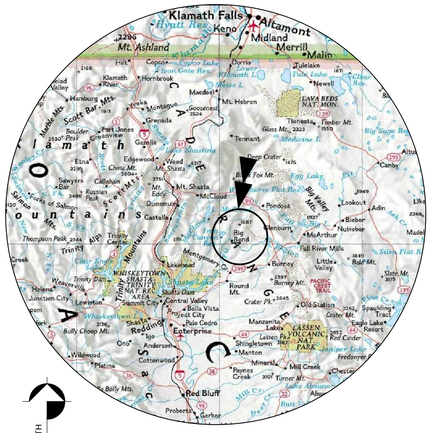
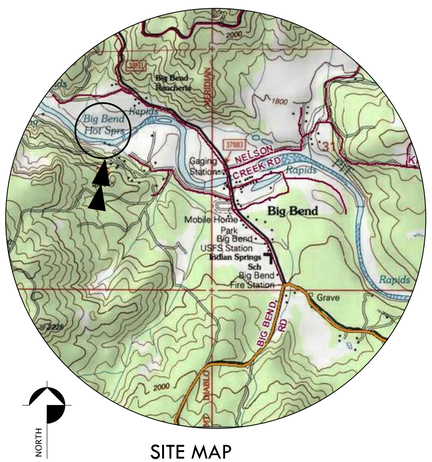
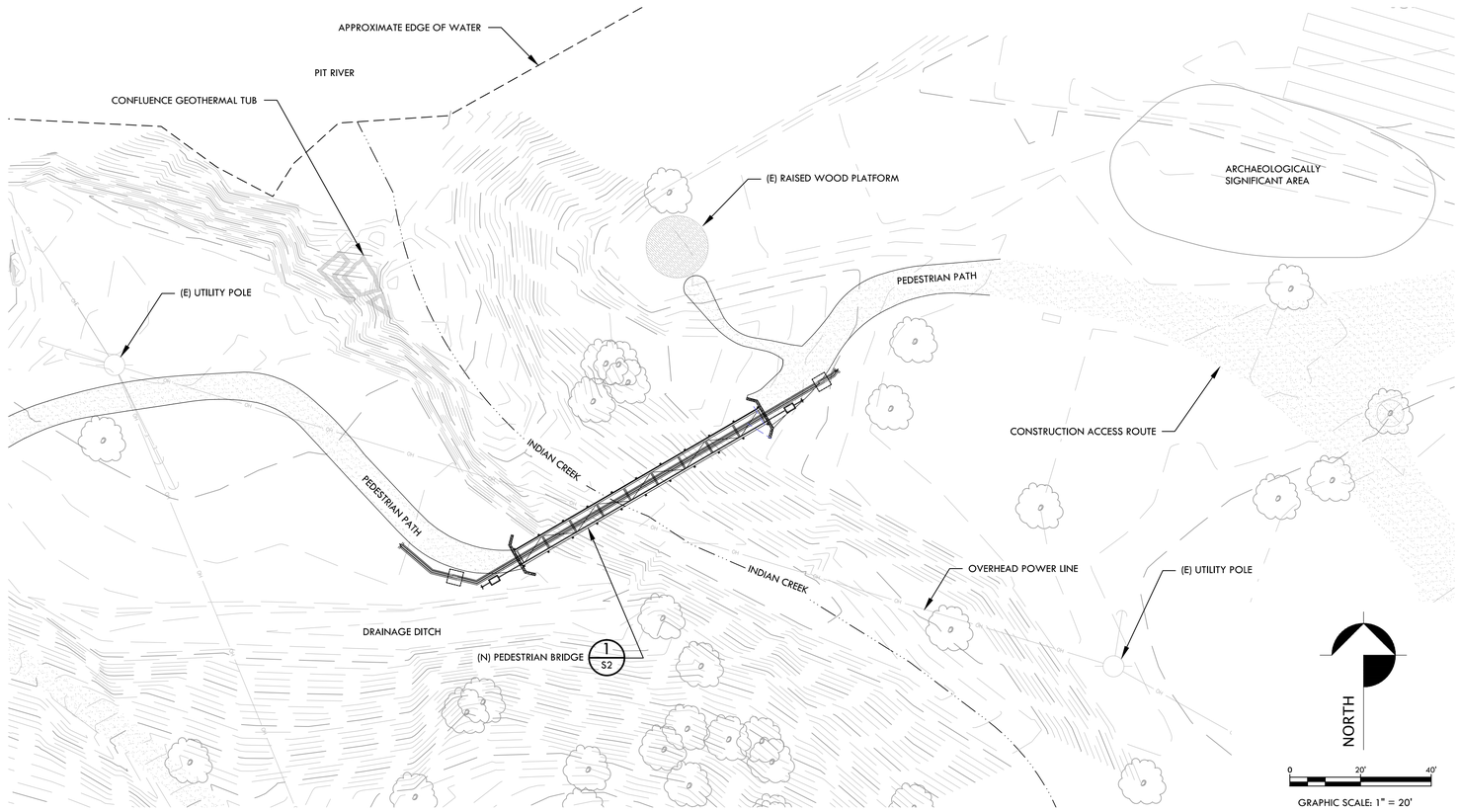
BIG BEND HOT SPRINGS
PEDESTRIAN BRIDGE REPLACEMENT PROJECT



VICINITY MAP
NTS



SITE MAP
NTS



1 SITE IMPROVEMENT PLAN
SCALE" 1" = 20' @ 24" X 36"

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH:

- SHASTA COUNTY DEVELOPMENT STANDARDS (CURRENT EDITION)
- 2013 CALIFORNIA BUILDING CODE (BASED ON THE 2012 EDITION OF THE IBC)
- 2013 CALIFORNIA PLUMBING CODE (BASED ON THE 2012 UPC)
- 2013 CALIFORNIA MECHANICAL CODE (BASED ON THE 2012 UMC)
- 2013 CALIFORNIA ELECTRICAL CODE (BASED ON THE 2012 NEC)
- 2013 CALIFORNIA EXISTING BUILDING CODE
- REGULATIONS OF THE STATE FIRE MARSHAL
- 2013 CALIFORNIA FIRE CODE
- STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 22 DRINKING WATER REGULATIONS, 2013
- AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS
- CALIFORNIA WATER WORKS STANDARDS (CWWS)

2. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OF REGULATIONS WHICH MAY BE APPLICABLE.

3. ANY CHEMICAL, MATERIAL, LUBRICANT, OR PRODUCT USED IN THE PRODUCTION, TREATMENT, OR DISTRIBUTION OF DRINKING WATER SHALL HAVE BEEN TESTED AND CERTIFIED AS MEETING THE SPECIFICATIONS OF AMERICAN NATIONAL STANDARD INSTITUTE/NSF INTERNATIONAL (ANSI/NSF) 61-2005/ADDENDUM 1.0-2006 (DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS) OR A MORE RECENT VERSION OF ANSI/NSF 61.

4. ANY ADDITIVE MUST BE CERTIFIED UNDER ANSI/NSF 60 STANDARD.

5. NOTIFY SHASTA COUNTY FOR INSPECTION AT LEAST 24 HOURS BEFORE COVERING ANY EXCAVATION.

7. ALL NEW WATER SYSTEM CONSTRUCTION SHALL BE DISINFECTED PER CWWS.

8. APPROVAL BY STATE MUST BE GRANTED PRIOR TO USE OF WATER FOR DOMESTIC PURPOSES.

PROJECT CONTACTS

CLIENT
BIG BEND HOT SPRINGS (BBHS)
25322 HEALTH WAY,
BIG BEND, CA 96011
PHONE: 530-337-6155
CONTACT: BROOK LEAF

CIVIL ENGINEER
FALL CREEK ENGINEERING, INC.
1525 SEABRIGHT AVENUE
SANTA CRUZ, CA 95062
PHONE: 831-426-9054
CONTACT: PETER HAASE, P.E.
PRINCIPAL ENGINEER

STRUCTURAL ENGINEER
STREETER GROUP, INC.
2571 MAIN STREET, SUITE C
SOQUEL, CA 95073
PHONE: 831-477-1781
CONTACT: BRAD STREETER, P.E.
PRINCIPAL ENGINEER

GENERAL NOTES

PROJECT SCOPE
REPLACE EXISTING PEDESTRIAN BRIDGE WITH NEW LARGER STEEL VERSION.
1. GRADE APPROACHES AND PROTECT RIPARIAN ENVIRONMENT DURING CONSTRUCTION.
2. INSTALL NEW BRIDGE AND REMOVE OLD BRIDGE AND MOVE TO A LOCATION SPECIFIED BY BBHS.
3. INSTALL UTILITY CHASE ALONG UNDERSIDE OF BRIDGE AND INSTALL THE FOLLOWING LENGTHS OF PIPE:

- 240' OF 4" Ø INSULATED DRINKING WATER LINES
- 240' OF 3" Ø INSULATED GEOTHERMAL HOT WATER LINES
- 120' OF 3" Ø GEOTHERMAL DISCHARGE LINE
- 400' OF 2" Ø ELECTRICAL/COMMUNICATIONS LINES

SURVEY
CONTOURS BASED ON OCT 2012 SITE SURVEY BY NORTH STAR CIVIL ENGINEERS AND SURVEYORS, CHICO CA.

TECHNICAL REFERENCES
1. GEOTECHNICAL REPORT, BIG BEND HOT SPRINGS PROJECT, BIG BEND, SHASTA COUNTY, CA, BY CGI TECHNICAL SERVICES, INC. OCTOBER 2011.
2. GEOTECHNICAL LETTER, WATER STORAGE SYSTEMS. BIG BEND HOT SPRINGS PROJECT, BIG BEND, SHASTA COUNTY, CA, BY CGI TECHNICAL SERVICES, INC. NOVEMBER 2012.

SHEET INDEX

SHEET TITLE:
COVER AND SITE IMPROVEMENTPLAN

CLIENT:
BIG BEND HOT SPRINGS
COMMUNITY RETREAT
ATTN: SEABROOK LEAF
25322 HEALTH WAY
BIG BEND, CA

PROJECT TITLE:
BRIDGE REPLACEMENT PROJECT
BIG BEND HOT SPRINGS
25322 HOTSPRINGS ROAD
BIG BEND, CA 96011

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1525 SEABRIGHT AVENUE
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REGISTERED PROFESSIONAL ENGINEER
PETER H. HAASE
NO. 055605
EXP. 12/31/16
CIVIL
STATE OF CALIFORNIA

DRAWN BY:	ASH
CHECKED BY:	ACC
DATE:	APRIL 12, 2016
JOB NO:	21030
SCALE:	AS SHOWN
SHEET:	1.0

24"X36" SHEET. IF SHEET SIZE IS SMALLER, DRAWING HAS BEEN REDUCED.

VALVES AND FITTINGS

- AIR RELIEF VALVE
- AIR/VACUUM RELIEF VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BACKFLOW PREVENTION ASSEMBLY (DUAL CHECK)
- BACKFLOW PREVENTION ASSEMBLY (RPZ)
- CHECK VALVE
- CHECK VALVE (BALL)
- CHECK VALVE (DOUBLE LEAF)
- CLEANOUT
- DIAPHRAGM VALVE
- FIRE HYDRANT
- FIRE HYDRANT (WHARF STYLE)
- FLEXIBLE COUPLING
- FLOAT VALVE
- FOUR WAY VALVE
- GATE VALVE/GENERIC VALVE
- HOSE BIB/SAMPLE PORT
- FLOW METER
- 6"ø NOMINAL PIPE DIAMETER IN INCHES
- PIPE REDUCER
- PRESSURE RELIEF VALVE
- PRESSURE REGULATING VALVE
- STRAINER
- THREE WAY VALVE
- UNION
- ULTRASONIC LEVEL SENSOR
- WATER SUPPLY WELL
- ABANDONED WELL
- BLOWOFF ASSEMBLY
- CAPPED PIPE

SWITCH SYMBOLS

- FLOW SWITCH (N.O.)
- FLOW SWITCH (N.C.)
- LEVEL SWITCH (N.O.)
- LEVEL SWITCH (N.C.)
- LIMIT SWITCH (N.O.)
- LIMIT SWITCH (N.C.)
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- PRESSURE SWITCH (N.O.)
- PRESSURE SWITCH (N.C.)
- TEMPERATURE SWITCH (N.O.)
- TEMPERATURE SWITCH (N.C.)
- THERMAL OVERLOAD
- PUSH BUTTON (N.C.)
- PUSH BUTTON (N.O.)

MISCELLANEOUS

- INTERLOCK
- RESET FOR LATCH-TYPE OPERATOR
- ANNUNCIATOR HORN
- GROUND
- INSTRUMENT LOOP SHIELD GROUND
- BOND
- INDICATOR LIGHT
- FLOW ARROW
- RADIO/ANTENNAE
- DOOR SWITCH
- TELEPHONE POLE

DRAWING NOTATIONS

1 / C2.1 — 1: DETAIL NUMBER; C2.1: SHEET WHERE DETAIL IS SHOWN

ABBREVIATIONS

ADA	AMERICAN DISIBILITIES ACT
AV	ACTUATED VALVE
ARV	AIR RELIEF VALVE
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AWG	AMERICAN WIRE GAUGE
BW	BACKWASH
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
BVCS	BEGINNING OF VERTICAL CURVE STATION
BOC	BOTTOM OF CURB
BOW	BOTTOM OF WALL
BDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUTS
C	CONDUIT
C.O.	CONDUIT ONLY
DG	DECOMPOSED GRANITE
DIA	DIAMETER
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
EL.	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EC	END OF VERTICAL CURVE ELEVATION
ECS	END OF VERTICAL CURVE STATION
EOP	END OF PAVEMENT
(E)	EXISTING
F	FILTER
FMC	FLEXIBLE METALLIC CONDUIT
FM	FLOW METER
FF	FINISHED FLOOR
FG	FINISHED GRADE
GAL	GALLONS
GPM	GALLONS PER MINUTE
GLV	GALVANIZED
HP	HORSEPOWER
HMI	HUMAN MACHINE INTERFACE
LEN	LENGTH
LV	LEVEL SENSOR
LQ	LIQUID SENSOR
MV	MANUAL VALVE
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
NTS	NOT TO SCALE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
ORP	OXIDATION REDUCTION POTENTIAL PROBE
O.C.	ON CENTER
O.D.	OUTER DIAMETER
P	PUMP
PT	PRESSURE TRANSDUCER/TRANSMITTER
PID	PROCESS INSTRUMENTATION DIAGRAM
PPM	PARTS PER MILLION
PS	PRESSURE SWITCH
(P)	PROPOSED
RMC	RIGID METAL CONDUIT
R	REDUCER
SCH	SCHEDULE
SCFH	STANDARD CUBIC FEET PER HOUR
S.F.	SQUARE FEET
SV	SOLENOID VALVE
SD	STORMDRAIN SYSTEM
SS	STAINLESS STEEL
SP	SEEPAGE PIT
SSD	SUBSURFACE DRIP
S	STATION
SWTS	SURFACE WATER TREATMENT SYSTEM
TOC	TOP OF CURB
TOW	TOP OF WALL
TW	TWISTED
TYP	TYPICAL
W	WATER
WW	WASTEWATER
VC	VERTICAL CURVE
UG	UNDERGROUND

VALVE ACTUATORS

- SOLENOID VALVE
- DIAPHRAGM OPERATED VALVE
- MODULATING VALVE
- PISTON OPERATED
- MOTOR OPERATED VALVE

PUMPS AND MOTORS

- GRINDER
- BLOWER OR CENTRIFUGAL FAN
- PUMP (CENTRIFUGAL)
- PUMP (METERING)
- PUMP (PERISTALTIC)
- PUMP (SUBMERSIBLE)
- BLOWER OR COMPRESSOR (ROTARY LOBE)
- VFD VARIABLE FREQ DRIVE (AC)
- VSD VARIABLE SPEED DRIVE (DC)
- MOTOR

LINE SYMBOLS

- INSTRUMENT SUPPLY, PROCESS TAPS
- PNEUMATIC SIGNAL
- ELECTRIC SIGNAL
- CAPILLARY TUBE OR FILLED SYSTEM
- ELECTROMAGNETIC OR SONIC SIGNAL
- SOFTWARE OR DATA LINK
- HYDRAULIC

INSTRUMENTS

- ANALYZER (GENERIC)
- BUBBLER LEVEL SENSOR
- FM FLOW METER WITH INTEGRAL TRANSMITTER
- ROTAMETER
- FLOW METER (GENERIC)
- M MAGNETIC FLOWMETER
- SONIC FLOWMETER (DOPPLER OR TRANSIT TIME)
- POSITIVE DISPLACEMENT METER
- THERMAL MASS FLOW ELEMENT
- PROPELLER, PADDLEWHEEL, OR TURBINE METER
- FLOAT LEVEL ELEMENT
- ULTRASONIC/MICROWAVE LEVEL SENSOR
- LEVEL SENSOR (GENERIC)
- FLOW SENSOR
- LIQUID SENSOR
- PRESSURE TRANSDUCER/TRANSMITTER
- PRESSURE SWITCH

INSTRUMENT LABEL

PT 001 — OUTPUT: FUNCTIONAL IDENTIFICATION CODE; PT: BASIC INSTRUMENT; 001: PROCESS IDENTIFIER; INPUT

FUNCTIONAL IDENTIFICATION

AMP	CURRENT
CL2	CHLORINE ANALYZER
DP	DIFFERENTIAL PRESSURE
FM	FLOW METER
HOA	HAND OFF AUTO
I	INDICATOR (LOCAL DISPLAY)
LV	LEVEL SENSOR
ORP	OXIDATION REDUCTION POTENTIAL
OZ	OZONE
P	PUMP
PS	PUMP SPEED
pH	pH
PT	PRESSURE TRANSDUCER/TRANSMITTER
SV	SOLENOID VALVE
TURB	TURBIDITY
TEMP	TEMPERATURE
X	UNCLASSIFIED

CIVIL LINE TYPES

- PROPERTY LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF GRADING
- STORMDRAIN PIPE
- W — W EXISTING WATER LINE
- W NEW WATER LINE
- E EXISTING ELECTRICAL CONDUIT
- E NEW ELECTRICAL CONDUIT
- OH EXISTING OVERHEAD POWER LINE
- TREE COVER OR DENSE VEG.
- RIVER, STREAM, GULCH, OR CREEK

CIVIL SYMBOLS

- VEGETATION REMOVAL AREA
- STRAW WADDLE
- GRASS
- SAND, DG, DIRT (ROAD, PAD, ETC.)
- UNDISTURBED EARTH
- CONCRETE
- GRAVEL
- PEA GRAVEL
- SOIL CEMENT
- SEED AND MULCH

ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE
- FLUORESCENT SURFACE PENDANT
- J JUNCTION BOX
- S SINGLE POLE SWITCH
- UTILITY POLE

24"x36" SHEET. IF SHEET SIZE IS SMALLER, DRAWING HAS BEEN REDUCED.

SHEET TITLE:
MATERIALS AND ABBREVIATIONS

CLIENT:
BIG BEND HOT SPRINGS
COMMUNITY RETREAT
ATTN: SEABROOK LEAF
25322 HEALTH WAY
BIG BEND, CA

PROJECT TITLE:
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REGISTERED PROFESSIONAL ENGINEER — PETER H. HAASE — NO. 055605 — EXP. 12/31/16 — CIVIL — STATE OF CALIFORNIA

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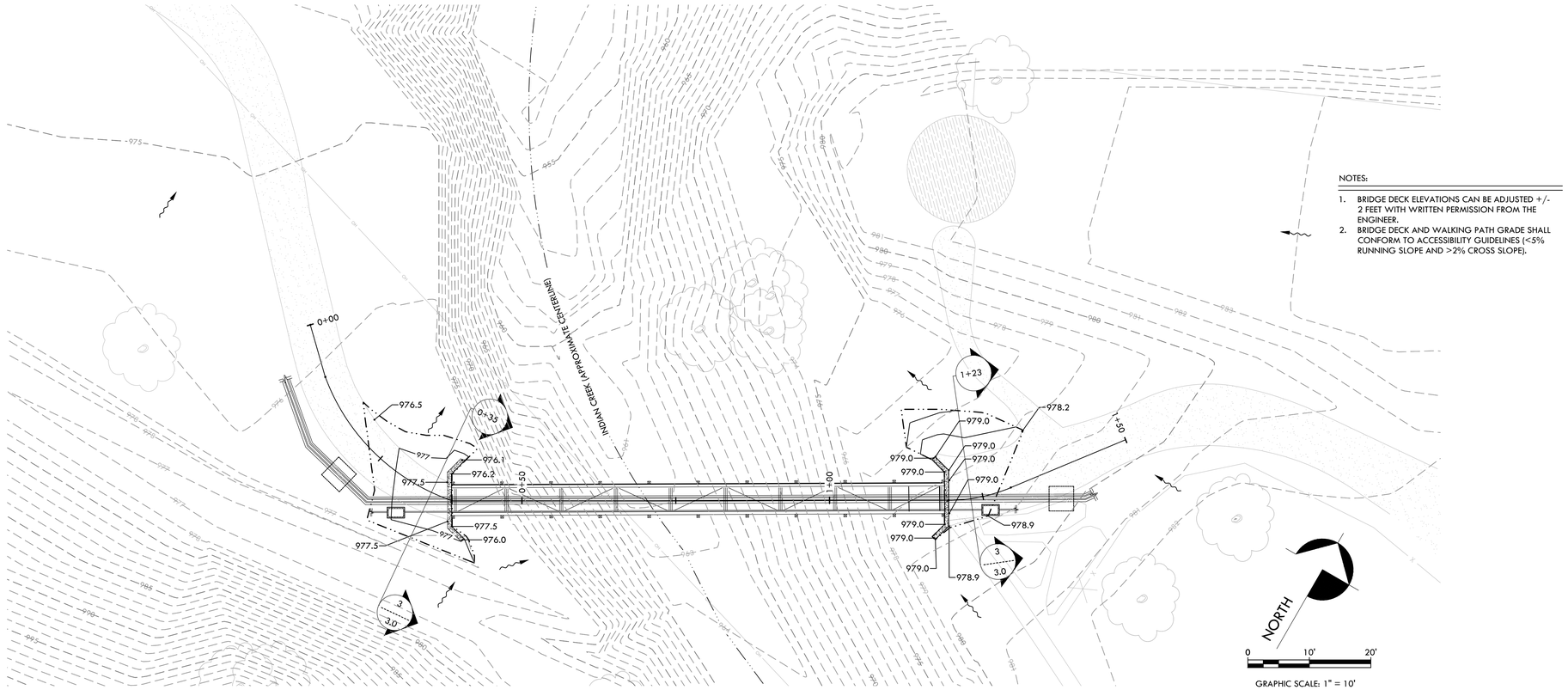
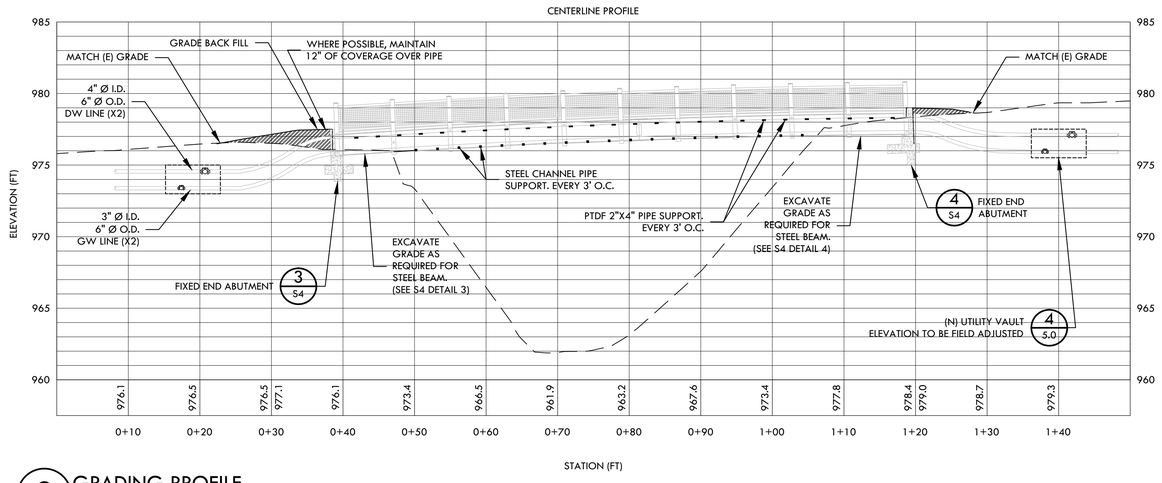
CHECKED BY:	ACC
DATE:	APRIL 12, 2016
JOB NO:	21030
SCALE:	AS SHOWN
SHEET:	2.0



1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 10' @ 24" X 36"

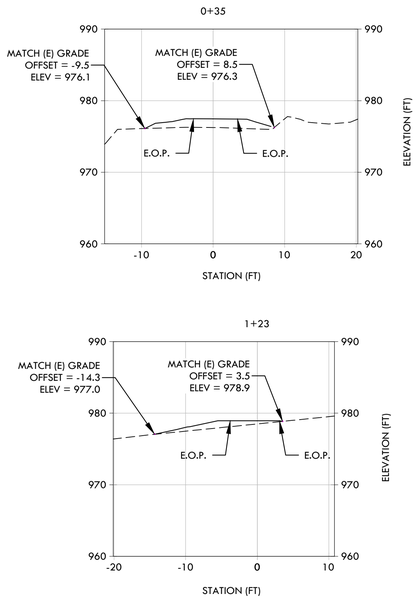


2 GRADING PROFILE

SCALE: 1" = 10' H, 1" = 5' V @ 24" X 36"

0 10' 20'
HORIZONTAL GRAPHIC SCALE: 1" = 10'

0 5' 10'
VERTICAL GRAPHIC SCALE: 1" = 5'



3 GRADING CROSS SECTIONS

SCALE: 1" = 10' @ 24" X 36"

24"x26" SHEET. IF SHEET SIZE IS SMALLER, DRAWING HAS BEEN REDUCED.

SHEET TITLE:
GRADING AND DRAINAGE PLAN

CLIENT:
BIG BEND HOT SPRINGS
COMMUNITY RETREAT
ATTN: SEABROOK LEAF
25322 HEALTH WAY
BIG BEND, CA

PROJECT TITLE:
BRIDGE REPLACEMENT PROJECT
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REGISTERED PROFESSIONAL ENGINEER
PETER H. HEASE
NO. 055605
EXP. 12/31/16
CIVIL
STATE OF CALIFORNIA

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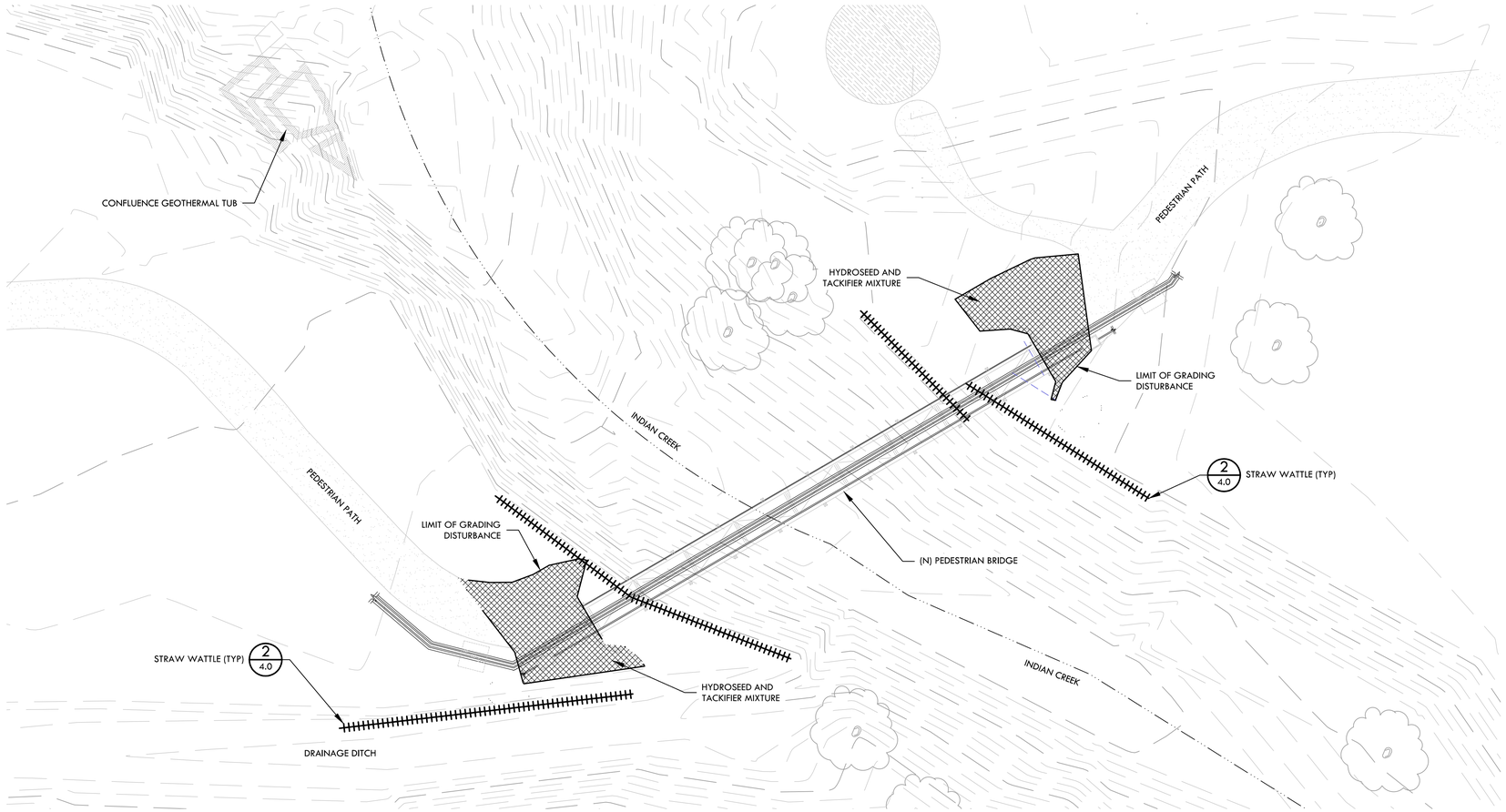


1 PEDESTRIAN BRIDGE EROSION CONTROL PLAN

SCALE" 1" = 10' @ 24" X 36"

NOTES:

1. THE CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT EROSION CONTROL AND TEMPORARY STORMWATER CONTROL MEASURES TO CONTROL SEDIMENT AND RUNOFF IN ACCORDANCE WITH THESE PLANS.
2. ALL EROSION CONTROL AND SOIL CONSERVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE EROSION CONTROL REQUIREMENTS ESTABLISHED BY SHASTA COUNTY.
3. EROSION IS TO BE CONTROLLED AT ALL TIMES IN ORDER TO MINIMIZE SITE DISTURBANCE AND PREVENT ECOSYSTEM DEGRADATION.
4. STRAW WATTLE. STRAW WATTLES (OR FIBER ROLLS) SHALL BE INSTALLED ALONG THE CONTOUR OF THE SLOPE AND PERPENDICULAR TO THE GRADED WATER COURSE TO SLOW RUNOFF VELOCITY AND TRAP SEDIMENT. STRAW WATTLES SHALL BE INSTALLED WHEREVER THE DISTURBED SLOPE IS ADJACENT TO A STREAM OR DRAINAGE COURSE. TRENCH DEPTH SHALL BE ½ TO ½ OF THE THICKNESS OF THE WATTLE, AND THE WIDTH SHALL EQUAL THE WATTLE DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH. WOOD STAKES SHALL BE INSTALLED EVERY FOUR FEET THROUGH THE WATTLE AND THE END SHALL BE TURNED UP HILL TO PREVENT RUNOFF FROM GOING AROUND THE WATTLE.
5. ALL GRADED SLOPES WILL BE HYDROSEEDED WITH A NATIVE SEED MIX, TACKIFER AND MULCH (SEE NOTE 5.1).

5.1. 1. SEED MIX

A. THE FOLLOWING SEED MIX SHALL BE HYDROSEEDED WITH A MULCH AND TACKIFIER TO ALL DISTURBED SLOPES. THE SEED MIX SHALL CONFORM TO SHASTA COUNTY GUIDELINES.

BROMUS CARINATUS (CALIFORNIA BROME)	15# PER ACRE
FESTUCA RUBRA (RED FESCUE)	10# PER ACRE
HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	8# PER ACRE
ELYMUS GLAUCUS (BLUE WILD RYE)	8# PER ACRE

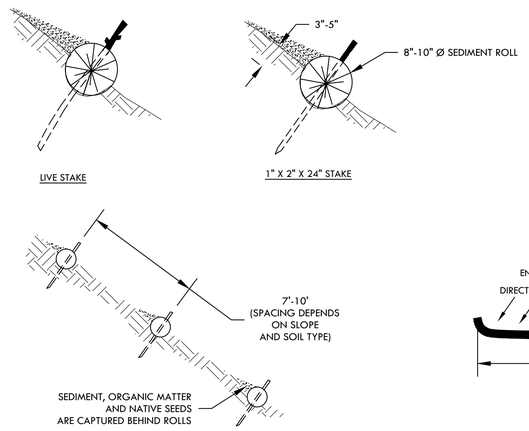
B. MYCHORRHIZAL FUNGI SHALL BE ADDED AT 50 LB/ ACRE.

6. THE PEDESTRIAN PATHS WITHIN THE GRADED AREA SHALL BE SEEDED WITH A SITE SPECIFIC SEED MIX APPROVED BY A QUALIFIED BIOLOGIST.

NORTH

0 10' 20'

GRAPHIC SCALE: 1" = 10'



2 TYPICAL STRAW WATTLE INSTALLATION

SCALE" 1" = 20' @ 24" X 36"

LEGEND:

- LIMIT OF GRADING
- CENTERLINE OF CREEK
- STRAW WATTLE
- HYDROSEED AND TACKIFIER MIXTURE

SHEET TITLE:
EROSION CONTROL PLAN

CLIENT:
BIG BEND HOT SPRINGS
COMMUNITY RETREAT
ATTN: SEABROOK LEAF
25322 HEALTH WAY
BIG BEND, CA

PROJECT TITLE:
BRIDGE REPLACEMENT PROJECT
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PETER N. KAASE
NO. 055605
EXP. 12/31/16
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STATE OF CALIFORNIA

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SHEET:	4.0

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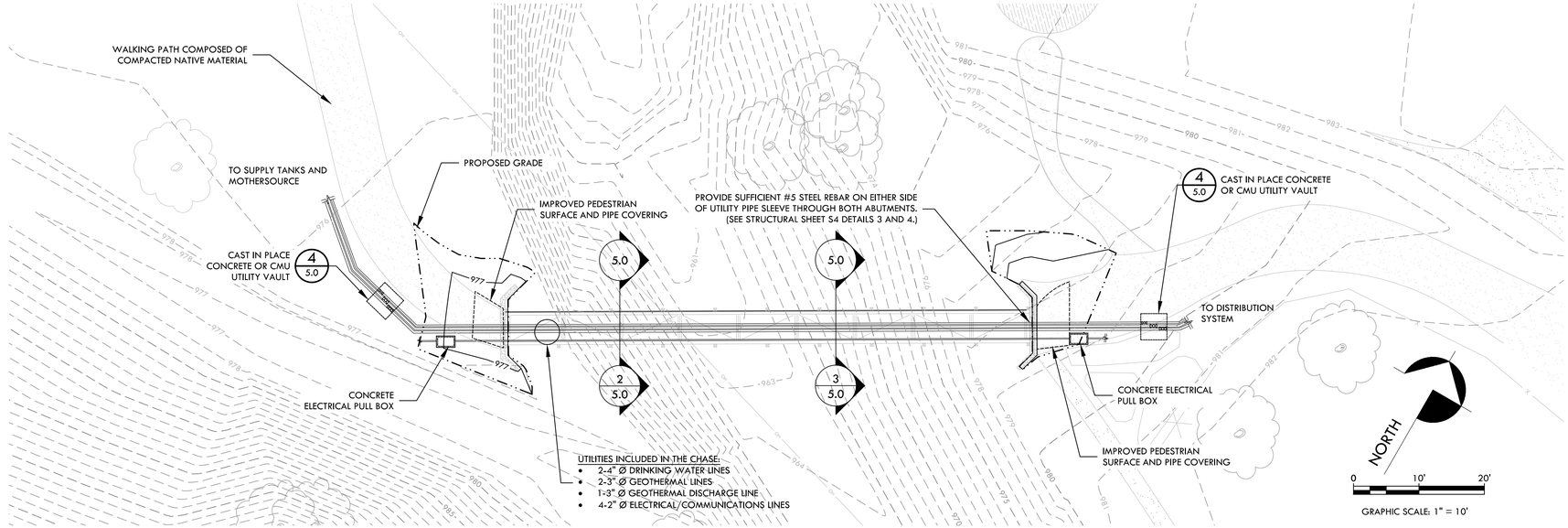
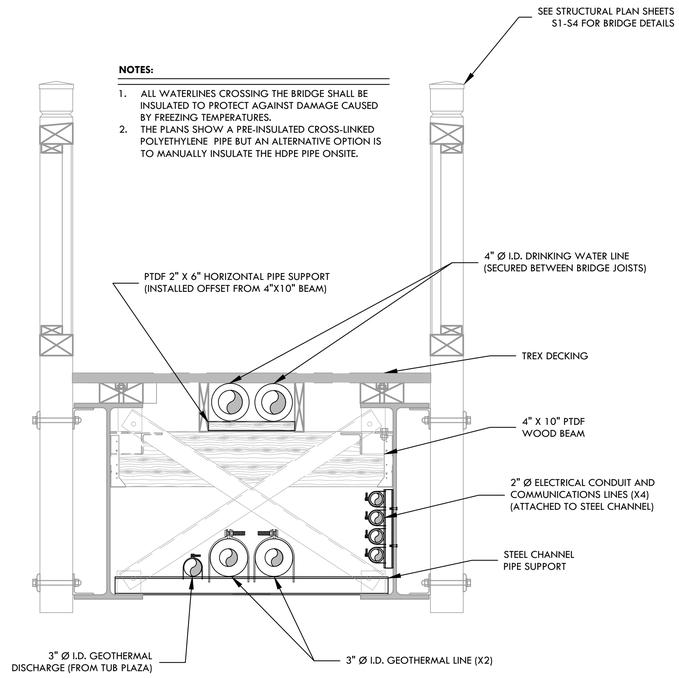


1 PEDESTRIAN BRIDGE UTILITY CROSSING

SCALE: 1" = 10' @ 24" X 36"

NOTES:

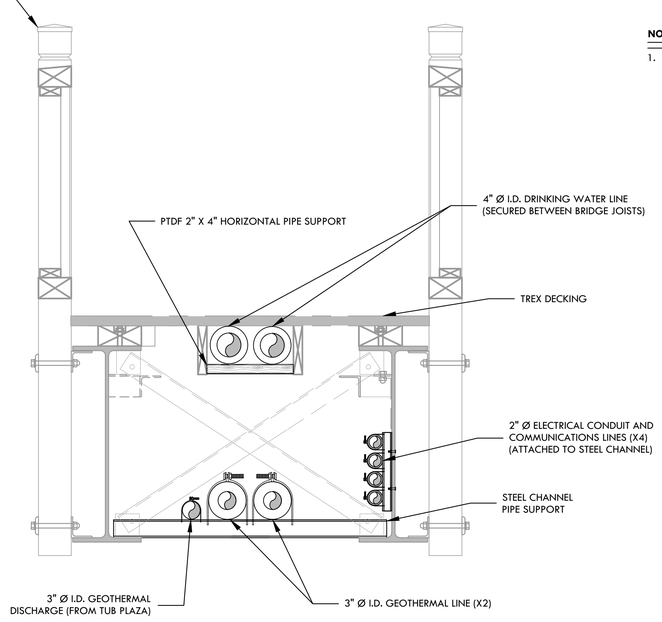
1. ALL WATERLINES CROSSING THE BRIDGE SHALL BE INSULATED TO PROTECT AGAINST DAMAGE CAUSED BY FREEZING TEMPERATURES.
2. THE PLANS SHOW A PRE-INSULATED CROSS-LINKED POLYETHYLENE PIPE BUT AN ALTERNATIVE OPTION IS TO MANUALLY INSULATE THE HDPE PIPE ONSITE.



BRIDGE CROSS SECTION AT 4"X10" PTDF BEAM

2 PEDESTRIAN BRIDGE UTILITY CROSS SECTION

SCALE: 1:1 @ 24" X 36"



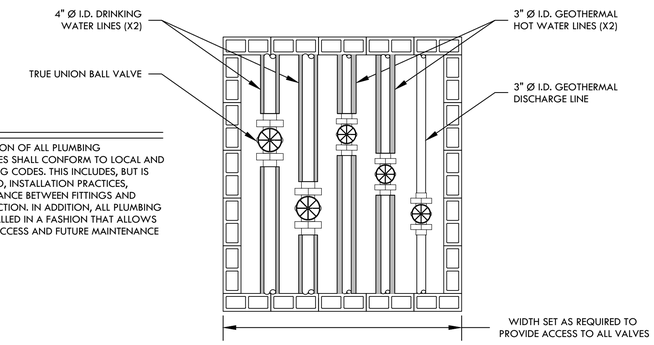
BRIDGE CROSS SECTION BETWEEN 4"X10" PTDF BEAMS

3 PEDESTRIAN BRIDGE UTILITY CROSS SECTION

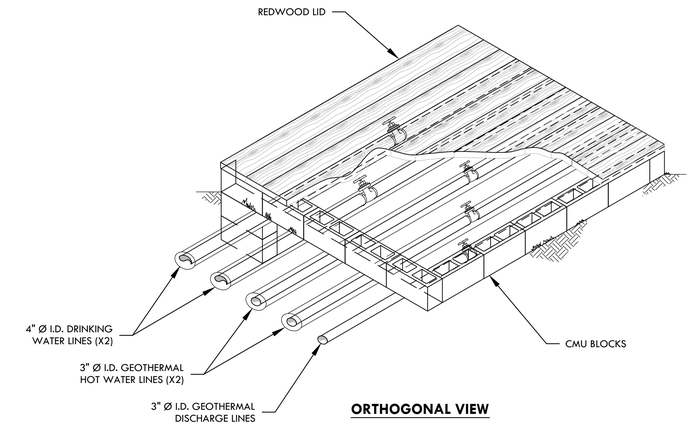
SCALE: 1:1 @ 24" X 36"

NOTE:

1. THE INSTALLATION OF ALL PLUMBING APPURTENANCES SHALL CONFORM TO LOCAL AND STATE PLUMBING CODES. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION PRACTICES, MINIMUM DISTANCE BETWEEN FITTINGS AND MATERIAL SELECTION. IN ADDITION, ALL PLUMBING SHALL BE INSTALLED IN A FASHION THAT ALLOWS FOR EASE OF ACCESS AND FUTURE MAINTENANCE OPERATIONS.



PLAN VIEW



ORTHOGONAL VIEW

4 CAST IN PLACE CONCRETE OR CMU UTILITY VAULT

SCALE: 1:2 @ 24" X 36"

SHEET TITLE: BRIDGE UTILITY DETAILS

CLIENT: BIG BEND HOT SPRINGS
COMMUNITY RETREAT
ATTN: SEABROOK LEAF
25322 HEALTH WAY
BIG BEND, CA

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REGISTERED PROFESSIONAL ENGINEER PETER H. HASS NO. 055605 EXP. 12/31/16 CIVIL STATE OF CALIFORNIA

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SCALE:	AS SHOWN
SHEET:	5.0

24"X36" SHEET. IF SHEET SIZE IS SMALLER, DRAWING HAS BEEN REDUCED.