-22 11:40am cto || XREFS: X-SMCSD-TBLK | 0055-006-M100-5 | 0055-006-M100-2 | 0055-006-M100-3 | 0055-006-M100-4 | X-SitePlan | X-Topo Survey new | S-HEADWORKS-PLAN | S-HEADWORKS-SECT | X-Headworks Sections | X-Treatment Plant site plan |<<--

Last Saved By: cto 5-10-21 02:14pm



PLAN



SECTION

NOTES:

1. ALL BAR SCREEN PARTS SHALL BE 316 SST.
2. FURNISH (1) ALUMINUM RAKE FOR USE WITH BAR SCREEN.

MANUAL BAR SCREEN 1

1"=1'-0"

RECORD DRAWING

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. JUNG
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

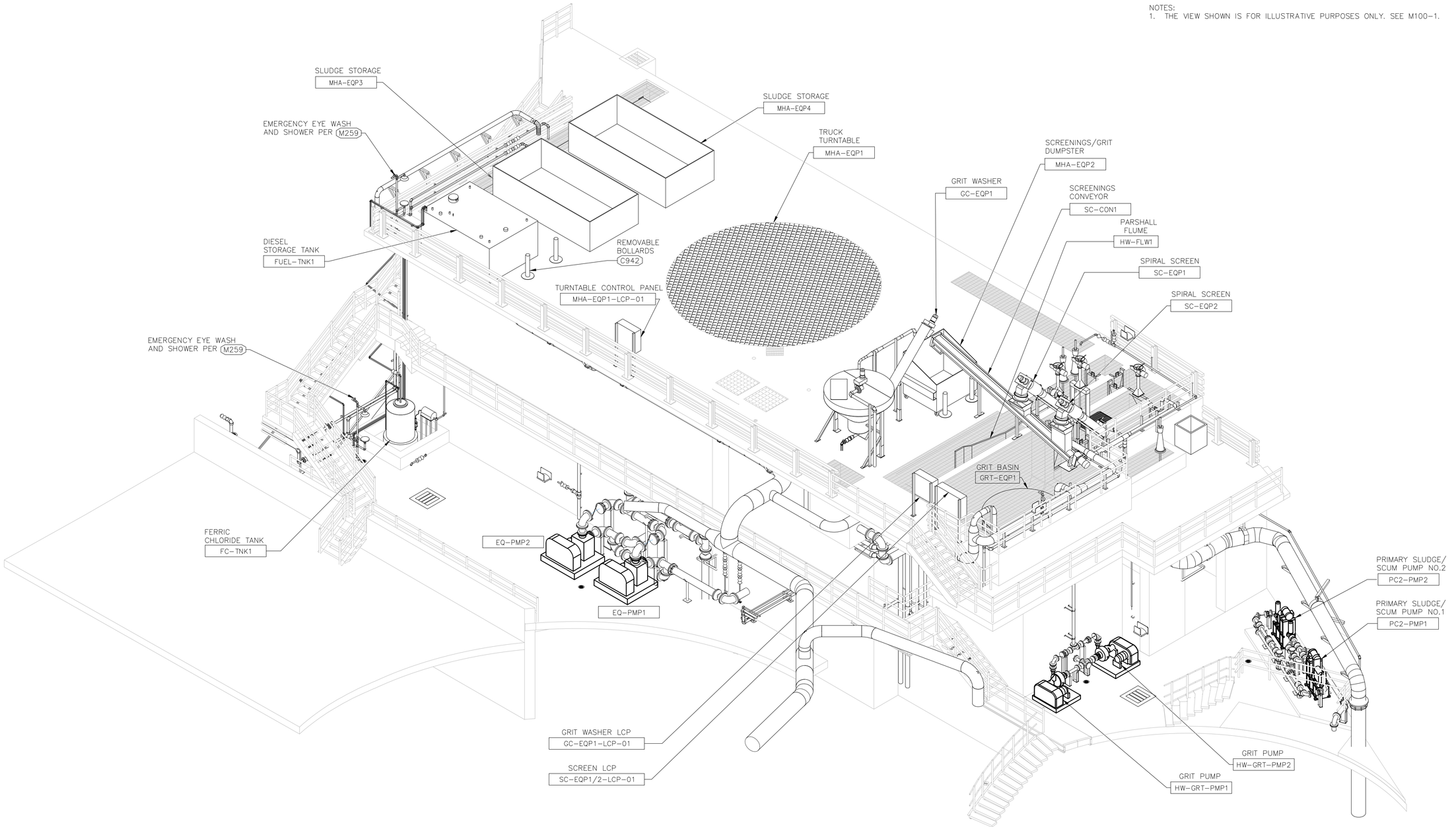
HEADWORKS DETAILS

DWG NO M100-18
SHEET NO 141 OF 226
PROJ NO 055-006
DATE JULY 2022

FILENAME: 0055-006-M100-18 8-01-22 11:40am cto || XREFS:| X-SMCSD-TBLK |<<--

Last Saved By: cto 5-10-21 02:14pm

NOTES:
1. THE VIEW SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. SEE M100-1.



HEADWORKS/EQ STRUCTURE

SCALE: NTS

RECORD DRAWING
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0" — 1"
— VERIFY SCALES —
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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

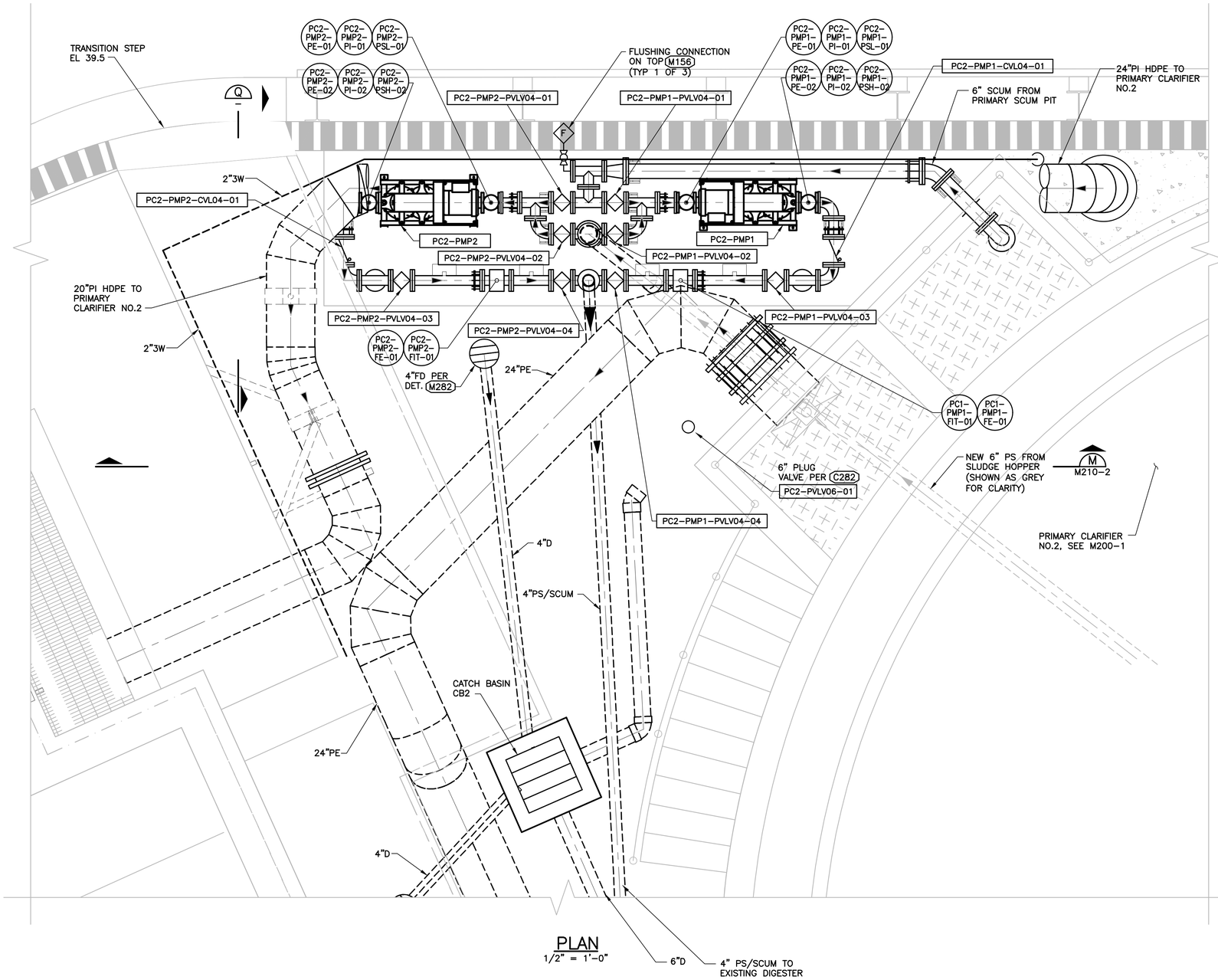
ILLUSTRATIVE ISOMETRIC VIEWS - 1

DWG NO M110-1
SHEET NO 142 OF 226
PROJ NO 055-006
DATE JULY 2022

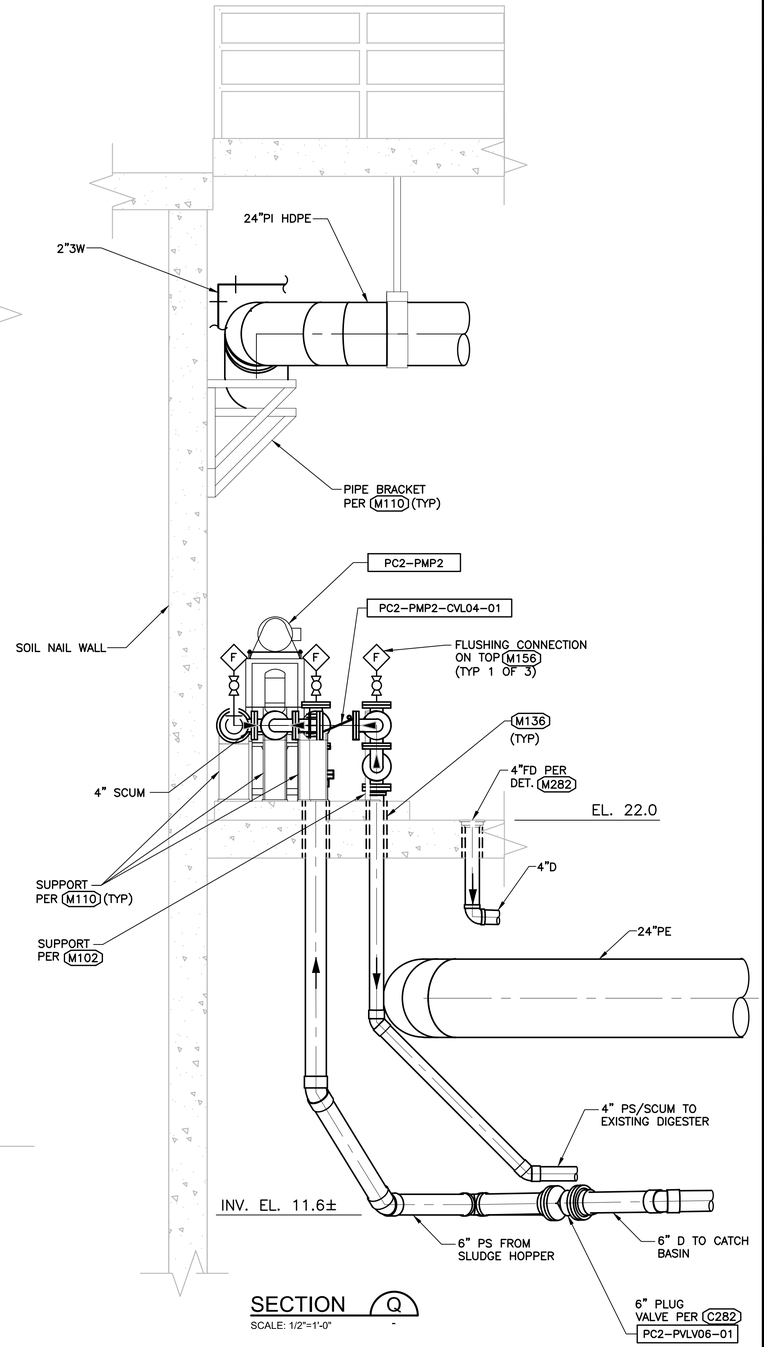
FILENAME: 055-006-M110-1 8-01-22 11:40am cto || XREFS: X-SMCSD-TBLK |<<--

Last Saved By: cto 5-11-21 01:29pm

NOTES:
1. MOUNT OSHA SAFETY SIGN TO EACH SCUM/SLUDGE PUMP GEAR BOX COVER – "WARNING THIS EQUIPMENT STARTS AUTOMATICALLY"



PLAN
1/2" = 1'-0"



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

FILENAME: 0055-006-M210-1 8-01-22 11:42am cto || XREFS: X-SMCSD-TBLK | X-Topo Survey new | X-Site | X-SitePlan | X-Treatment Plant site plan | S-HEADWORKS-PLAN | X-Headworks Sections |<<--

Last Saved By: cto 5-11-21 01:16pm

RECORD DRAWING
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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO
DRAWN S. NGUYEN
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

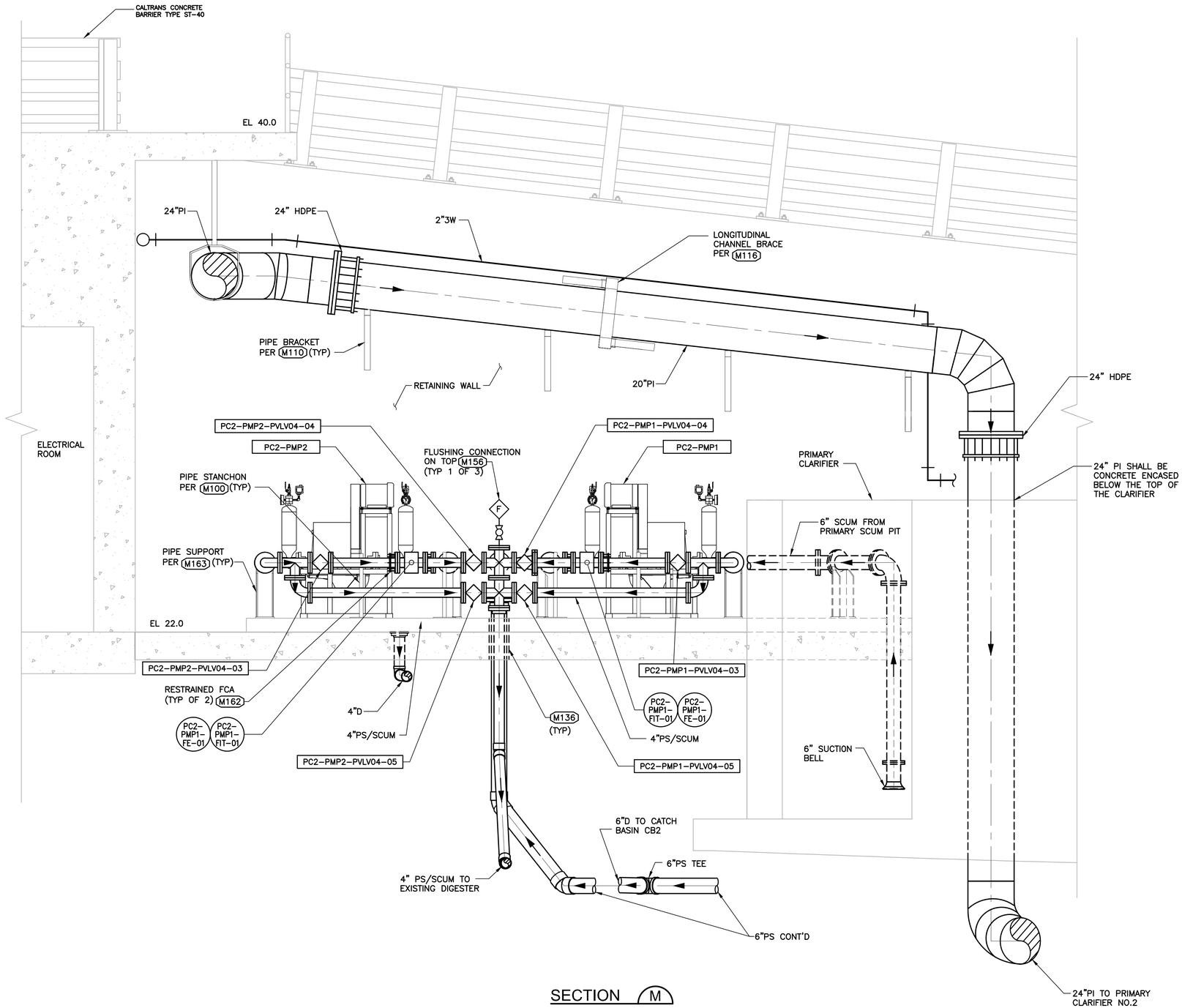
TREATMENT AND WET WEATHER FLOW UPGRADE

PRIMARY SLUDGE/SCUM PUMPS PARTIAL PLAN AND SECTION

DWG NO M210-1
SHEET NO 151 OF 226
PROJ NO 055-006
DATE JULY 2022

NOTE:

1. CONTRACTOR SHALL PROVIDE ALL PIPE SUPPORT AS REQUIRED IN SECTION 15006. SUPPORT ANCHORAGE CALCULATION SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR APPROVAL.



SECTION M
SCALE: 1/2"=1'-0" M210-1

RECORD DRAWING
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

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Woodard & Curran

REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO
DRAWN	S. NGUYEN
CHECKED	M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO, RMC PROJECT ENGINEER CE-64369
APPROVED: STEVE CLARY, RMC ENGINEER CE-30318

SAUSALITO · MARIN CITY SANITARY DISTRICT

TREATMENT AND WET WEATHER FLOW UPGRADE

PRIMARY SLUDGE/SCUM PUMPS PARTIAL PLAN AND SECTION

DWG NO	M210-2
SHEET NO	152 OF 226
PROJ NO	055-006
DATE	JULY 2022

FILENAME: 0055-006-M210-2 8-01-22 11:43am cto || XREFS: X-SMCSD-TBLK | X-Headworks Sections | X-SitePlan |<<--

Last Saved By: cto 5-11-21 01:15pm