

# CAMP BERRYESSA IMPROVEMENTS

## FOR

### NAPA COUNTY REGIONAL PARK & OPEN SPACE DISTRICT

#### PROJECT NO. 10002.03

#### CONTRACT NO. \_\_\_\_\_

NAPA COUNTY, CALIFORNIA  
OCTOBER, 2014

7850 BERRYESSA-KNOXVILLE ROAD  
NAPA, CALIFORNIA 94558  
APN: 019-550-001  
LAT/LONG: 38°38'12.25"N 122°17'42.88" W

LAND OWNER:  
U.S. BUREAU OF RECLAMATION

Board of Directors

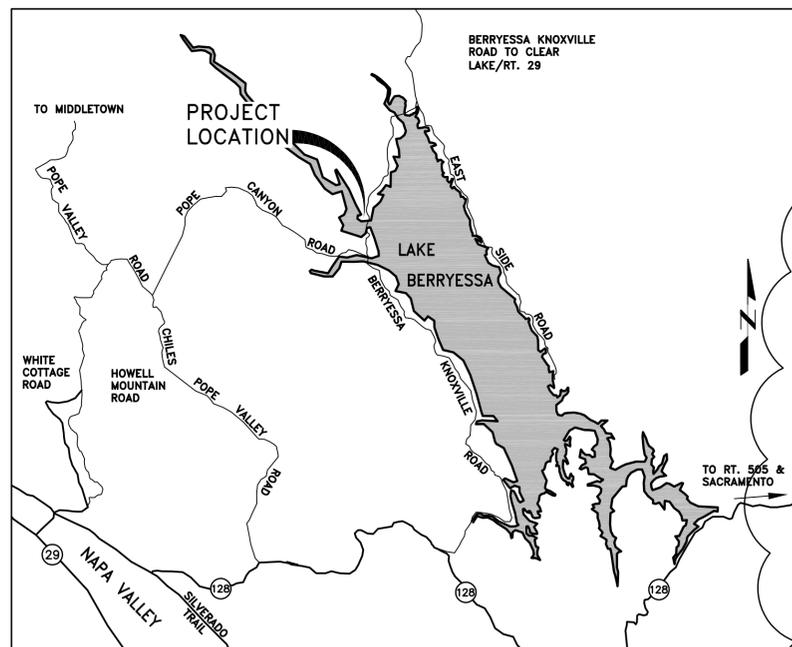
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LAND MANAGER:  
NAPA COUNTY REGIONAL PARK & OPEN  
SPACE DISTRICT

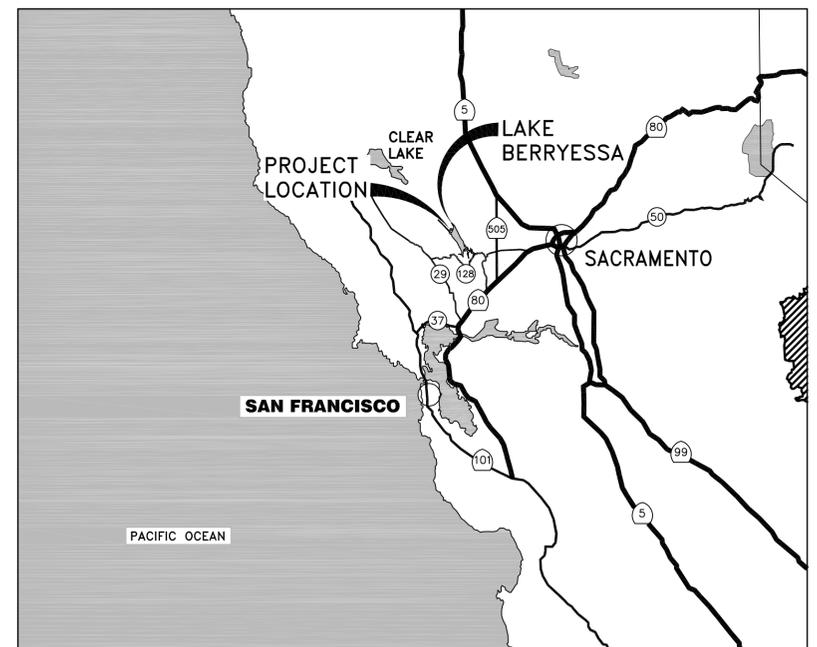
APPROVED FOR CONSTRUCTION:

\_\_\_\_\_  
DATE

CONTACT:  
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LOCATION MAP  
SCALE: NTS



VICINITY MAP  
SCALE: NTS

**BID DRAWINGS**



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Rev	Date	By	Description
			ISSUED FOR BIDS
			ISSUED FOR CONSTRUCTION
1	9/12/14	SK	PLAN REVISION
2	8/29/14	SK	PUBLIC WORKS COMMENTS

Designed	ELP
Drawn	JAC
Checked	SAK
Job No.	
Project No.	BNAP010100

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1075 Creekside Ridge Drive, Suite 200  
Roseville, Ca 95678  
Tel (916) 788-8122  
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NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

GENERAL  
TITLE SHEET

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AS NOTED

Drawing No.  
G00.01

Sheet No.  
1 of 70

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Checked	SAK
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GENERAL

SHEET INDEX

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**GENERAL NOTES**

- INTERPRETATION OF DRAWINGS AND SPECIFICATIONS.
  - FOR CONVENIENCE, SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT AND ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED BY ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS.
  - IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITIONS AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
  - SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITH OUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTION IN WRITING FROM THE ENGINEER, THEN HE SHALL HAVE NO VALID CLAIM AGAINST THE OWNER OR ENGINEER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER OR ENGINEER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATIONS IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT SHOULD HE ELECT TO PROCEED, HE IS DOING SO AT HIS OWN RISK.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- SHOP DRAWING NOTE:
  - SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF ONE TRANSPARENCY AND TWO BLUE LINE PRINTS OF EACH SHEET.
  - THE PURPOSE OF SHOP DRAWINGS SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT HE UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIALS HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
  - PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE ENGINEER. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO STRUCTURAL STEEL, REINFORCING STEEL, GLUED LAMINATED BEAMS, AND PREFABRICATED TRUSSES.
  - PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
  - SHOP DRAWINGS SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS.
  - ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE"
- SAFETY NOTE:
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED, AND ALL OSHA REQUIREMENTS.
  - OWNER OR ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE A CONFLICT OR A DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCING ANY WORK.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ENGINEER PRIOR TO PROCEEDING.
- WHEN CONSTRUCTION ATTACHES TO AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOBSITE.
- ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- DO NOT SCALE DRAWINGS. CONTACT THE ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
- THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE STABILITY OF THIS STRUCTURE DEPENDS ON THE DIAPHRAGM AND THE BRACING MEMBERS SHOWN. THE CONTRACTOR IS TO PROVIDE FOR THE DESIGN AND CONSTRUCTION OF SHORING FOR ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, SEISMIC, AND CONSTRUCTION LOADS. SHORING SHALL REMAIN IN PLACE UNTIL ALL DIAPHRAGM AND LATERAL RESISTING ELEMENTS ARE IN PLACE IN THEIR ENTIRETY.

**DESIGN CRITERIA**

- CODES AND STANDARDS  
2013 CBC
- VERTICAL LOADS  
ROOF LIVE LOADS = 20 PSF, FLOOR LIVE LOAD = 40 PSF
- SOILS VALUES  
ALLOWABLE SOIL PRESSURES
  - DL+LL= 2500 PSF
  - DL+LL+SEISMIC= 3325 PSF

**PLATED WOOD ROOF TRUSS NOTES**

- ROOF DESIGN LOADS  
20 PSF DL  
20 PSF LL
- ALL FRAMING TO BE APPROVED WITH ICBO RESEARCH REPORTS.
  - ALL CHORD MATERIAL SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15%.
  - ALLOWABLE STRESS INCREASE FOR LOAD DURATION SHALL BE: ROOF - 25%.
  - INCREASE FOR ALLOWABLE STRESSES FOR REPETITIVE MEMBERS IS NOT PERMISSIBLE.
  - SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER AND BUILDING OFFICIAL FOR REVIEW PRIOR TO FABRICATION.
  - DESIGN AND FABRICATION SHALL CONFORM TO THE 2013 CBC THE NATIONAL DESIGN SPECIFICATION, AND THE TRUSS PLATE INSTITUTE.
  - SUBMIT DESIGN CALCULATIONS AND ICBO RESEARCH REPORTS FOR EQUIVALENT TRUSS APPROVAL.
  - TRUSSES SHALL BE DESIGNED FOR ALL CONCENTRATED LOADS SHOWN ON DRAWINGS AND ALL LOADS FROM MECHANICAL EQUIPMENT AND SPRINKLERS IN ADDITION TO THE UNIFORM LOADINGS SHOWN ABOVE.
  - ROOF JOISTS SHALL BE DESIGNED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/240.
  - TRUSS MANUFACTURER TO PROVIDE TEMPORARY ERECTION BRACING AS REQUIRED BY MANUFACTURER.
  - GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS WITH ARCHITECTURAL DRAWINGS AND IN FIELD WITH WALL LAYOUT PRIOR TO FABRICATION. PROVIDE SHOP DRAWINGS WITH DIMENSIONS REVIEWED AND APPROVED BY GENERAL CONTRACTOR, PRIOR TO SUBMITTAL TO THE CITY OF FOLSOM.
  - TWO COPIES OF ENGINEERED TRUSS LAYOUT PLANS, DETAILS AND CALCULATIONS REVIEWED BY THE PROJECT ENGINEER SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO FRAME INSPECTION. TRUSS PLANS SHALL BE A DEFERRED SUBMITTAL AND MUST BE APPROVED BY THE COUNTY OF NAPA PRIOR TO INSTALLATION.
  - ALL ROOF TRUSSES SHALL BE FABRICATED WITH CAMBER EQUAL TO DEAD LOAD DEFLECTION.

**WOOD NOTES**

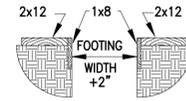
- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATION: DOUGLAS FIR - COAST REGION - WCLIB GRADING RULES #17 DF #1, EXCEPT 2X4 AND 2X6 WALL STUDS, PLATES, AND BLOCKING MAY BE DF #2. REDWOOD - CALIFORNIA REDWOOD ASSOCIATION GRADING RULES, LATEST EDITION. GLUED LAMINATED BEAMS - STANDARD SPEC FOR STRUCTURAL GLUED LAMINATED TIMBER AITC 117 LATEST EDITION. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION OF GLUED LAMINATED MEMBERS. PLYWOOD - U.S. PRODUCT STANDARD P.S. 2-92 FOR SOFT PLYWOOD STRUCT 1 AT WALLS; CDX AT FLOORS AND ROOF UNLESS NOTED OTHERWISE. PRESSURE TREATED DOUGLAS FIR - AWPA STANDARDS, LATEST EDITION.
  - ALL WOOD IN DIRECT CONTACT WITH EARTH OR CONCRETE SHALL BE PRESSURE TREATED.
  - BEARING AND SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION INTERSECTION WITH 3-16D NAILS. SPLICE UPPER AND LOWER PLATES AS IN DETAIL 1 ON TYPICAL DETAILS SHEET. PROVIDE SOLID BLOCKING BETWEEN JOINTS AND RAFTERS AT ALL SUPPORTS.
  - PROVIDE BLOCKING AT ALL CEILING LEVELS.
  - JOISTS UNDER AND PARALLEL TO PARTITIONS SHALL BE DOUBLED AND NAILED TOGETHER.
  - HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
  - HOLES FOR LAG SCREW SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK AND THE REST NO LARGER THAN THE ROOT OF THE THREAD.
  - LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY BE USED LUBRICATED THE SCREWS.
  - ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS, READ HEAD, ETC.
- | BOLT DIAMETER | MI WASHER       | STEEL WASHER           |
|---------------|-----------------|------------------------|
| 5/8"          | 2 3/4" x 15/16" | 2 1/2" x 2 1/2" x 1/4" |
| 3/4"          | 3" x 7/16"      | 3" x 3" x 5/16"        |
| 7/8"          | 3 1/2" x 7/16"  | 3 1/2" x 3 1/2" x 3/8" |
| 1"            | 4" x 1/2"       | 3 3/4" x 3 3/4" x 3/8" |
- ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED ON INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
  - LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORT UNLESS NOTED OTHERWISE.
  - BLOCK STRUCTURAL PLYWOOD JOINTS WITH 2X4 FLAT BLOCKING WHERE NOTED ON ROOF OR FLOOR FRAMING PLANS AND WITH BLOCKING SAME AS STUDS AT WALLS. USE PLYCLIPS AT MIDSPAN OF UNSUPPORTED PLYWOOD EDGES.
  - CONNECTOR HARDWARE MODEL NUMBER ARE THOSE FOR SIMPSON STRONG-TIE COMPANY. EQUIVALENT CONNECTORS WITH ICBO ACCEPTANCE MAY BE SUBSTITUTED. ALL JOIST HANGERS SHALL BE SIMPSON U-SERIES HANGERS UNLESS NOTED OTHERWISE.
  - NOTIFY ENGINEER AFTER WALL, FLOOR AND ROOF STRUCTURAL PLYWOOD NAILING HAS BEEN COMPLETED AND A MINIMUM OF 48 HOURS PRIOR TO CONCEALING STRUCTURAL PLYWOOD.

**CONCRETE BLOCK NOTES**

- CONCRETE BLOCK UNITS SHALL CONFORM TO ASTM C-90 GRADE N-I UNITS. COMPRESSIVE STRENGTH OF UNITS TO BE 1000 PSI FOR GROSS AREA AND 2000 PSI FOR NET AREA. F'M=1500 PSI. MASONRY PRISMS COMPRESSIVE STRENGTH SHALL TEST NOT LESS THAN 1.25 TIMES THE SPECIFIED F'M.
- MORTAR SHALL BE BY VOLUME: 1 PART PORTLAND CEMENT; 1/4 TO 1/2 PART HYDRATED LIME OR LIME PUTTY; AND 2 1/2 TO 3 TIMES TIMES COMBINED VOLUME OF CEMENT AND LIME. 2" CUBES SHALL TEST 1800 PSI IN 28 DAYS.
- GROUT SHALL BE BY VOLUME: 1 PART PORTLAND CEMENT, 3 PARTS SAND 1/10 PART LIME (OPTIONAL). 2 PARTS PEA GRAVEL MAY BE USED WHERE THE LEAST CLEAR CELL DIMENSION IF 4". NOT MORE THAN 5% OF THE PEA GRAVEL SHALL PASS THE NO. 8 SIEVE AND 100% SHALL PASS THE 3/8" SIEVE. GROUT SHALL TEST NOT LESS THAN 2000 PSI IN 28 DAYS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 - GRADE 60 FOR #4 AND LARGER AND ASTM A615 - GRADE 40 FOR #3 AND SMALLER.
- LAP ALL BARS 40 DIAMETERS, MINIMUM, UNLESS NOTED OTHERWISE.
- BEFORE BLOCK IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL LAITANCE AND ALL LOOSE MATERIAL. ROUGHEN AS IN CONCRETE CONSTRUCTION JOINT.
- CONCRETE BLOCK MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS. ALL HEAD END JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROCEEDED BY LAPPING SUCCESSIVE COURSES OR BY EQUIVALENT MECHANICAL ANCHORAGE.
- VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 2"x3".
- CLEAN OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOMS OF ALL CELLS TO BE FILLED AT EACH LIFT OR POUR OF GROUT WHERE SUCH LIFT OR POUR OF GROUT IS IN EXCESS OF 4'-0" IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM INSIDE OF SUCH CELLS. THE CLEAN OUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING. MECHANICALLY VIBRATE ALL GROUT POURS.
- VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT TO EXCEED 192 BAR DIAMETERS.
- THOROUGHLY CLEAN ALL CELLS AND BOND BEAMS OF MORTAR BEFORE GROUTING.
- ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT. ALL GROUTING SHALL BE DONE UNDER THE CONTINUOUS OBSERVATION OF A QUALIFIED INSPECTOR WHERE INDICATED ON PLANS.
- WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE THE POUR OF GROUT 1 1/2" BELOW THE TOP OF THE UPPERMOST UNIT.
- EACH VERTICAL BAR IN WALLS SHALL LAP 40 DIAMETERS WITH A DOWEL OF THE SAME SIZE EXTENDING FROM THE FOUNDATION. CARRY EACH DOWEL TO WITHIN 3" OF THE BOTTOM OF THE FOUNDATION AND TERMINATE WITH 90° HOOK. DOWELS SHALL BE STRAIGHT AND PLUMB.
- PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN 2 BARS ARE USED, STAGGER LAPS MINIMUM OF 5'-0".
- PROVIDE 2-#5 BARS (FULL HEIGHT OF WALL AT JAMB AND EXTENDING A MINIMUM OF 2'-0" PAST EDGES OF OPENINGS AT HEAD AND SILL) EACH SIDE OF ALL OPENINGS AND EACH END OF ALL WALLS, UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL EMBEDDED ITEMS (BOLTS, ETC.) SHALL BE SECURED IN PLACE PRIOR TO GROUTING. PROVIDE A MINIMUM OF 1" GROUT AROUND ALL BOLTS IN MASONRY SEE TYPICAL DETAILS SHEET.
- USE OPEN END BLOCK FOR ALL STACK BOND CONSTRUCTION.
- COMPLIANCE WITH THE REQUIREMENTS FOR THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, F'M SHALL BE IN ACCORDANCE WITH THE 2013 CBC.

**FOUNDATION NOTES**

- ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CBC
- FOR SITE PREPARATION AND FOUNDATION RECOMMENDATIONS SEE SOILS REPORT AS PREPARED BY YOUNGDAHL CONSULTING GROUP, EL DORADO HILLS, CA. PROJECT # 01060, DATED 29 MARCH 2001.
- BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAIL ON THE TYPICAL DETAILS SHEET.
- ALL PILE CAPS, GRADE BEAMS, TIE BEAMS AND OTHER FOOTINGS SHALL BE FORMED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER FOUNDATIONS MAY BE CAST IN NEAR EXCAVATIONS PROVIDED WRITTEN APPROVAL IS OBTAINED AND FOOTINGS ARE INCREASED 2" IN WIDTH. USE 2X12 PLANKS AT EDGE OF EXCAVATION TO PROTECT AGAINST SLUFFING, AS REQUIRED.
- NOTIFY THE ENGINEER 48 HOURS BEFORE CASTING FOUNDATIONS.



**FIRE DIVISION NOTES**

- FIRE EXTINGUISHERS SHALL BE INSTALLED AT EVERY TENT CABIN, ACTIVITY SHELTER, AND COMBO BUILDING. (1) 2A10BC AND (1) WATER EXTINGUISHER EACH, ALL INSTALLED IN PROTECTIVE CABINETS.
- PROVIDE 100' DEFENSIBLE SPACE TO ALL BUILDINGS, AND 10' BOTH SIDES OF ALL ROADS.

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			Drawn
			JAC
			Checked
8/29/14	SK	NOTES REFLECT CURRENT CODES & COUNTY,	SAK
		FIRE DIVISION COMMENTS	Job No.
Rev	Date	By	Description
			6NAP010100

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Fax (916) 788-0600

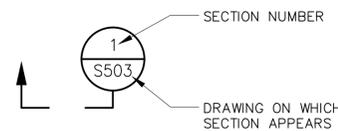
B14.1071 - 1079  
SEE SHEET 000.06 FOR BREAKDOWN  
0 LINE IS 2 INCHES 2"  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
GENERAL  
GENERAL NOTES

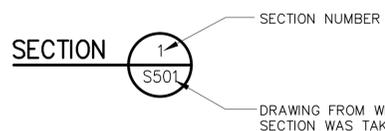
Scale  
NONE  
Drawing No.  
G00.03  
Sheet No.  
3 of 70

**TYPICAL SECTION NUMBERING SYSTEM**

1) DWG S501 (WHERE THE SECTION IS TAKEN):



2) DWG S503 (WHERE THE SECTION APPEARS):

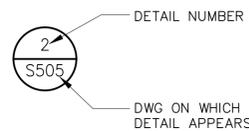


3) IF THE SECTION APPEARS ON THE SAME DWG IT IS TAKEN FROM:

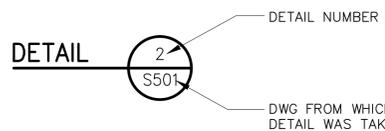


**TYPICAL DETAIL NUMBERING SYSTEMS**

1) DWG S501 (WHERE THE DETAIL IS TAKEN):



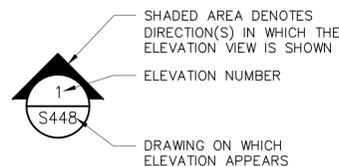
2) DWG S505 (WHERE THE DETAIL APPEARS):



3) IF THE DETAIL APPEARS ON THE SAME DWG IT IS TAKEN FROM:



**TYPICAL ELEVATION NUMBERING SYSTEM**



**TOPOGRAPHY SYMBOLS**

- STATE LINE
- COUNTY LINE
- TOWNSHIP LINE
- ..... NATIONAL OR STATE PARK OR FOREST
- GRANT LINE
- SECTION LINE
- CITY LINE
- BASE OR SURVEY LINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EASEMENT LINE
- CENTER LINE
- PUBLIC UTILITY EASEMENT
- LIMITED ACCESS LINE
- BARBED WIRE FENCE
- CHAIN LINK FENCE
- WOVEN WIRE FENCE
- WOODEN FENCE
- GATE
- LIMITED ACCESS FENCE
- SILT FENCE
- ELECTRIFIED FENCE
- GUARDRAIL
- RAILROAD (SINGLE TRACK)
- RAILROAD (DOUBLE TRACK)
- BOX CULVERT
- BRIDGE
- CULVERT WITH FLARED END SECTIONS
- SURVEY REFERENCE POINT
- △ ALACHUA TRIANGULATION STATION
- ⊕ B.M. NO. 112 BENCH MARK
- △ POINT OF INTERSECTION
- CURVE DATA
- △ = DELTA
- R = RADIUS
- T = TANGENT
- L = LENGTH
- EDGE OF PAVEMENT LINE
- DRAINAGE SWALE WITH INVERT OR FLOW LINE ELEVATION INDICATED
- TOP OF SLOPE LINE
- GRADING RIDGE
- 98 CONTOUR (SCREENED IF EXISTING)
- 100 INDEX CONTOUR (SCREENED IF EXISTING)
- 740.00 SPOT ELEVATION (SCREENED IF EXISTING)
- INV 740.00 INVERT ELEVATION
- TREE
- ⊗ EXISTING TREE TO BE REMOVED
- EDGE OF WOODED AREA
- CURB
- CURB AND GUTTER

**UTILITY SYMBOLS**

- | EXISTING | PROPOSED |                                       |
|----------|----------|---------------------------------------|
| ⊗        | ⊗        | STREET LIGHT                          |
| ⊕        | ⊕        | POWER OR TELEPHONE POLE               |
| ⊕        | ⊕        | SERVICE POLE WITH GUY                 |
| PB       | PB       | PULL BOX                              |
| ○        | ○        | STORM DRAIN OR SEWER MANHOLE          |
| ○        | ○        | STORM DRAIN MANHOLE WITH GRATED TOP   |
| □        | □        | CATCH BASIN                           |
| 8" SS    | 8" SS    | PIPELINE WITH FLOW OR SLOPE DIRECTION |
| 10" W    | 10" W    | PIPELINE                              |
| ⊕        | ⊕        | FIRE HYDRANT WITH VALVE               |
| ⊕        | ⊕        | YARD HYDRANT WITH VALVE               |
| ⊕        | ⊕        | SHUTOFF VALVE                         |
| 2" AV    | 2" AV    | AIR RELEASE VALVE WITH SIZE           |
| 6" BO    | 6" BO    | BLOWOFF WITH SIZE                     |
| UG-CATV  | UG-CATV  | UNDERGROUND CABLE TV                  |
| UGE      | UGE      | UNDERGROUND ELECTRIC                  |
| UGT      | UGT      | UNDERGROUND TELEPHONE                 |
| GAS      | GAS      | UNDERGROUND GAS                       |

**NAMING CONVENTION**

- WHAT NUMBER WHERE
- EXAMPLES:
- T-C1 = TENT CABIN - CENTRAL, ONE (OF 4)
  - A-S = ACTIVITY SHELTER - SOUTH, ONLY
  - CB-S = COMBO BUILDING - SOUTH, ONLY
- LEGEND:
- C = COOKING AREA
  - T = TENT CABIN
  - A = ACTIVITY SHELTER
  - CB = COMBO BUILDING (RESTROOMS)
  - Y = YURTS

**PIPE AND FITTING SYMBOLS**

- | DOUBLE LINE | SINGLE LINE |                               |
|-------------|-------------|-------------------------------|
| ---         | ---         | EXISTING PIPE (SCREENED)      |
| ---         | ---         | NEW PIPE                      |
| ---         | ---         | EXISTING PIPE TO BE ABANDONED |
| ---         | ---         | EXISTING PIPE TO BE REMOVED   |
| ---         | ---         | PUSH-ON JOINT                 |
| ---         | ---         | GROOVED END JOINT             |
| ---         | ---         | FLANGED JOINT                 |
| ---         | ---         | FLANGE COUPLING ADAPTER       |
| ---         | ---         | ELBOW UP                      |
| ---         | ---         | ELBOW DOWN                    |
| ---         | ---         | TEE UP                        |
| ---         | ---         | TEE DOWN                      |
| ---         | ---         | LATERAL UP                    |
| ---         | ---         | LATERAL DOWN                  |
| ---         | ---         | CONCENTRIC REDUCER            |
| ---         | ---         | ECCENTRIC REDUCER             |
| ---         | ---         | UNION                         |

**NOTES**

- ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS. FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION DRAWINGS. ALSO SEE PIPING SPECIFICATIONS AND THE PIPING SCHEDULE.
- SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.

**VALVE SYMBOLS AND DESIGNATIONS**

- GATE
- BUTTERFLY
- GLOBE
- BALL
- PLUG
- DIAPHRAGM
- CONTROL
- SOLENOID
- SWING CHECK
- DOUBLE DISK CHECK
- BALL CHECK
- PRESSURE RELIEF

P:\GMAP010100\WATRES\TASKS\CD\SHEETS\04-6NAP0101-00004.dwg

**BID DRAWINGS**



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ISSUED FOR CONSTRUCTION	Drawn JAC
	Checked SAK
	Job No. BNAP010100

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B14.1071 - 1079  
 SEE SHEET G00.06 FOR BREAKDOWN

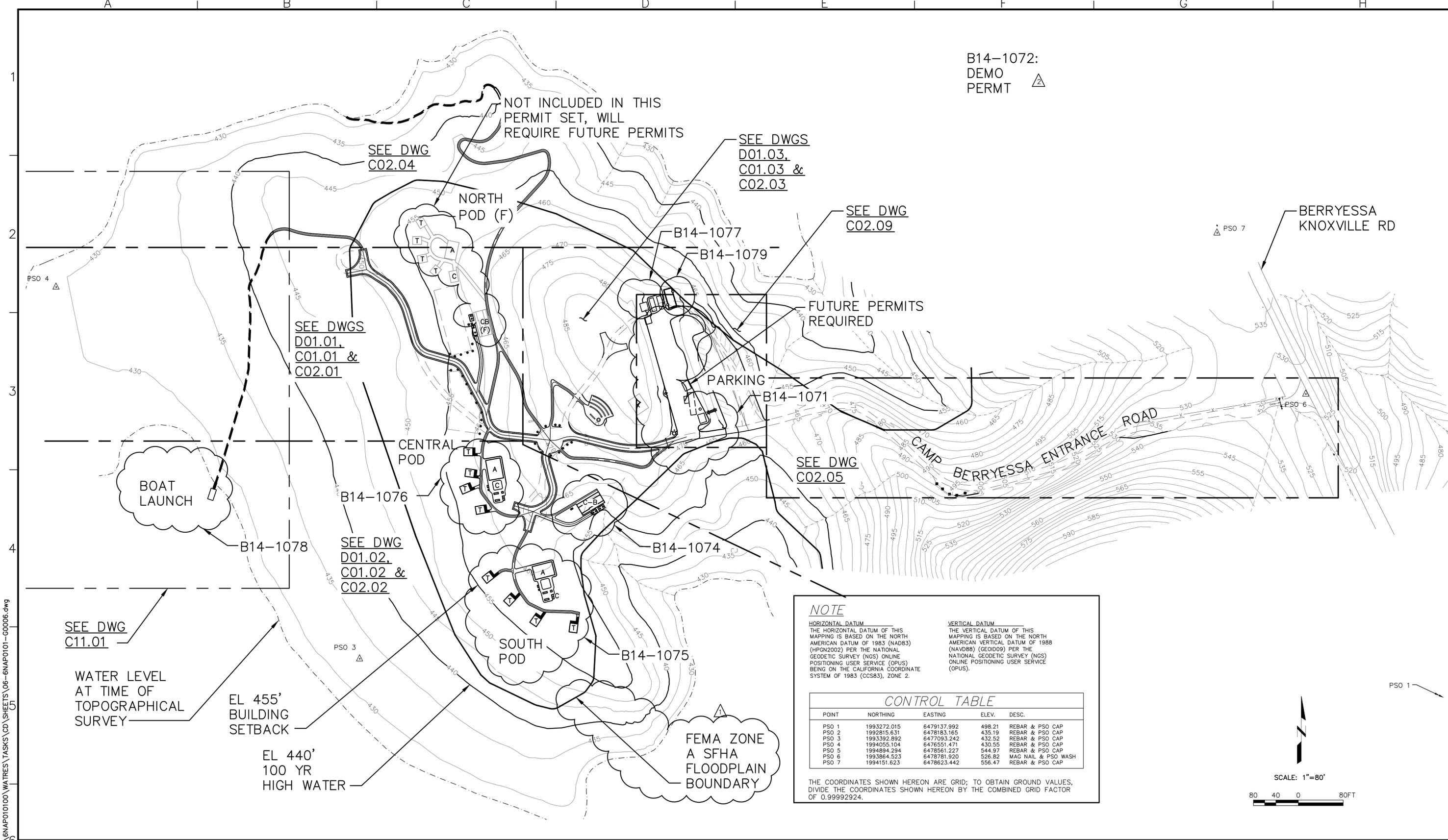
0 1 2"  
 LINE IS 2 INCHES AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

GENERAL  
 SYMBOLS

Scale NONE
Drawing No. G00.04
Sheet No. 4 of 70





B14-1072:  
DEMO  
PERM

NOT INCLUDED IN THIS  
PERMIT SET, WILL  
REQUIRE FUTURE PERMITS

SEE DWGS  
D01.03,  
C01.03 &  
C02.03

SEE DWG  
C02.04

SEE DWG  
C02.09

SEE DWGS  
D01.01,  
C01.01 &  
C02.01

FUTURE PERMITS  
REQUIRED

SEE DWG  
C02.05

SEE DWG  
C11.01

WATER LEVEL  
AT TIME OF  
TOPOGRAPHICAL  
SURVEY

EL 455'  
BUILDING  
SETBACK

EL 440'  
100 YR  
HIGH WATER

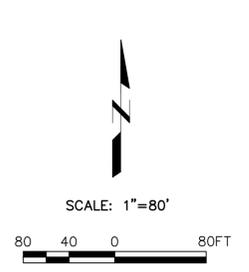
**NOTE**

**HORIZONTAL DATUM**  
THE HORIZONTAL DATUM OF THIS MAPPING IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) (HPGN2002) PER THE NATIONAL GEODETIC SURVEY (NGS) ONLINE POSITIONING USER SERVICE (OPUS) BEING ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 2.

**VERTICAL DATUM**  
THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) (GEOID09) PER THE NATIONAL GEODETIC SURVEY (NGS) ONLINE POSITIONING USER SERVICE (OPUS).

CONTROL TABLE				
POINT	NORTHING	EASTING	ELEV.	DESC.
PSO 1	1993272.015	6479137.992	498.21	REBAR & PSO CAP
PSO 2	1992815.631	6478183.165	435.19	REBAR & PSO CAP
PSO 3	1993392.892	6477093.242	432.52	REBAR & PSO CAP
PSO 4	1994055.104	6476551.471	430.55	REBAR & PSO CAP
PSO 5	1994934.294	6478561.227	544.97	REBAR & PSO CAP
PSO 6	1993864.523	6478781.920	526.82	MAG NAIL & PSO WASH
PSO 7	1994151.623	6478623.442	556.47	REBAR & PSO CAP

THE COORDINATES SHOWN HEREON ARE GRID; TO OBTAIN GROUND VALUES, DIVIDE THE COORDINATES SHOWN HEREON BY THE COMBINED GRID FACTOR OF 0.99992924.



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Rev	Date	By	Description
			ISSUED FOR BIDS
			ISSUED FOR CONSTRUCTION
8/29/14		SK	PERMIT NUMBER DELINEATION THROUGHOUT
8/6/14		SK	FEMA SFHA BNDY ADDED PER PW

Designed	ELL
Drawn	JAC
Checked	SAK
Job No.	BNAP010100

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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0" LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

GENERAL  
OVERALL SITE PLAN/KEY MAP

Scale  
AS NOTED

Drawing No.  
**G00.06**

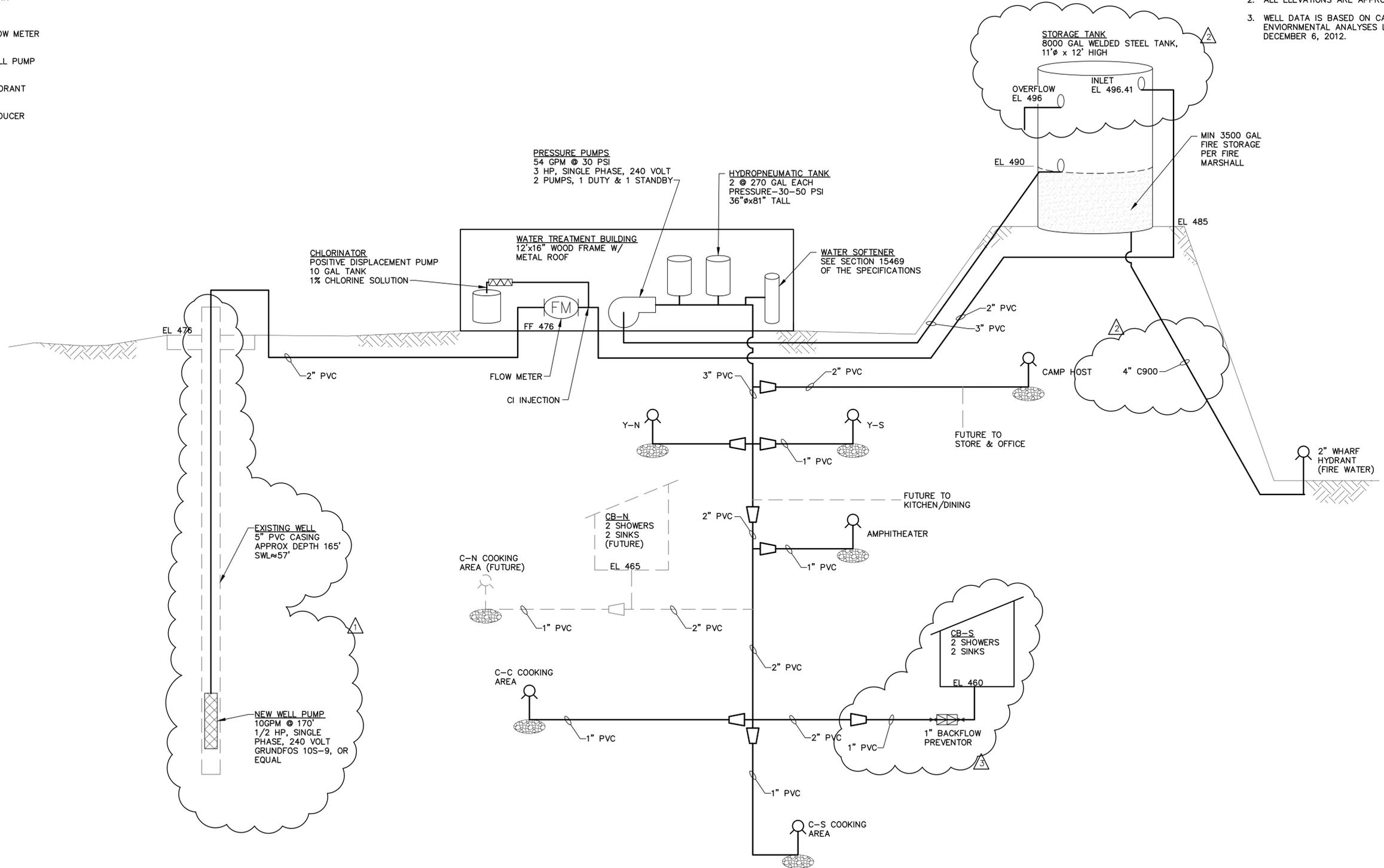
Sheet No.  
6 of 70

**SYMBOL LEGEND:**

-  TANK
-  FLOW METER
-  WELL PUMP
-  HYDRANT
-  REDUCER

**NOTES:**

1. VALVES ARE NOT SHOWN.
2. ALL ELEVATIONS ARE APPROXIMATE.
3. WELL DATA IS BASED ON CALTEST ANALYTICAL LABORATORY ENVIRONMENTAL ANALYSES LAB ORDER NUMBER M110831, DATED DECEMBER 6, 2012.



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Rev	Date	By	Description
3	9/12/14	SK	PLAN REVISION
2	8/29/14	SK	PUBLIC WORKS & ENVIRONMENTAL HEALTH COMMENTS
1	8/12/14	SK	WELL PUMP TO BE INSTALLED

ISSUED FOR BIDS	Designed	ELL
ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	GNAP010100

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B14.1071 - 1079  
 SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

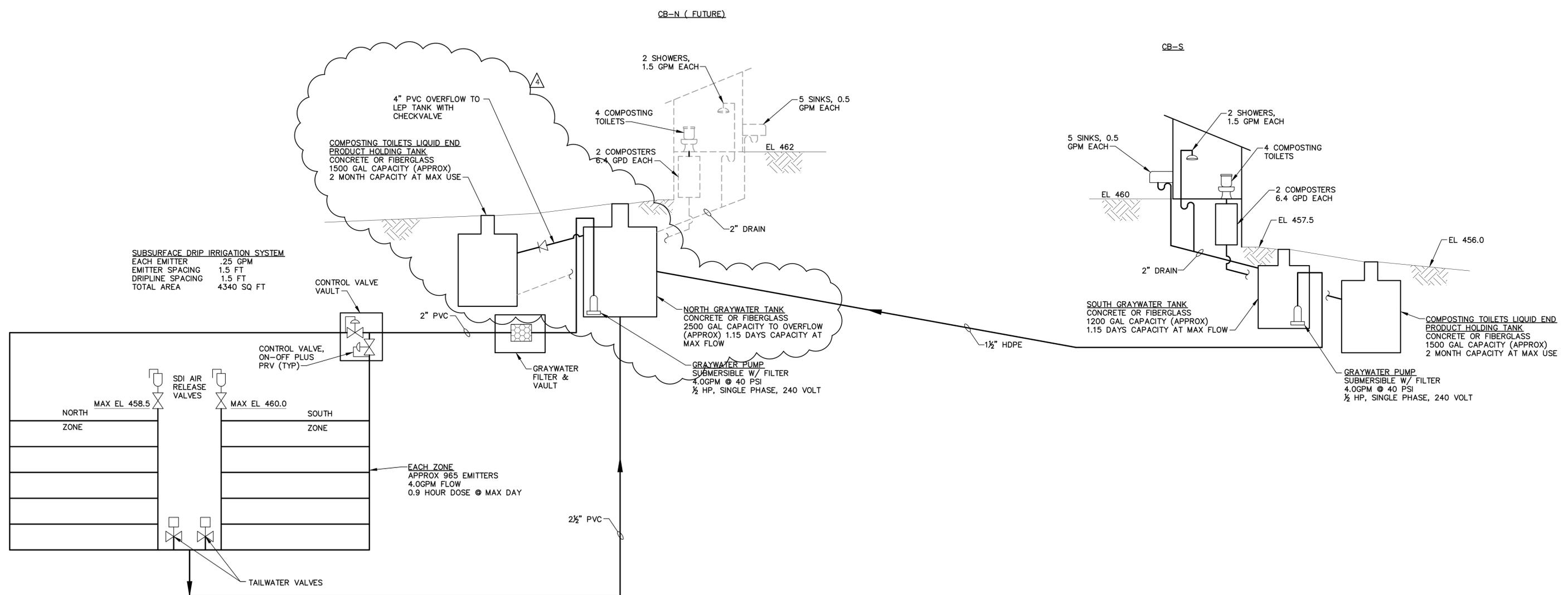
NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

GENERAL

WATER SYSTEM SCHEMATIC

Scale: NONE  
 Drawing No.: G00.07  
 Sheet No.: 7 of 70

- NOTES:**
1. VALVES ARE NOT SHOWN.
  2. ALL ELEVATIONS ARE APPROXIMATE.



P:\GNAP010100\WATRES\TASKS\CD\SHEETS\08-6NAP0101-00008.dwg

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	Checked	SAK
	Job No.	
	Rev	BNAP010100
10/12/14	SK	PLAN REVISION
Rev	Date	By
		Description

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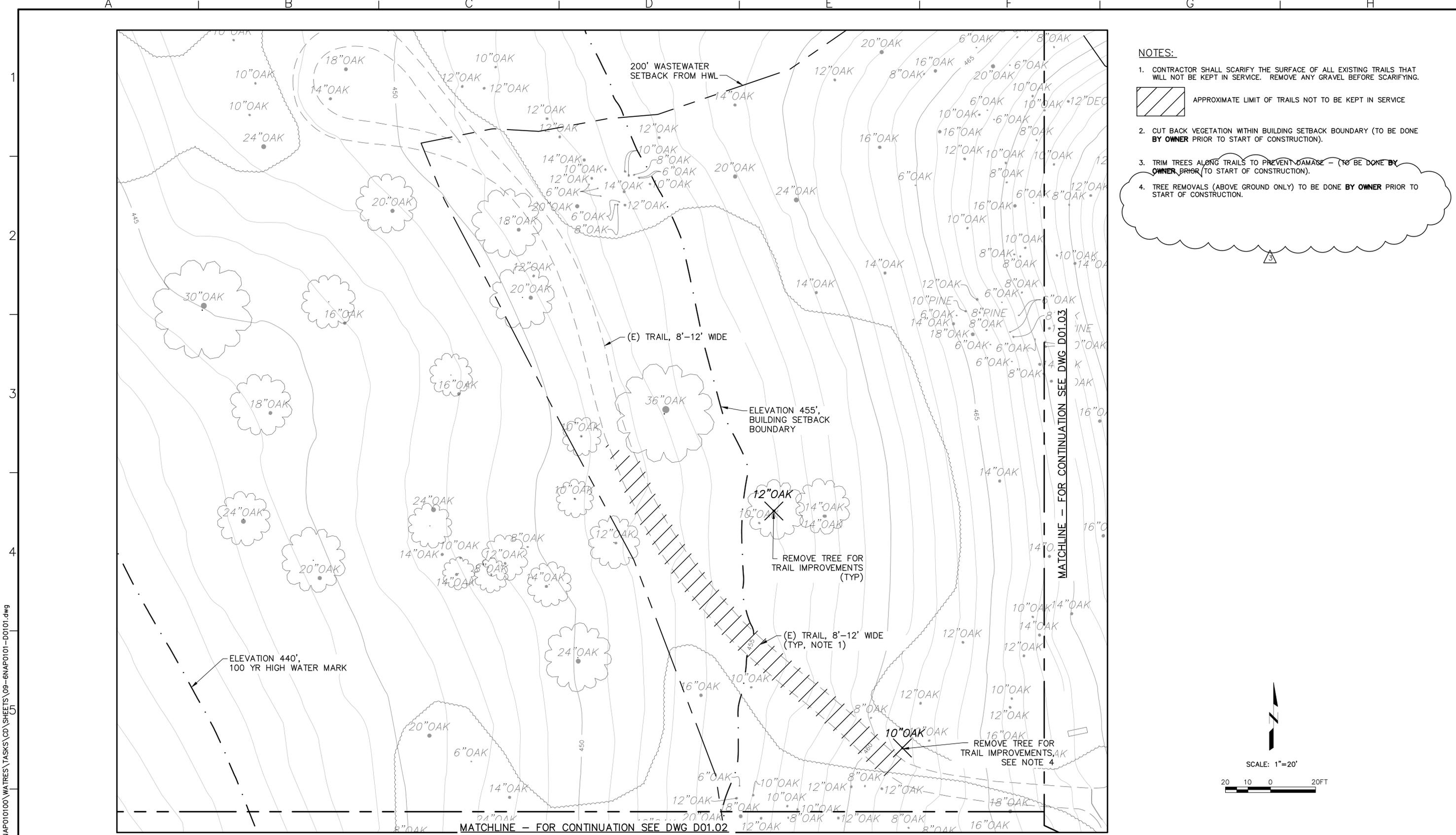
B14.1071 - 1079  
 SEE SHEET G00.06 FOR BREAKDOWN

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 IF LINE IS NOT 2" SCALE ACCORDINGLY

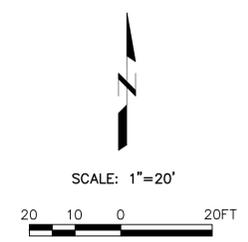
NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

GENERAL  
 GRAYWATER SYSTEM SCHEMATIC

Scale  
 NONE  
 Drawing No.  
 G00.08  
 Sheet No.  
 8 of 70



- NOTES:**
- CONTRACTOR SHALL SCARIFY THE SURFACE OF ALL EXISTING TRAILS THAT WILL NOT BE KEPT IN SERVICE. REMOVE ANY GRAVEL BEFORE SCARIFYING.
  - CUT BACK VEGETATION WITHIN BUILDING SETBACK BOUNDARY (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TRIM TREES ALONG TRAILS TO PREVENT DAMAGE - (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TREE REMOVALS (ABOVE GROUND ONLY) TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION.



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			JAC
			Checked
			SAK
3	9/12/14	SK PLAN CLARIFICATION	Job No.
Rev	Date	By	Description
			GNAP010100

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B14.1071 - 1079  
 SEE SHEET 000.06 FOR BREAKDOWN

0" LINE IS 2" INCHES AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

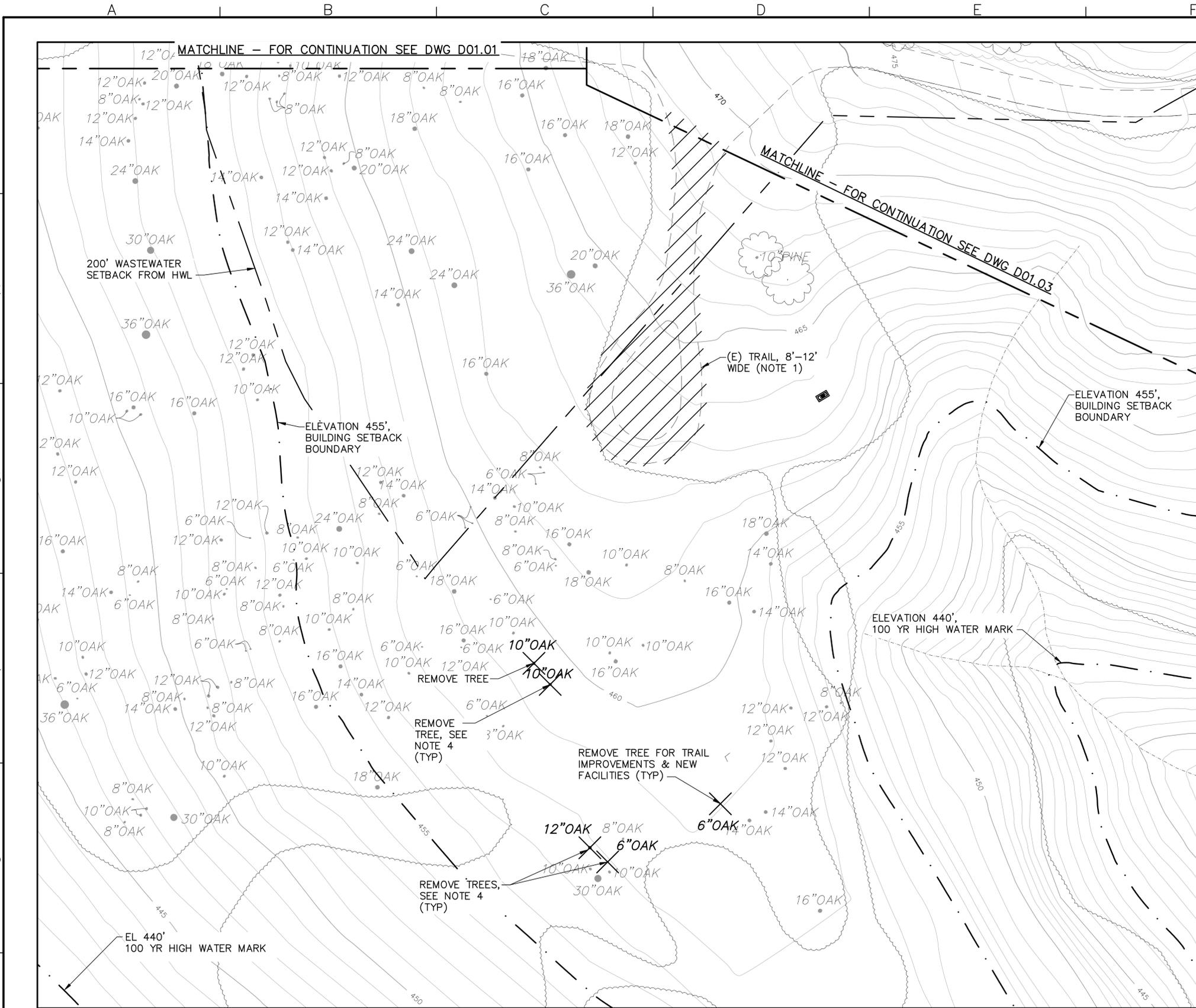
CIVIL  
 DEMOLITION SITE PLAN  
 NORTH

Scale  
 AS NOTED

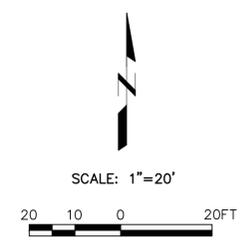
Drawing No.  
**D01.01**

Sheet No.  
 9 of 70

P:\6NAP010100\WATRES\TASKS\CD\SHEETS\10-6NAP0101-0102.dwg  
SKEMEN



- NOTES:**
- CONTRACTOR SHALL SCARIFY THE SURFACE OF ALL EXISTING TRAILS THAT WILL NOT BE KEPT IN SERVICE. REMOVE ANY GRAVEL BEFORE SCARIFYING.
  - CUT BACK VEGETATION WITHIN BUILDING SETBACK BOUNDARY (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TRIM TREES ALONG TRAILS TO PREVENT DAMAGE - (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TREE REMOVALS (ABOVE GROUND ONLY) TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION.



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			JAC
			Checked
			SAK
			Job No.
			BNAP010100
Rev	Date	By	Description
3	9/12/14	SK	PLAN CLARIFICATION

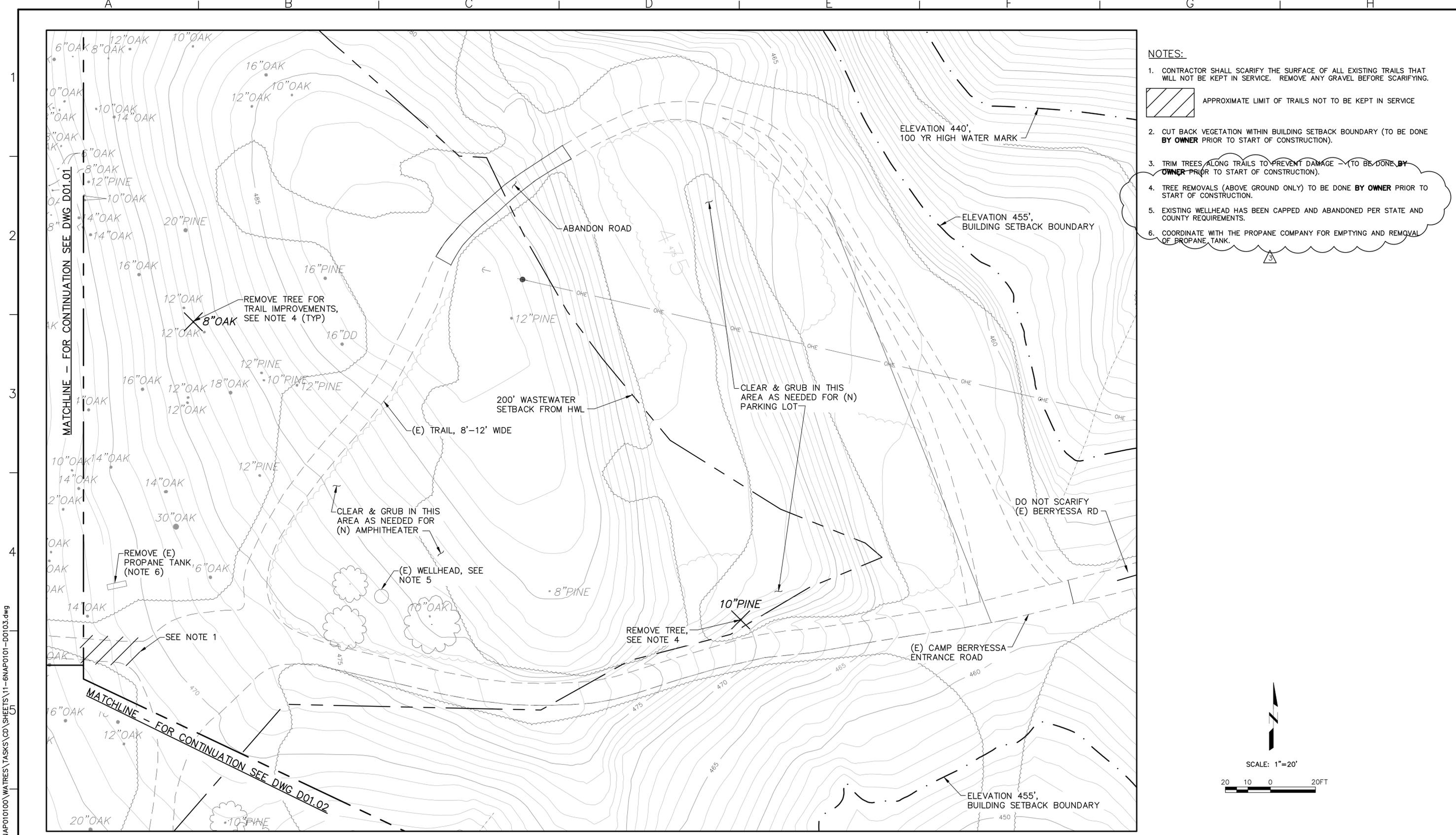
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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

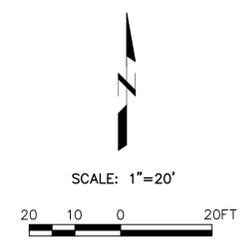
0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
CIVIL  
DEMOLITION SITE PLAN  
SOUTH

Scale  
AS NOTED  
Drawing No.  
D01.02  
Sheet No.  
10 of 70



- NOTES:**
- CONTRACTOR SHALL SCARIFY THE SURFACE OF ALL EXISTING TRAILS THAT WILL NOT BE KEPT IN SERVICE. REMOVE ANY GRAVEL BEFORE SCARIFYING.
  - CUT BACK VEGETATION WITHIN BUILDING SETBACK BOUNDARY (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TRIM TREES ALONG TRAILS TO PREVENT DAMAGE - (TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION).
  - TREE REMOVALS (ABOVE GROUND ONLY) TO BE DONE BY OWNER PRIOR TO START OF CONSTRUCTION.
  - EXISTING WELLHEAD HAS BEEN CAPPED AND ABANDONED PER STATE AND COUNTY REQUIREMENTS.
  - COORDINATE WITH THE PROPANE COMPANY FOR EMPTYING AND REMOVAL OF PROPANE TANK.



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			SAK
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			BNAP010100
3	9/12/14	SK	PLAN CLARIFICATION
Rev	Date	By	Description

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B14.1071 - 1079  
 SEE SHEET G00.06 FOR BREAKDOWN

0 1" LINE IS 2 INCHES AT FULL SCALE 2"  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

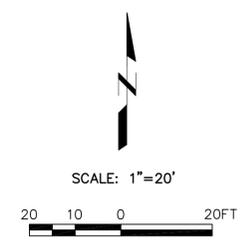
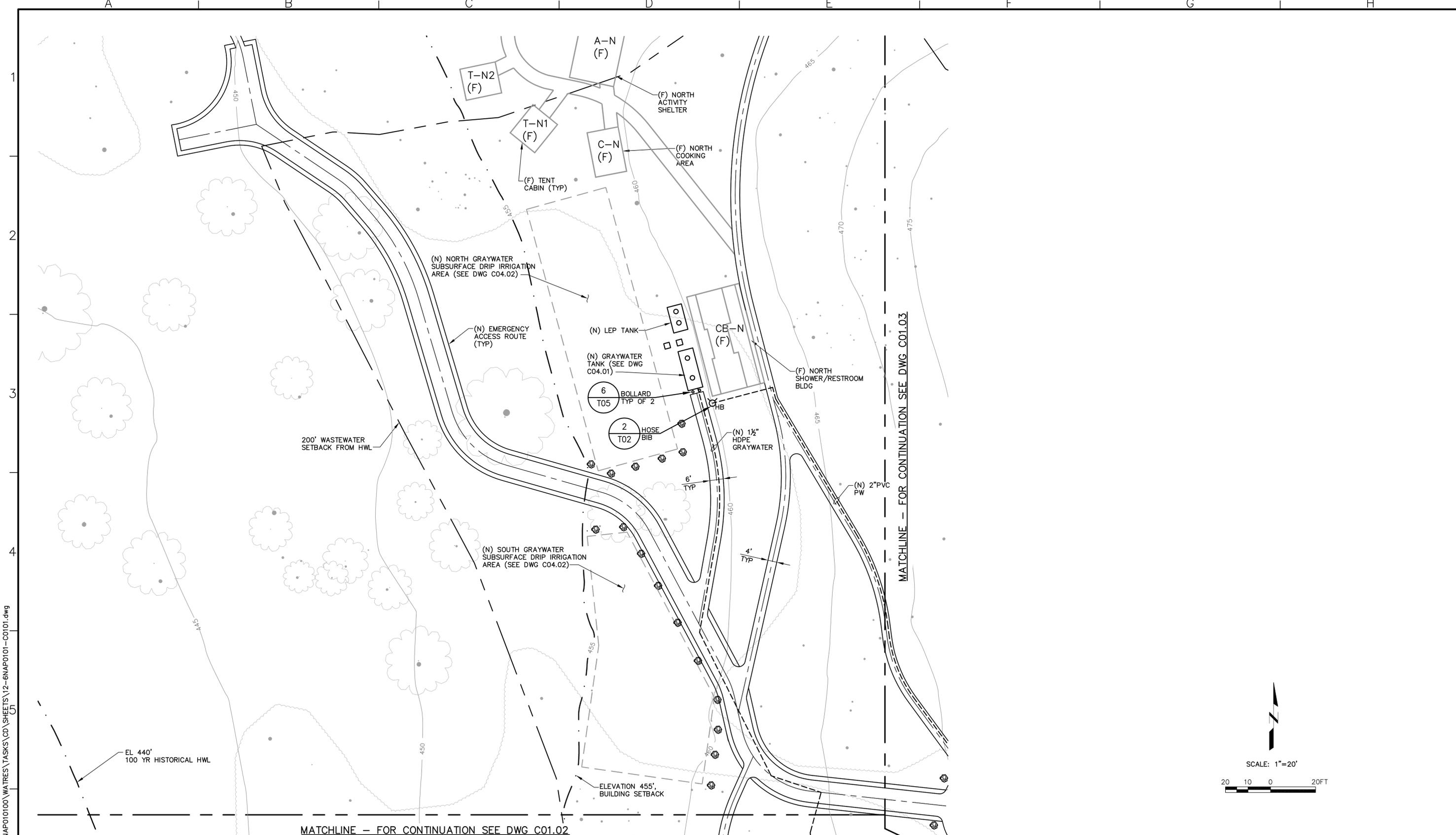
NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

CIVIL  
 DEMOLITION SITE PLAN  
 EAST

Scale  
 AS NOTED

Drawing No.  
**D01.03**

Sheet No.  
 11 of 70



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SKEMEN

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B14.1071 - 1079  
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0 LINE IS 2 INCHES AT FULL SCALE 2"  
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NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 CIVIL  
 SITE PLAN  
 NORTH

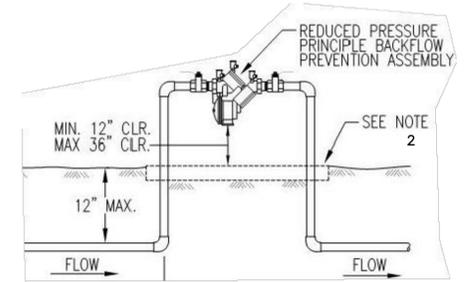
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 AS NOTED  
 Drawing No.  
**C01.01**  
 Sheet No.  
 12 of 70

MATCHLINE — FOR CONTINUATION SEE DWG C01.01

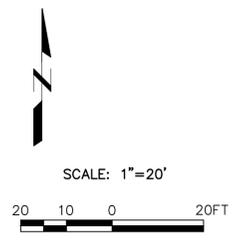
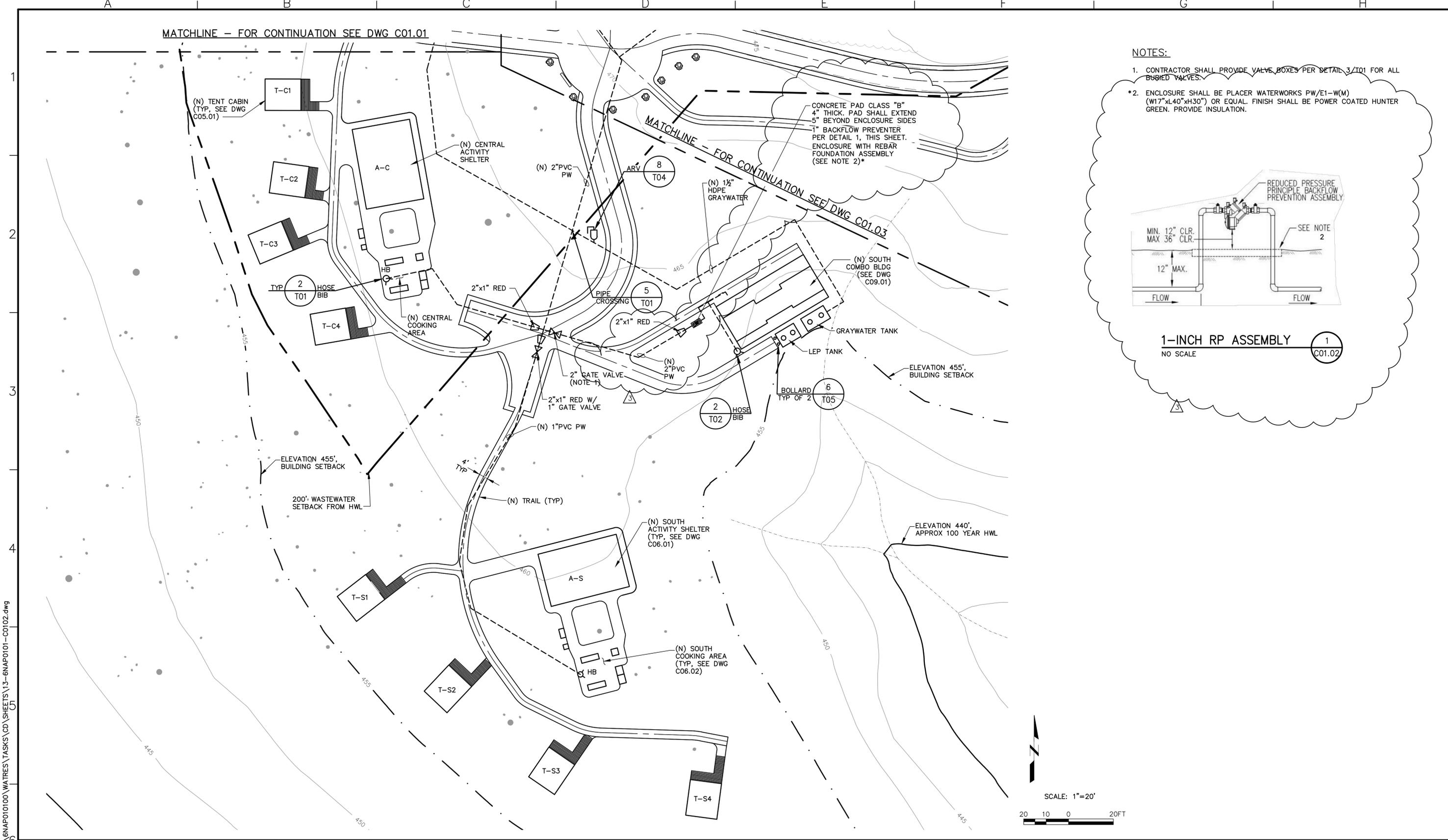
MATCHLINE — FOR CONTINUATION SEE DWG C01.03

NOTES:

- 1. CONTRACTOR SHALL PROVIDE VALVE BOXES PER DETAIL 3/T01 FOR ALL BURIED VALVES.
- \*2. ENCLOSURE SHALL BE PLACER WATERWORKS PW/E1-W(M) (W17"xL40"xH30") OR EQUAL. FINISH SHALL BE POWER COATED HUNTER GREEN. PROVIDE INSULATION.



1-INCH RP ASSEMBLY  
NO SCALE



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ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	BNAP010100
Rev 3	Date 9/12/14	By SK
	Description	PLAN REVISION

**PSOMAS**  
1075 Creekside Ridge Drive, Suite 200  
Roseville, Ca 95678  
Tel (916) 788-8122  
Fax (916) 788-0600

B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 2" LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

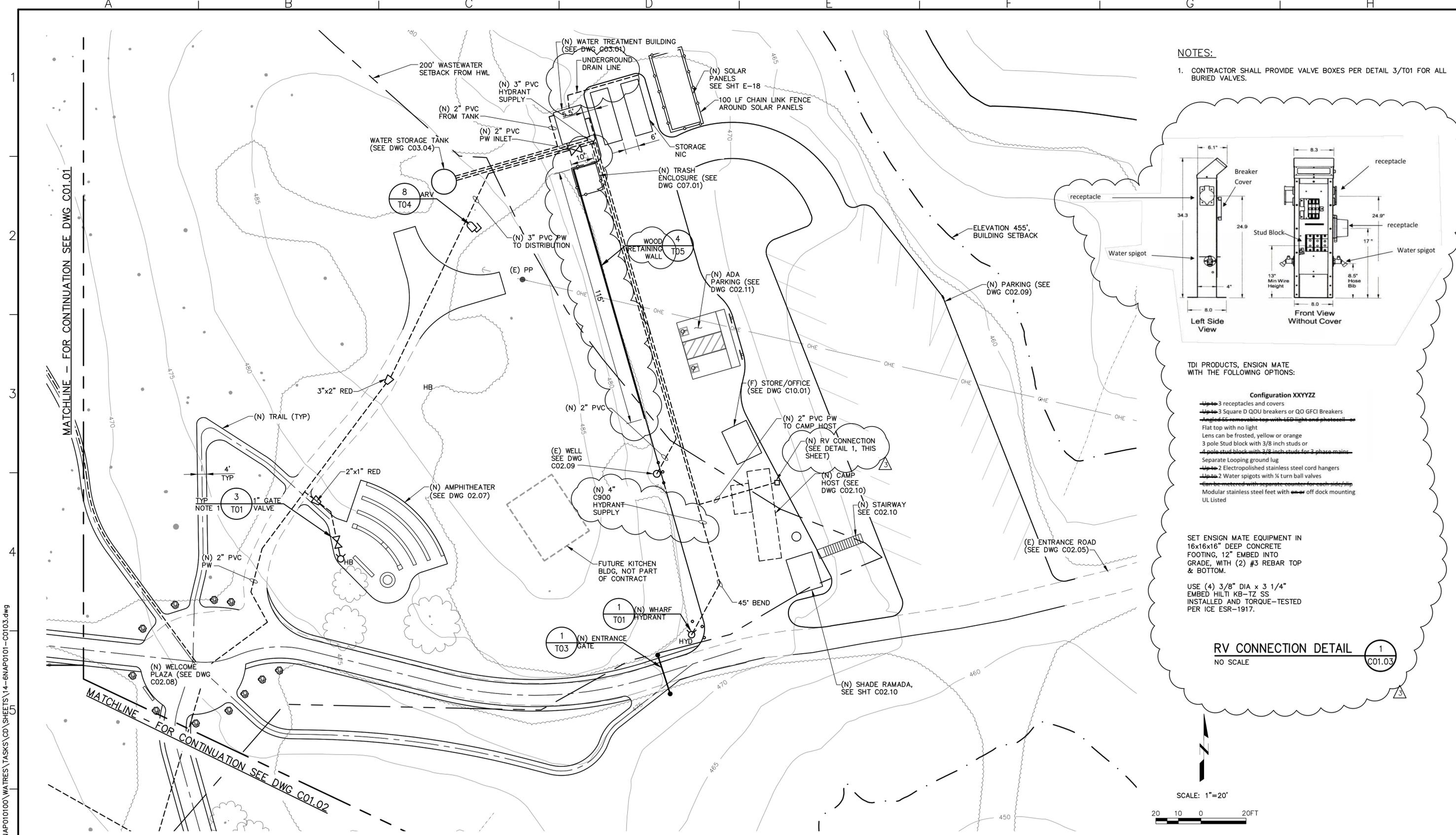
NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

CIVIL  
SITE PLAN  
SOUTH

Scale  
AS NOTED

Drawing No.  
C01.02

Sheet No.  
13 of 70



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	Job No.	BNAP010100
Rev 3	Date	9/12/14
By	Description	PLAN REVISION

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SEE SHEET G00.06 FOR BREAKDOWN

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IF LINE IS NOT 2" SCALE ACCORDINGLY

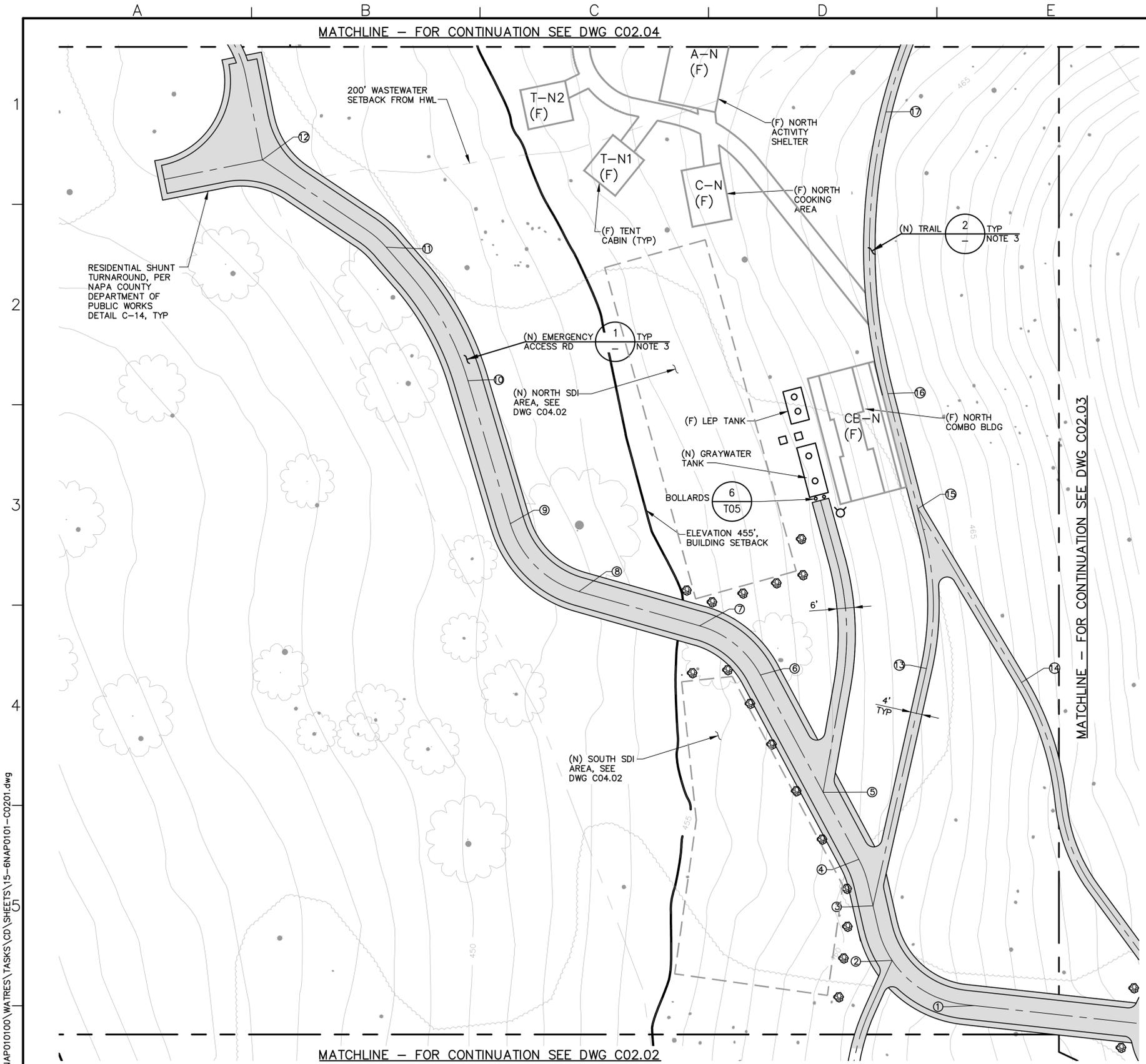
**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
SITE PLAN  
EAST

Scale  
AS NOTED

Drawing No.  
**C01.03**

Sheet No.  
14 of 70



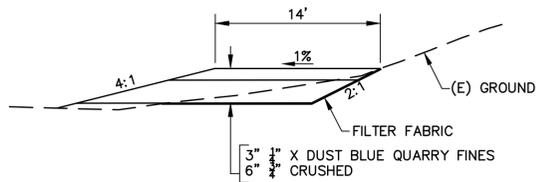
PATH LOCATION CHART

MARK NO.	NORTHING & EASTING	MARK NO.	NORTHING & EASTING
①	N: 1993790.94 E: 6477354.85	⑪	N: 1994055.87 E: 6477149.44
②	N: 1993806.75 E: 6477326.75	⑫	N: 1994086.37 E: 6477105.54
③	N: 1993825.83 E: 6477319.72	⑬	N: 1993908.68 E: 6477338.04
④	N: 1993839.88 E: 6477314.38	⑭	N: 1993903.80 E: 6477371.34
⑤	N: 1993865.43 E: 6477301.87	⑮	N: 1993964.54 E: 6477335.02
⑥	N: 1993905.05 E: 6477279.95	⑯	N: 1994006.76 E: 6477324.53
⑦	N: 1993923.61 E: 6477259.05	⑰	N: 1994103.15 E: 6477323.85
⑧	N: 1993935.59 E: 6477218.73		
⑨	N: 1993959.29 E: 6477194.51		
⑩	N: 1994009.26 E: 6477178.36		

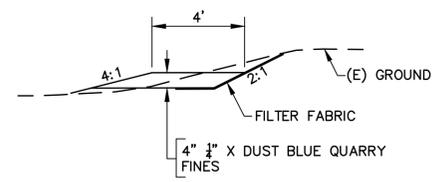
NOTE: CONTOURS WERE DEVELOPED FROM AERIAL SURVEY. ELEVATIONS ARE ACCURATE TO THE NEAREST 0.5 FEET.

NOTES:

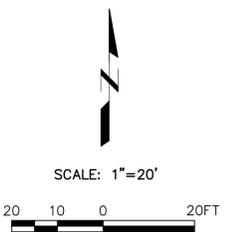
- CONTRACTOR SHALL CONSTRUCT ALL PATHS TO CONFORM TO OUTDOOR RECREATION ACCESS ROUTE (ORAR) STANDARDS AS REQUIRED BY ADA.
- IF ADJUSTMENTS IN TRAIL LOCATIONS ARE NEEDED TO MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL STAKE THE REVISED TRAIL LOCATION AND CONTACT THE OWNER FOR APPROVAL BEFORE INITIATING CONSTRUCTION.
- ONLY SHADED AREAS IN THE PATH SYSTEM SHALL BE FINISHED WITH 1/4" X DUST BLUE QUARRY FINES AS INDICATED IN THE DETAIL.
- VERIFY TRAIL GRADES WILL MEET ADA REQUIREMENTS PRIOR TO COMMENCING EARTHWORK.
- MINIMUM CENTERLINE RADII ON EMERGENCY ACCESS ROUTES - 30 FEET.



EMERGENCY ACCESS ROAD SECTION 1  
NO SCALE



TRAIL SECTION 2  
NO SCALE



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	Job No.	BNAP010100
Rev	Date	By
		Description

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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN  
0" LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
CIVIL  
GRADING & TRAIL PLAN  
NORTH

Scale  
AS NOTED  
Drawing No.  
**C02.01**  
Sheet No.  
15 of 70

MATCHLINE — FOR CONTINUATION SEE DWG C02.01

MATCHLINE — FOR CONTINUATION SEE DWG C02.03

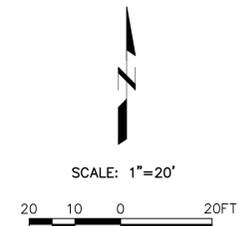
NOTES:

1. CONTRACTOR SHALL CONSTRUCT ALL PATHS TO CONFORM TO OUTDOOR RECREATION ACCESS ROUTE (ORAR) STANDARDS AS REQUIRED BY ADA.
2. IF ADJUSTMENTS IN TRAIL LOCATIONS ARE NEEDED TO MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL STAKE THE REVISED TRAIL LOCATION AND CONTACT THE OWNER FOR APPROVAL BEFORE INITIATING CONSTRUCTION.
3. ONLY SHADED AREAS IN THE PATH SYSTEM SHALL BE FINISHED WITH 1/2" X DUST BLUE QUARRY FINES AS INDICATED IN THE DETAIL.
4. THESE AREAS ARE INTENDED FOR VEHICLE TRAFFIC ONLY — NO ADA ACCESS.
5. VERIFY TRAIL GRADES WILL MEET ADA REQUIREMENTS PRIOR TO COMMENCING EARTHWORK.
6. MINIMUM CENTERLINE RADII ON EMERGENCY ACCESS ROUTES — 30 FEET.

PATH LOCATION CHART

MARK NO.	NORTHING & EASTING	MARK NO.	NORTHING & EASTING
1	N: 1993473.75 E: 6477485.25	13	N: 1993664.18 E: 6477429.16
2	N: 1993478.37 E: 6477423.65	14	N: 1993700.86 E: 6477436.92
3	N: 1993510.19 E: 6477382.07	15	N: 1993742.56 E: 6477432.72
4	N: 1993549.57 E: 6477369.21	16	N: 1993777.14 E: 6477432.98
5	N: 1993615.52 E: 6477389.63	17	N: 1993648.97 E: 6477381.45
6	N: 1993655.27 E: 6477402.89	18	N: 1993660.96 E: 6477338.86
7	N: 1993651.49 E: 6477504.89	19	N: 1993699.37 E: 6477310.16
8	N: 1993633.37 E: 6477481.56	20	N: 1993713.66 E: 6477309.76
9	N: 1993634.49 E: 6477465.15	21	N: 1993755.52 E: 6477312.05
10	N: 1993650.31 E: 6477419.18		
11	N: 1993693.85 E: 6477517.29		
12	N: 1993652.28 E: 6477447.33		

NOTE: CONTOURS WERE DEVELOPED FROM AERIAL SURVEY. ELEVATIONS ARE ACCURATE TO THE NEAREST 0.5 FEET.



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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
CIVIL  
GRADING & TRAIL PLAN  
SOUTH

Scale  
AS NOTED  
Drawing No.  
**C02.02**  
Sheet No.  
16 of 70

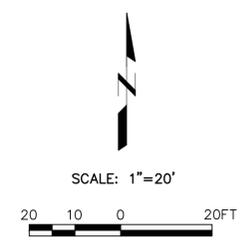


- NOTES:**
1. CONTRACTOR SHALL CONSTRUCT ALL PATHS TO CONFORM TO OUTDOOR RECREATION ACCESS ROUTE (ORAR) STANDARDS AS REQUIRED BY ADA.
  2. IF ADJUSTMENTS IN TRAIL LOCATIONS ARE NEEDED TO MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL STAKE THE REVISED TRAIL LOCATION AND CONTACT THE OWNER FOR APPROVAL BEFORE INITIATING CONSTRUCTION.
  3. ONLY SHADED AREAS IN THE PATH SYSTEM SHALL BE FINISHED WITH 1/4" X DUST BLUE QUARRY FINES AS INDICATED IN THE DETAIL.
  4. THESE AREAS ARE INTENDED FOR VEHICLE TRAFFIC ONLY - NO ADA ACCESS.
  5. THE CONTRACTOR SHALL INSURE THIS ROUTE TO THE TRAIL SYSTEM IS ADA COMPLIANT.
  6. VERIFY TRAIL GRADES WILL MEET ADA REQUIREMENTS PRIOR TO COMMENCING EARTHWORK.
  7. MINIMUM CENTERLINE RADII ON EMERGENCY ACCESS ROUTES - 30 FEET.

**PATH LOCATION CHART**

MARK NO.	NORTHING & EASTING
③	N: 1993885.36 E: 6477438.79
④	N: 1993833.92 E: 6477438.62
⑥	N: 1993858.78 E: 6477478.99
⑨	N: 1993752.04 E: 6477468.28
⑩	N: 1993736.03 E: 6477605.22
⑪	N: 1993765.67 E: 6477634.69

NOTE: CONTOURS WERE DEVELOPED FROM AERIAL SURVEY. ELEVATIONS ARE ACCURATE TO THE NEAREST 0.5 FEET.



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		Description

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SEE SHEET G00.06 FOR BREAKDOWN

0 1" LINE IS 2 INCHES AT FULL SCALE 2"  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
**GRADING & TRAIL PLAN  
EAST**

Scale  
AS NOTED

Drawing No.  
**C02.03**

Sheet No.  
17 of 70

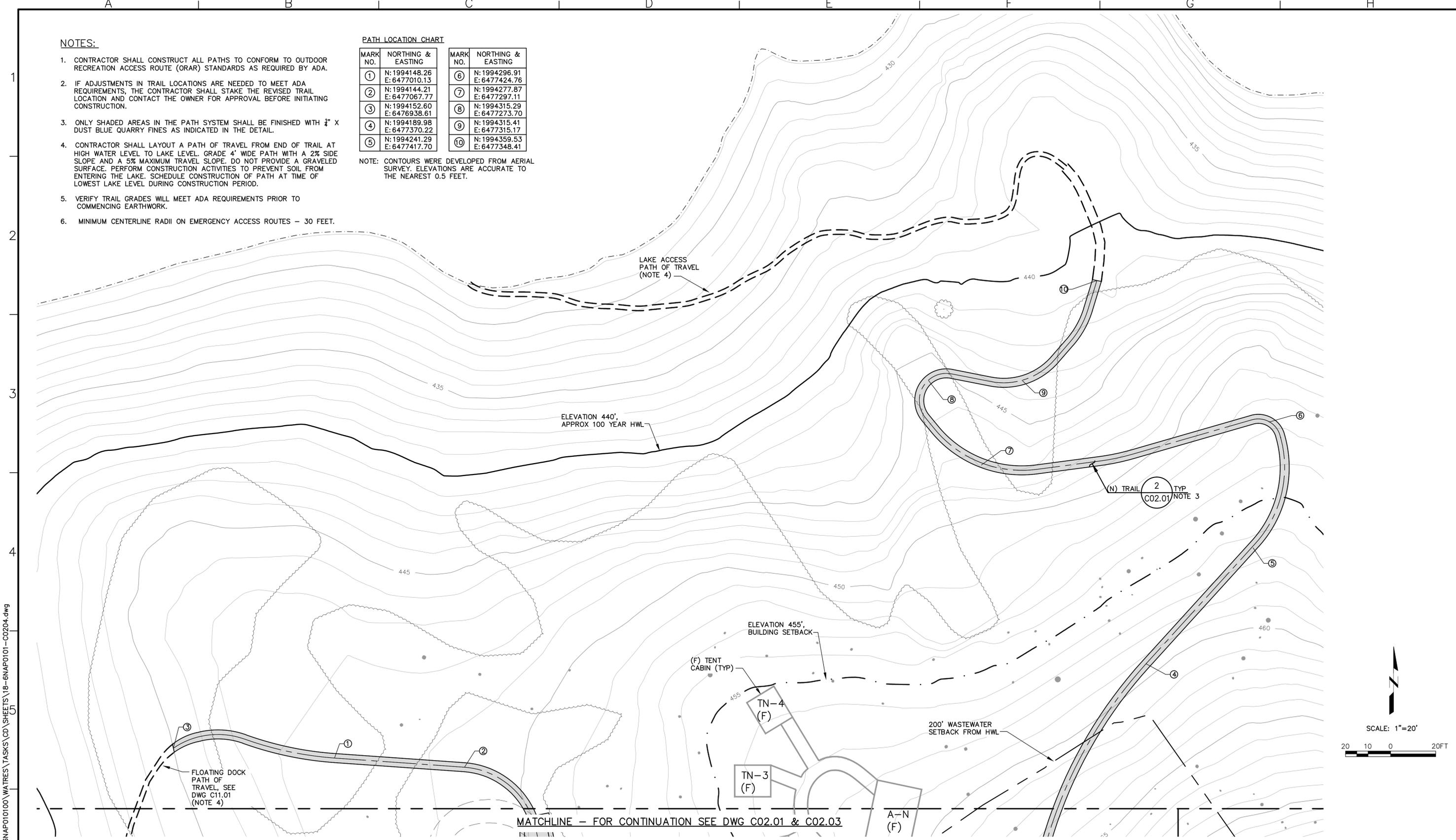
**NOTES:**

- CONTRACTOR SHALL CONSTRUCT ALL PATHS TO CONFORM TO OUTDOOR RECREATION ACCESS ROUTE (ORAR) STANDARDS AS REQUIRED BY ADA.
- IF ADJUSTMENTS IN TRAIL LOCATIONS ARE NEEDED TO MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL STAKE THE REVISED TRAIL LOCATION AND CONTACT THE OWNER FOR APPROVAL BEFORE INITIATING CONSTRUCTION.
- ONLY SHADED AREAS IN THE PATH SYSTEM SHALL BE FINISHED WITH 1/4" X DUST BLUE QUARRY FINES AS INDICATED IN THE DETAIL.
- CONTRACTOR SHALL LAYOUT A PATH OF TRAVEL FROM END OF TRAIL AT HIGH WATER LEVEL TO LAKE LEVEL. GRADE 4' WIDE PATH WITH A 2% SIDE SLOPE AND A 5% MAXIMUM TRAVEL SLOPE. DO NOT PROVIDE A GRAVELED SURFACE. PERFORM CONSTRUCTION ACTIVITIES TO PREVENT SOIL FROM ENTERING THE LAKE. SCHEDULE CONSTRUCTION OF PATH AT TIME OF LOWEST LAKE LEVEL DURING CONSTRUCTION PERIOD.
- VERIFY TRAIL GRADES WILL MEET ADA REQUIREMENTS PRIOR TO COMMENCING EARTHWORK.
- MINIMUM CENTERLINE RADII ON EMERGENCY ACCESS ROUTES - 30 FEET.

**PATH LOCATION CHART**

MARK NO.	NORTHING & EASTING	MARK NO.	NORTHING & EASTING
①	N: 1994148.26 E: 6477010.13	⑥	N: 1994296.91 E: 6477424.76
②	N: 1994144.21 E: 6477067.77	⑦	N: 1994277.87 E: 6477297.11
③	N: 1994152.60 E: 6476938.61	⑧	N: 1994315.29 E: 6477273.70
④	N: 1994189.98 E: 6477370.22	⑨	N: 1994315.41 E: 6477315.17
⑤	N: 1994241.29 E: 6477417.70	⑩	N: 1994359.53 E: 6477348.41

NOTE: CONTOURS WERE DEVELOPED FROM AERIAL SURVEY. ELEVATIONS ARE ACCURATE TO THE NEAREST 0.5 FEET.



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Rev	Date	By
		Description

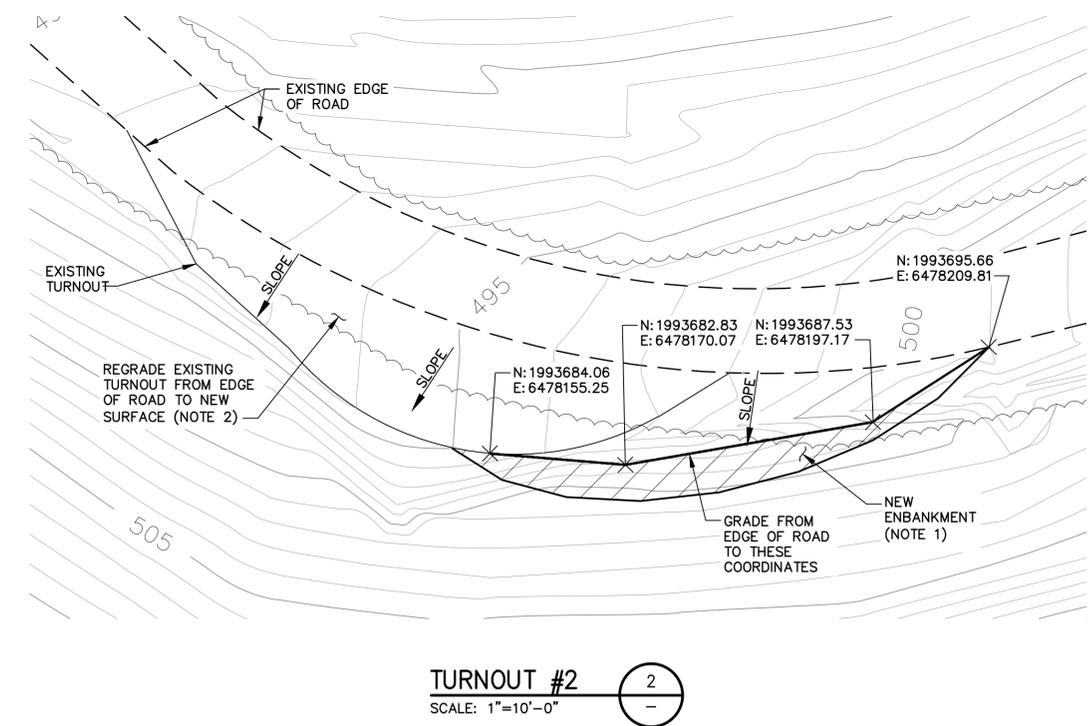
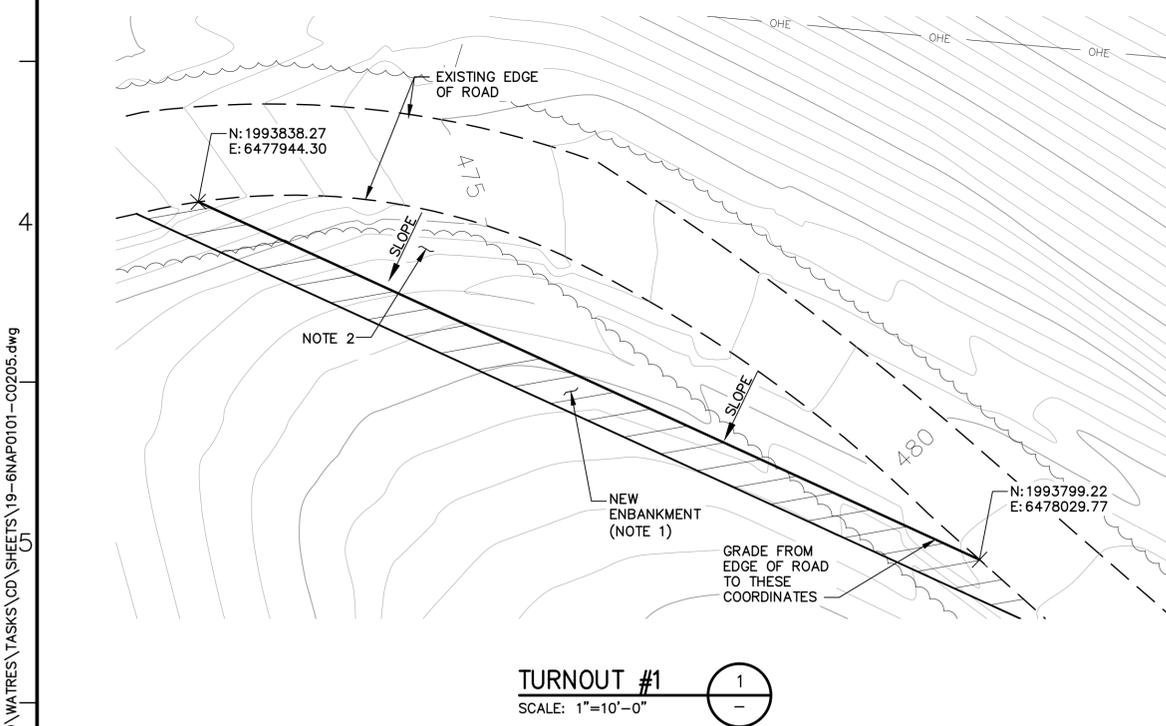
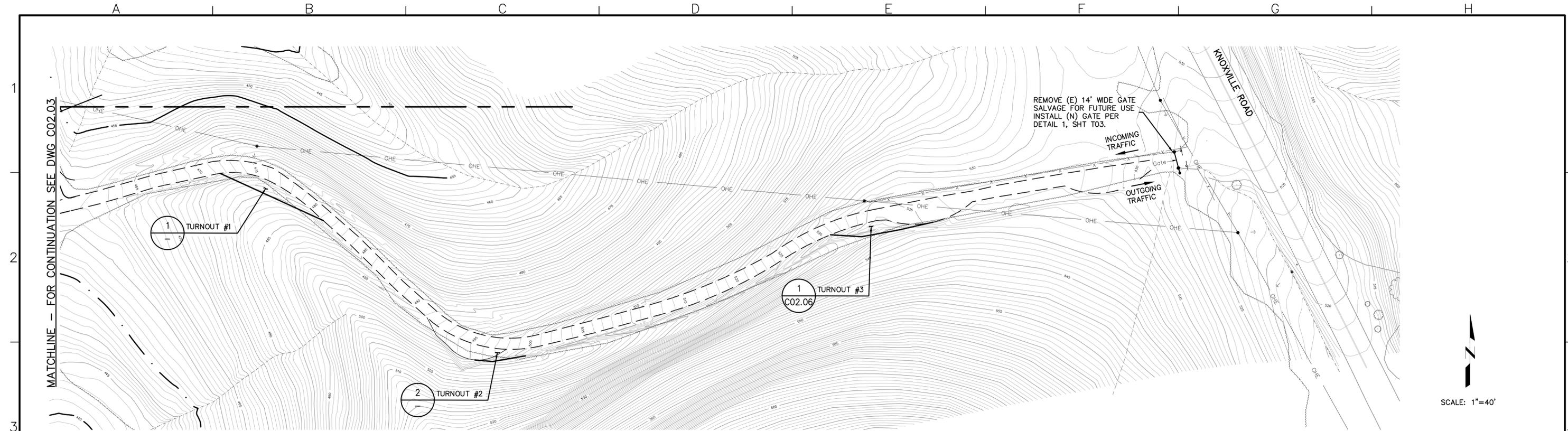
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0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
CIVIL  
**GRADING & TRAIL PLAN  
NORTH TRAIL & BEACH AREA**

Scale  
AS NOTED  
Drawing No.  
**C02.04**  
Sheet No.  
18 of 70



- NOTES:**
- CONTRACTOR SHALL SLOPE THE FACE OF THE NEW ENBANKMENT AT 2:1 IF INTO ROCK, 1:1 IS ACCEPTABLE.
  - FINISHED TURNOUT SURFACES SHALL BE SLOPED 5% FROM EDGE OF EXISTING ROAD.
  - THE OWNER SHALL CLEAR ALL VEGETATION 10' ON EITHER SIDE OF ENTRANCE ROAD.
  - BLUE SHALE GRAVEL WILL BE ADDED TO ENTRANCE ROAD AT THE END OF CONSTRUCTION. REFERENCE SPECIFICATION FOR GRAVEL QUANTITY, QUALITY, AND INSTALLATION METHOD REQUIRED.

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			JAC
			Checked
			SAK
			Job No.
			BNAP010100
Rev	Date	By	Description
1	8/12/14	SK	CROSS SLOPE REVISED PER PW

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SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
CIVIL  
ENTRANCE ROAD IMPROVEMENTS  
OVERALL PLAN & DETAILS

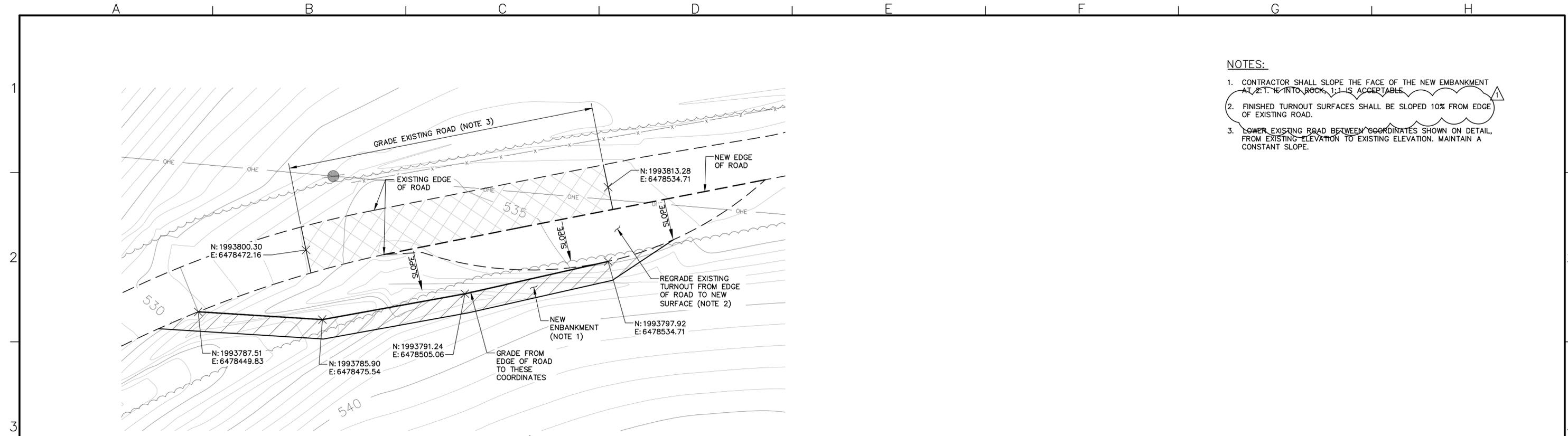
Scale  
AS NOTED

Drawing No.  
C02.05

Sheet No.  
19 of 70

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SKEMEN



- NOTES:**
- CONTRACTOR SHALL SLOPE THE FACE OF THE NEW ENBANKMENT AT 2:1. IF INTO ROCK, 1:1 IS ACCEPTABLE.
  - FINISHED TURNOUT SURFACES SHALL BE SLOPED 10% FROM EDGE OF EXISTING ROAD.
  - LOWER EXISTING ROAD BETWEEN COORDINATES SHOWN ON DETAIL, FROM EXISTING ELEVATION TO EXISTING ELEVATION. MAINTAIN A CONSTANT SLOPE.

**TURNOUT #3**  
SCALE: 1"=10'-0"

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				SAK
				Job No.
				6NAP010100
Rev	Date	By	Description	
△	8/12/14	SK	CROSS SLOPE REVISED PER PW	

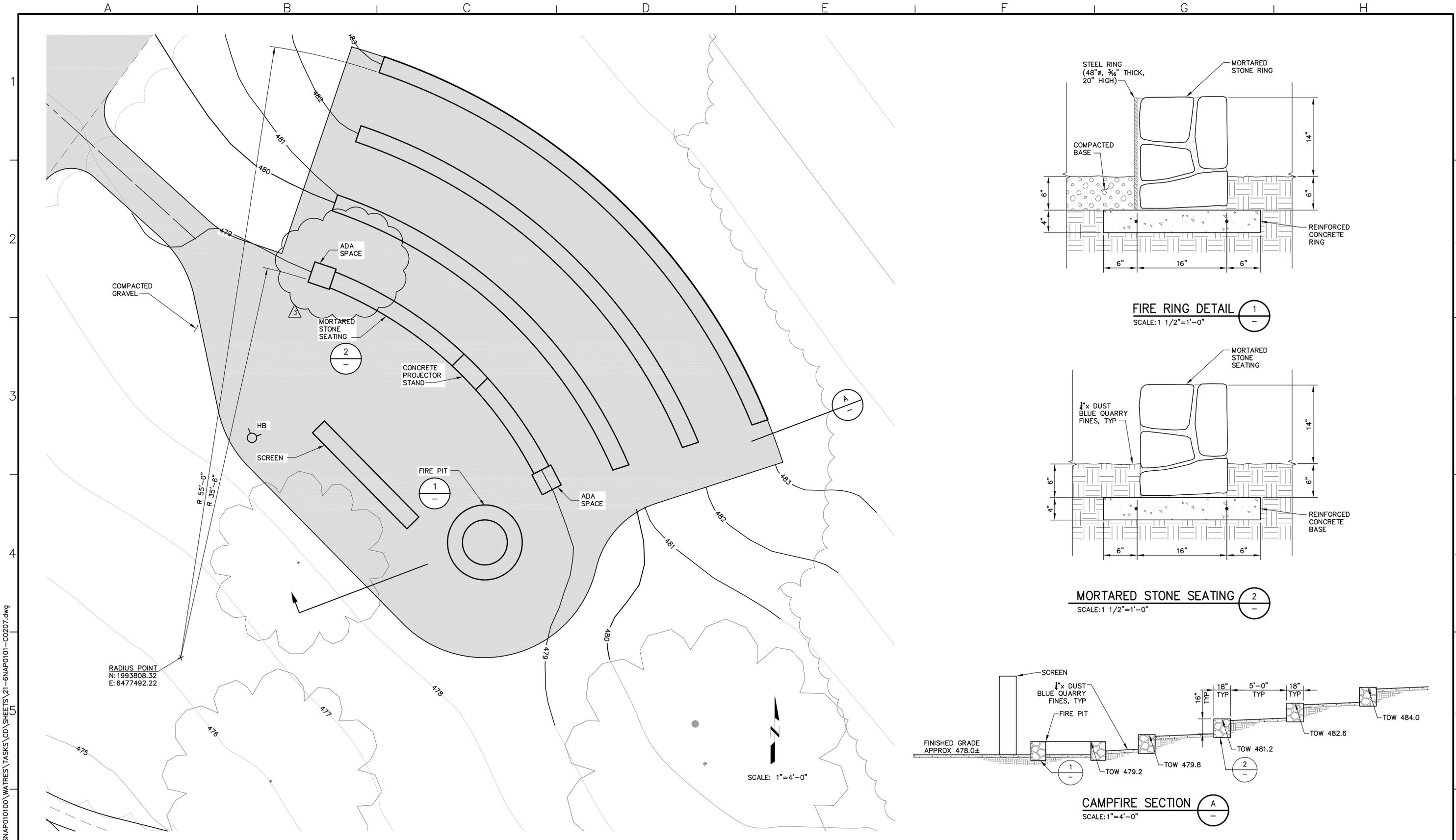
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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 1" LINE IS 2 INCHES 2"  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
CIVIL  
ENTRANCE ROAD IMPROVEMENTS  
DETAILS 2

Scale  
AS NOTED  
Drawing No.  
**C02.06**  
Sheet No.  
20 of 70



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Rev 3	Date	9/12/14
By	SK	USBR COMMENTS
	Description	

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NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 CIVIL  
 AMPHITHEATER PLAN, SECTION & DETAILS

Scale  
 AS NOTED  
 Drawing No.  
**C02.07**  
 Sheet No.  
 21 of 70



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3	9/12/14	SK	PLAN REVISION	

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NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

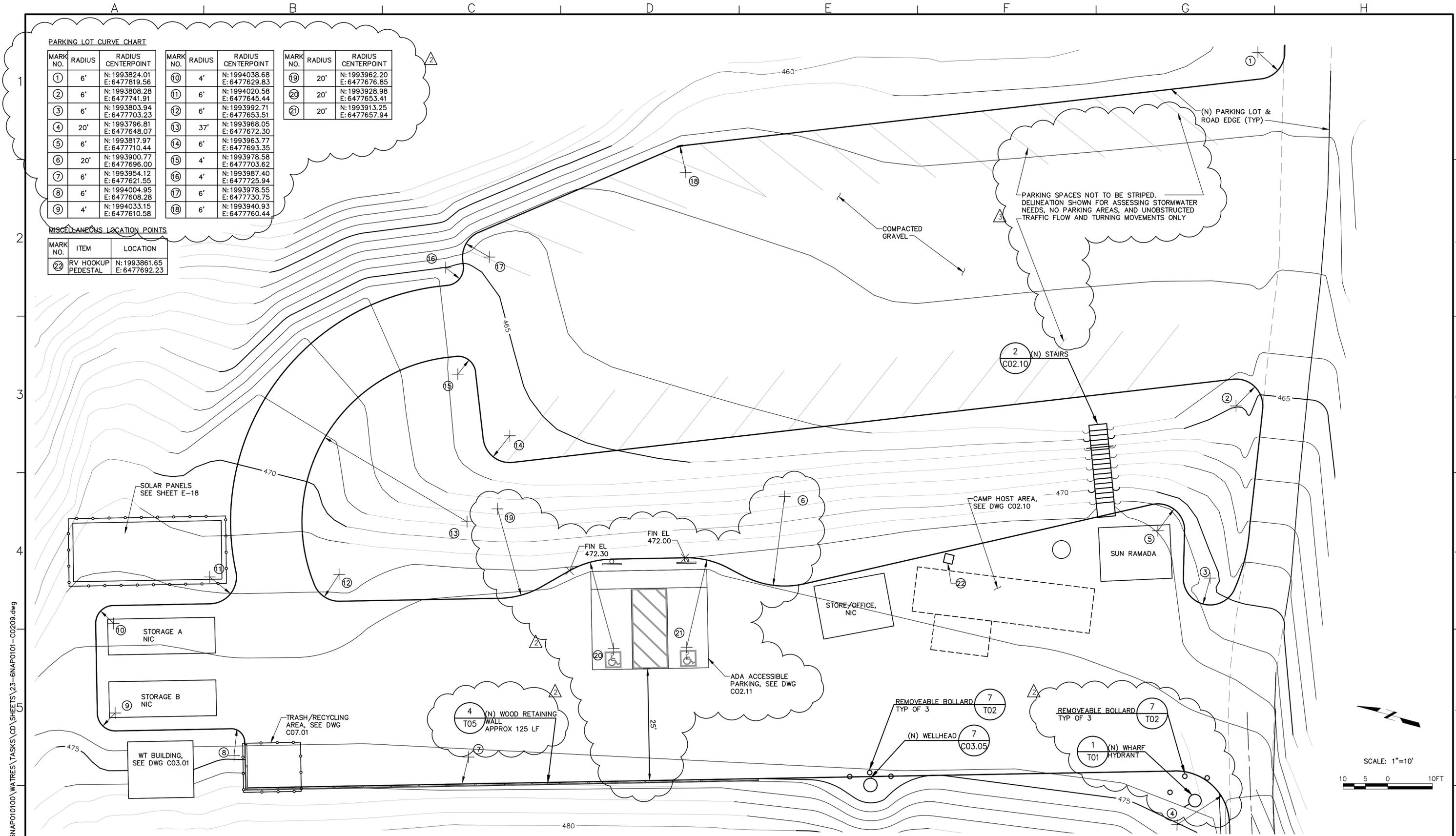
CIVIL

WELCOME PLAZA PLAN

Scale  
 AS NOTED

Drawing No.  
**C02.08**

Sheet No.  
 22 of 70



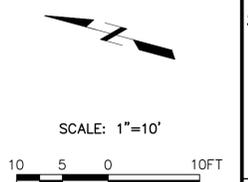
**PARKING LOT CURVE CHART**

MARK NO.	RADIUS	RADIUS CENTERPOINT	MARK NO.	RADIUS	RADIUS CENTERPOINT	MARK NO.	RADIUS	RADIUS CENTERPOINT
①	6'	N: 1993824.01 E: 6477819.56	⑩	4'	N: 1994038.68 E: 6477629.83	⑱	20'	N: 1993962.20 E: 6477676.85
②	6'	N: 1993808.28 E: 6477741.91	⑪	6'	N: 1994020.58 E: 6477645.44	⑲	20'	N: 1993928.98 E: 6477653.41
③	6'	N: 1993803.94 E: 6477703.23	⑫	6'	N: 1993992.71 E: 6477653.51	⑳	20'	N: 1993913.25 E: 6477657.94
④	20'	N: 1993796.81 E: 6477648.07	⑬	37'	N: 1993968.05 E: 6477672.30			
⑤	6'	N: 1993817.97 E: 6477710.44	⑭	6'	N: 1993963.77 E: 6477693.35			
⑥	20'	N: 1993900.77 E: 6477696.00	⑮	4'	N: 1993978.58 E: 6477703.62			
⑦	6'	N: 1993954.12 E: 6477621.55	⑯	4'	N: 1993987.40 E: 6477725.94			
⑧	6'	N: 1994004.95 E: 6477608.28	⑰	6'	N: 1993978.55 E: 6477730.75			
⑨	4'	N: 1994033.15 E: 6477610.58	⑱	6'	N: 1993940.93 E: 6477760.44			

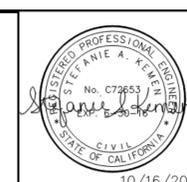
**MISCELLANEOUS LOCATION POINTS**

MARK NO.	ITEM	LOCATION
⑳	RV HOOKUP PEDESTAL	N: 1993861.65 E: 6477692.23

P:\GNAP0100\WATRES\TASKS\CD\SHEETS\23-6NAP0101-CO209.dwg



**BID DRAWINGS**



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9/12/14	SK		PUBLIC WORKS COMMENTS
8/29/14	SK		PUBLIC WORKS & FIRE DIVISION COMMENTS

ISSUED FOR BIDS	Designed	ELL
ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	BNAP010100

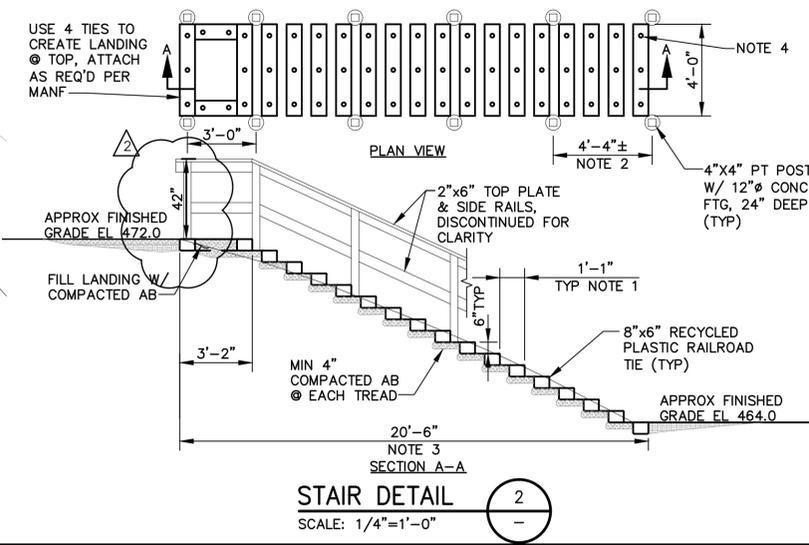
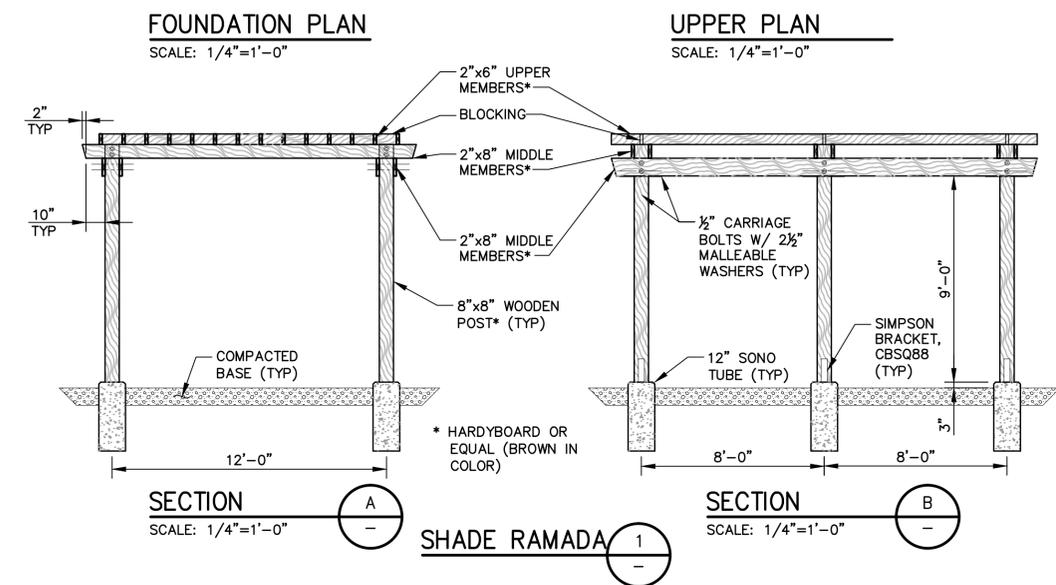
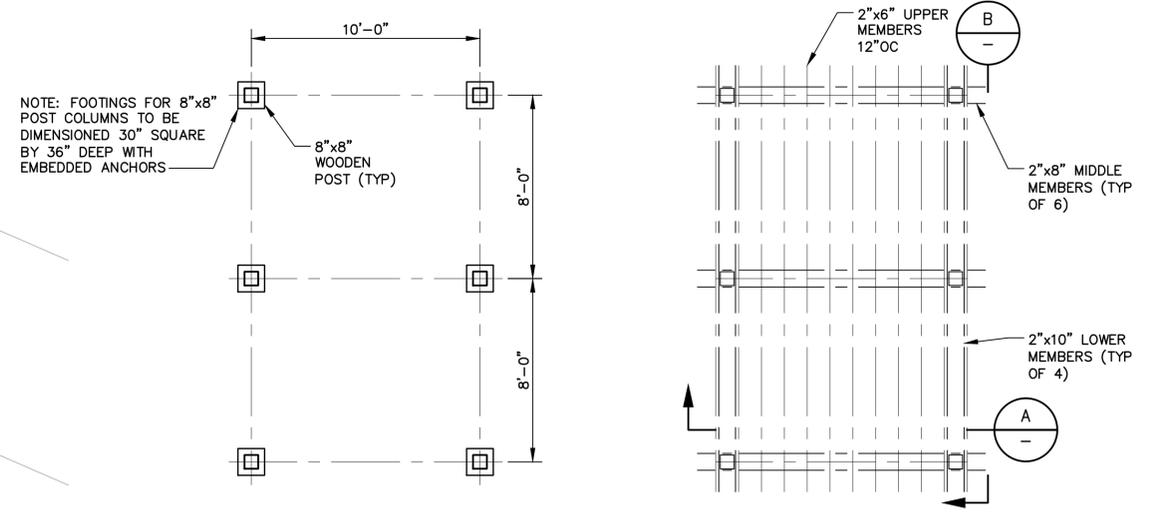
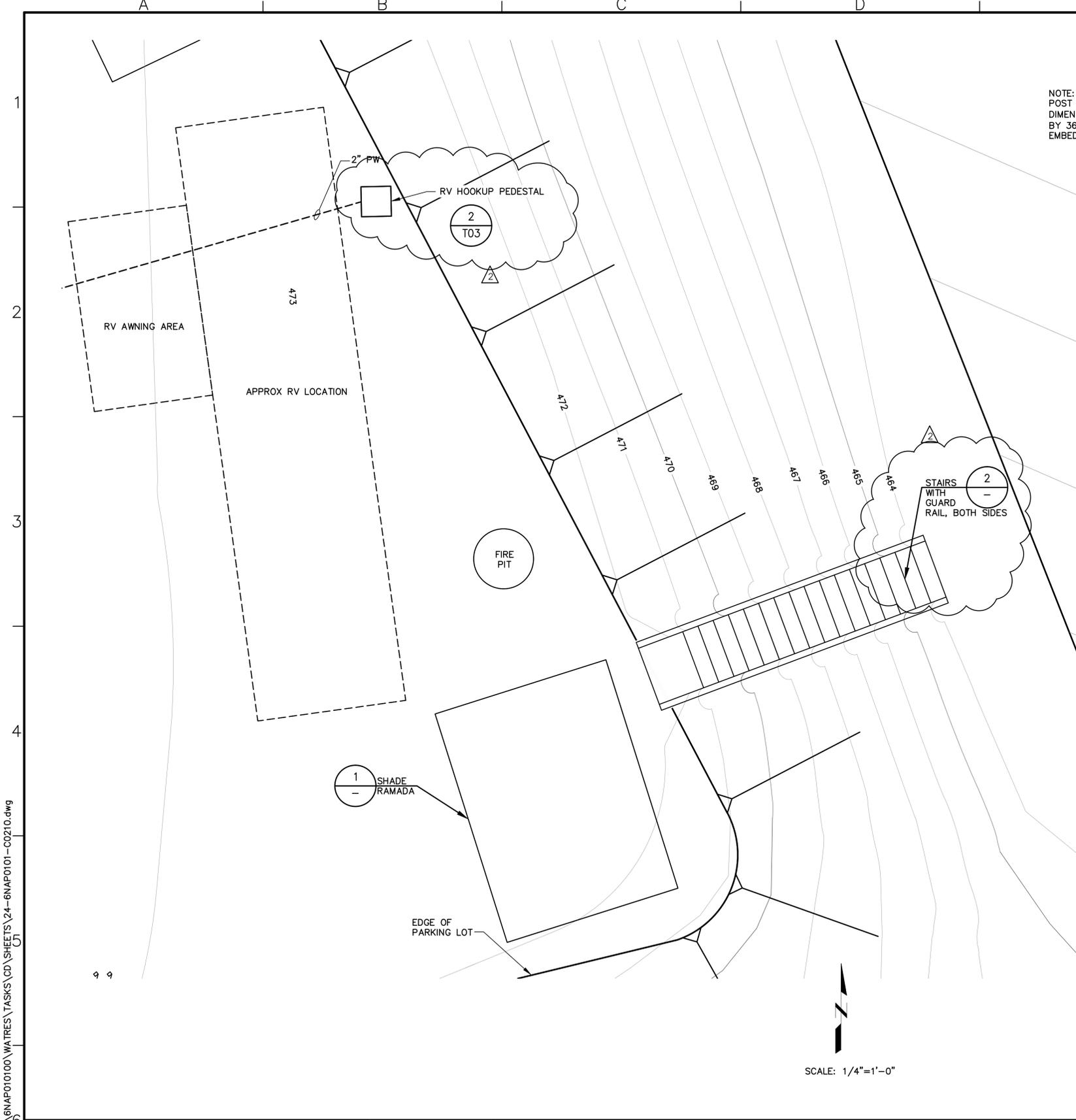
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Fax (916) 788-0600

B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0" LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
CIVIL  
**PARKING LOT PLAN**

Scale	AS NOTED
Drawing No.	C02.09
Sheet No.	23 of 70



- NOTES:
- TREAD AND RISER DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE TOTAL RISE AND RUN OF STAIRS IN FIELD AFTER FINISHED GRADING OF THE PARKING LOT AND ADJUST STAIRS AS NECESSARY. ALL TREAD AND RISER DIMENSIONS WILL BE EQUAL.
  - ADJUST TO MEET CONDITIONS IN THE FIELD, BUT NOT TO EXCEED 4'-6".
  - CONTRACTOR SHALL VERIFY THIS DIMENSION IN THE FIELD.
  - ANCHOR TIES INTO GROUND WITH #4 REINF BAR AT THREE PLACES, EVENLY SPACED, MINIMUM 18" EMBEDMENT.

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				Checked	SAK
				Job No.	BNAP010100
Rev	Date	By	Description		
2	8/29/14	SK	PUBLIC WORKS REVISIONS		

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SEE SHEET G00.06 FOR BREAKDOWN

0 1 LINE IS 2 INCHES AT FULL SCALE 2  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

CIVIL

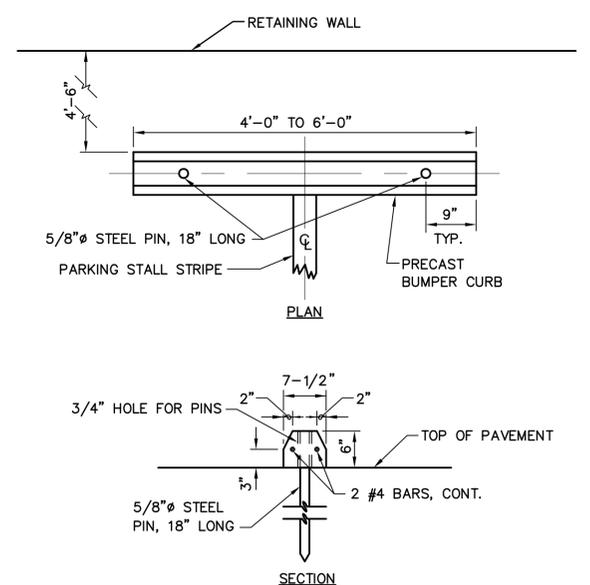
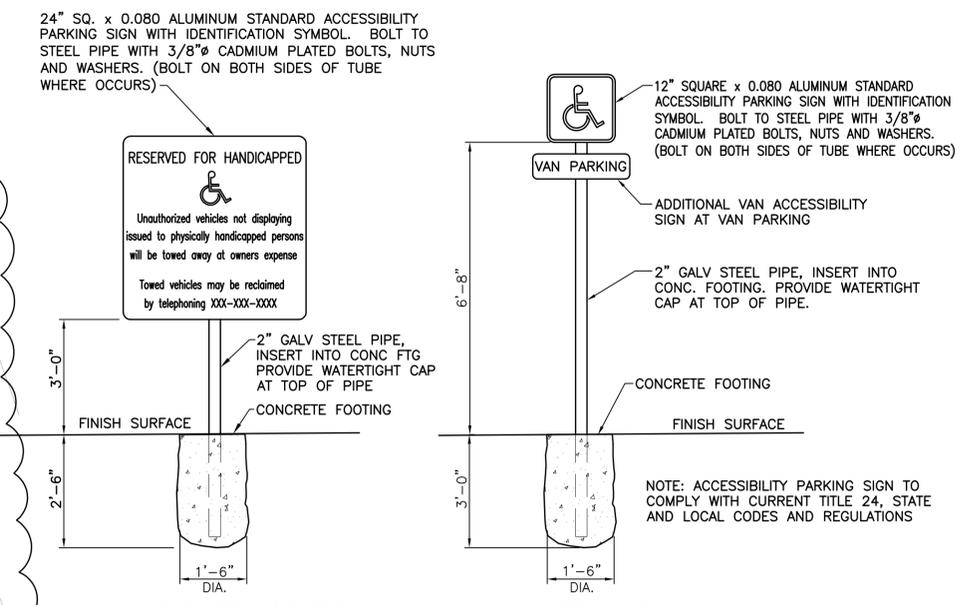
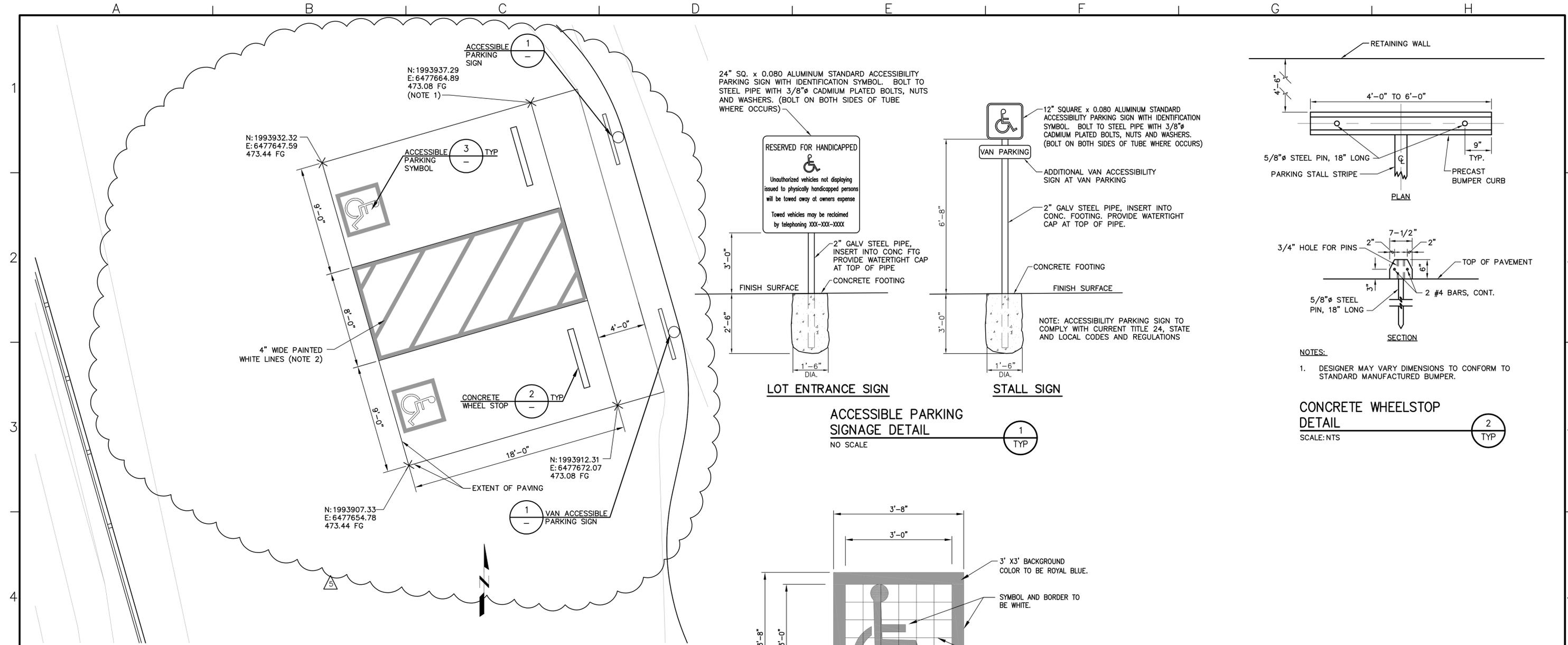
**CAMP HOST PLAN**

Scale  
AS NOTED

Drawing No.  
**C02.10**

Sheet No.  
24 of 70

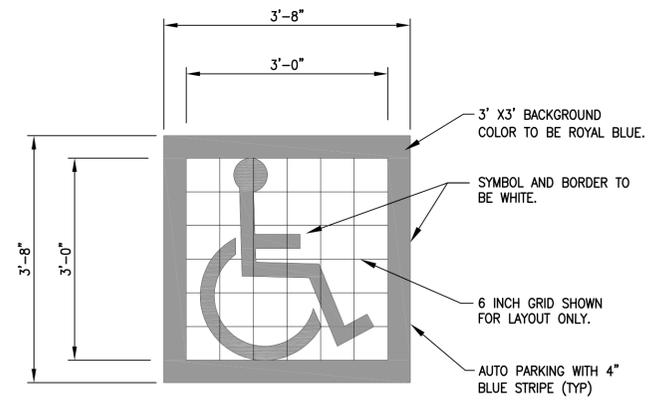
P:\GNAP010100\WATRES\TASKS\CD\SHEETS\24--GNAP0101--C0210.dwg



**ADA PARKING DETAIL** 1  
 SCALE: 1"=4'-0"

**ACCESSIBLE PARKING SIGNAGE DETAIL** 1  
 NO SCALE

**CONCRETE WHEELSTOP DETAIL** 2  
 SCALE: NTS



- NOTES:**
- CENTER SYMBOL IN THE PARKING STALL. ALIGN THE BOTTOM EDGE OF THE SYMBOL WITH THE FRONT (ROAD SIDE) OF THE PARKING STALL.

**ACCESSIBLE PARKING SYMBOL DETAIL** 3  
 SCALE: NTS

- NOTES:**
- ACCESSIBLE PARKING SLOPE SHALL NOT EXCEED A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
  - THE WHITE LINES SHALL BE PAINTED AT A 45° ANGLE FROM THE SIDE OF THE PARKING STALL AT 36-INCHES ON CENTER.

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	Checked	SAK
	Job No.	BNAP010100
Rev	Date	By
SK	PLAN REVISION	

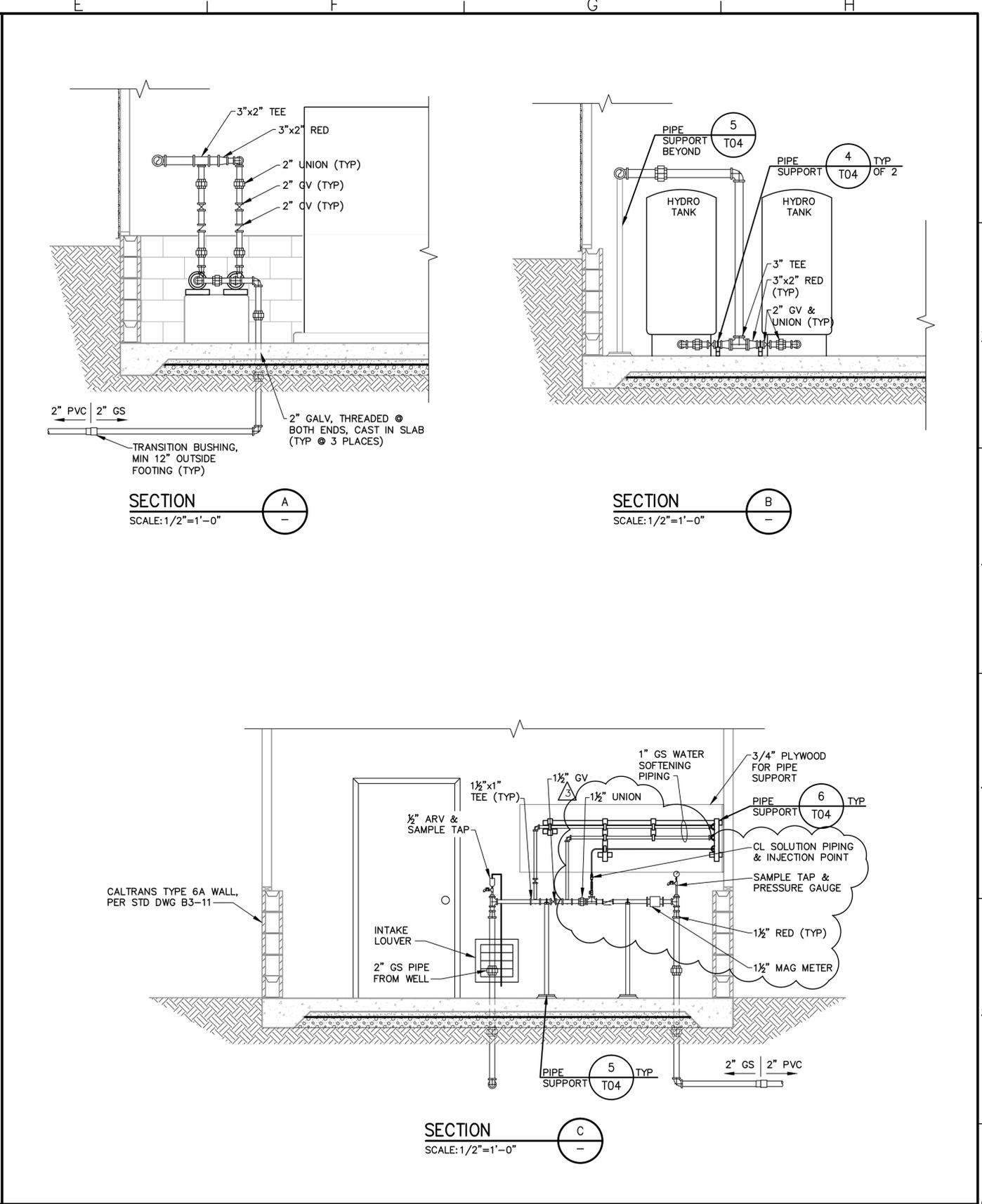
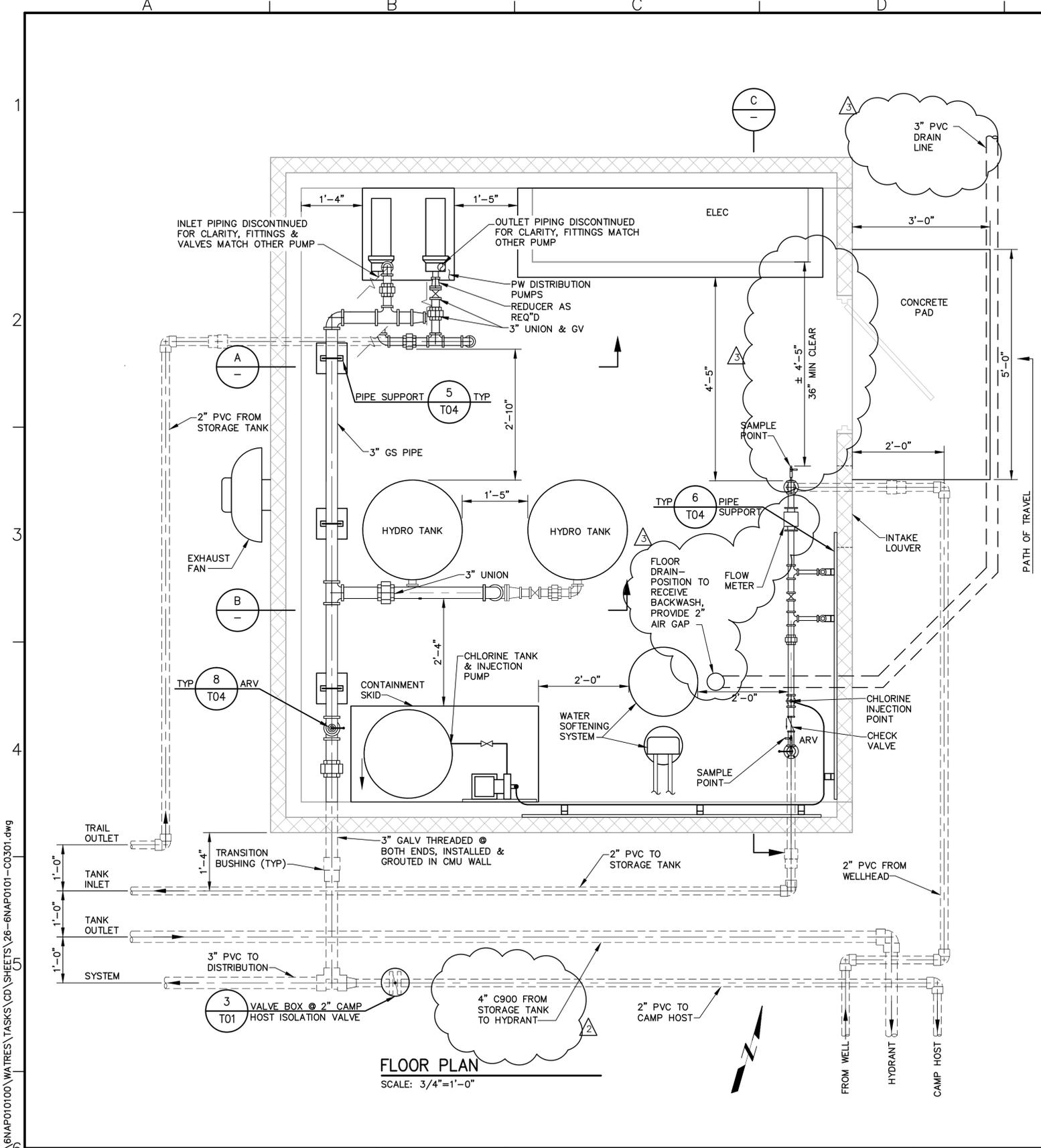
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 IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 CIVIL  
 ADA PARKING PLAN & DETAILS

Scale AS NOTED  
 Drawing No. C02.11  
 Sheet No. 25 of 70



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1	9/12/14	SK	PLAN CLARIFICATION
2	8/29/14	SK	PUBLIC WORKS COMMENTS

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ISSUED FOR CONSTRUCTION	Drawn JAC
	Checked DWH
	Job No. BNAP010100

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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

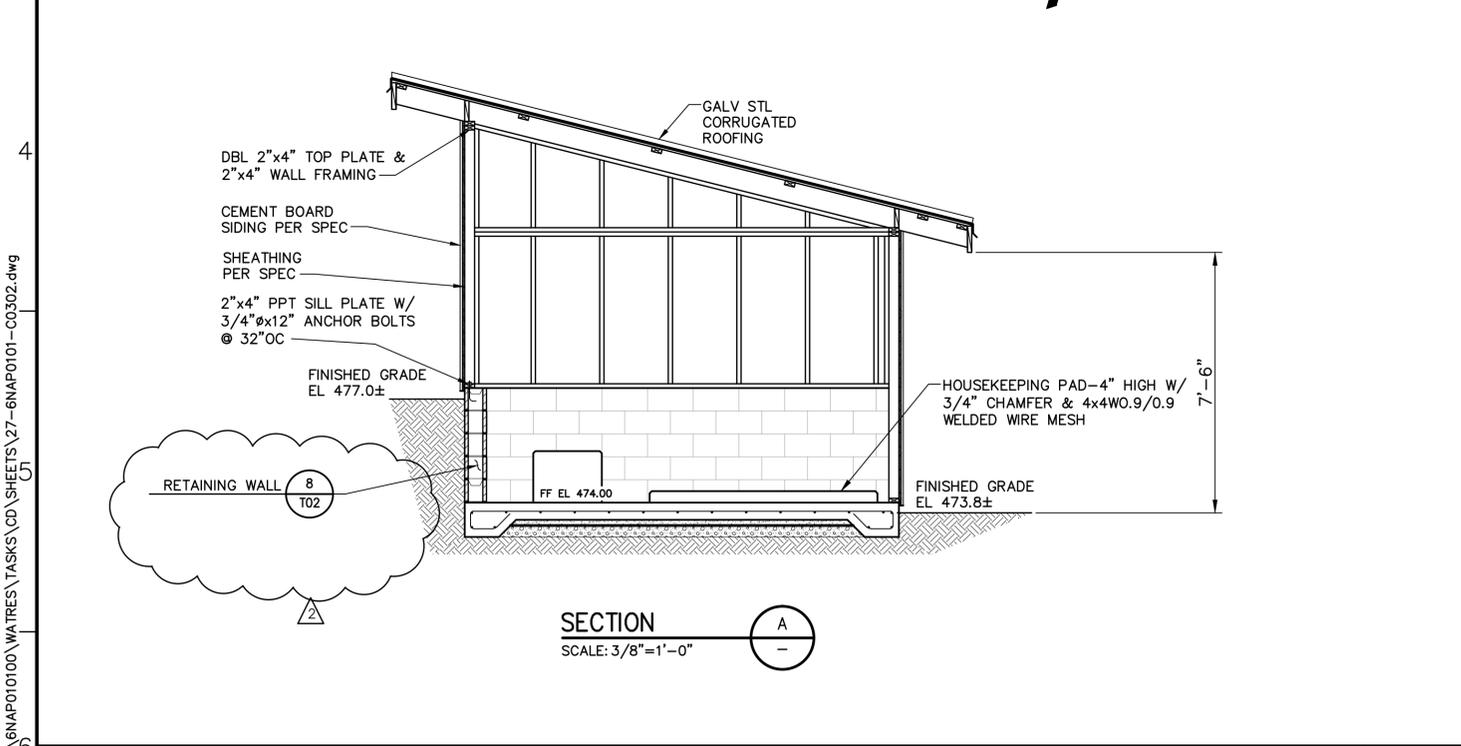
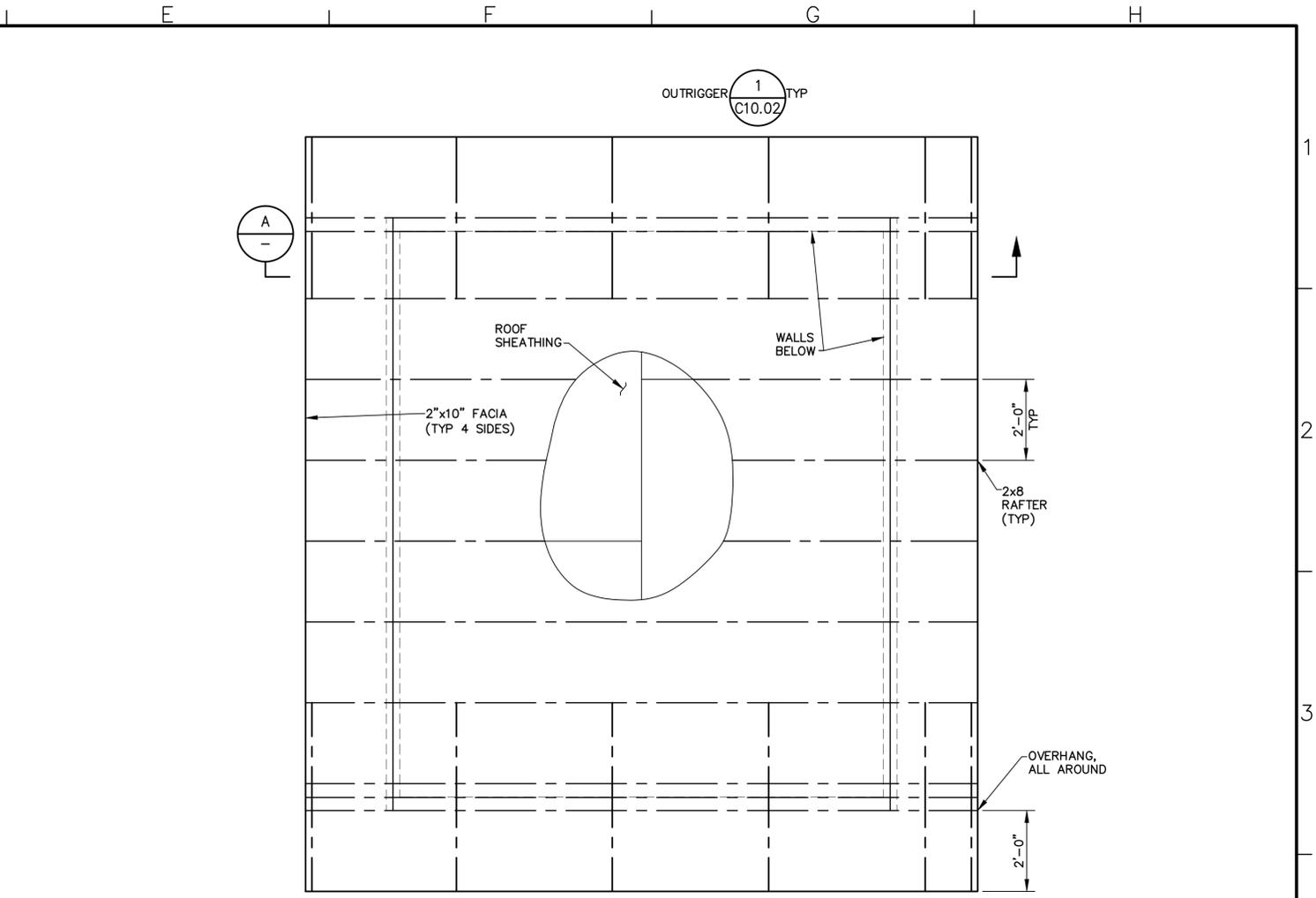
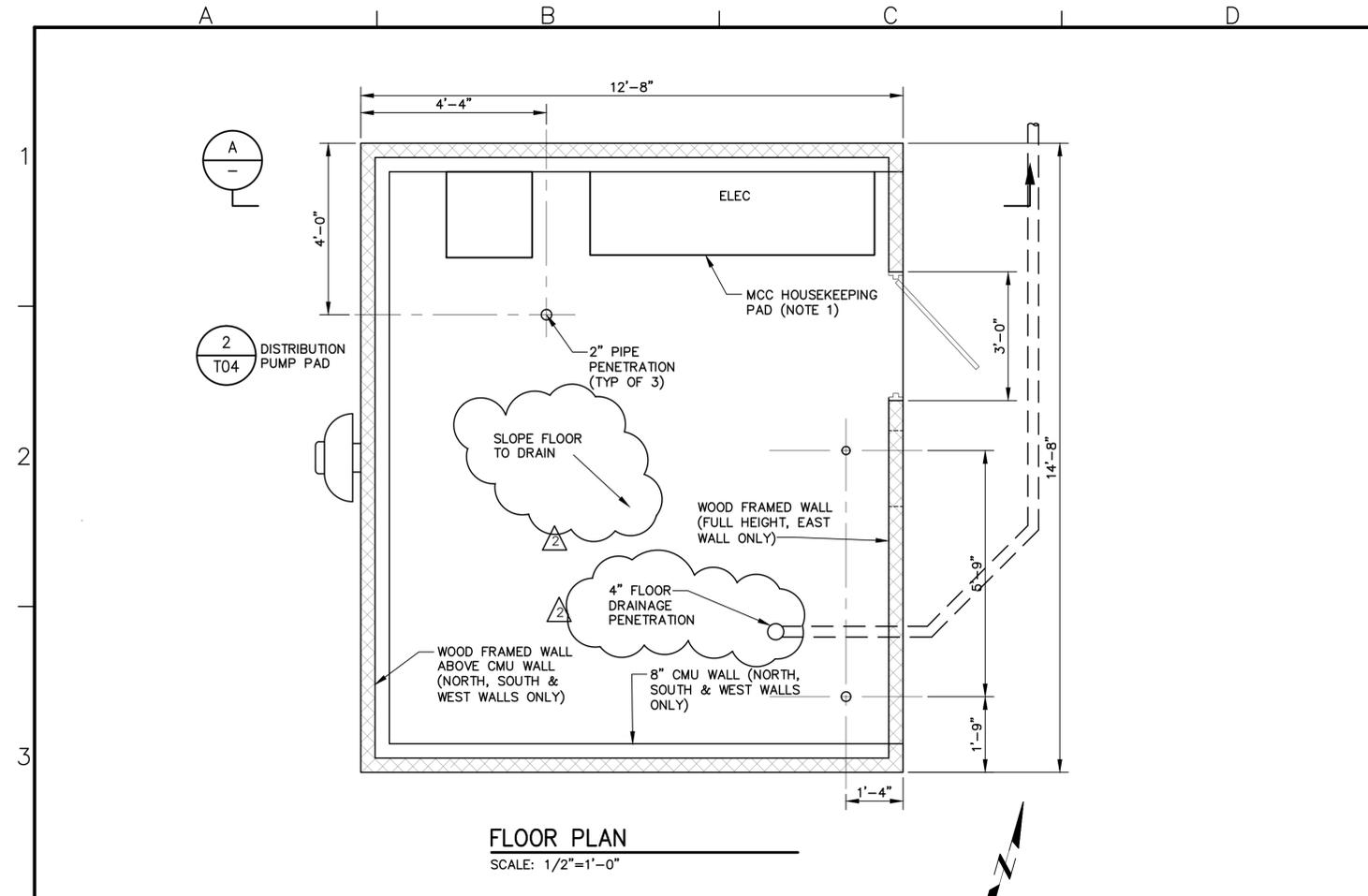
CIVIL

**WATER TREATMENT BUILDING  
MECHANICAL PLAN & SECTIONS**

Scale  
AS NOTED

Drawing No.  
**C03.01**

Sheet No.  
26 of 70



- NOTES:**
- COORDINATE HOUSEKEEPING PAD LOCATION AND DIMENSIONS WITH ELECTRICAL DRAWINGS.

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ISSUED FOR BIDS	Designed MAP
ISSUED FOR CONSTRUCTION	Drawn JAC
	Checked DWH
	Job No. BNAP010100

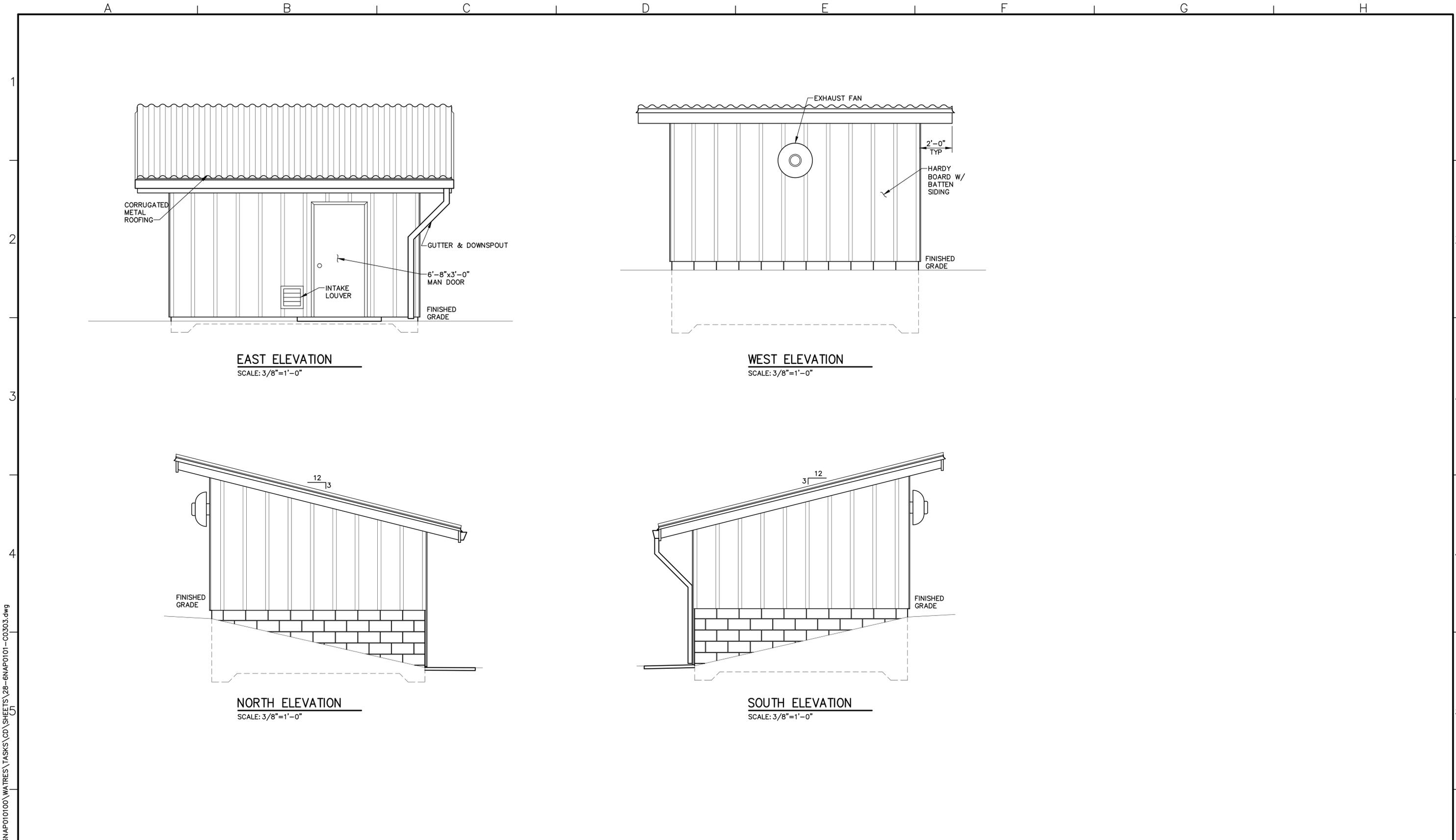
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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 1 LINE IS 2 INCHES 2"  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
CIVIL  
**WATER TREATMENT BUILDING  
STRUCTURAL PLAN & SECTIONS**

Scale AS NOTED
Drawing No. <b>C03.02</b>
Sheet No. 27 of 70



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	Checked	SAK
	Job No.	BNAP010100

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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

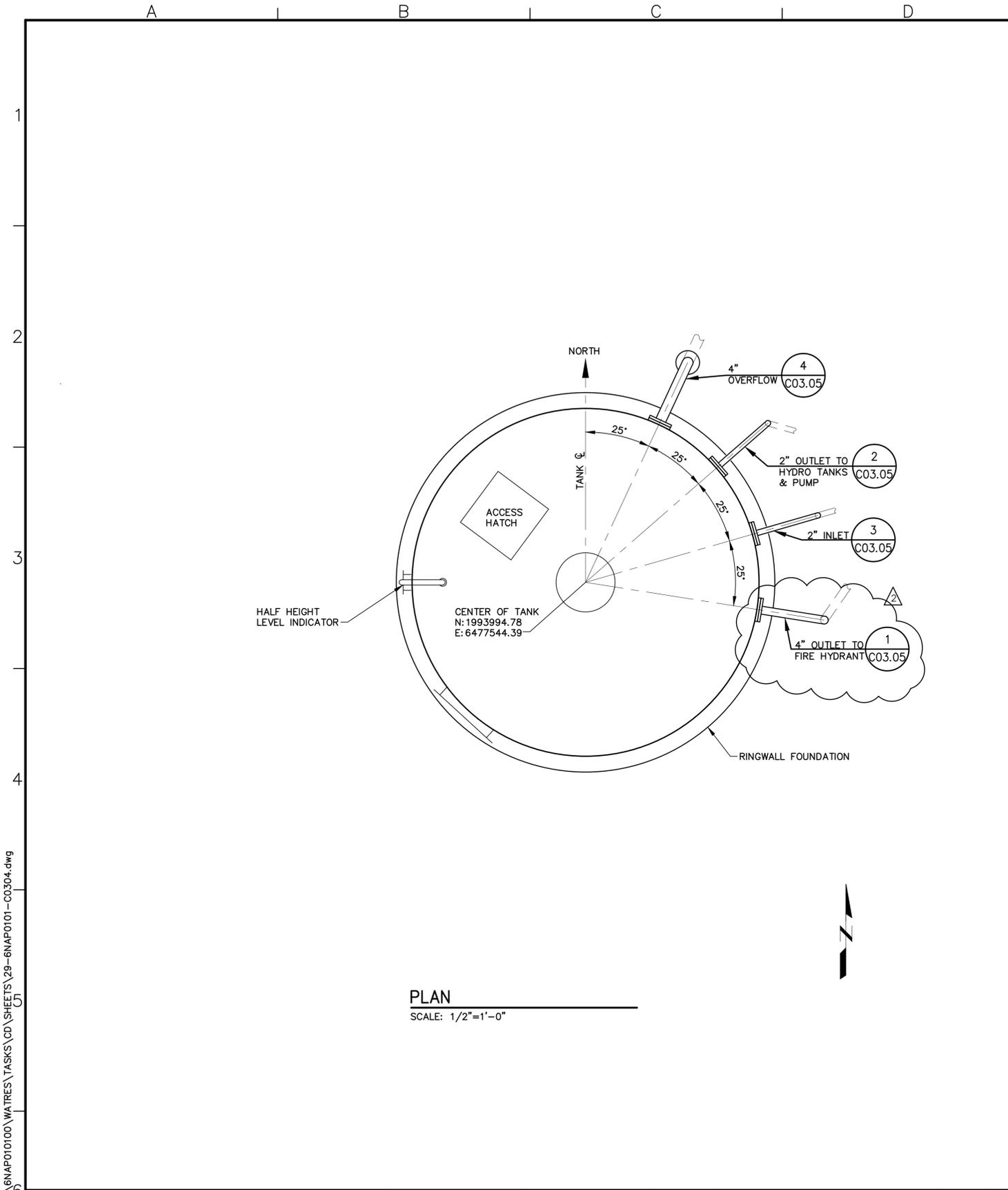
0    2"    2"  
|-----|-----|  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

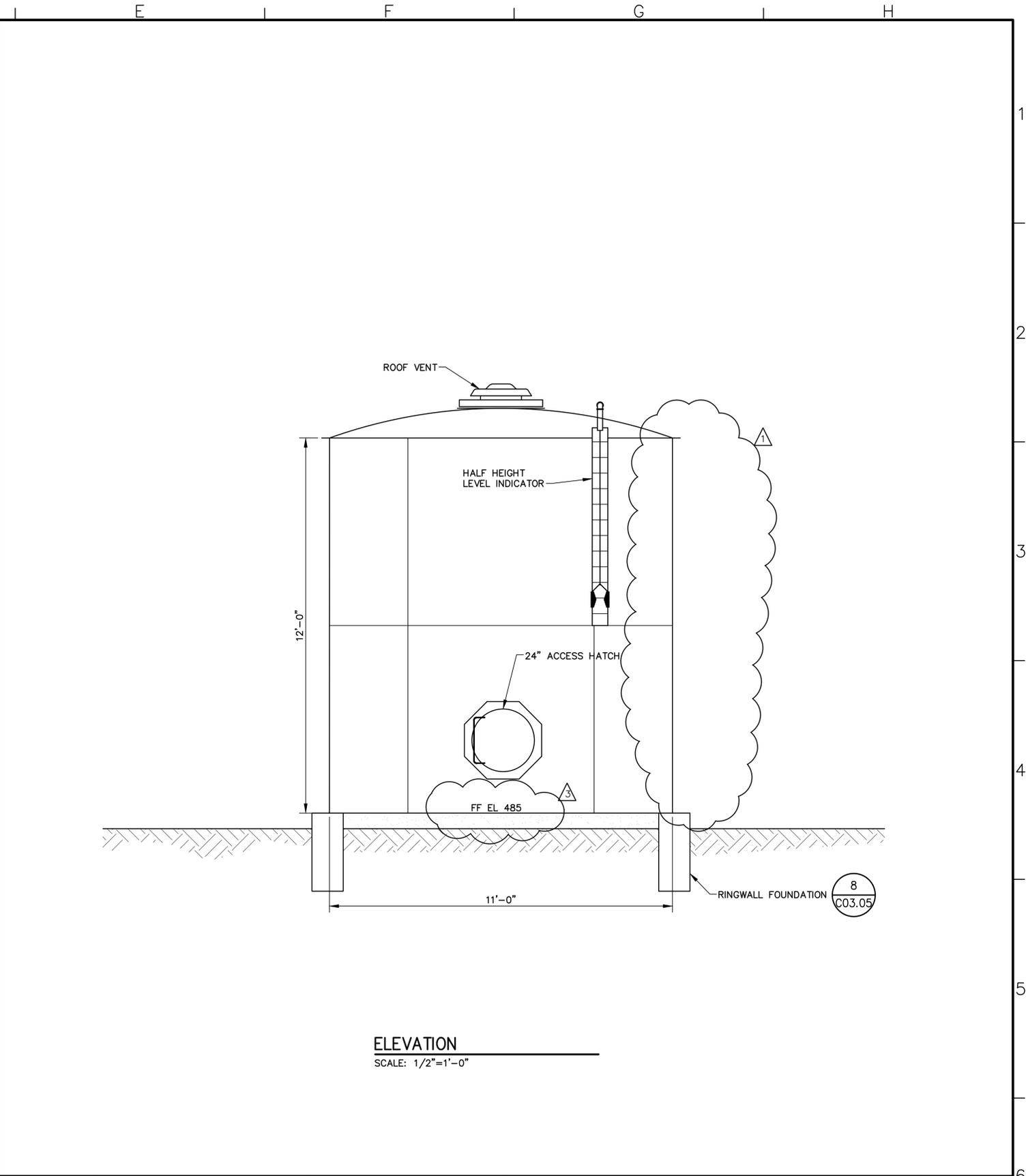
CIVIL

WATER TREATMENT BUILDING  
ELEVATIONS

Scale	AS NOTED
Drawing No.	C03.03
Sheet No.	28 of 70



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



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

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			ISSUED FOR CONSTRUCTION
3	9/12/14	SK	PLAN CLARIFICATION
2	8/29/14	SK	PER BUILDING DEPARTMENT COMMENTS
1	8/12/14	SK	EXTERIOR LADDER DELETED

Designed	ELL
Drawn	JAC
Checked	SAK
Job No.	BNAP010100

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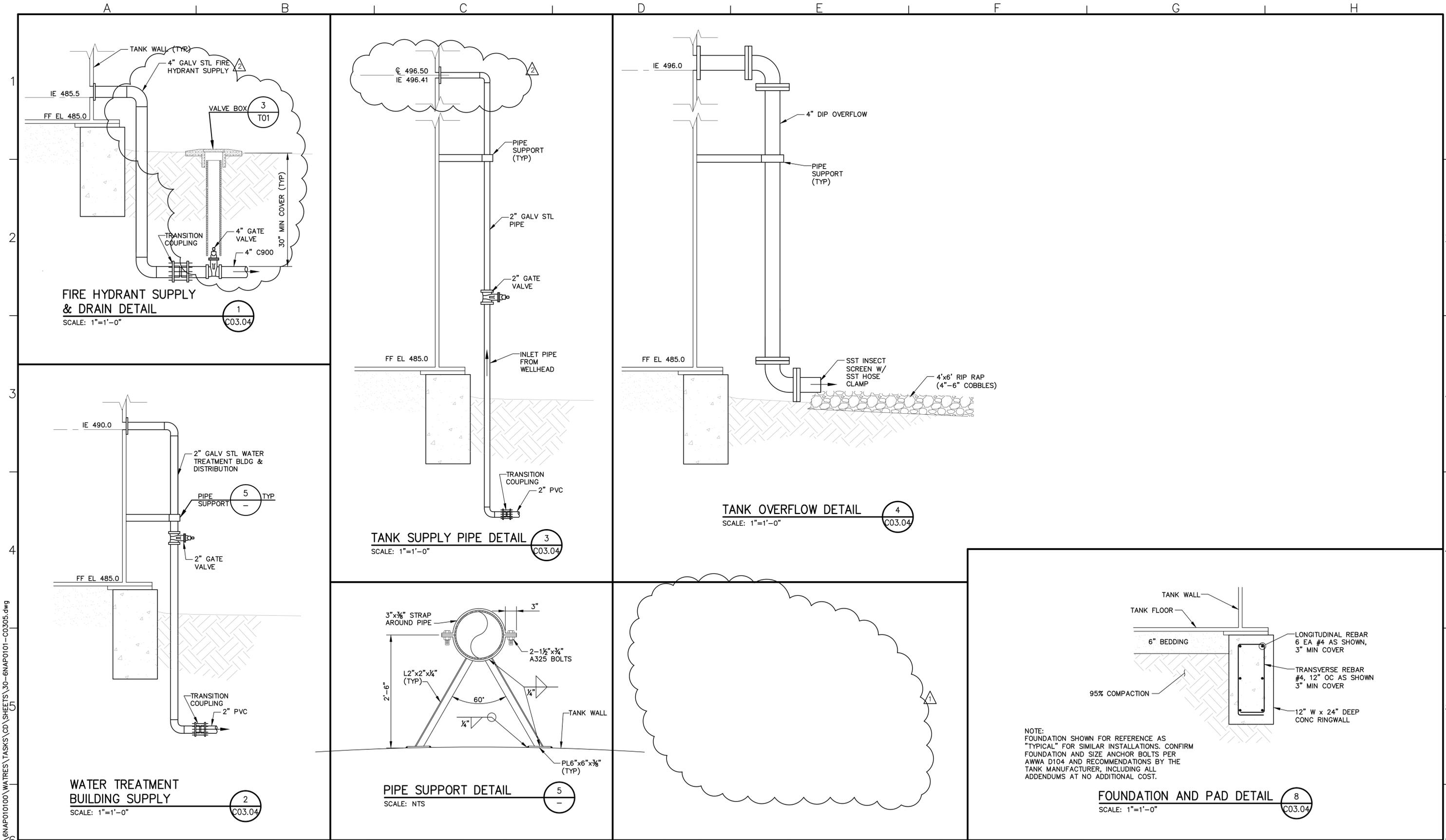
B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 1 2"  
LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

CIVIL  
WATER TANK PLAN & ELEVATION

Scale	AS NOTED
Drawing No.	C03.04
Sheet No.	29 of 70



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			ISSUED FOR CONSTRUCTION
8/29/14	SK		PUBLIC WORKS & ENVIRONMENTAL HEALTH COMMENTS
8/12/14	SK		EXTERIOR LADDER DETAIL DELETED

Designed	ELL
Drawn	JAC
Checked	SAK
Job No.	
	6NAP010100

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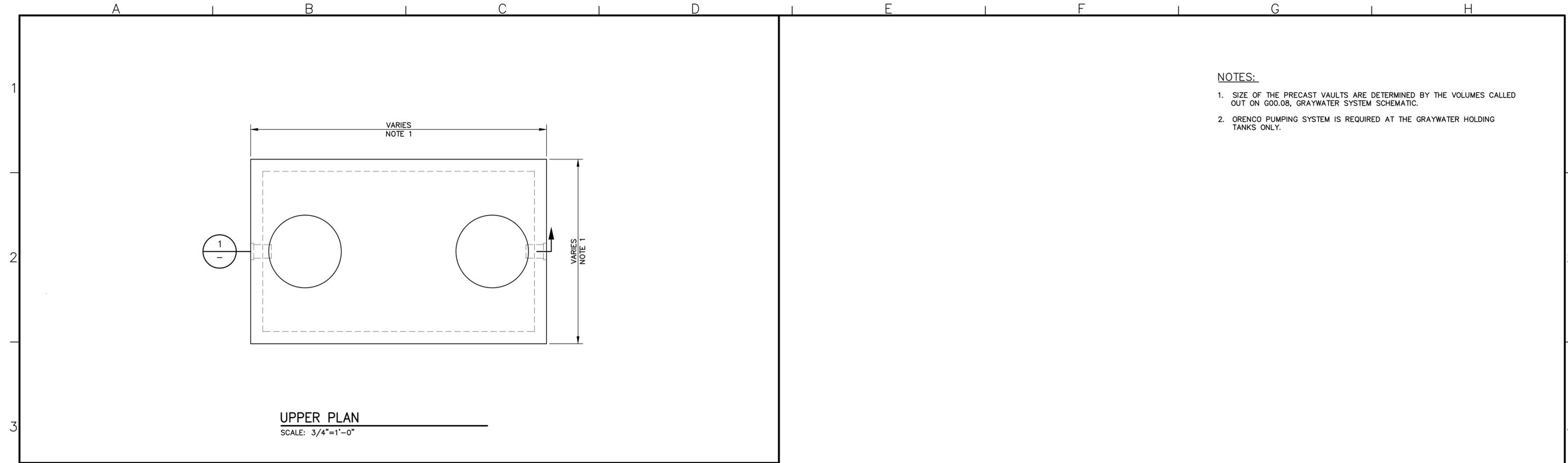
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SEE SHEET G00.06 FOR BREAKDOWN

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IF LINE IS NOT 2" SCALE ACCORDINGLY

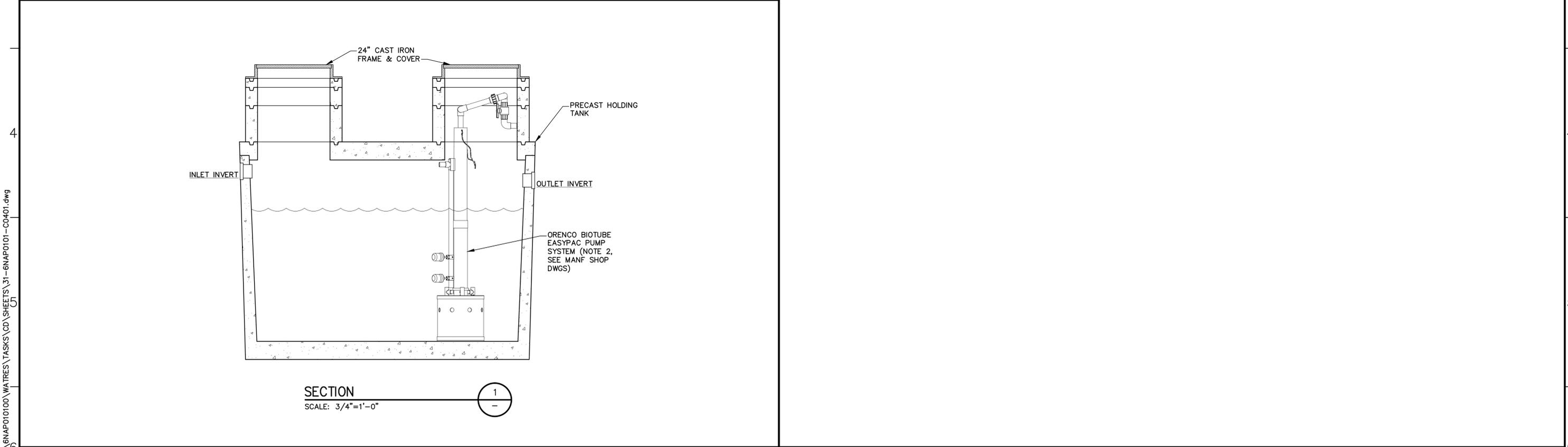
**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
CIVIL

**WATER TANK DETAILS**

Scale AS NOTED  
Drawing No. C03.05  
Sheet No. 30 of 70



- NOTES:**
1. SIZE OF THE PRECAST VAULTS ARE DETERMINED BY THE VOLUMES CALLED OUT ON G00.08, GRAYWATER SYSTEM SCHEMATIC.
  2. ORENCO PUMPING SYSTEM IS REQUIRED AT THE GRAYWATER HOLDING TANKS ONLY.



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**BID DRAWINGS**

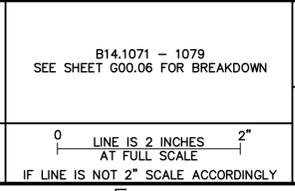


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Rev	Date	By
		Description

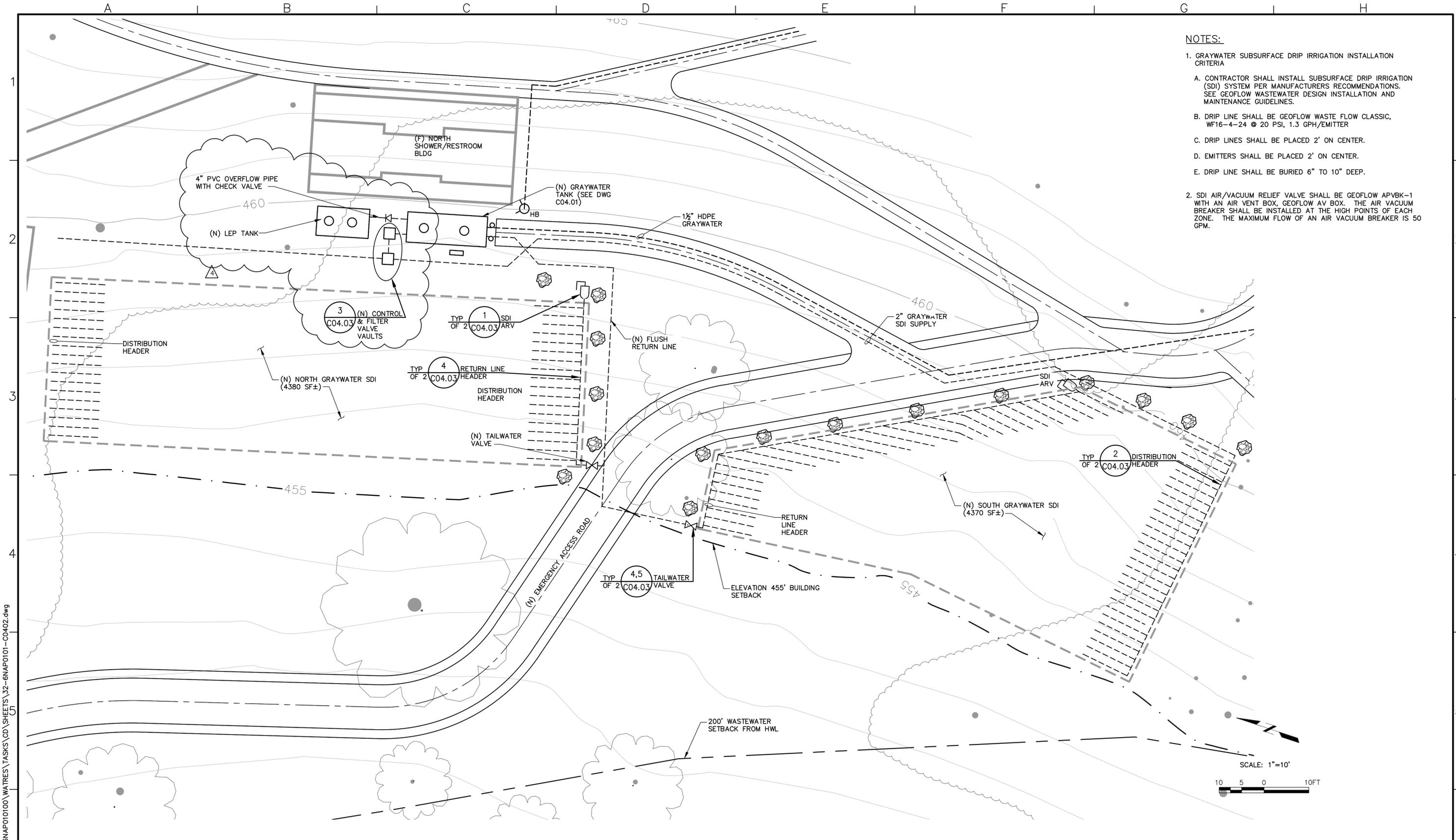
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--

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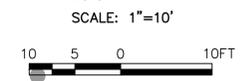


NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 CIVIL  
 GRAYWATER SYSTEM  
 TANK/PUMP PLAN & SECTION

Scale	AS NOTED
Drawing No.	C04.01
Sheet No.	31 of 70



- NOTES:**
- GRAYWATER SUBSURFACE DRIP IRRIGATION INSTALLATION CRITERIA
    - CONTRACTOR SHALL INSTALL SUBSURFACE DRIP IRRIGATION (SDI) SYSTEM PER MANUFACTURERS RECOMMENDATIONS. SEE GEOFLOW WASTEWATER DESIGN INSTALLATION AND MAINTENANCE GUIDELINES.
    - DRIP LINE SHALL BE GEOFLOW WASTE FLOW CLASSIC, WF16-4-24 @ 20 PSI, 1.3 GPH/EMITTER
    - DRIP LINES SHALL BE PLACED 2' ON CENTER.
    - EMITTERS SHALL BE PLACED 2' ON CENTER.
    - DRIP LINE SHALL BE BURIED 6" TO 10" DEEP.
  - SDI AIR/VACUUM RELIEF VALVE SHALL BE GEOFLOW APVBK-1 WITH AN AIR VENT BOX, GEOFLOW AV BOX. THE AIR VACUUM BREAKER SHALL BE INSTALLED AT THE HIGH POINTS OF EACH ZONE. THE MAXIMUM FLOW OF AN AIR VACUUM BREAKER IS 50 GPM.



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		ISSUED FOR CONSTRUCTION	ELL
			Drawn
			JAC
			Checked
			SAK
			Job No.
			BNAP010100
Rev	Date	By	Description
A	10/12/14	SK	PLAN REVISION

200' WASTEWATER SETBACK FROM HWL

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 IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

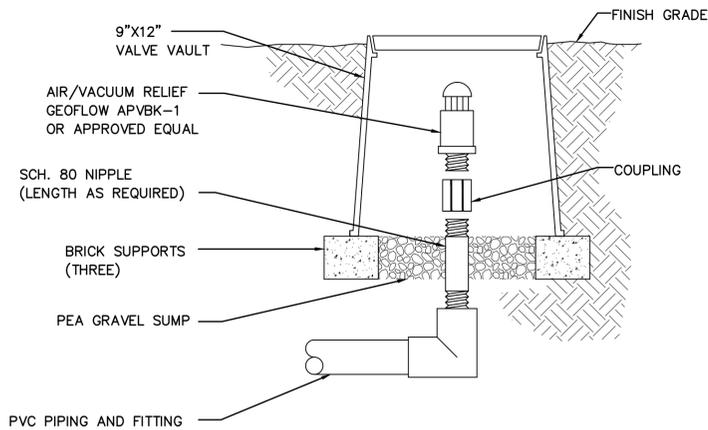
CIVIL

GRAYWATER SYSTEM  
 SUBSURFACE DRIP IRRIGATION PLAN

Scale  
 AS NOTED

Drawing No.  
**C04.02**

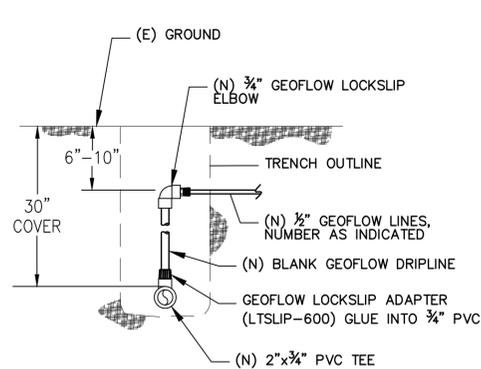
Sheet No.  
 32 of 70



**SDI AIR/VACUUM RELIEF DETAIL**

NO SCALE

1  
C04.02



**DISTRIBUTION HEADER DETAIL**

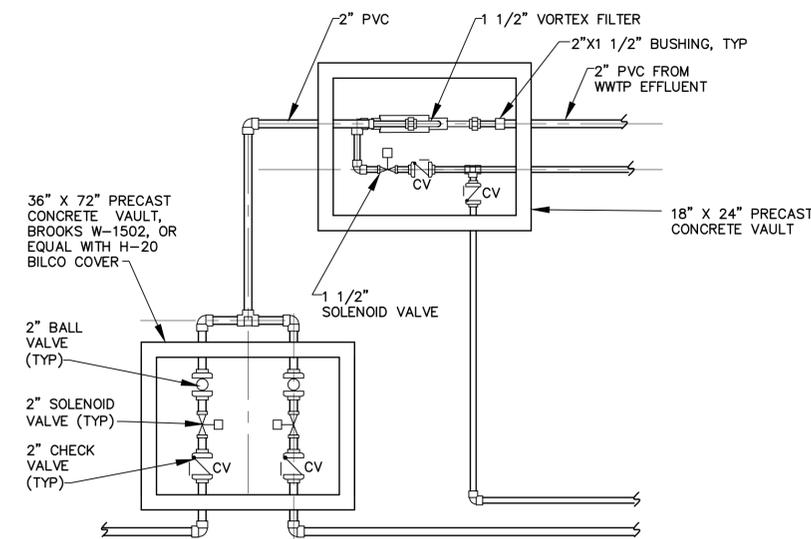
**DISTRIBUTION HEADER DETAIL**

NO SCALE

2  
C04.02

**NOTES:**

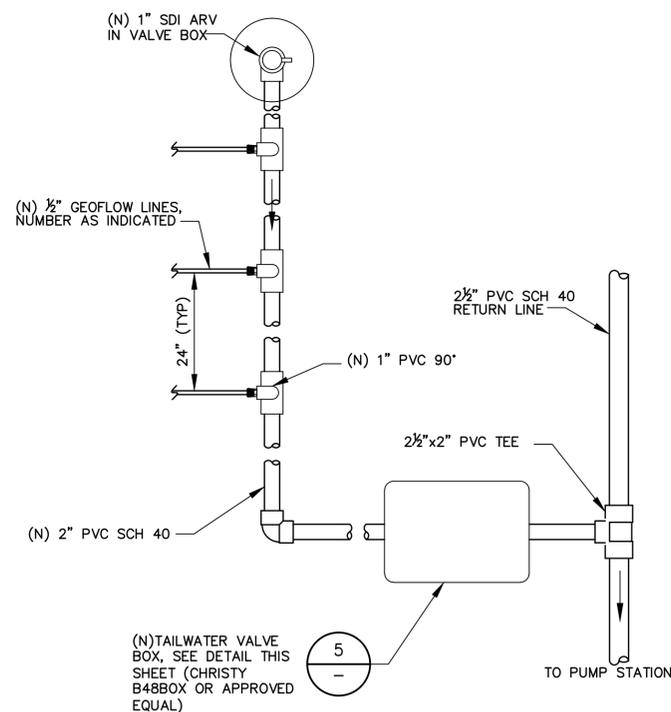
1. VALVE BOX SHALL BE CHRISTY B36BOX OR APPROVED EQUAL. PLACE 3" THICK 3/4" GRAVEL IN BOTTOM OF BOX.
2. PRV DESIGN CRITERIA:  
INLET PRESSURE: 70 PSI±  
SET OUTLET PRESSURE TO 20 PSI DURING OPERATING CONDITIONS  
MAXIMUM FLOW: 60 GPM  
MINIMUM FLOW: 0 GPM  
MAXIMUM REDUCED PRESSURE FALLOFF: 9.5 PSI  
VALVE SHALL BE CLA-VAL MODEL 990



**SDI CONTROL VALVE BOX**

NO SCALE

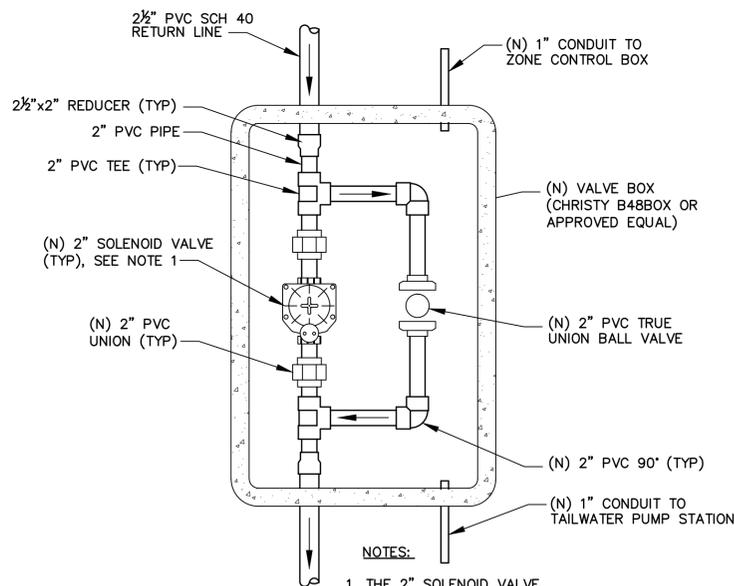
3  
C04.02



**RETURN LINE HEADER**

NO SCALE

4  
C04.02



**TAILWATER VALVE DETAIL**

NO SCALE

5  
C04.02

**NOTES:**

1. THE 2" SOLENOID VALVE SHALL BE GEOFLOW SVLV-200.

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ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	6NAP010100
Rev	Date	By
		Description

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SEE SHEET G00.06 FOR BREAKDOWN

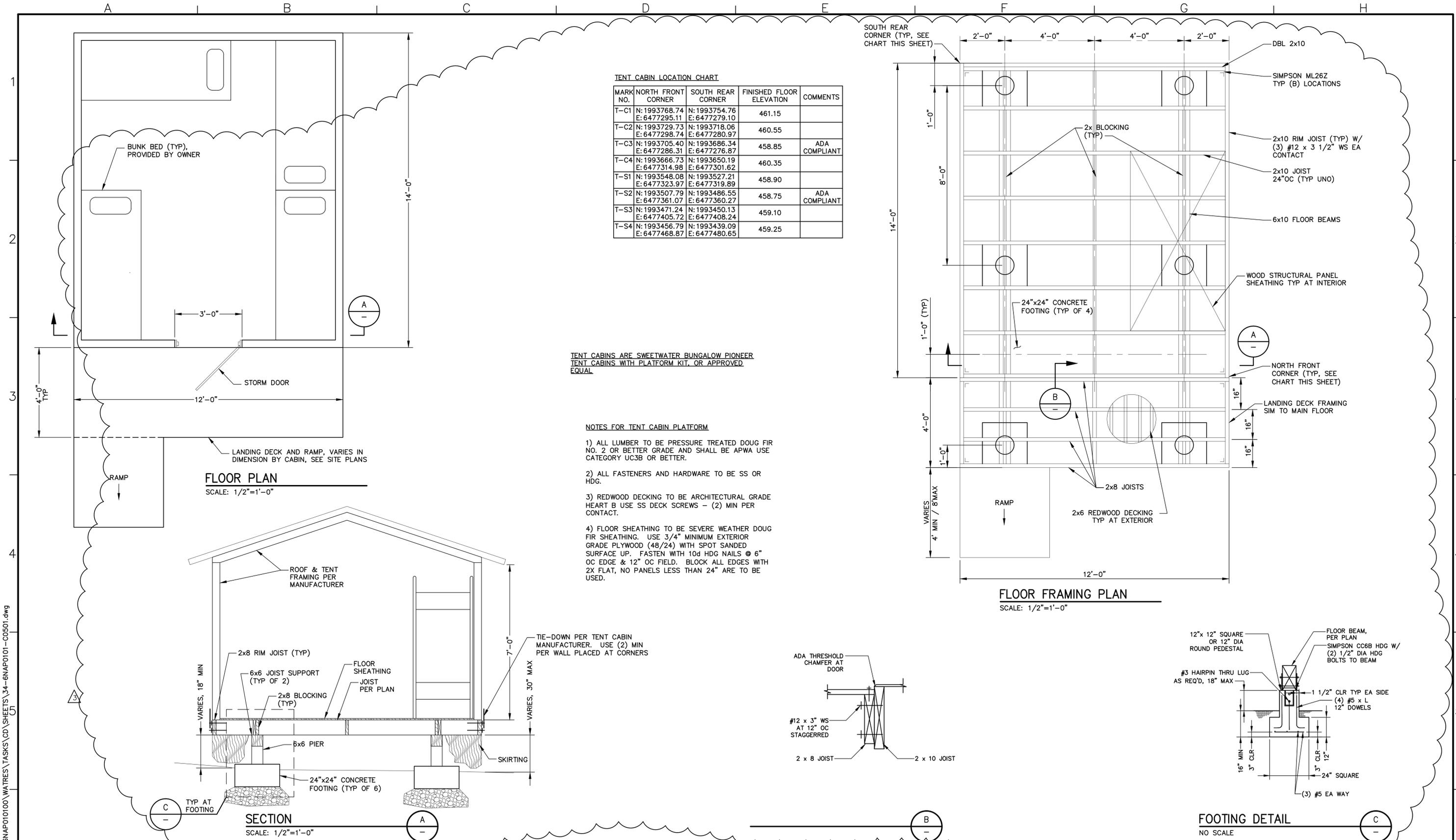
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LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT CAMP BERRYESSA IMPROVEMENTS**

CIVIL

**GRAYWATER SYSTEM DETAILS**

Scale  
AS SHOWN  
Drawing No.  
**C04.03**  
Sheet No.  
33 of 70



**TENT CABIN LOCATION CHART**

MARK NO.	NORTH FRONT CORNER	SOUTH REAR CORNER	FINISHED FLOOR ELEVATION	COMMENTS
T-C1	N: 1993768.74 E: 6477295.11	N: 1993754.76 E: 6477279.10	461.15	
T-C2	N: 1993729.73 E: 6477298.74	N: 1993718.06 E: 6477280.97	460.55	
T-C3	N: 1993705.40 E: 6477286.31	N: 1993686.34 E: 6477276.87	458.85	ADA COMPLIANT
T-C4	N: 1993666.73 E: 6477314.98	N: 1993650.19 E: 6477301.62	460.35	
T-S1	N: 1993548.08 E: 6477323.97	N: 1993527.21 E: 6477319.89	458.90	
T-S2	N: 1993507.79 E: 6477361.07	N: 1993486.55 E: 6477360.27	458.75	ADA COMPLIANT
T-S3	N: 1993471.24 E: 6477405.72	N: 1993450.13 E: 6477408.24	459.10	
T-S4	N: 1993456.79 E: 6477468.87	N: 1993439.09 E: 6477480.65	459.25	

TENT CABINS ARE SWEETWATER BUNGALOW PIONEER TENT CABINS WITH PLATFORM KIT, OR APPROVED EQUAL.

- NOTES FOR TENT CABIN PLATFORM**
- 1) ALL LUMBER TO BE PRESSURE TREATED DOUG FIR NO. 2 OR BETTER GRADE AND SHALL BE APWA USE CATEGORY UC3B OR BETTER.
  - 2) ALL FASTENERS AND HARDWARE TO BE SS OR HDG.
  - 3) REDWOOD DECKING TO BE ARCHITECTURAL GRADE HEART B USE SS DECK SCREWS - (2) MIN PER CONTACT.
  - 4) FLOOR SHEATHING TO BE SEVERE WEATHER DOUG FIR SHEATHING. USE 3/4" MINIMUM EXTERIOR GRADE PLYWOOD (48/24) WITH SPOT SANDED SURFACE UP. FASTEN WITH 10d HDG NAILS @ 6" OC EDGE & 12" OC FIELD. BLOCK ALL EDGES WITH 2X FLAT, NO PANELS LESS THAN 24" ARE TO BE USED.

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3	9/12/14	SK	PLAN REVISIONS AND CLARIFICATIONS

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ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	BNAP010100

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B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

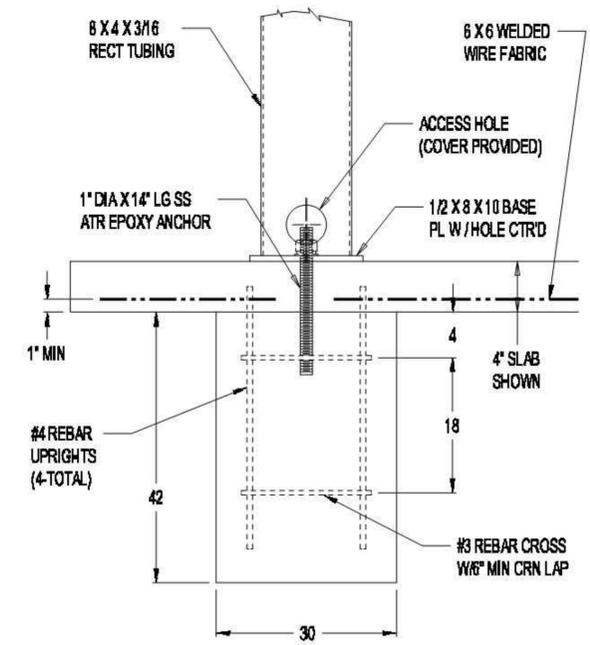
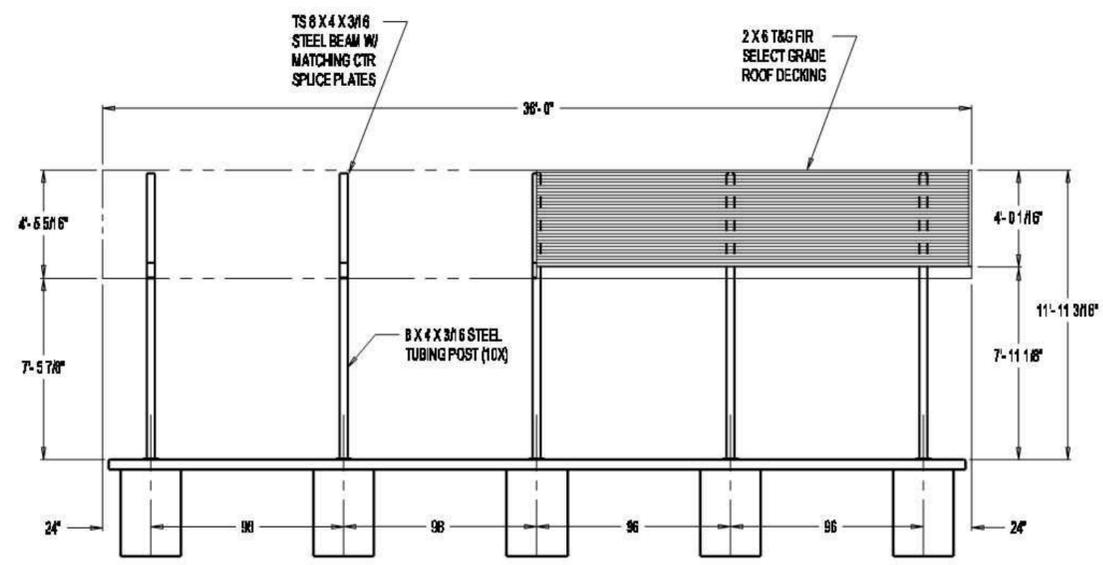
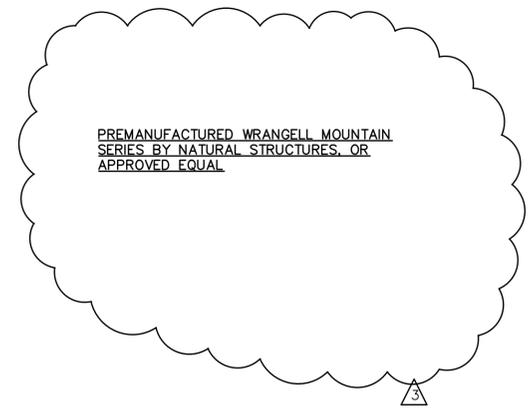
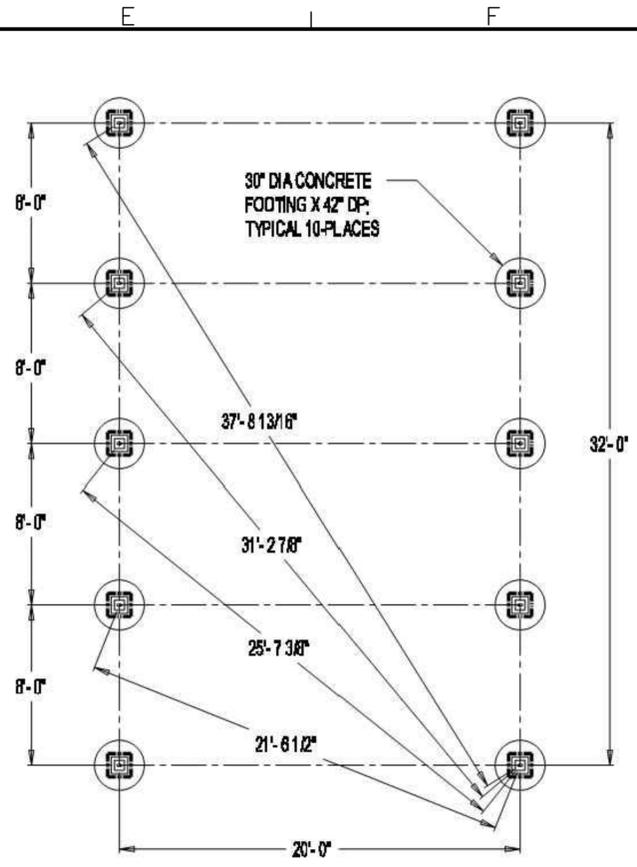
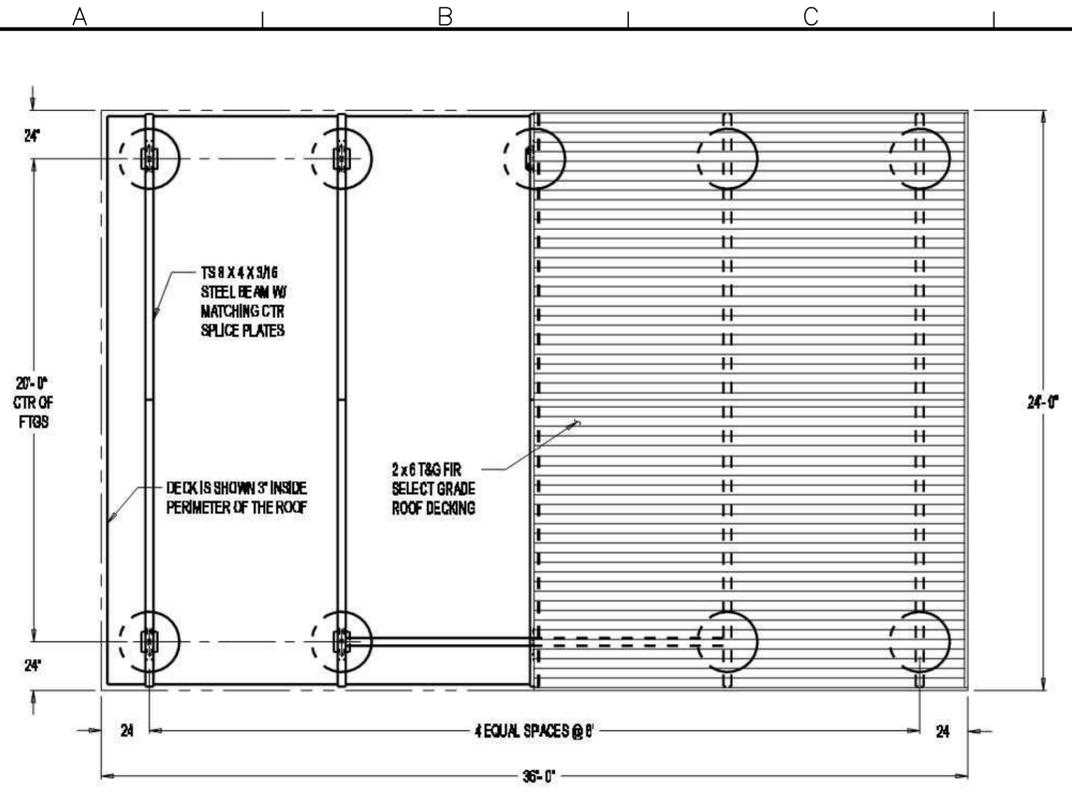
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LINE IS 2 INCHES  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
CIVIL  
**TENT CABIN  
PLANS & SECTION**

Scale	AS NOTED
Drawing No.	C05.01
Sheet No.	34 of 70

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SKEMEN



ACTIVITY SHELTER LOCATION CHART

MARK NO.	NORTHEAST CORNER	SOUTHWEST CORNER	FINISHED SLAB ELEVATION
A-C	N: 1993746.36 E: 6477341.30	N: 1993711.32 E: 6477327.29	461.40
MARK NO.	NORTHWEST CORNER	SOUTHEAST CORNER	FINISHED SLAB ELEVATION
A-S	N: 1993553.25 E: 6477401.85	N: 1993541.77 E: 6477437.80	460.20

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NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

CIVIL

ACTIVITY SHELTER PLANS & SECTION

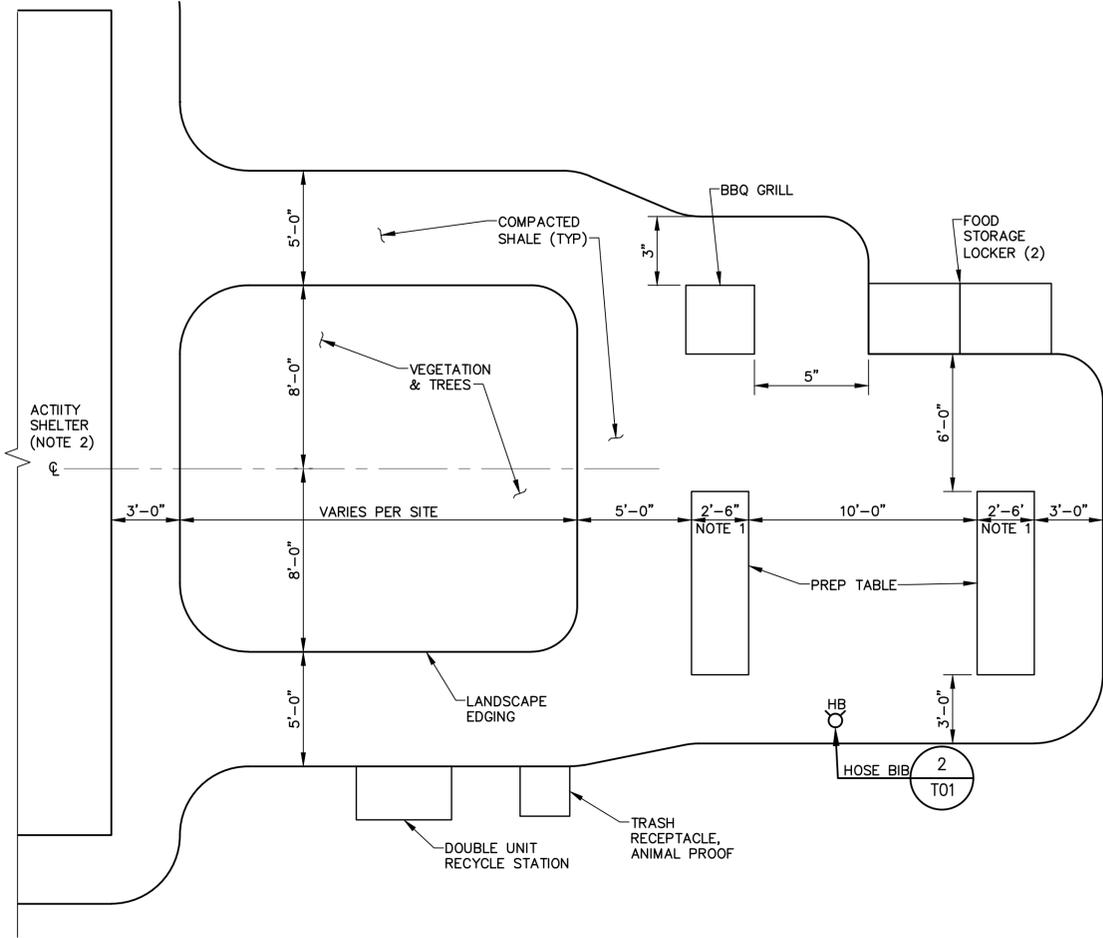
Scale  
 AS NOTED

Drawing No.  
**C06.01**

Sheet No.  
 35 of 70

A B C D E F G H

1  
2  
3  
4  
5  
6



- NOTES:**
1. TABLE DIMENSION MAY VARY WITH STYLE SELECTION. ALL OTHER DIMENSIONS ARE MINIMUM CLEARANCES TO BE MAINTAINED IN COOKING AREA LAYOUT.
  2. COOKING AREA IS LAYED OUT FROM THE CENTERLINE OF THE ACTIVITY CENTER. TRANSITION OF KITCHEN WALKWAY TO ACTIVITY SHELTER WILL VARY BETWEEN LOCATIONS. SEE DWG C01.02.

**TYPICAL SITE PLAN**  
SCALE: 1"=4'-0"

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SKEMEN

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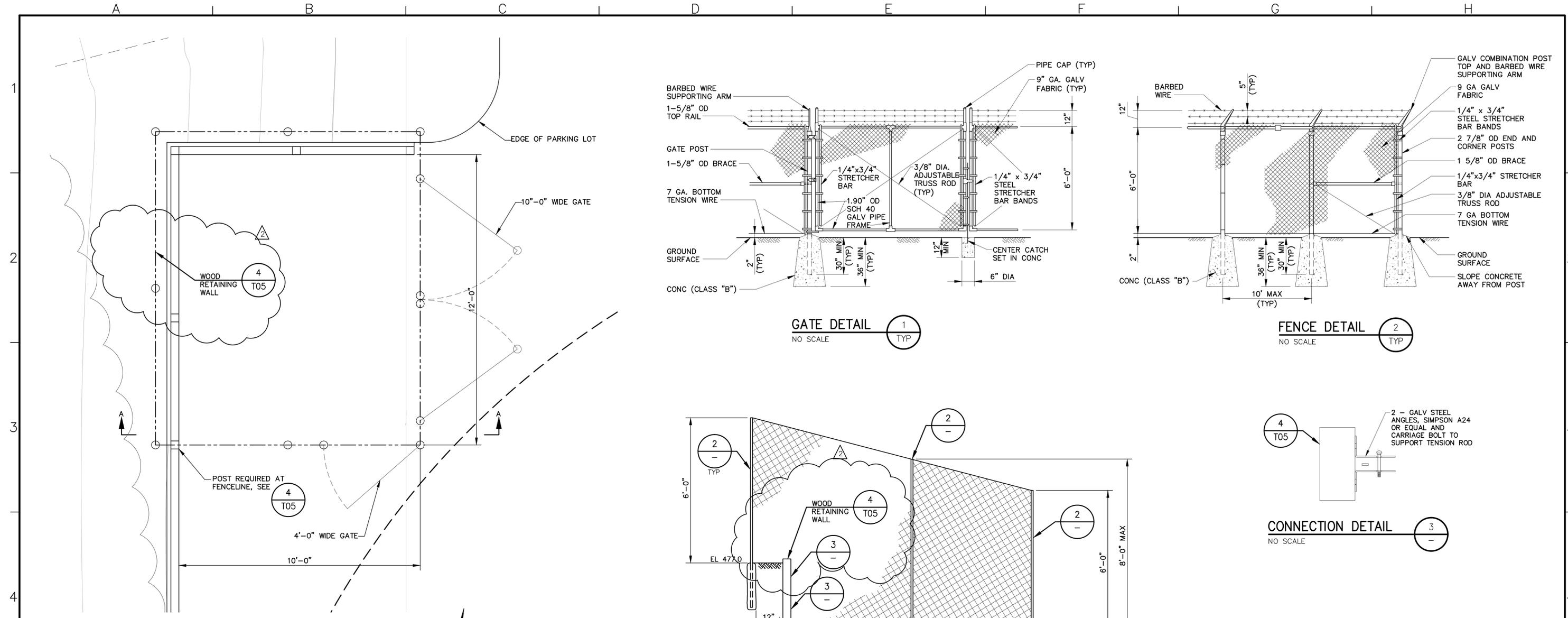
B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 2" LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

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AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

CIVIL  
COOKING AREA PLAN

Scale	AS NOTED
Drawing No.	C06.02
Sheet No.	36 of 70



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Rev 2	Date	8/29/14
By	Description	PUBLIC WORKS & ENVIRONMENTAL HEALTH COMMENTS

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B14.1071 - 1079  
 SEE SHEET G00.06 FOR BREAKDOWN

0" LINE IS 2" INCHES AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

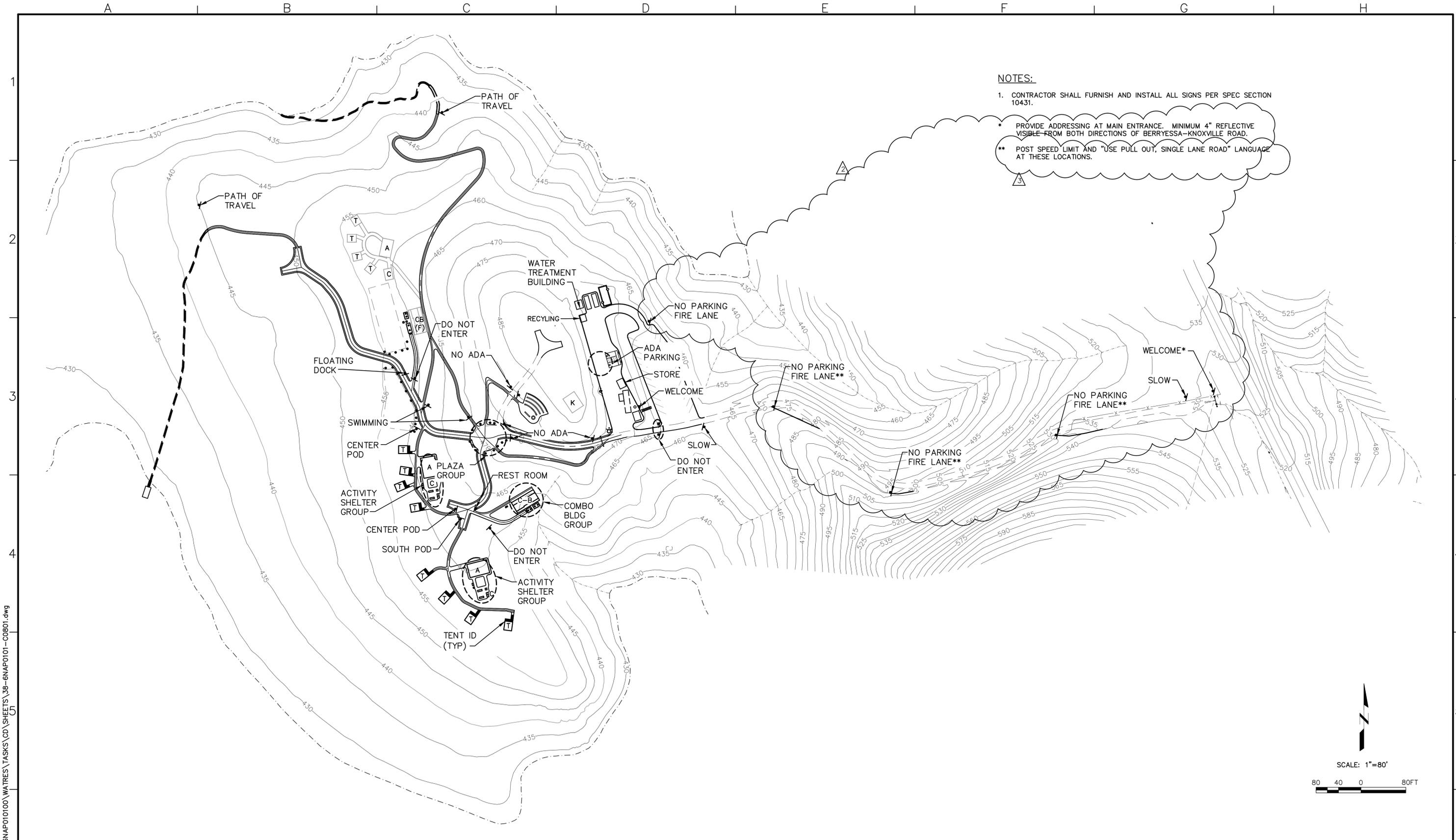
**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
**TRASH/RECYCLING AREA  
 PLAN & DETAILS**

Scale  
 AS NOTED

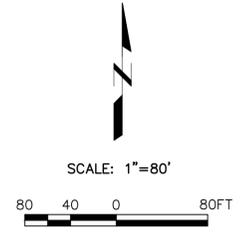
Drawing No.  
**C07.01**

Sheet No.  
 37 of 70



**NOTES:**

- CONTRACTOR SHALL FURNISH AND INSTALL ALL SIGNS PER SPEC SECTION 10431.
- PROVIDE ADDRESSING AT MAIN ENTRANCE. MINIMUM 4" REFLECTIVE VISIBLE FROM BOTH DIRECTIONS OF BERRYESSA-KNOXVILLE ROAD.
- POST SPEED LIMIT AND "USE PULL OUT, SINGLE LANE ROAD" LANGUAGE AT THESE LOCATIONS.



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8/29/14	SK		FIRE DIVISION COMMENTS

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0 LINE IS 2 INCHES AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

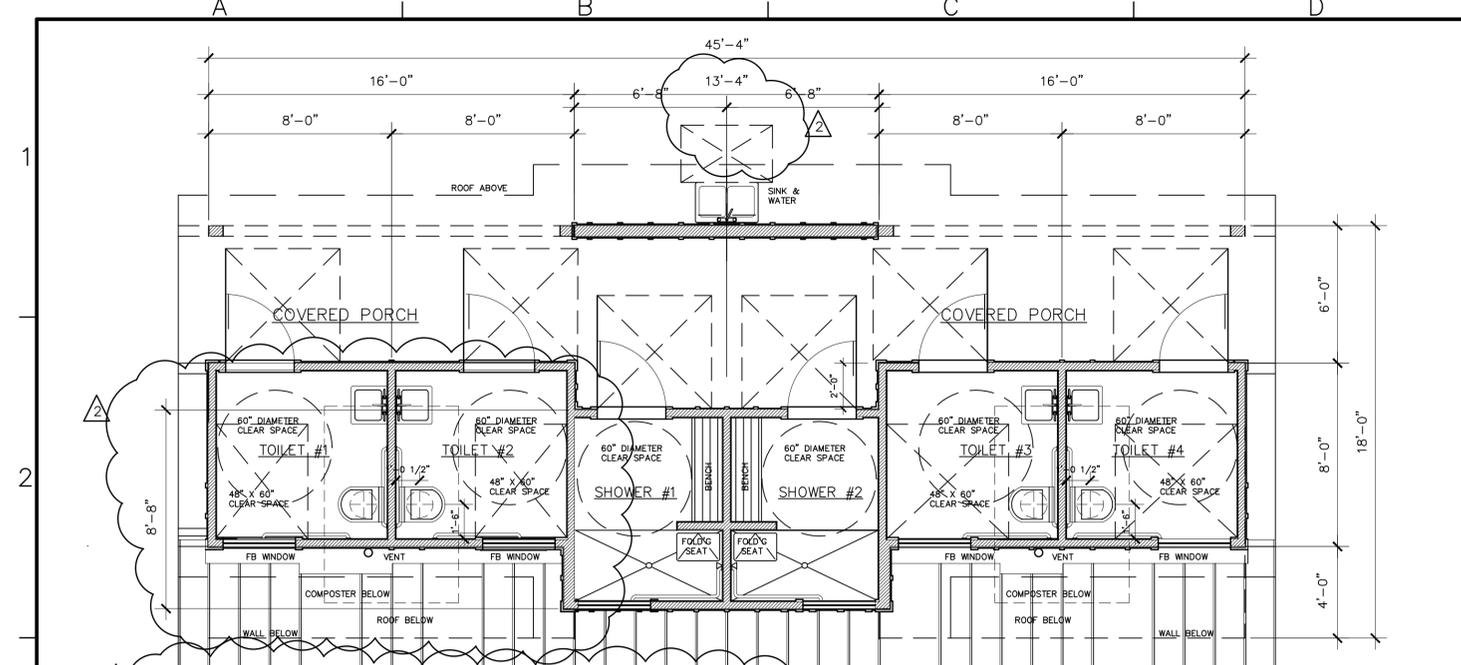
**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
**SIGNAGE PLAN & DETAILS**

Scale  
 AS NOTED

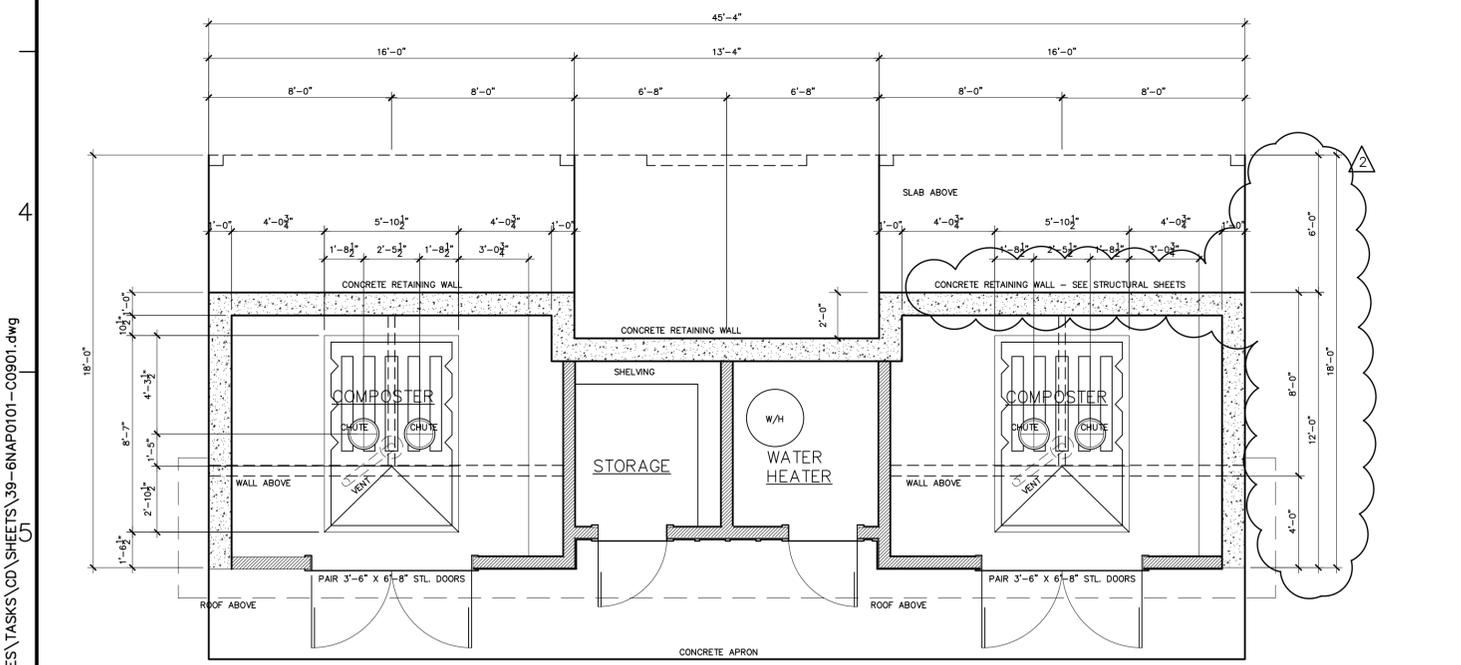
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Sheet No.  
 38 of 70

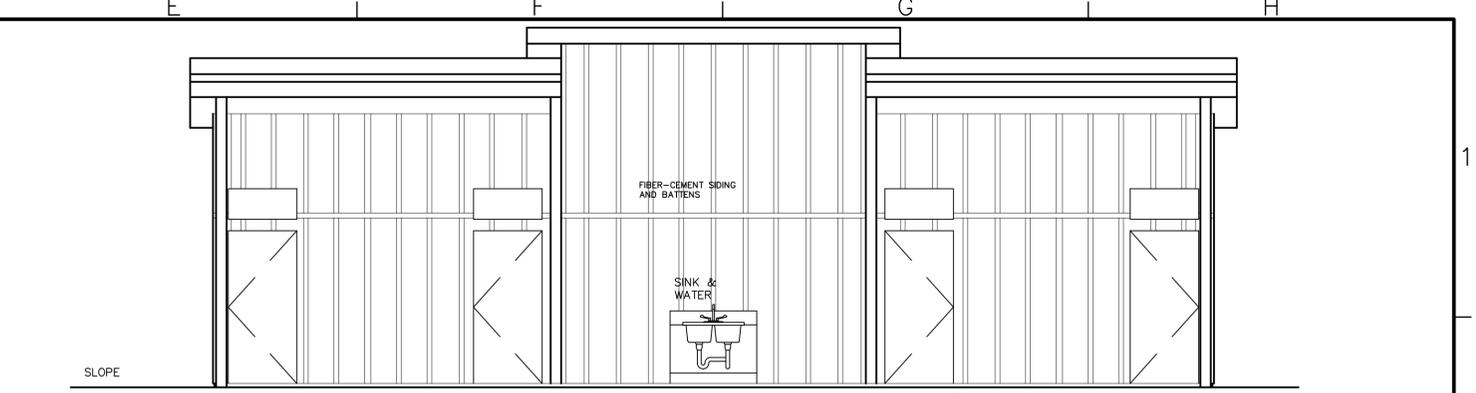


NOTE: SEE SPECIFICATION SECTION 09310, CERAMIC TILE FOR TILE SPECIFICATION  
 TILE FLOORS AND WALLS WITHIN TOILET ROOMS AND SHOWER ROOMS, MINIMUM 6' HIGH.  
 PAINT INTERIOR PER SPECIFICATION SECTION 09960, COATINGS.

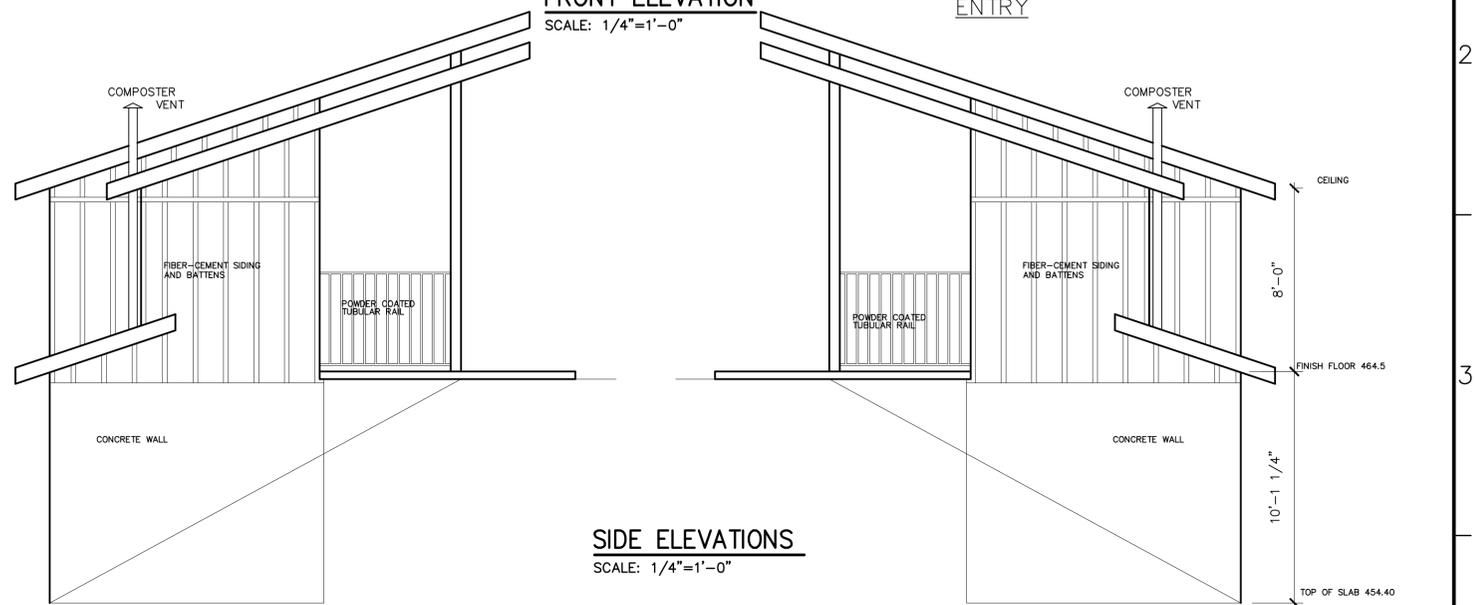
**TOILET FLOOR PLAN**  
 SCALE: 1/4"=1'-0"



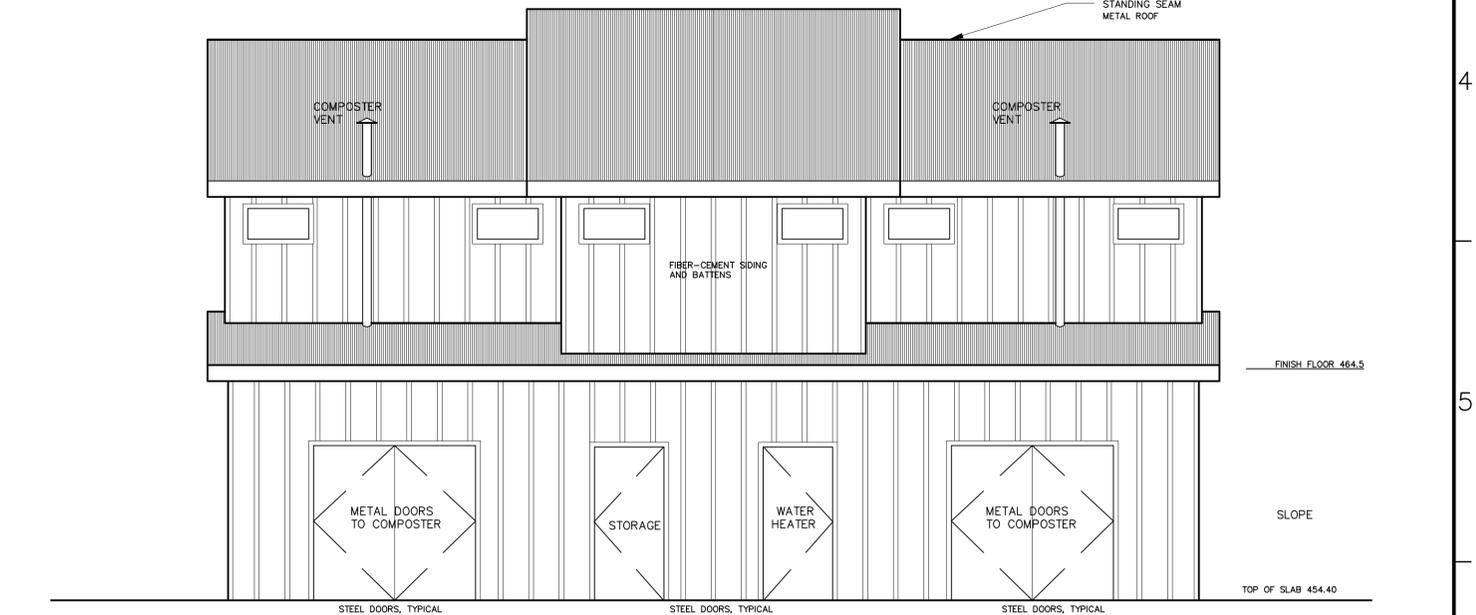
**BASEMENT FLOOR PLAN**  
 SCALE: 1/4"=1'-0"



**FRONT ELEVATION**  
 SCALE: 1/4"=1'-0"



**SIDE ELEVATIONS**  
 SCALE: 1/4"=1'-0"



**REAR ELEVATION**  
 SCALE: 1/4"=1'-0"

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2	8/29/14	SK	PUBLIC WORKS COMMENTS

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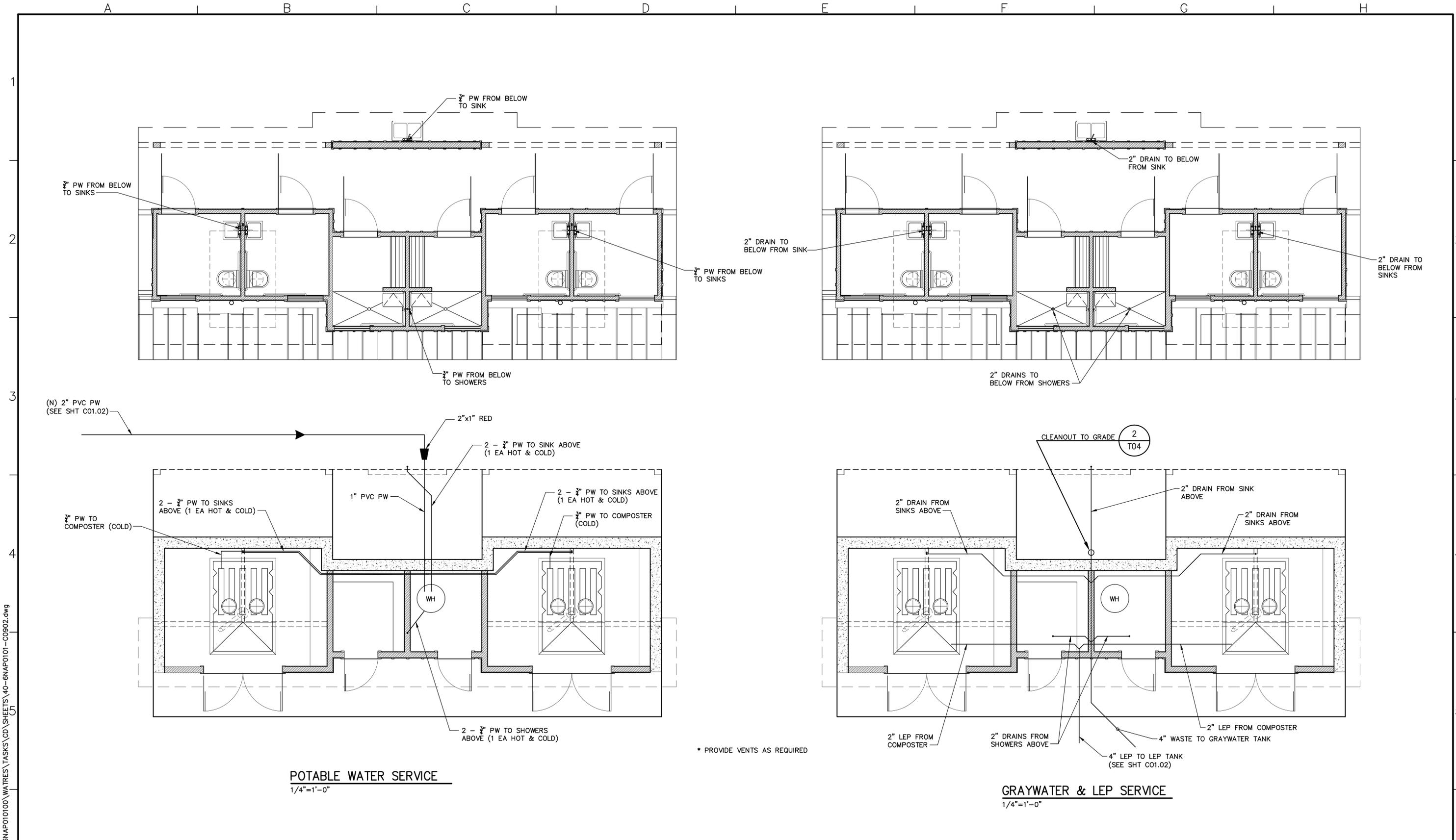
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 SEE SHEET G00.06 FOR BREAKDOWN

0 1" LINE IS 2 INCHES  
 AT FULL SCALE  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

**COMBO BUILDING  
 FLOOR PLANS & ELEVATIONS**

Scale  
AS NOTED  
 Drawing No.  
**C09.01**  
 Sheet No.  
39 of 70



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SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

**COMBO BUILDING MECHANICAL PLANS**

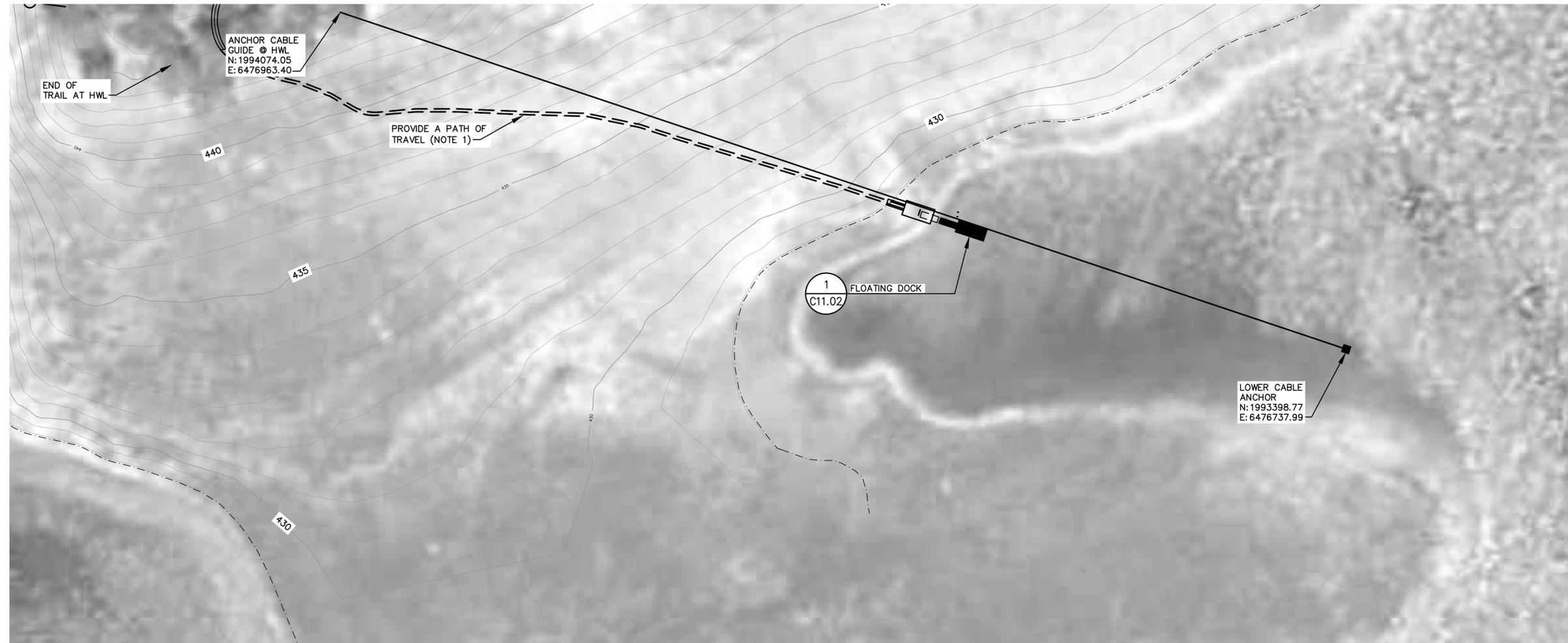
Scale  
AS NOTED

Drawing No.  
**C09.02**

Sheet No.  
40 of 70

**NOTES:**

1. CONTRACTOR SHALL LAYOUT A PATH OF TRAVEL FROM END OF TRAIL AT HIGH WATER LEVEL TO LAKE LEVEL. GRADE 4" WIDE PATH WITH A 2% SIDE SLOPE AND A 5% MAXIMUM TRAVEL SLOPE. DO NOT PROVIDE A GRAVELED SURFACE. PERFORM CONSTRUCTION ACTIVITIES TO PREVENT SOIL FROM ENTERING THE LAKE. SCHEDULE CONSTRUCTION OF PATH AT TIME OF LOWEST LAKE LEVEL DURING CONSTRUCTION PERIOD.



**PLAN**

SCALE: 1"=40'-0"



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SKEMEN

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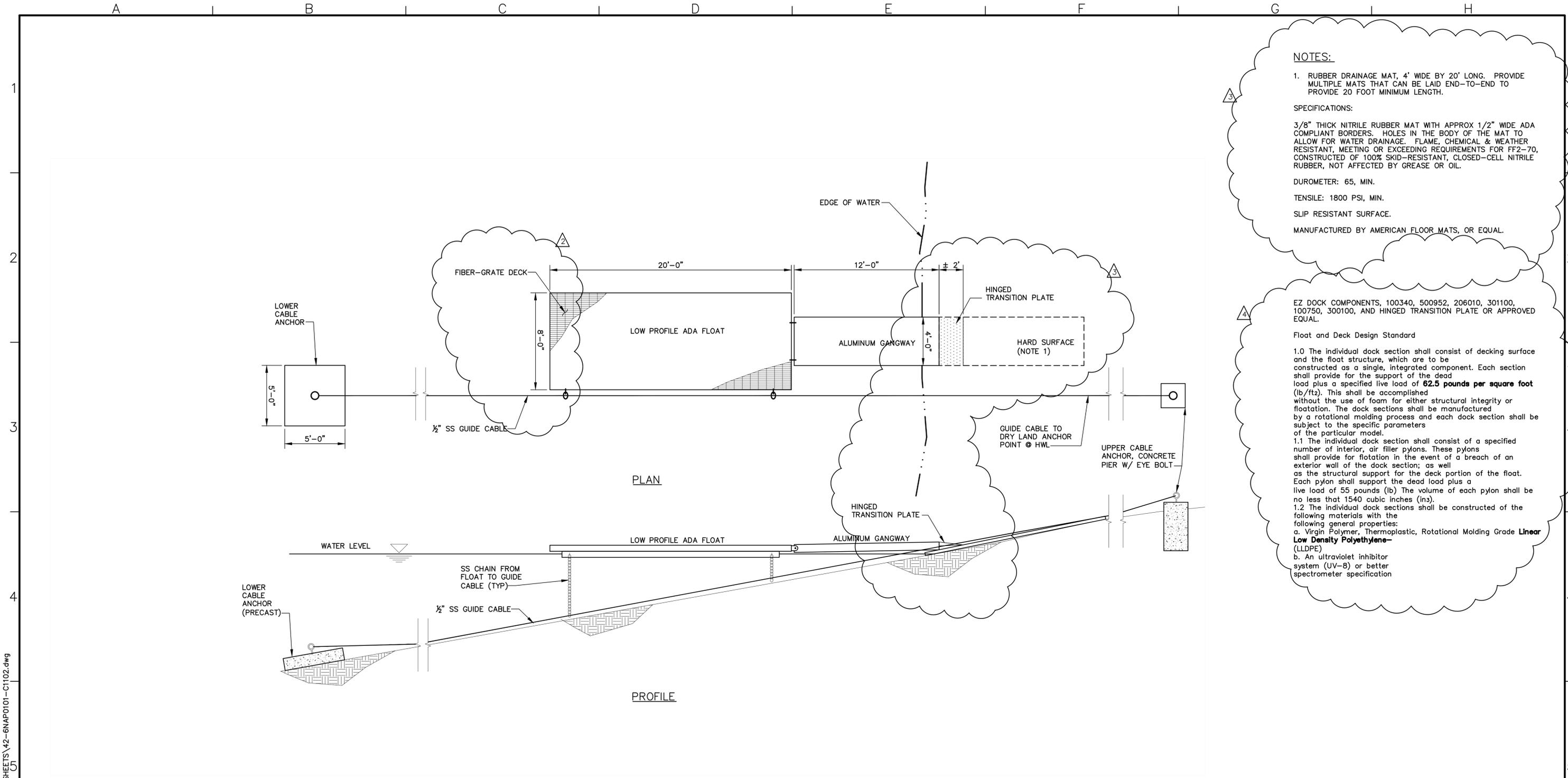
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 SEE SHEET G00.06 FOR BREAKDOWN

0 1" LINE IS 2 INCHES AT FULL SCALE 2"  
 IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
**FLOATING DOCK & ACCESS PLAN**

Scale  
 1"=40'-0"  
 Drawing No.  
**C11.01**  
 Sheet No.  
 41 of 70



**NOTES:**

- RUBBER DRAINAGE MAT, 4' WIDE BY 20' LONG. PROVIDE MULTIPLE MATS THAT CAN BE LAID END-TO-END TO PROVIDE 20 FOOT MINIMUM LENGTH.

**SPECIFICATIONS:**

3/8" THICK NITRILE RUBBER MAT WITH APPROX 1/2" WIDE ADA COMPLIANT BORDERS. HOLES IN THE BODY OF THE MAT TO ALLOW FOR WATER DRAINAGE. FLAME, CHEMICAL & WEATHER RESISTANT, MEETING OR EXCEEDING REQUIREMENTS FOR FF2-70, CONSTRUCTED OF 100% SKID-RESISTANT, CLOSED-CELL NITRILE RUBBER, NOT AFFECTED BY GREASE OR OIL.

DUROMETER: 65, MIN.

TENSILE: 1800 PSI, MIN.

SLIP RESISTANT SURFACE.

MANUFACTURED BY AMERICAN FLOOR MATS, OR EQUAL.

EZ DOCK COMPONENTS, 100340, 500952, 206010, 301100, 100750, 300100, AND HINGED TRANSITION PLATE OR APPROVED EQUAL.

Float and Deck Design Standard

1.0 The individual dock section shall consist of decking surface and the float structure, which are to be constructed as a single, integrated component. Each section shall provide for the support of the dead load plus a specified live load of **62.5 pounds per square foot** (lb/ft<sup>2</sup>). This shall be accomplished without the use of foam for either structural integrity or flotation. The dock sections shall be manufactured by a rotational molding process and each dock section shall be subject to the specific parameters of the particular model.

1.1 The individual dock section shall consist of a specified number of interior, air filler pylons. These pylons shall provide for flotation in the event of a breach of an exterior wall of the dock section; as well as the structural support for the deck portion of the float. Each pylon shall support the dead load plus a live load of 55 pounds (lb) The volume of each pylon shall be no less than 1540 cubic inches (in<sup>3</sup>).

1.2 The individual dock sections shall be constructed of the following materials with the following general properties:

- Virgin Polymer, Thermoplastic, Rotational Molding Grade **Linear Low Density Polyethylene** (LLDPE)
- An ultraviolet inhibitor system (UV-8) or better spectrometer specification

**DETAIL**  
SCALE: NTS

1  
C11.01

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Δ	10/12/14	SK	SPECIFICATION CLARIFICATION	
Δ	9/12/14	SK	PLAN CLARIFICATION	
Δ	8/29/14	SK	PUBLIC WORKS COMMENTS	

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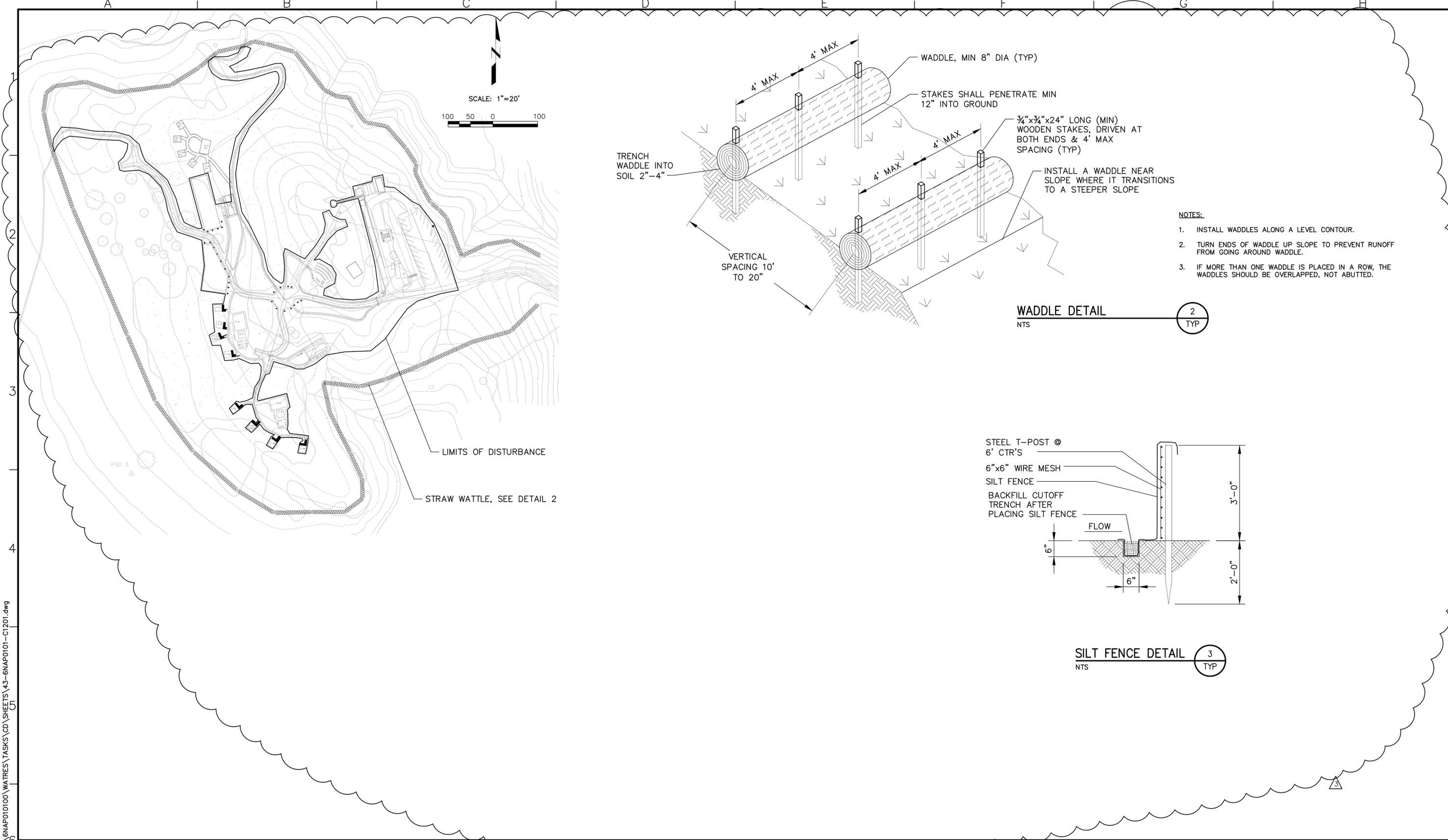
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SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

CIVIL  
FLOATING DOCK - PLAN & PROFILE

Scale	NONE
Drawing No.	C11.02
Sheet No.	42 of 70



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 IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

CIVIL  
**EROSION CONTROL PLAN**

Scale  
AS NOTED

Drawing No.  
**C12.01**

Sheet No.  
43 of 70

A B C D E F G H

**BILL OF MATERIALS**

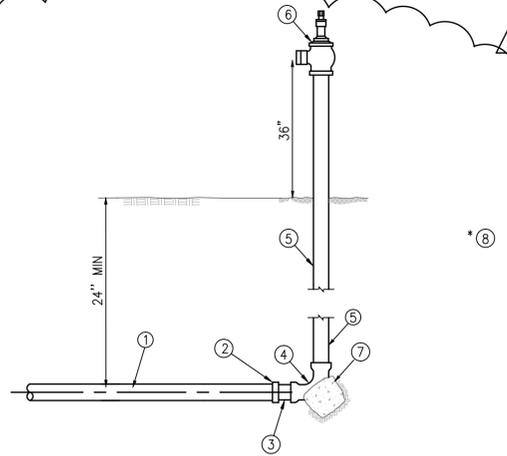
- 1) C900 PIPE, 4", LENGTH AS REQUIRED
- 2) 4" PVC FLANGE ADAPTER W/ 4" THREADED COMPANION FLANGE
- 3) 4" GS NIPPLE
- 4) 4" GS 90° ELBOW
- 5) GALVANIZED STEEL PIPE, 4", LENGTH AS REQUIRED
- 6) WHARF HYDRANT W/ 2 1/2" HOSE CONNECTION
- 7) CONCRETE THRUST BLOCK WITH 2 SQ. FT. MIN BEARING AREA, 0.60 CU FT MIN CONCRETE
- 8) ADD BLUE REFLECTOR ADJACENT TO HYDRANT, ON ROAD.

**NOTES**

- 1) PAINT WHARF HYDRANT RED

**WHARF HYDRANT ASSEMBLY DETAIL**

NO SCALE



1 TYP

**BILL OF MATERIALS**

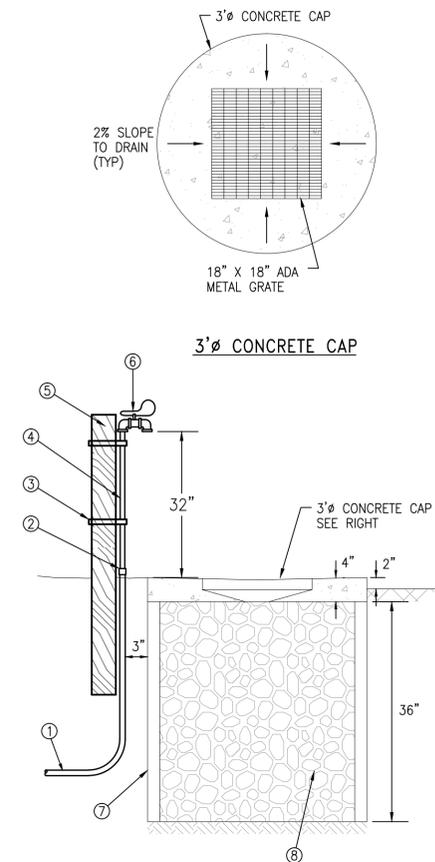
- 1) HDPE PIPE, 1" LENGTH AS REQUIRED
- 2) 1" X 3/4" COUPLING
- 3) STAINLESS STEEL STRAP
- 4) 3/4" GS PIPE
- 5) 4" X 6" SYNTHETIC POST
- 6) ADA, SPRING LOADED, BIB TAP
- 7) 3" CONCRETE GRADE RING
- 8) 3/4" DRAIN ROCK

**NOTE:**

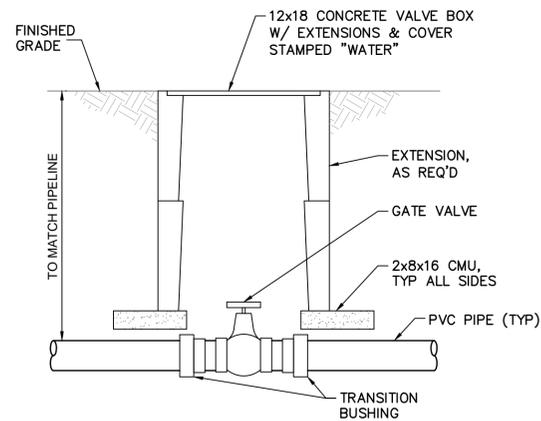
- 1) PROVIDE TEN (10) FOOT HORIZONTAL SEPARATION BETWEEN WATER SERVICELINE AND DOMESTIC SEWER OR SEWER SERVICELINE.
- 2) FOR ACCESSIBLE BIB CONNECTIONS PLACE 3' MIN. AC PAVEMENT FROM EDGE OF CONCRETE CAP IN ALL DIRECTIONS AND EXTEND 5' WIDE MIN. TO ROADWAY.

**WATER SERVICE ASSEMBLY DETAIL**

NO SCALE



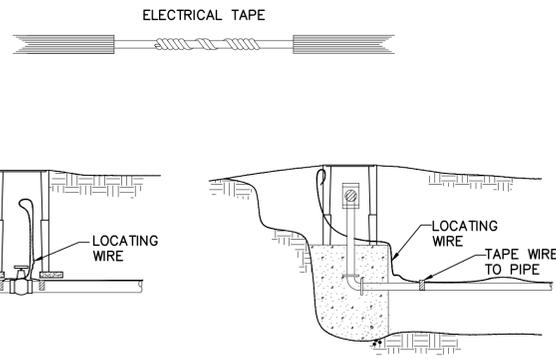
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**BURIED VALVE DETAIL**

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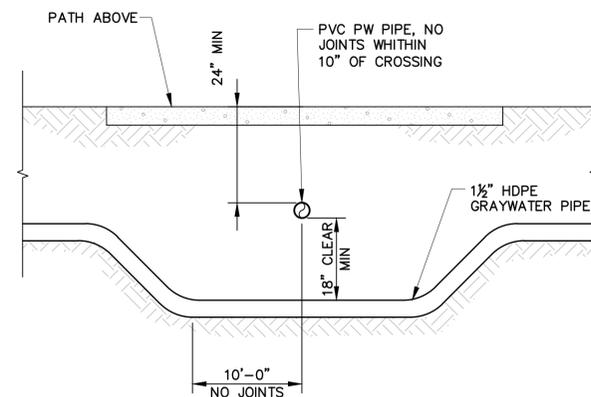
3 TYP



**LOCATING WIRE DETAIL**

NO SCALE

4 TYP



**POTABLE WATER/GRAYWATER CROSSING DETAIL**

NO SCALE

5 TYP

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SKEMEN

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ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	DWH
	Job No.	BNAP010100
Rev 8/29/14 SK	By	SK
Date	Description	PUBLIC WORKS & FIRE DIVISION COMMENTS

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 SEE SHEET G00.06 FOR BREAKDOWN

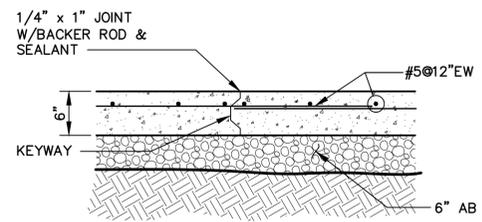
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 IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS**

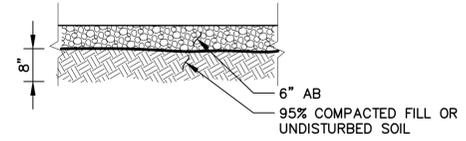
TYPICAL DETAILS 1

TYPICAL DETAILS 1

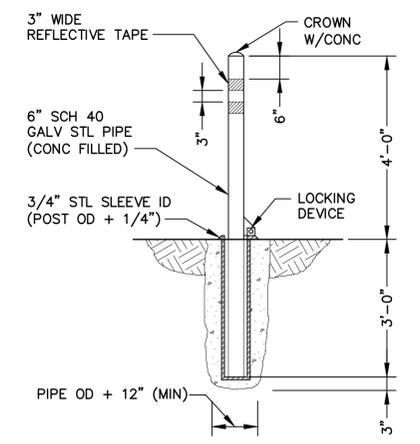
Scale AS NOTED  
 Drawing No. T01  
 Sheet No. 44 of 70



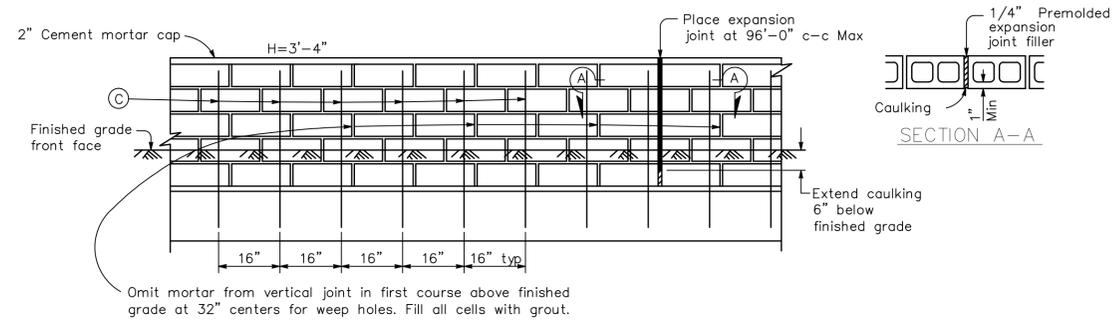
**TRASH BIN PAD DETAIL**  
NO SCALE



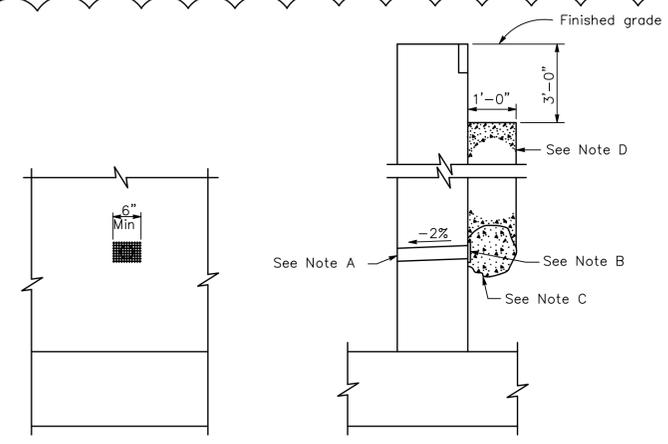
**AB ROAD DETAIL**  
NO SCALE



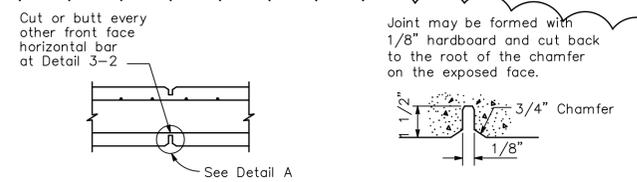
**REMOVABLE BOLLARD DETAIL**  
NO SCALE



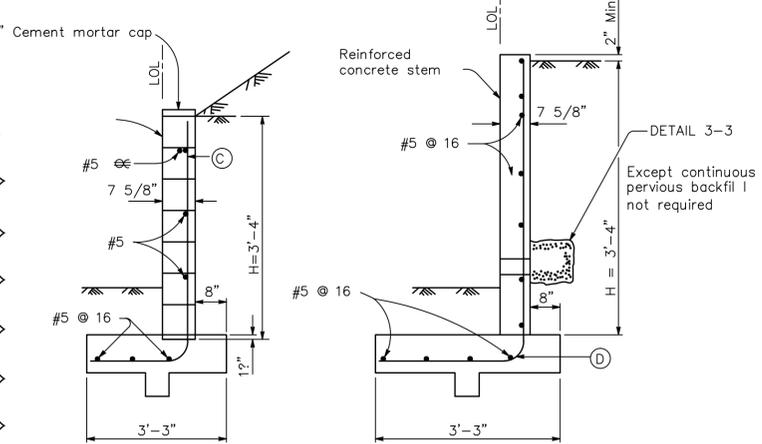
**ELEVATION - MASONRY CONSTRUCTION**



**WEEP HOLE AND PERVIOUS BACKFILL**



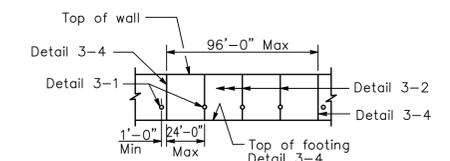
**WALL EXPANSION JOINTS AND WEAKENED PLANES**



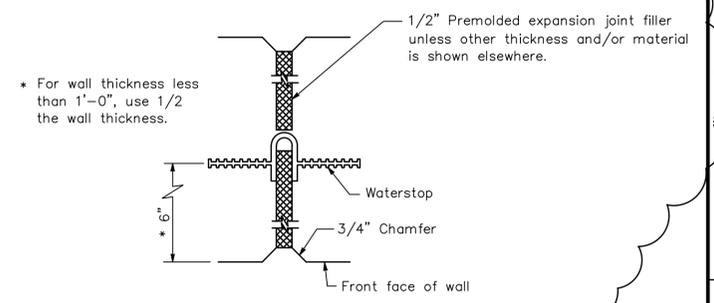
Except continuous pervious backfill is not required

**NOTES:**

- A. 4" A Drains @ 25'-0" maximum center to center, 9'-0" center to center for Type 3 and 9'-3" center to center for Type 4 retaining walls. For walls adjacent to sidewalks or curbs, provide 4" plastic pipe under the sidewalk to discharge thru curb face. Exposed wall drains shall be located 3"E above finished grade.
- B. 6" square aluminum or galvanized steel wire 1/2" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
- C. One cubic foot pervious backfill material in a nonwoven filter fabric, securely tied.
- D. Pervious backfill material continuous behind retaining wall or abutment.



**WALL EXPANSION JOINT AND WEAKENED PLANES**



**WALL EXPANSION JOINT**

Design H	3'-4"
(C)	#5 @ 16
(D)	#5 @ 15

**NOTES:**

1. The Contractor will have the option of constructing the wall of either masonry or reinforced concrete.
2. For reinforced concrete wall stem joint details, See detail 3-3 and 3-4.
3. No splices are allowed on (C) bars.
4. At (D) bar, no splices are allowed within 1'-8" above the top of footing.

**DESIGN DATA**

Masonry:	$f_m = 500$ psi	$f'_m = 1,500$ psi	$f_{\bar{c}} = 24,000$ psi	$n = 20$
Reinforced Concrete:	$f_c = 1,450$ psi	$f'_c = 3,600$ psi	$f_{\bar{c}} = 24,000$ psi	$n = 10$
Earth =	120 lb/ft <sup>2</sup>			
Minimum allowable soil bearing capacity of foundation material = 2.0 ksf				

**RETAINING WALL**  
NO SCALE

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ISSUED FOR BIDS	Designed
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	DWH
	Job No.
	SNAP010100

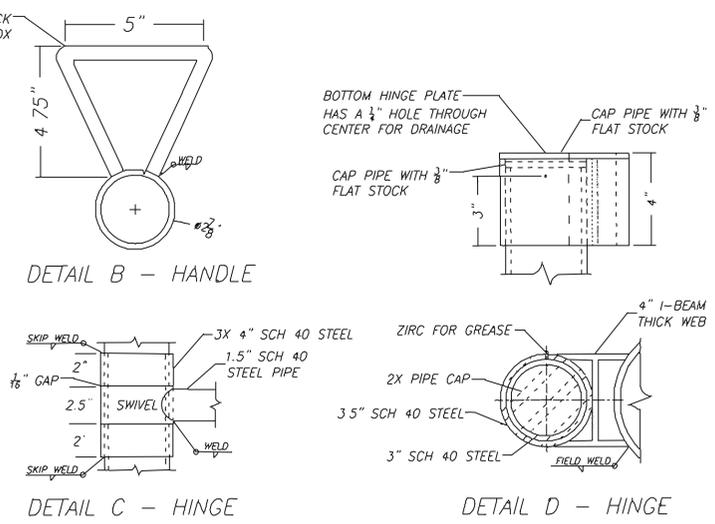
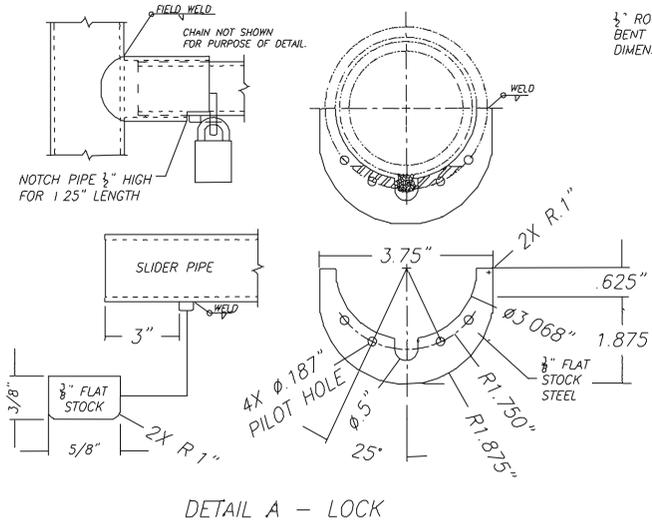
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SEE SHEET G00.06 FOR BREAKDOWN  
0 LINE IS 2 INCHES AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

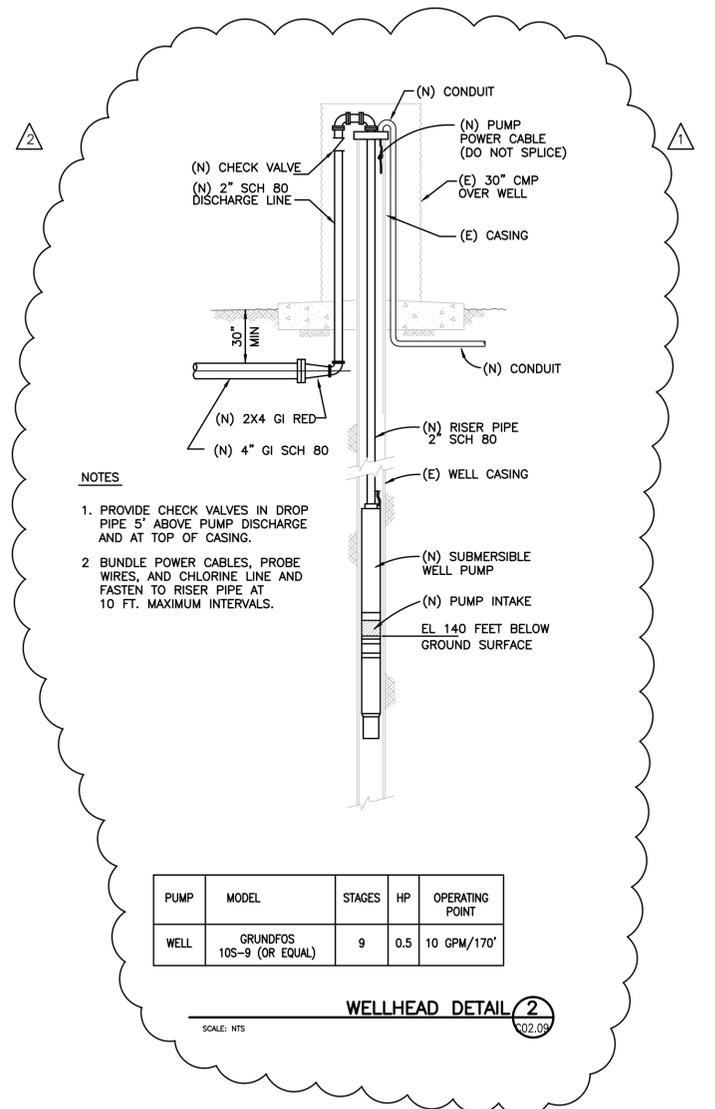
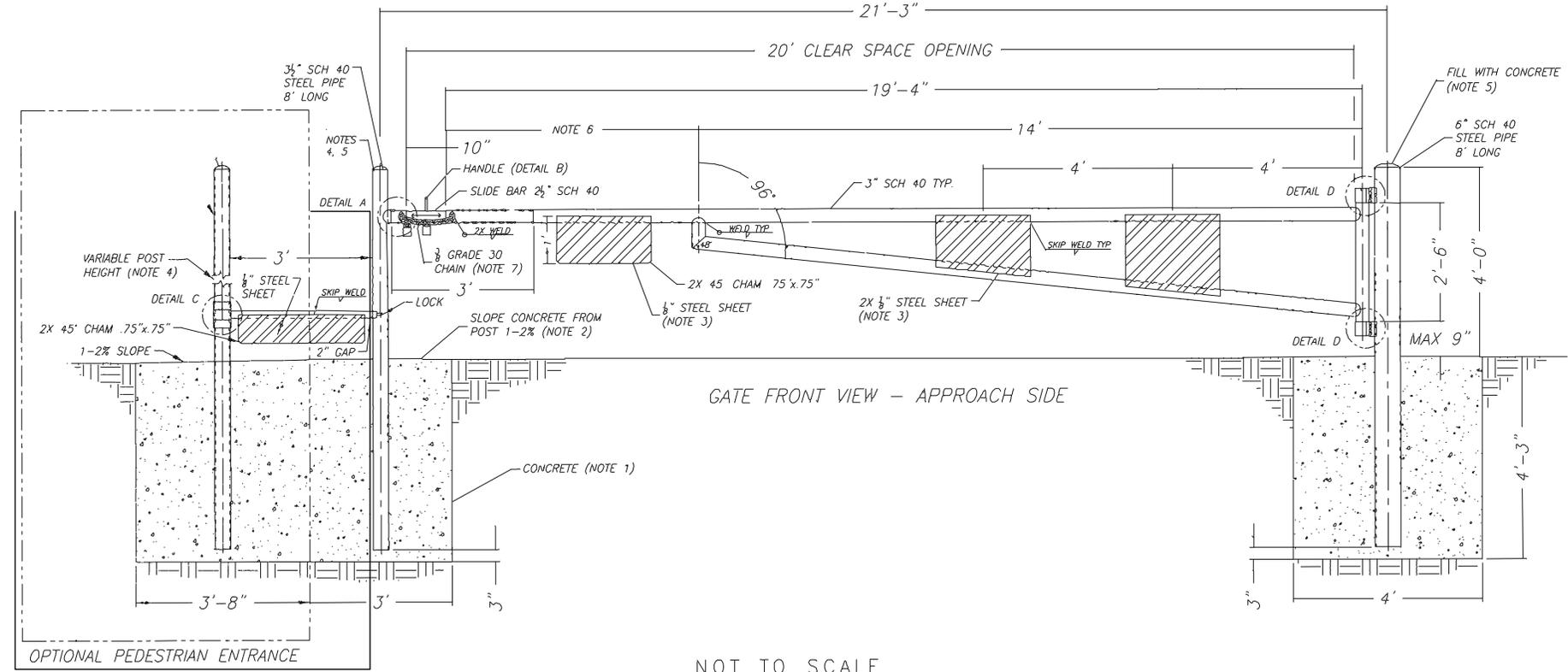
**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**  
TYPICAL DETAILS  
TYPICAL DETAILS 2

Scale AS NOTED  
Drawing No. T02  
Sheet No. 45 of 70

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- NOTES**
- NOTE 1 - 5 SACK CONCRETE. ALLOW 14 DAY CURE PRIOR TO INSTALLING PIPE GATE.
  - NOTE 2 - SLOPE CONCRETE AWAY FROM POSTS 1-2% MAX.
  - NOTE 3 - 1/8" STEEL SHEET USED FOR SIGN ATTACHMENT.
  - NOTE 4 - PEDESTRIAN GATE POST HEIGHT MAY CHANGE FOR CONNECTING TO VARIOUS FENCES
  - NOTE 5 - FILL POSTS WITH CONCRETE.
  - NOTE 6 - GATE WIDTH CAN BE CHANGED TO MEET CLEAR SPACE REQUIREMENTS BY CUTTING END LENGTH OF PIPE.
  - NOTE 7 - 3/8 GRADE 30 CHAIN INSTALLED FOR SECURITY CONTROL OPTIONS
  - NOTE 8 - GRIND ALL OUTSIDE WELDS, SHARP EDGES AND CORNERS SMOOTH
  - NOTE 9 - INSTALL GATE POSTS PLUMB.
  - NOTE 10 - ALL WELDS 3/8" MINIMUM.



- NOTES**
- PROVIDE CHECK VALVES IN DROP PIPE 5' ABOVE PUMP DISCHARGE AND AT TOP OF CASING.
  - BUNDLE POWER CABLES, PROBE WIRES, AND CHLORINE LINE AND FASTEN TO RISER PIPE AT 10 FT. MAXIMUM INTERVALS.

PUMP	MODEL	STAGES	HP	OPERATING POINT
WELL	GRUNDFOS 10S-9 (OR EQUAL)	9	0.5	10 GPM/170'

**WELLHEAD DETAIL** (2)  
SCALE: NTS

**GATE DETAIL** (1)  
NO SCALE

NOT TO SCALE

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8/12/14	SK		WELL PUMP TO BE INSTALLED

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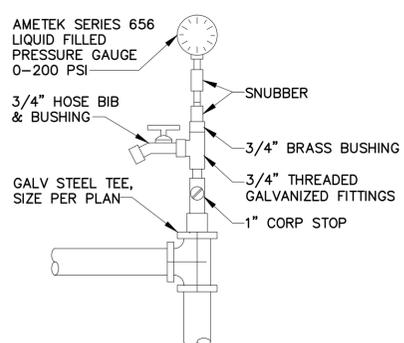
B14.1071 - 1079  
SEE SHEET G00.06 FOR BREAKDOWN

0 LINE IS 2 INCHES 2"  
AT FULL SCALE  
IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

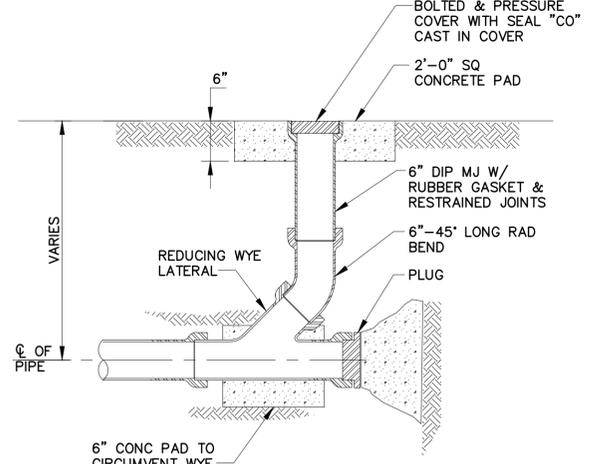
TYPICAL DETAILS  
**DETAILS 3**

Scale	NONE
Drawing No.	T03
Sheet No.	46 of 70



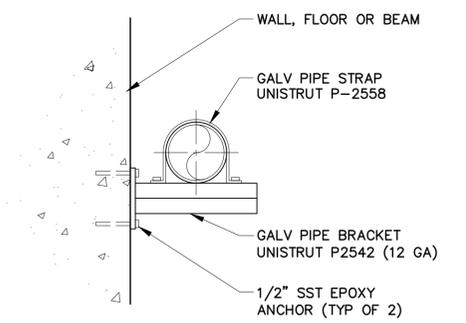
**PW & NPW PRESSURE GAUGE**

**PRESSURE GAUGE DETAIL 1**  
NO SCALE TYP



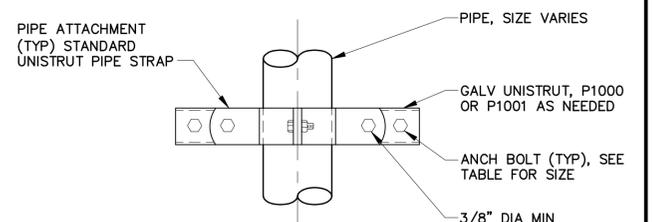
**CLEANOUT DETAIL 2**

NO SCALE TYP



**NOTES:**  
1. ALL PIPE SUPPORTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE. ALSO, FIELD PAINT PER SPECS

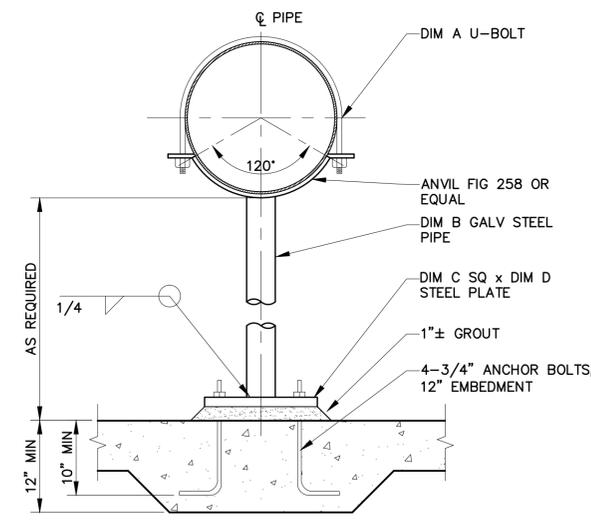
**PIPE SUPPORT DETAIL 3**  
NO SCALE TYP



PIPE SIZE	EXPANSION ANCHOR SIZE
2" & SMALLER	1/2"
2 1/2" TO 4"	5/8"

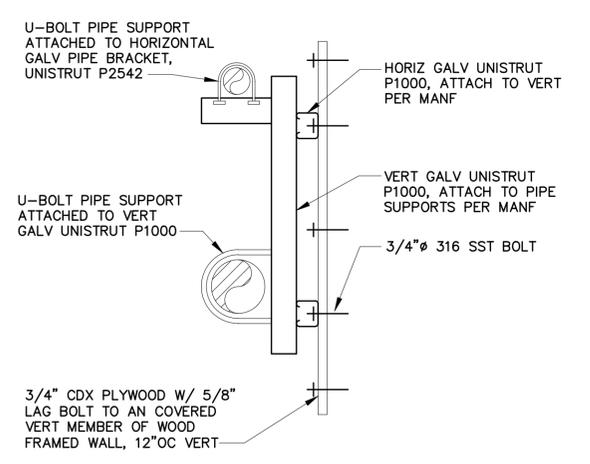
**NOTES:**  
1. ALL PIPE SUPPORTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE. ALSO, FIELD PAINT PER SPECS

**PIPE SUPPORT DETAIL 4**  
NO SCALE TYP

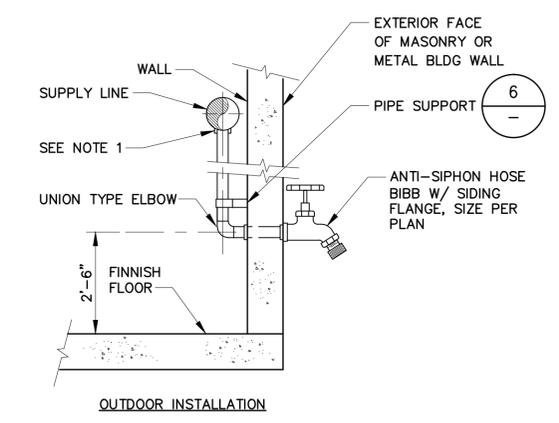


	PIPE SIZE				
	<2"	2"-6"	>6"-10"	12"-16"	18"
DIM A	1/2"	1/2"	5/8"	3/4"	1"
DIM B	1 1/2"	2"	3"	4"	6"
DIM C	6"	8"	1'	1'-4"	1'-4"
DIM D	1/2"	3/4"	1"	1"	1"

**PIPE SUPPORT DETAIL 5**  
NO SCALE TYP

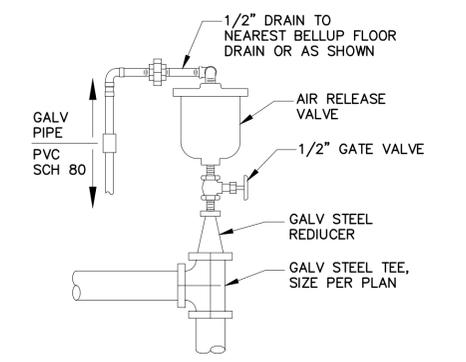


**PIPE SUPPORT DETAIL 6**  
NO SCALE TYP



**NOTES:**  
1. FOR STEEL PIPES USE WELDED HALF COUPLING, FOR DI USE THREADED OR SADDLE WITH BUSHING. CU USE SOLDERED FITTING.  
2. PROVIDE HOSE RACK AT EACH HOSE BIBB  
3. PROVIDE WARNING SIGN AT EACH HOSE BIBB "FOR NON POTABLE WATER USE ONLY."  
4. ALL HOSE BIBBS TO BE EQUIPPED W/ BFP VALVE.

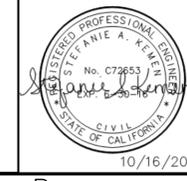
**HOSE BIB DETAILS 7**  
NO SCALE TYP



**AIR RELEASE DETAIL 8**  
NO SCALE TYP

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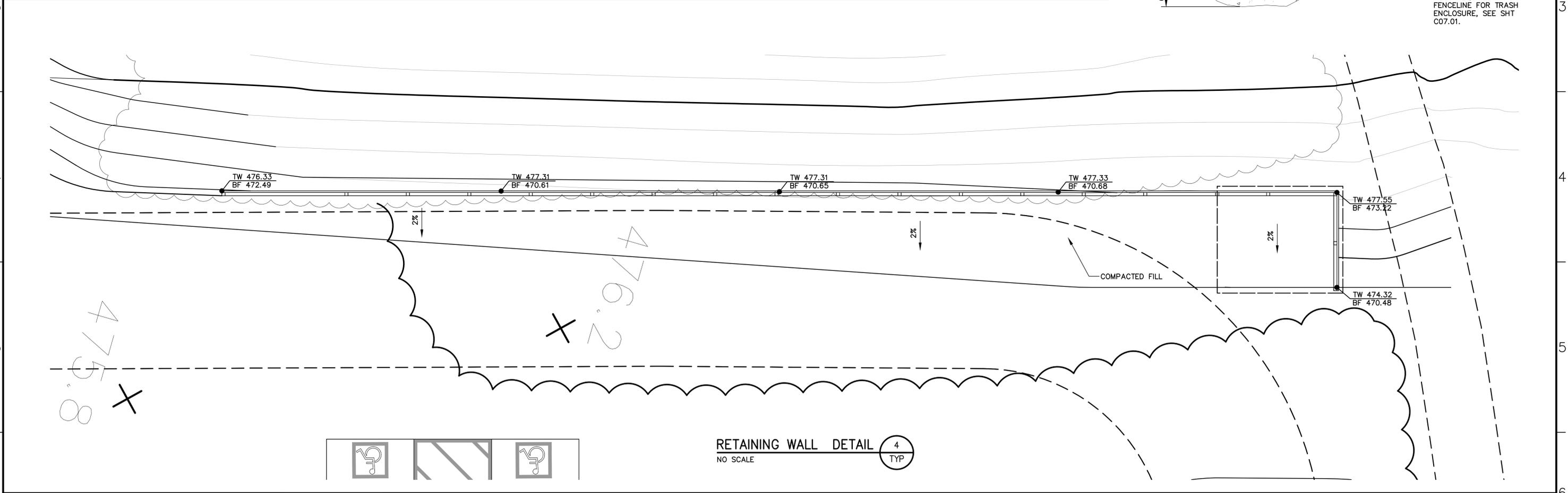
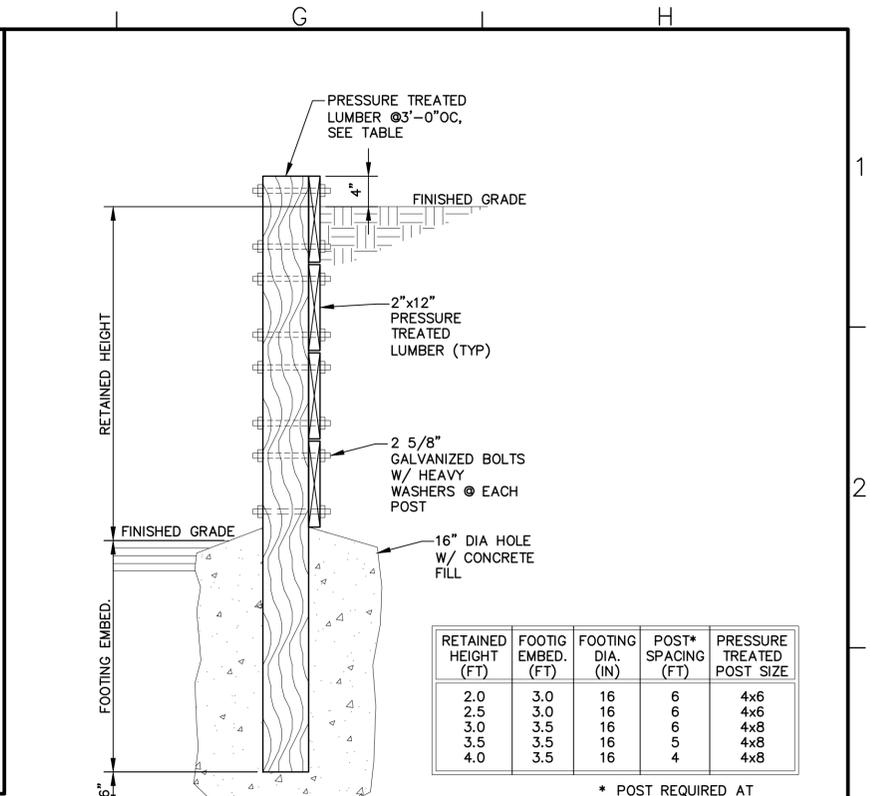
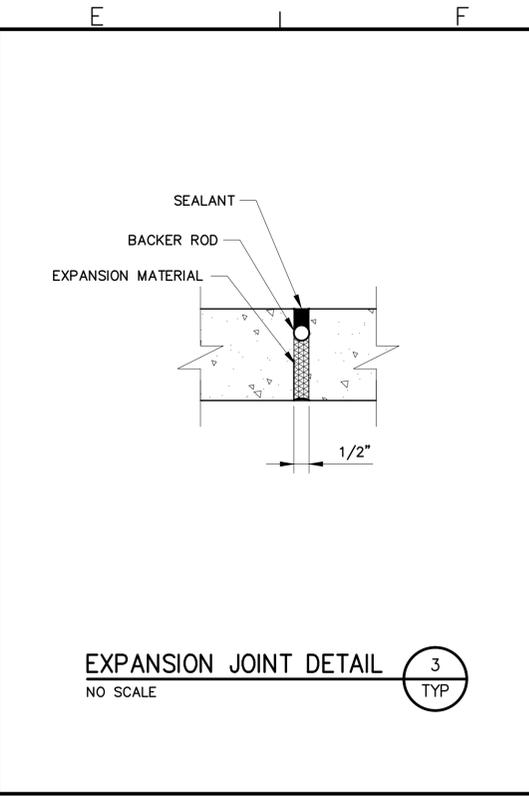
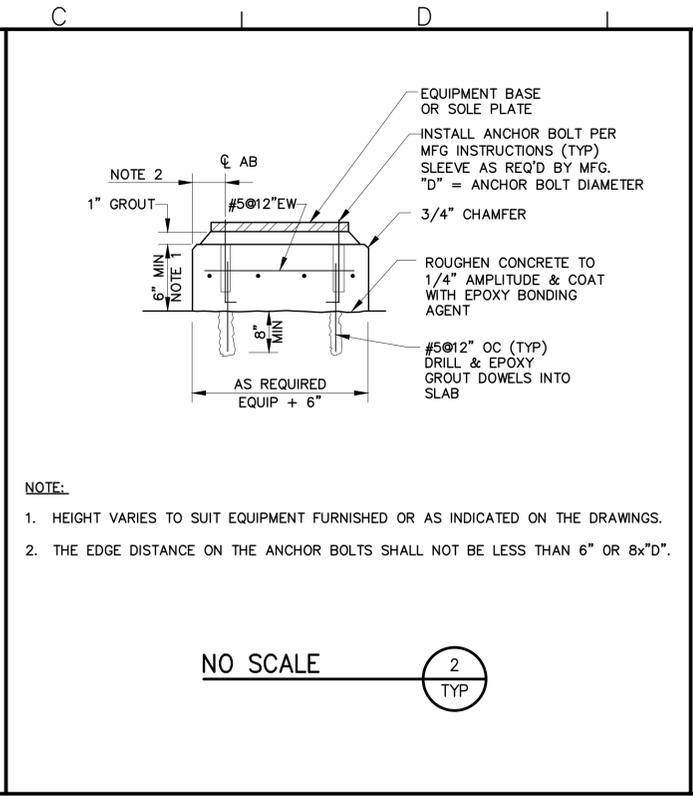
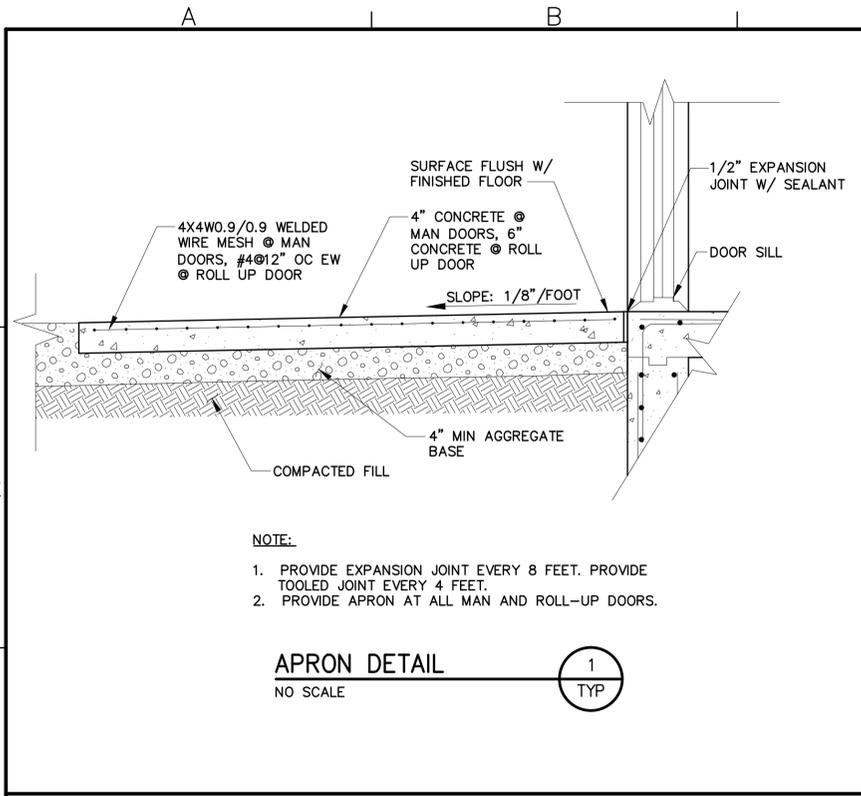
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ISSUED FOR CONSTRUCTION	Drawn	JAC
	Checked	SAK
	Job No.	
		6NAP010100

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0 LINE IS 2 INCHES AT FULL SCALE  
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**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT CAMP BERRYESSA IMPROVEMENTS**  
TYPICAL DETAILS  
DETAILS 4

Scale: NONE  
Drawing No.: T04  
Sheet No.: 47 of 70



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IF LINE IS NOT 2" SCALE ACCORDINGLY

**NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS**

TYPICAL DETAILS  
DETAILS 5

Scale  
NONE

Drawing No.  
T05

Sheet No.  
48 of 70

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- REINFORCING STEEL:**
- All reinforcing steel shall conform to ASTM A615 grade 60 UNO, except reinforcing to be welded shall conform to ASTM A706.
  - Welded wire fabric shall conform to ASTM A185. Minimum lap at splices shall be 12 inches.
  - All concrete shall be reinforced unless specifically noted "not reinforced" in the drawings. If reinforcing bars are not shown or noted. Provide same reinforcement as for similar conditions elsewhere in the work, or as directed by the architect/engineer.
  - Reinforcement bars shall not be spliced except as detailed and located on drawings.
  - Anchor bolts, dowels and other embedded items shall be accurately set in place before concrete is poured.
  - Reinforcement bars shall be accurately placed and firmly supported. Using ties and support bars in addition to reinforcement shown where firm and accurate placing is necessary as specified in the ACI standards. Dowels should be provided to match all reinforcement at construction joints unless otherwise noted.
  - No reinforcement welding shall be done unless shown on the drawings or approved by the engineer (tack welding included). Welding of reinforcement is only permitted for reinforcing steel having a carbon equivalent less than 0.65% according to AWS D1.4 specifications.
  - All dimensions shown for location of reinforcing are to the face of bars and denote clear coverage unless otherwise noted.
  - Minimum concrete coverage of reinforcing steel shall be as follows unless otherwise noted on plans:
 

Concrete cast against earth	3"
Formed concrete exposed to earth or weather: #5 bar and smaller, post tension strands	1 1/2"
#6 - #18 bars	2"
Formed concrete not exposed to earth or weather: Bars in slabs and walls and joists	
#6 bars and smaller	1"
#7 - #18 bars	1 1/2"
Bars in beams and columns	1 1/2"
  - Drawings show typical reinforcing conditions. Contractor shall prepare detailed placement drawings of all conditions showing quantity spacing, sizes, clearance, laps, intersections, and coverage required by structural details, applicable code and trade standards. Contractor shall notify reinforcing inspector of any adjustments from typical conditions which are proposed in placement drawings to facilitate field placement of reinforcing steel and concrete.

- WOOD NOTES:**
- All structural wood shall conform with the following specifications UNO:
    - Douglas Fir - Coast Region - WCLIB grading rules #17.
    - 2x studs, rafters, ledgers, joists, plates - DF#2.
    - 3x and larger studs, posts, ledgers, plates - DF#1.
    - 4x beams -DF #1.
    - 6x and larger beams - DF#1.
    - Nailers, blocking - DF Construction.
    - 2x decking - DF Select Dex at interior conditions. Use con common redwood or approved composite decking at exterior conditions.
    - Non structural backing, stripping, furring - DF Construction.
  - For timber 3x and larger, no more than 20% of the cross section shall include heart centers.
    - Redwood - California Redwood, RIS.
    - Glued Laminated Beams - Standard Spec. for Structural Glued Laminated Timber AITC 117. Submit Shop Drawings prior to fabrication of glued laminated members.
    - Simple span beams shall be combination 24F-V4 UNO.
    - Continuous spans and cantilevers shall be combination 24F-V8.
    - Sheathing - US Product Standard PS 1-09 and PS 2-10. Struct 1 APA rated sheathing w/ exterior glue at walls, floors, & roof UNO.
    - Pressure Treated Douglas Fir - Standard Specifications FDN, by AWPB.
  - All wood in direct contact with earth or concrete shall be pressure treated, except ledgers, which do not need to be pressure treated.
  - Field cuts and bolt holes in pressure treated wood shall be protected in accordance with AWPA standard M4.
  - Bearing and shear walls shall have double top plates, lapped at wall and partition intersection with (3) 16d nails. Splice upper and lower plates as in "Typical Stud Wall & Opening Framing Detail" on Typical Detail Sheet S1.2.
  - Provide solid blocking between joists and raters at all supports.
  - Provide blocking at all ceiling levels.
  - Joists under and parallel to partitions shall be doubled and nailed together.
  - The moisture content of 2x material at time of delivery shall be less than 19%. The moisture content of lumber 3x and larger at time of delivery shall be less than 30%.
  - Holes for bolts in wood shall be bored with a bit of the same nominal diameter as the bolt plus 1/16".
  - Holes for lag screws shall be first bored into the same diameter and depth as the unthreaded shank, and the rest to 50% of the shank diameter.
  - Lag screws and wood screws shall be screwed and not driven into place. Soap may be used to lubricate screws.
  - All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood. Applies also to post-installed anchors through wood and into concrete. Applies also to inserted expanding fasteners, Red Head, ect.
  - All bolts and lag screws shall be tightened on installation and retightened before closing in or at completion of the job.
  - No upset threaded bolts allowed.
  - Lay all structural sheathing on roof and floors with long dimension perpendicular to supports unless noted otherwise.
  - Block sheathing joints with 2 x 4 flat blocking where noted on roof or floor framing plans and with blocking same size at studs at walls. Use plyclips at midspan of unsupported roof sheathing edges.
  - Framing hardware shown on the plans is Simpson Strong - Tie. Use framing hardware as manufactured by Simpson Company or Equivalent. Prior to installation of any non-Simpson hardware, the contractor shall submit a list of all detail references where a hardware substitution is proposed, the designation for the Simpson item and non-Simpson proposed equivalent and an ICC report for each substitution item.
  - Provide Simpson Strong - Tie LU hangers at joists and HU hangers at sloped or skewed joists and beams, UNO. Provide Maximum hanger depth and nailing, UNO.
  - Notify Structural Engineer after wall, floor, and roof shtg nailing has been completed and a minimum of 48 hours prior to concealing shtg.
  - All nails shall be common wire full round head nails. 16d sinker nails may be substituted for 16d common nails at rough 2x framing UNO. Pneumatically driven nails meeting size requirements are acceptable. Nail must not be overdriven. All nailing not noted or detailed otherwise shall be per detail 12/S1.2. Nail length to be sufficient to meet CBC penetration requirements. Nails into pressure treated material to be galvanized.
  - Provide galvanized hardware, nails, etc. in contact with pressure treated material.

- GENERAL NOTES:**
- All materials and workmanship shall conform to the drawings, General Notes and Specifications.
  - During the construction period the contractor shall be responsible for the safety of the structure. The contractor shall retain a registered Civil Engineer to design all temporary shoring, bracing and guys required during construction is accordance with all National, State and Local Safety Ordinances.
  - All applicable requirements of the local Construction and General Industry Safety Orders, the Occupational Safety and Health Act and the Construction Safety Act shall be met.
  - All erection procedures shall conform to OSHA standards. Any deviation must be approved by OSHA prior to erection.
  - The Contractor shall be solely responsible for all excavation procedures including lagging, shoring and protection of adjacent property, structures, streets and utilities in accordance with all National, State and Local Safety Ordinances.
  - The Contractor shall be responsible for contacting all utility agencies as to the location of all underground facilities for the protection of and repair of damage to them. Call "Underground Service Alert" forty-eight hours before digging.
  - The Contractor shall be responsible for coordinating the work of all trades and shall check all dimensions. All discrepancies shall be called to the attention of the Structural Engineer and shall be resolved before proceeding with the work.
  - Shop drawings required by the specifications shall be submitted to the Structural Engineer for review prior to fabrication.
  - All details designed as Standard or Typical shall apply to all applicable conditions in addition to other specifically referenced detail and sections.
  - Drawings indicate General and Typical Details of Construction. Where conditions are not specifically indicated but are of similar character to details shown, similar detail of construction shall be used subject to review by the Engineer.
  - See Civil, Mechanical, Plumbing and Electrical drawings for size and location of all openings required for ducts, pipes and all pipe sleeves, electrical conduits and other items to be embedded in concrete or otherwise incorporated in structural works.
  - Architectural and Civil Plans are considered a part of the structural design drawings and are to be used to define detail configurations including, but not limited to relative location of members, elevations, location of all opening, etc.
  - All necessary permits, licenses, approvals, fees, notices, etc., shall be obtained prior to beginning construction.
  - No conduit, pipes or ducts shall be embedded into structural members unless so shown on the plans or approved by the Structural Engineer.
  - Refer to Architectural/Civil Plans for floor depressions, openings, slopes, drawing, curbs, pad, embedded items, non-bearing partitions, stair hangers, etc. Refer to Mechanical and Electrical Plans for sleeves, openings, and hangers for pipes, ducts and equipment.
  - Verify all dimensions and conditions on the job.

- DESIGN CRITERIA:**
- Codes and Standards
    - 2013 California Building Code (CBC)
  - Wind Design:
    - Basic Wind Speed,  $V_{3s} = 85$  MPH
    - Exposure Category C
    - Importance Factor,  $I_w = 1.00$
  - Seismic Design:
    - Occupancy Category II
    - Design Category E
    - Soil Site Class D
    - Importance Factor,  $I = 1.00$
    - Spectral Response Accelerations
    - $S_s = 1.948$   $S_{D5} = 1.299$
    - $S_1 = 0.777$   $S_{D1} = 0.777$
    - Analysis Procedure = Equivalent Lateral Force Procedure
    - Response modification,  $R = 4$  Light Framed Sheathed Wood Panels & Concrete Shear Walls
    - Seismic Response Coefficient,  $C_s = 0.25$
  - Live Loads:
    - Roof 20 psf
    - Floor 40 psf

- FOUNDATION:**
- The foundation design is based on provisions provided in the 2013 CBC.
    - D + L Bearing Pressure = 1500 psf
    - D + L + Lateral Bearing Pressure = 2000 psf
  - Unless otherwise indicated. Foundation work shall be performed in accordance with the 2013 CBC and all applicable local codes.
  - Foundation excavations shall be examined and certified by the soils engineer or his representative prior to the placement of any reinforcing steel or concrete.
  - Unexpected soil conditions: foundation design is based upon soil conditions normally encountered for construction of these types of structures. Where soil conditions are encountered that are suspect with regard to the suitability or capacity of soil to support the structure in the opinion of the contractor or building inspector, notify the architect in a timely fashion, the architect may then recommend to the owner employing the services of a geotechnical engineer to provide specific recommendations for further foundation preparation.
  - Compaction: material for filling and backfilling shall consist of the excavated material and/or imported borrow and shall be free of organic matter, trash, lumber or other debris. Compact fill to at least 90 percent of the ASTM D1559 maximum dry density.
  - Earth shall be compacted under all slabs and around all footings.
  - Form footings as necessary.
  - Bottom of footing shall be stepped if necessary to provide level bearing.
  - Foundation excavations shall be cleaned of any loosened soils and standing water before placing steel or concrete.
  - Building pad shall be examined and certified by geotechnical engineer for geotechnical requirements and by the civil engineer for grading requirements.

ABBREVIATIONS			
ADDNL	ADDITIONAL	GC	GENERAL CONTRACTOR
AB	ANCHOR BOLT	GLB	GLU-LAM BEAM
ARCH	ARCHITECTURAL	HA	HEADED ANCHOR
BETW	BETWEEN	H	HIGH
BEV	BEVELLED	HSB	HIGH STRENGTH BOLT
BLKG	WOOD BLOCKING	HSS	HOLLOW STRUCTURAL STEEL
BM	BEAM	HORIZ	HORIZONTAL
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
CLR	CLEAR	LS	LAG SCREW
CL	CENTERLINE	MANUF	MANUFACTURER
OC	ON CENTER	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MB	MACHINE BOLT
COL	COLUMN	MECH	MECHANICAL
CONC	CONCRETE	MIN	MINIMUM
CONSTR JT	CONSTRUCTION JOINT	(N)	NEW
CONT	CONTINUOUS	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
db	BAR DIAMETER	OH	OPPOSITE HAND
DIA	DIAMETER	OPNG	OPENING
DIM	DIMENSION	PL	PLATE
DN	DOWN	REINF	REINFORCING
DO	DITTO (REPEAT)	REQ'D	REQUIRED
(E)	EXISTING	REQMT'S	REQUIREMENTS
EA	EACH	(S)	SIMPSON STRONG-TIE
EE	EACH END	SAD	SEE ARCHITECTURAL DWGS
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
EL (ELEV)	ELEVATION	SHTG	APA RATED SHEATHING
EWEF	EACH WAY EACH FACE	SSDS	STAINLESS STEEL DECK SCREW
EQ	EQUAL	STGR	STAGGERED
EQUIP	EQUIPMENT	STND HK	STANDARD HOOK
EN	EDGE NAILING	STIFF	STIFFENER
ES	EACH SIDE	SQ	SQUARE
EW	EACH WAY	SYMM	SYMMETRICAL
FB	FACE OF BLOCK	T&B	TOP AND BOTTOM
FC	FACE OF CONCRETE	TOB	TOP OF BLOCK
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FF	FACE OF FRAMING	TOF	TOP OF FTG, TOP OF FRMG
FIN FLR	FINISHED FLOOR	TOS	TOP OF STEEL
FIN GRD	FINISHED GRADE	TOW	TOP OF WALL
FLG	FLANGE	TYP	TYPICAL
FOM	FACE OF MASONRY	UNO	UNLESS NOTED OTHERWISE
FOS	FACE OF STUD	VERT	VERTICAL
FN	FIELD NAILING	VIF	VERIFY IN FIELD
FTG	FOOTING	W	WIDE
GA	GAGE	WP	WORKING POINT
GALV	GALVANIZED	WS	WOOD SCREW

- INTENT OF DRAWINGS:**
- Typical Details and General Notes on these drawings apply to all parts of the project except where specifically detailed or noted otherwise.
  - Resolve any conflicts on the drawings with the Architects and Structural Engineer before proceeding with construction. Dimensions take precedence over scale of drawings. However, any significant conflicts should be resolved as noted above.
  - These drawings represent the finished structure but do not indicate the means or methods or sequences of construction. The contractor is responsible for all temporary bracing, shoring and contractor is responsible for determining and enforcing all construction load limits on the structure.

- CONCRETE:**
- All structural concrete unless otherwise noted shall have a density of 150 pcf aggregates shall conform to ASTM C33 with proven shrinkage characteristics of less than 0.05%.
  - All structural light weight concrete shall have a density of 115 pcf Maximum and 100 pcf minimum. Aggregates shall conform to ASTM C330.
  - All concrete shall develop minimum compressive strengths at the end of 28 days as follows:

	STRENGTH	MAX W/C	MAX AGGREGATE	MIN SACKS
SLAB, WALL, & FOOTING	3000 PSI	0.50	1"	5.25
NON-STRUCTURAL	3000 PSI	-	-	-
-	-	-	-	-

- All cement shall conform to ASTM C150 type II.
- Concrete mix designs shall be prepared by an independent laboratory and reviewed by the structural engineer.
- Admixtures shall comply with ASTM C494 and be of a type that increases the workability of the concrete. But shall not be considered to reduce the specified minimum cement content (calcium chloride shall not be used).
- Placement of concrete shall be in conformance with the ACI 301.
- Control joints shall be located formed as shown on the drawings. Slab control joints shall be placed at points of low stress as well as located to minimize effects of shrinkage. Key and dowel slab construction joints as shown on the plans. All construction joints shall be cleaned thoroughly and all laitance shall be removed from the surface. All vertical joints shall be thoroughly wetted and slushed with a coat of neat cement or bonding agent immediately before pouring new concrete.
- Set floor screeds to required elevations during concrete pouring to compensate for form settlement.
- Grout: pre-manufactured mix with minimum compressive strength at the end of 28 days of 5000 psi with minimum water consistent with placing requirements.

- TESTING & INSPECTION:**
- Test and inspection shall be provided by a qualified testing agency as required below and shall conform to the requirements of the 2013 CBC sections 1701 and 1704.

- TESTS:**
- |  |   |
|--|---|
| <input type="checkbox"/> Fill compaction     | <input type="checkbox"/> Structural steel                     |
| <input type="checkbox"/> Reinforcing steel   | <input checked="" type="checkbox"/> Epoxy & expansion anchors |
| <input checked="" type="checkbox"/> Concrete | <input type="checkbox"/> Masonry                              |
|  | <input type="checkbox"/> Grout & mortar                       |
- CONTINUOUS INSPECTIONS:**
- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Epoxy & expansion anchors   | <input type="checkbox"/> Special grading, excavation & filling        |
| <input type="checkbox"/> Shop welding penetration groove welds, fillet welds > 3/16", & rebar                 | <input type="checkbox"/> Pile/pier installation                       |
| <input type="checkbox"/> Field welding penetration groove welds, fillet welds > 3/16", & rebar                | <input checked="" type="checkbox"/> Reinforcement placement           |
| <input type="checkbox"/> High strength bolting, bolts pretensioned w/ turn of nut or calibrated wrench method | <input checked="" type="checkbox"/> Concrete placement                |
|   | <input type="checkbox"/> Shop welding UNO                             |
|   | <input type="checkbox"/> Field welding UNO                            |
|   | <input type="checkbox"/> High strength bolting UNO                    |
|   | <input type="checkbox"/> Masonry placement & grouting                 |
|   | <input type="checkbox"/> Shear stud installation                      |
|   | <input type="checkbox"/> Shotcrete                                    |
|   | <input checked="" type="checkbox"/> Anchor bolt size & placement      |
|   | <input checked="" type="checkbox"/> Roof, floor, & wall shtg nailing  |
|   | <input checked="" type="checkbox"/> Straps & framing connectors       |
|   | <input checked="" type="checkbox"/> Top plate & ledger splice nailing |
- PERIODIC INSPECTIONS:**

# BID DRAWINGS



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Rev	Date	By	Description

ISSUED FOR BIDS	Designed JDA
ISSUED FOR CONSTRUCTION	Drawn DGG
	Checked JDA
	Job No. 6NAP010100

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ASG Project No. 13046

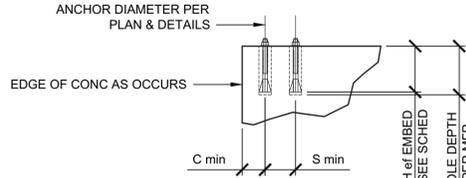
NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

STRUCTURAL

NOTES

Scale	AS SHOWN
Drawing No.	S0.1
Sheet No.	49 of 70

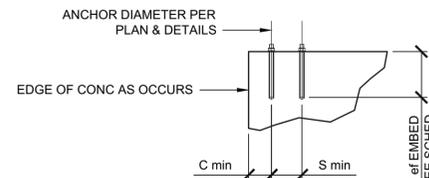
EXPANSION ANCHORS IN 2,500 PSI MIN CONCRETE						
ANCHOR TYPE	ANCHOR DIAMETER	MINIMUM EFFECTIVE EMBED	MIN EDGE DISTANCE	MIN SPACING	MIN CONC DEPTH	INSTALL TORQUE FT-LB
SIMPSON STRONG BOLT	1/2"	3 3/4"	4"	4"	6"	50
	3/8"	4 1/2"	5"	6 1/4"	7 1/2"	85
	5/16"	5"	6"	6 1/4"	8 1/4"	180
HILTI KB TZ CARBON	1/2"	2"	3"	4 1/4"	6"	25
	3/4"	3 1/4"	3 1/2"	4 1/4"	6"	40
	5/8"	4"	3 3/4"	4 1/2"	6"	60
	3/4"	4 3/4"	6"	6 1/2"	8"	110



- NOTES:**
- Install drilled expansion anchors per manufacturer's information and ICC Report instructions. Special inspection is required per CBC and the requirements of the ICC reports.
  - Acceptable expansion anchors are: Simpson Strong-Bolt, ICC ESR-1771; Hilti Kwik Bolt KB TZ Carbon, ICC ESR-1917 or approved equal unless specifically noted otherwise on drawings.
  - For Hilti KB TZ Stainless Steel expansion anchors see ICC ESR-1917 for minimum edge distance and minimum spacing values.
  - Contractor to verify minimum edge distances, spacing and thickness are in accordance with schedule prior to installing anchor. Values are absolute minimums for installation. Capacity reduction may be required per CBC and ICC reports.
  - When installing drilled-in anchors in existing reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. Maintain a reasonable clearance between reinforcement and the drilled-in anchor.
  - The special inspector must be on the jobsite continuously during anchor installation to verify anchor type, anchor dimensions, hole cleanliness, embedment depth, concrete type, concrete compressive strength, drill bit diameter, hole depth, edge distance(s), anchor spacing(s), concrete thickness, and tightening torque.

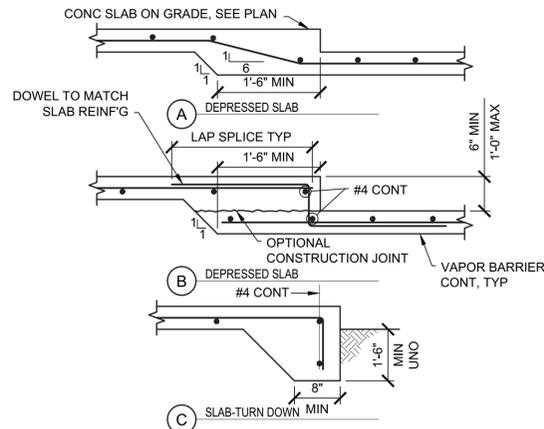
**13 EXPANSION ANCHOR IN CONCRETE**  
30-00-14

ADHESIVE ANCHORS IN 2,500 PSI MIN CONCRETE						
ANCHOR TYPE	ANCHOR	MIN EMBED UNO	MIN EDGE DISTANCE	MIN SPACING	MIN CONC DEPTH	INSTALL TORQUE FT-LB
SIMPSON SET-XP	1/2" Ø #4	4"	1 3/4"	3"	6 1/2"	50
	3/8" Ø #5	5"	1 3/4"	3"	8 1/4"	85
	5/16" Ø #6	6"	1 3/4"	3"	9 3/4"	180
	1/4" Ø #7	7"	1 3/4"	3"	11 1/2"	25
	1" Ø #8	8"	1 3/4"	3"	13"	40
HILTI HIT-RE500-SD	1/2" Ø #4	4"	2 1/2"	2 1/2"	5 1/4"	25
	3/8" Ø #5	5"	3 3/4"	3 3/4"	6 1/4"	40
	5/16" Ø #6	6"	3 3/4"	3 3/4"	7 1/2"	60
	1/4" Ø #7	7"	4 3/4"	4 3/4"	8 3/4"	110
	1" Ø #8	8"	5"	5"	10"	180

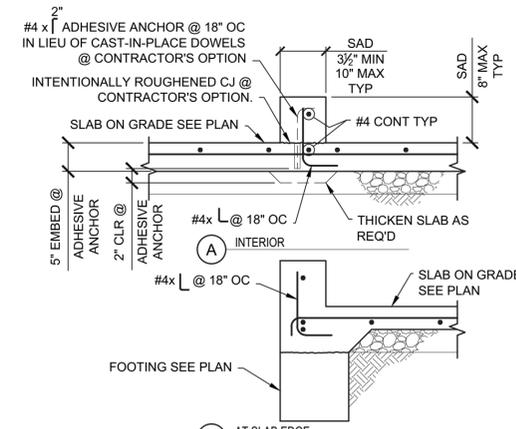


- NOTES:**
- Install adhesive anchors per manufacturer's information and ICC Report. Special inspection is required per CBC and the requirements of the ICC reports.
  - Acceptable adhesives are: Simpson SET-XP, ICC No. ESR-2508; Hilti HIT RE500-SD, ICC No. ESR-2322. An approved equal may be substituted unless specifically noted otherwise on drawings.
  - Threaded rods to be A36 or A307 Grade C threaded rod. Rebar to be A615.
  - Contractor to verify minimum edge distances, spacing and thickness are in accordance with schedule prior to installing anchor. Values are absolute minimums for installation. Capacity reduction may be required per CBC and ICC reports.
  - When drilling holes in existing reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. Maintain a reasonable clearance between reinforcement and the drilled-in anchor. CORE DRILLED HOLES NOT PERMITTED.
  - The special inspector must be on the jobsite continuously during anchor installation to verify anchor type, anchor dimensions, hole cleanliness, embedment depth, concrete type, concrete compressive strength, drill bit diameter, hole depth, edge distance(s), anchor spacing(s), concrete thickness, and adhesive injection.

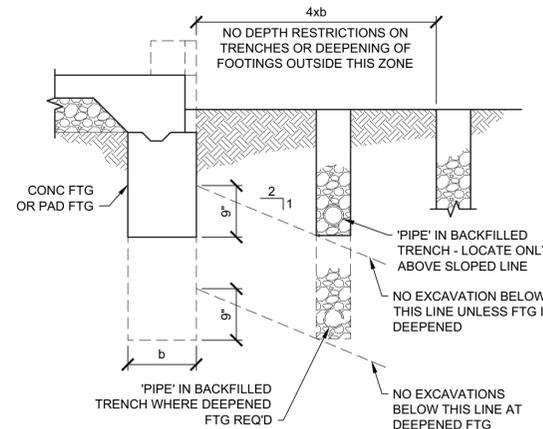
**14 ADHESIVE ANCHOR IN CONCRETE**  
30-00-16



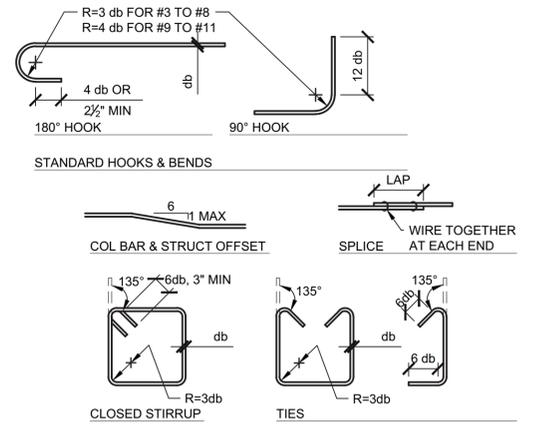
**10 DEPRESSED SOG & SLAB EDGE**  
30-00-10



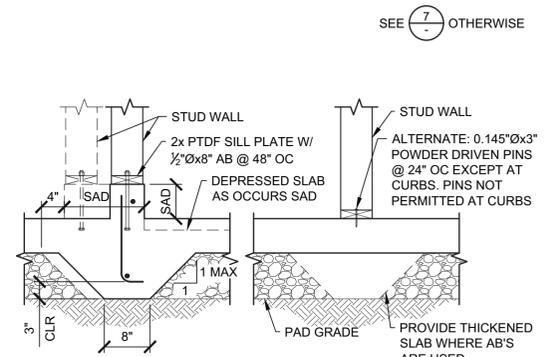
**7 CURB**  
30-00-07



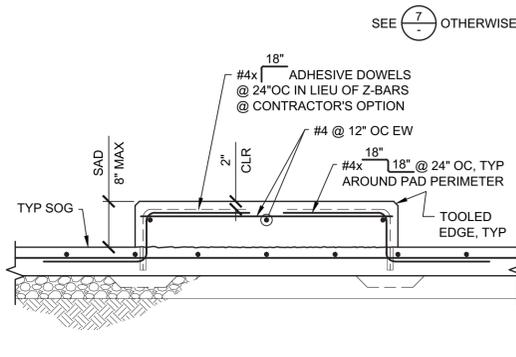
**4 TRENCHING ADJACENT TO FOOTING**  
30-00-04



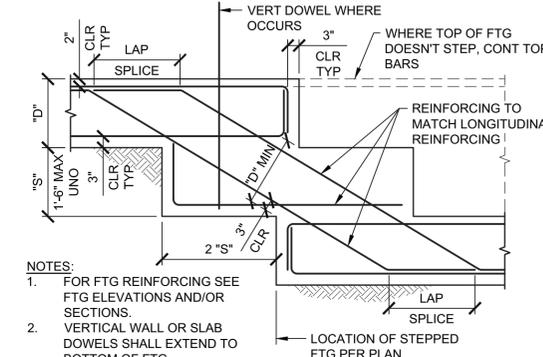
**1 REINFORCING BENDS**  
30-00-01



**11 NON-BEARING STUD WALL AT SLAB**  
30-00-11



**8 HOUSEKEEPING PAD**  
30-00-08



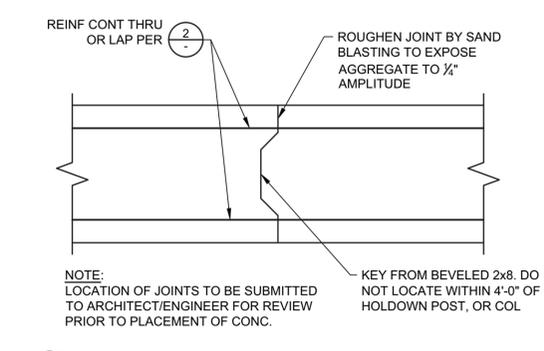
**5 STEPPED FOOTING**  
30-00-05

MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 3000 PSI OR GREATER					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	18"	#6	46"	#9	86"
#4	24"	#7	56"	#10	102"
#5	34"	#8	70"	#11	120"

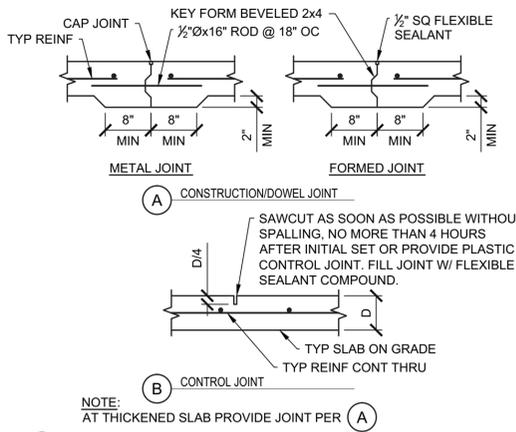
**NOTES:**

- LAP LENGTH BASED ON CLASS B TOP BAR.
- MINIMUM BAR SPACING SHALL BE THE GREATER OF 4x BAR DIAMETER OR 4".
- STAGGER SPLICES WHERE POSSIBLE.
- ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN A STANDARD 90° OR 180° HOOK UNLESS DETAILED OTHERWISE.
- INCREASE LAP LENGTH 30% FOR LIGHT-WEIGHT CONCRETE.

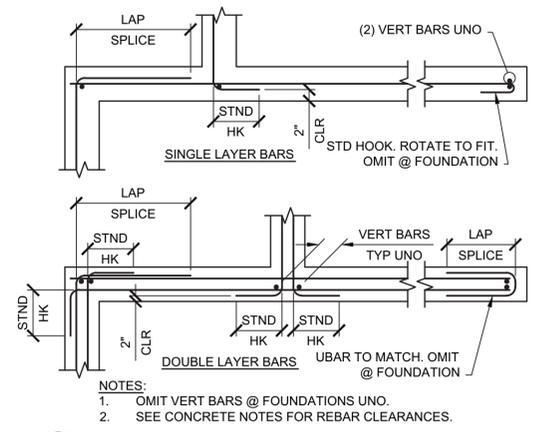
**2 REINFORCING LAPS**  
30-00-02



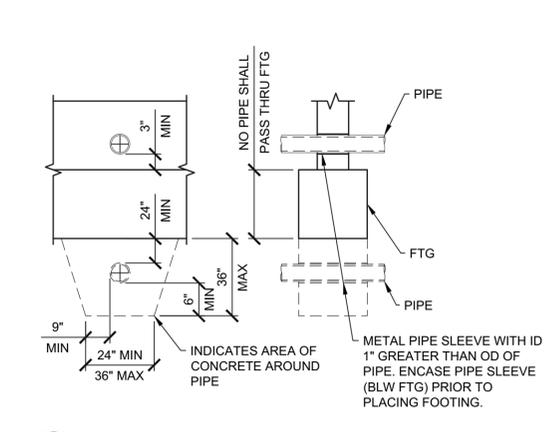
**12 FOOTING CONSTRUCTION JOINT**  
30-00-18



**9 SLAB ON GRADE JOINTS**  
30-00-09



**6 FOUNDATION & WALL REINFORCING**  
30-00-06



**3 PIPE PERPENDICULAR TO FOOTING**  
30-00-03

**BID DRAWINGS**



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Rev	Date	By	Description

ISSUED FOR BIDS  
ISSUED FOR CONSTRUCTION

Designed: JDA  
Drawn: DGG  
Checked: JDA  
Job No.: 8NAP010100

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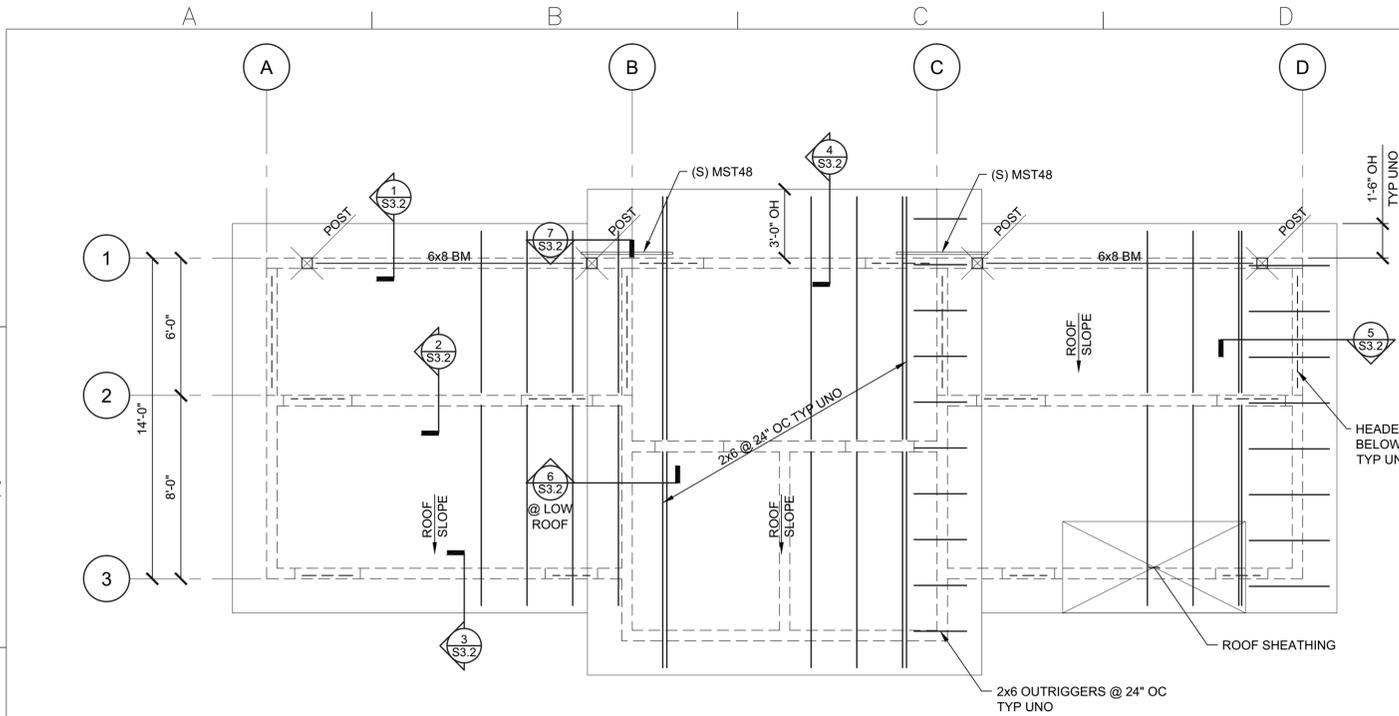
**Anderson Structural Group**  
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ASG Project No. 13046

NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
STRUCTURAL  
TYPICAL CONCRETE DETAILS

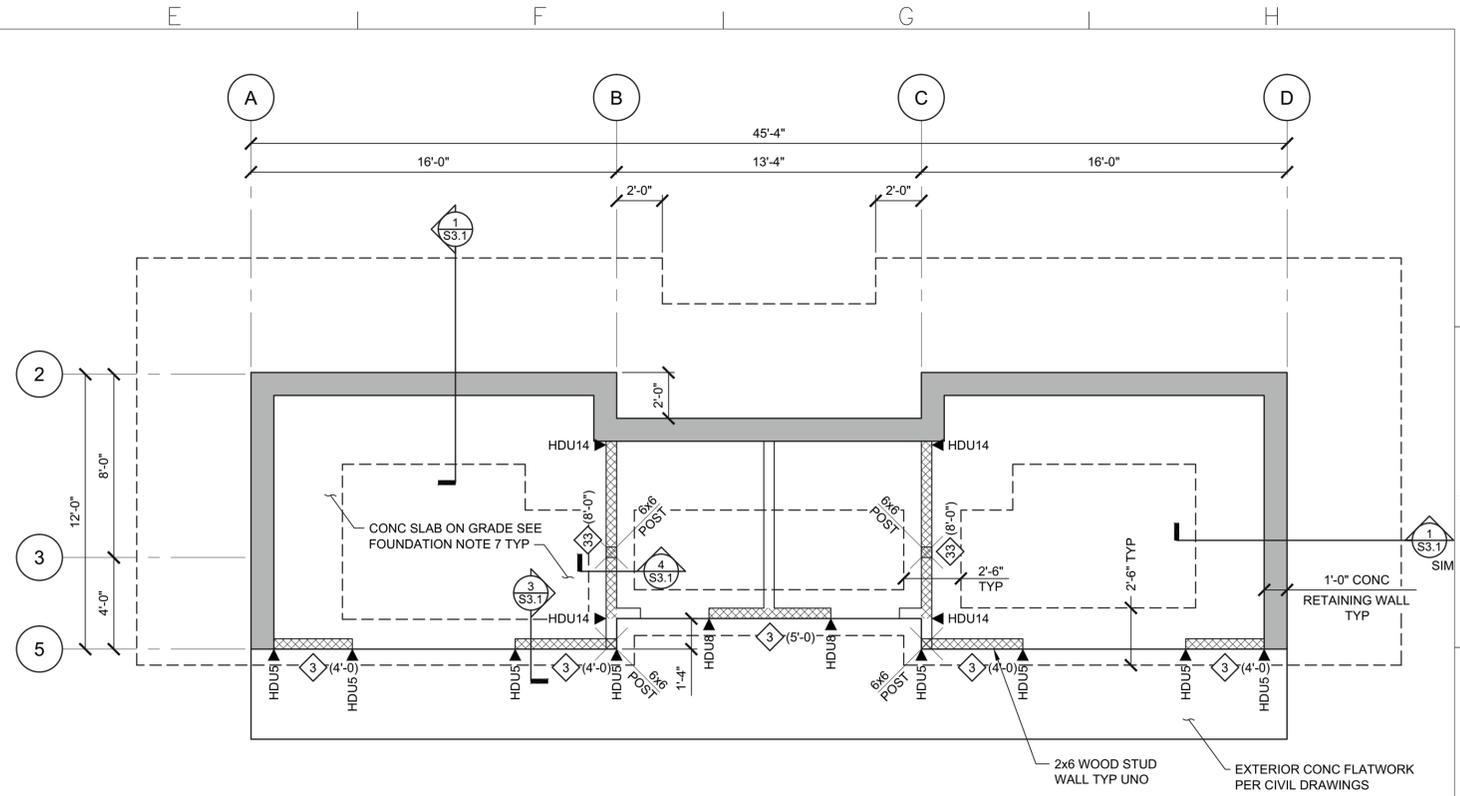
Scale: AS SHOWN  
Drawing No.: S1.1  
Sheet No.: 50 of 70

DGG - 2013 Projects\13026 Camp Berryessa Improvements\Drawings\Struct\14-0702 Bid CAD\13046 S1.1.dwg





**ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"

SHEAR WALL SCHEDULE					
MARK	SHEATHING	NAILING (EN)	SILL/SHEAR TRANSFER NAILING	SHEAR TRANSFER CLIP	ANCHOR BOLTING
6	1 1/2" SHTG	10d @ 6" OC	16d @ 6" OC	(S) A35 @ 24" OC	3/4" @ 48" OC
4	1 1/2" SHTG	10d @ 4" OC *	16d @ 4" OC	(S) A35 @ 16" OC	3/4" @ 32" OC
3	1 1/2" STRUCT 1	10d @ 3" OC *	(2) ROWS 16d @ 6" OC	(S) A35 @ 12" OC	3/4" @ 24" OC
2	1 1/2" STRUCT 1	10d @ 2" OC *	(2) ROWS 16d @ 4" OC	(S) A35 @ 8" OC	3/4" @ 16" OC
44**	1 1/2" STRUCT 1 BOTH SIDES	10d @ 4" OC *	(2) ROWS 16d @ 4" OC	(S) A35 @ 8" OC	3/4" @ 16" OC
33**	1 1/2" STRUCT 1 BOTH SIDES	10d @ 3" OC *	(2) ROWS 16d @ 3" OC	(S) A35 @ 6" OC	3/4" @ 8" OC

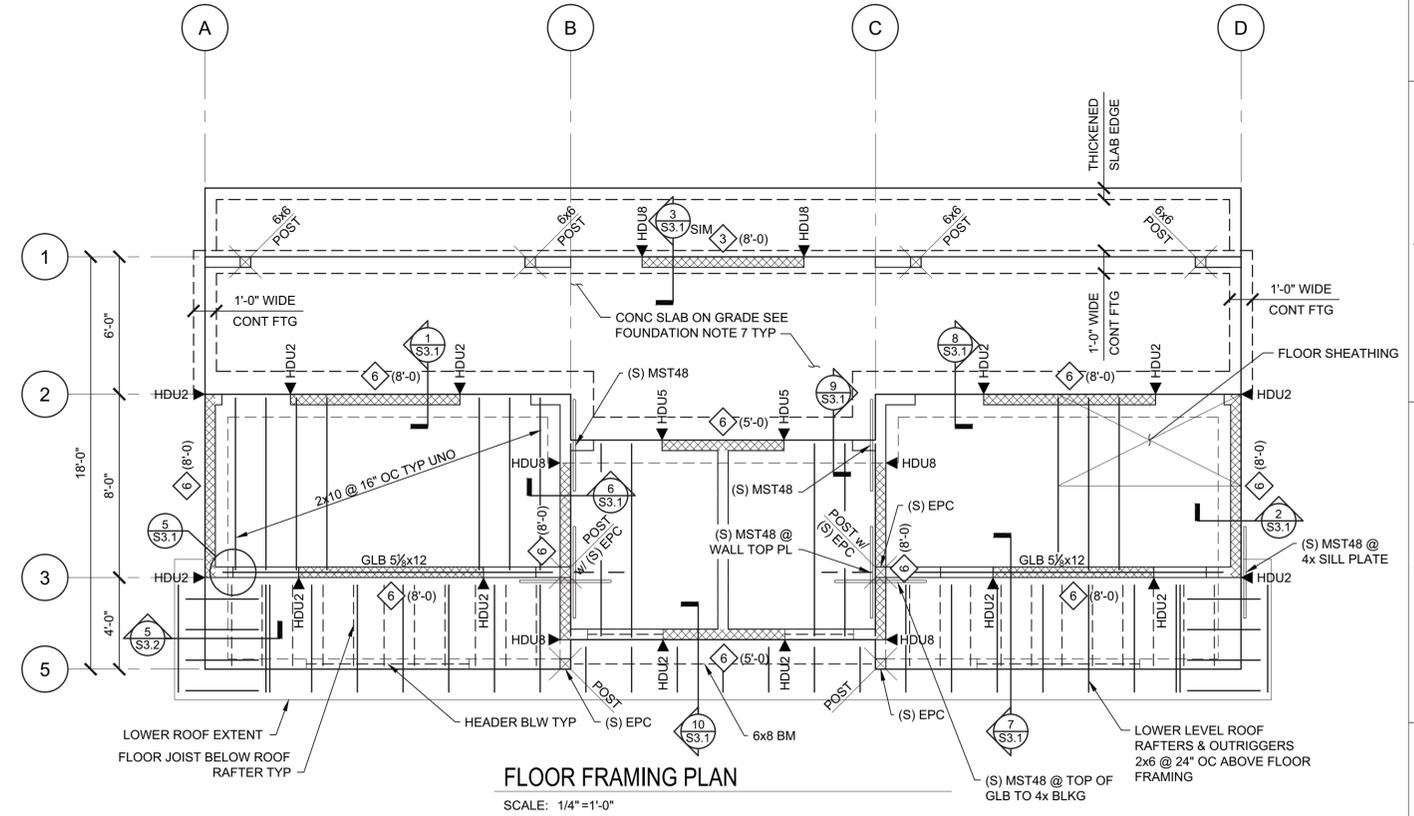
- All exterior walls to be shear wall Type 6 UNO on plans.
- Shear wall lengths, where noted, are minimum. Where length not indicated, Shear Wall to be full length of wall.
- Edge nail wall sheathing to studs or posts with holdowns.
- Wall sheathing to be 15/32" APA rated Sheathing (32/16) Exp 1 with 10d @ 12" OC field UNO. See wood note #1 on S0.1.
- Block all unsupported edges with 2x material UNO. Block edges with 3x material where nailing is 4" OC or less.
- All nails to be common wire. Stagger nails where 2 rows are required.
- Use 20d sinker nails in lieu of 16d nails at 3x sill plates.
- Portions of interior wall surfaces adjacent to specified shear walls shall be sheathed for full length per Shear Wall Type 6 or with gypsum board of same thickness to provide an even wall surface for finish materials.
- Anchor bolts to have 0.229" thick x 3" square plate washer at foundation sill plates. The edge of the plate washer shall extend to within 1/2" of the sheathed edge of the sill plate. A diagonal slot is permitted on the plate washer. The slot shall be 3/16" greater than the bolt diameter and no more than 1 3/4" in length. A standard cut washer shall be used between the plate and the nut.
- No openings are allowed in Shear Walls unless shown on the Structural plans. Coordinate any openings not shown with the Structural Engineer.
- Nails used at pressure treated sill plates shall be hot dipped galvanized.
- \*\*12. Framing at adjoining panel edges shall be 3x where nailing is 10d @ 3" OC or less.
- \*\*13. Offset panel joint ea side of wall to fall on different framing members.

LEGEND	
	CONC WALL
	SHEAR WALL ABOVE
	WOOD STUD WALL
	WALL BELOW
	6 (4'-0") SHEAR WALL TYPE & MINIMUM LENGTH
	HDU2 SIMPSON HOLD-DOWNS, SEE (S) S1.2

- FOUNDATION PLAN NOTES:**
- Refer to sheets S0.1, S1.1 and S1.2 for typical notes and details.
  - Site preparation and building pad construction shall be in accordance with foundation notes on sheet S0.1.
  - Structural wall studs, including bearing walls and exterior walls, shall be 2x6 @ 16" oc, UNO.
  - See Shear Wall Schedule.
  - Verify all slab dimensions, including depressions, curbs and pads with architectural and mechanical drawings. Notify Architect and Structural Engineer of any discrepancies prior to construction.
  - Elevations shown on structural drawings are relative the top of slab-on-grade elevation of 0'-0". Coordinate all elevations with architectural and civil drawings. Notify Architect and Structural Engineer of any discrepancies prior to construction.
  - Concrete slab on grade shall be 6" thick w/ #4 @ 18" OC EA way @ mid-depth of slab. Provide a 4" layer of crushed rock below slab.

- FLOOR FRAMING PLAN NOTES:**
- Refer to sheets S0.1 and S1.2 for typical notes and details.
  - Floor to have 1 1/2" light wt concrete topping.
  - Floor sheathing to be 3/4" T&G APA Rated Sheathing (48/24) Exp 1 glue and nail with 10d @ 6" o.c. edges & 10d @ 10" o.c. field UNO. Blocking at sheathing edges are not required unless noted on plan. Panels shall be 24" wide minimum.
  - All GLB's to have 2000 ft radius camber UNO.
  - Structural wall studs, including bearing walls and exterior walls, shall be 2x6 @ 16" oc, UNO.
  - Shear walls noted on plan are for level above. See Shear Wall Schedule.
  - Verify all opening dimensions with architectural and mechanical drawings. Mechanical unit locations and weights to match mechanical drawings. Notify Architect and Structural Engineer otherwise.

- ROOF FRAMING PLAN NOTES:**
- Refer to sheets S0.1 and S1.2 for typical notes and details.
  - Roof sheathing shall be 15/32" APA Rated Sheathing (32/16) Exp 1 nail with 10d @ 6" OC edges & 10d @ 12" o.c. field UNO. Blocking at sheathing edges are not required unless noted on plan. Provide pyclicps mid-bay along unsupported edges. Panels shall be 24" wide minimum.
  - Structural wall studs, including bearing walls and exterior walls, shall be 2x6 @ 16" oc, UNO.
  - Verify all opening dimensions with architectural and mechanical drawings. Mechanical unit locations and weights to match mechanical drawings. Notify Architect and Structural Engineer otherwise.
  - Wall top plates shall be one piece wherever possible.



**FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0"

**BID DRAWINGS**



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Phone: (916) 514-9109  
ASG Project No. 13046

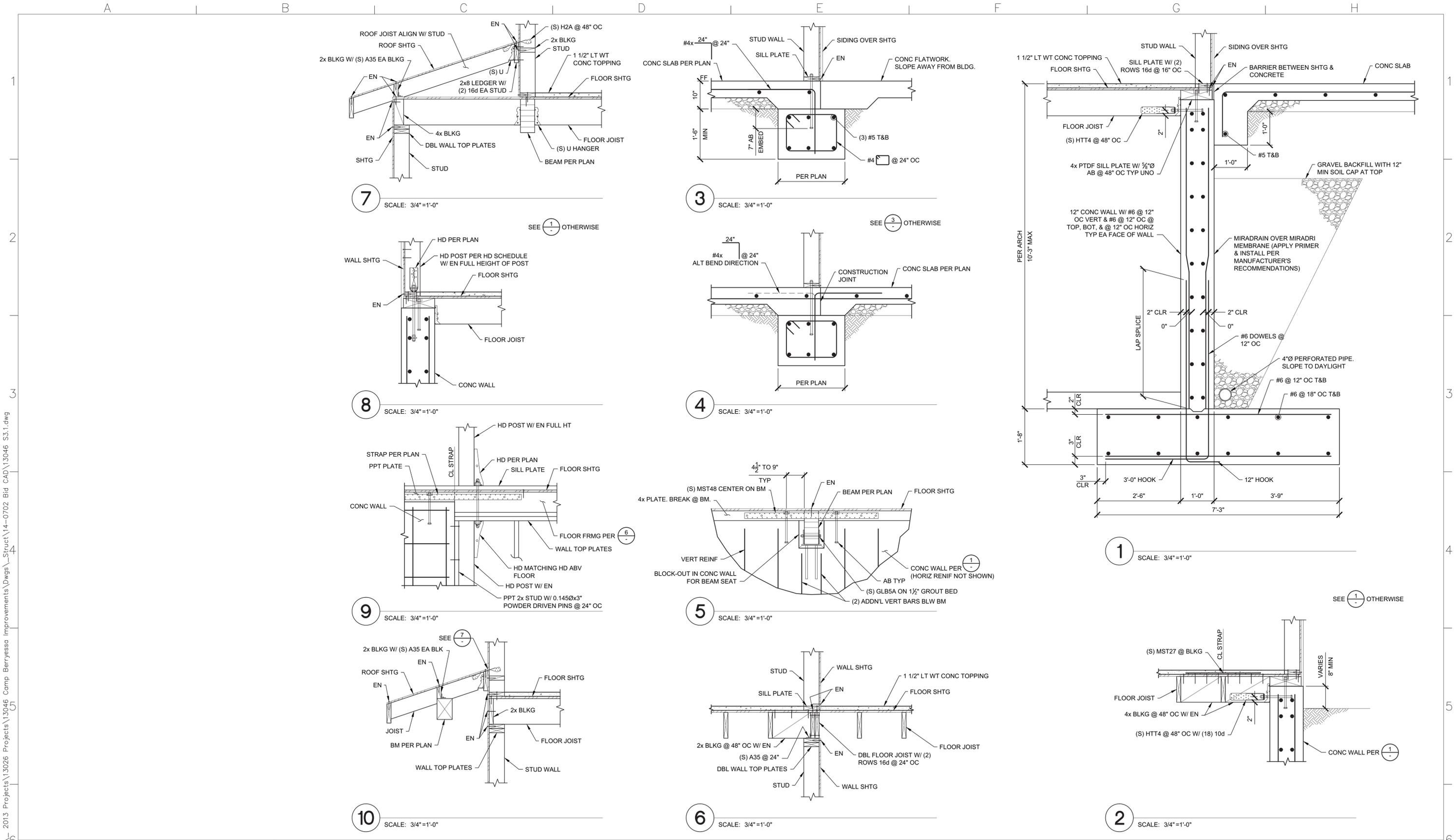
NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS  
STRUCTURAL  
FOUNDATION PLAN, FLOOR FRAMING PLAN, NOTES, & SHEAR WALL SCHEDULE

Scale: AS SHOWN  
Drawing No.: S2.1  
Sheet No.: 52 of 70

D:\2013 Projects\13046 Camp Berryessa Improvements\Drawings\14-0702 Bid CAD\13046 S2.1.dwg

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DGG



**BID DRAWINGS**



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ISSUED FOR BIDS	Designed	JDA	
ISSUED FOR CONSTRUCTION	Drawn	DGG	
	Checked	JDA	
	Job No.	6NAP010100	
Rev	Date	By	Description

These plans are preliminary drafts and are not to be used for anything except review. They are to be discarded after review. They are prepared under the responsible charge of Ernest L. Leporini, California license number C34,994.

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 ASG Project No. 13046

NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 STRUCTURAL  
 DETAILS

Scale	AS SHOWN
Drawing No.	S3.1
Sheet No.	53 of 70

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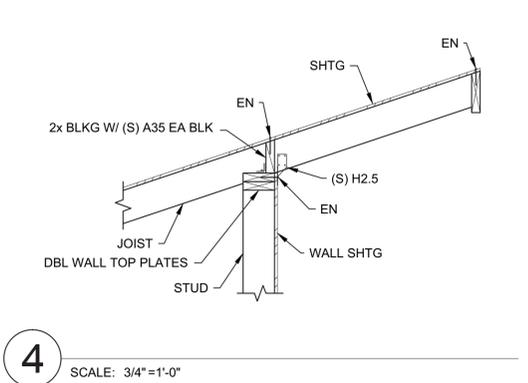
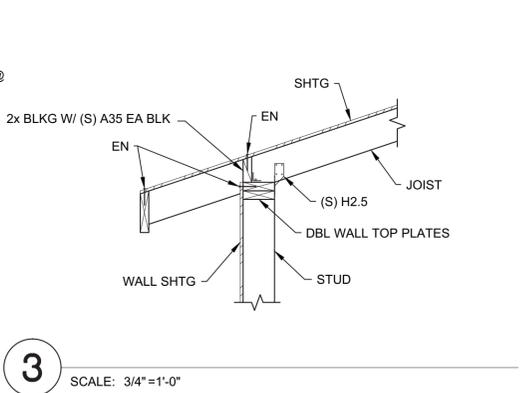
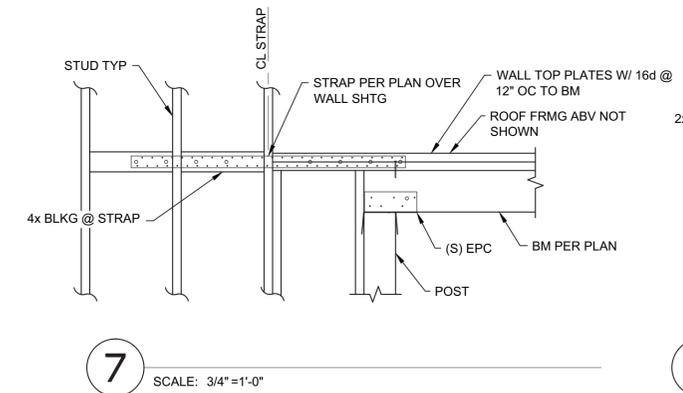
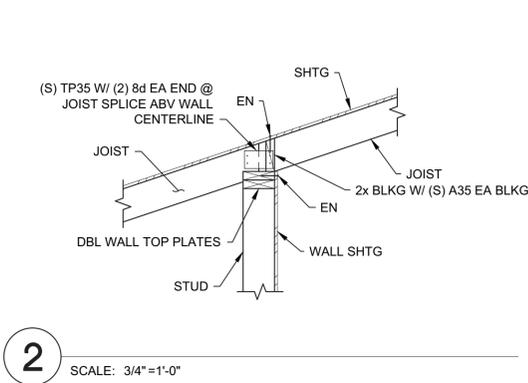
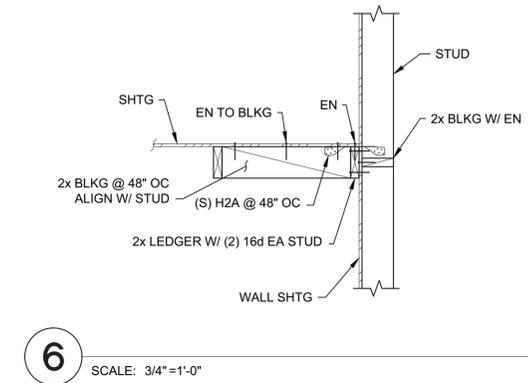
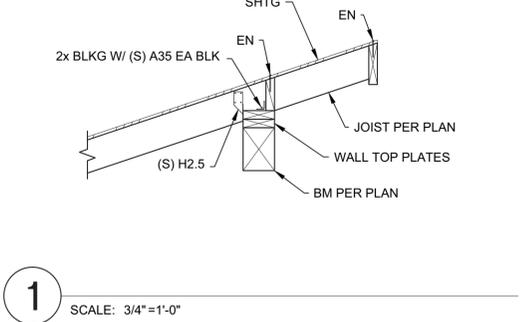
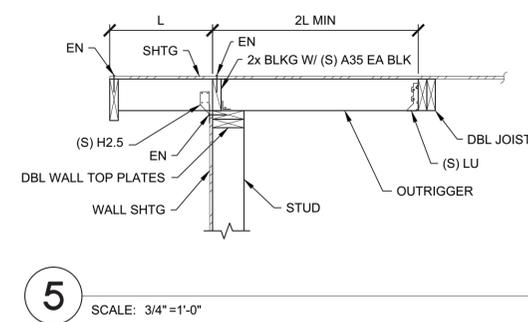
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NAPA COUNTY REGIONAL PARK  
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 CAMP BERRYESSA IMPROVEMENTS  
 STRUCTURAL  
 DETAILS

Scale	AS SHOWN
Drawing No.	S3.2
Sheet No.	54 of 70



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>SWITCHES - PROCESS</b>		<b>DEVICES - RELAY</b>		<b>COMPONENTS</b>		<b>WIRING - CONNECTIONS</b>	
	FLOW SWITCH - CLOSSES UPON INCREASING FLOW		CONTROL RELAY CR1 WITH NORMALLY OPEN CONTACT ON LINE 28 & NORMALLY CLOSED CONTACT ON LINE 111		RESISTOR		PANEL OR EQUIPMENT WIRING
	FLOW SWITCH - OPENS UPON INCREASING FLOW		TIME DELAY RELAY TR2 - ADJUSTABLE TIME DELAY RANGE & SETTING AS SHOWN		POTENTIOMETER		FIELD WIRING
	LEVEL SWITCH - CLOSSES UPON INCREASING LEVEL		TIME DELAY ON ENERGIZATION		CAPACITOR, FIXED		CONDUCTORS - NOT CONNECTED
	LEVEL SWITCH - OPENS UPON INCREASING LEVEL		TIME DELAY ON DE-ENERGIZATION		CAPACITOR, ADJUSTABLE		CONDUCTORS - CONNECTED
	PRESSURE SWITCH - CLOSSES UPON INCREASING PRESSURE (INCREASING VACUUM)		CONTACTOR OR STARTER M1		DIODE		GROUND
	PRESSURE SWITCH - OPENS UPON INCREASING PRESSURE (INCREASING VACUUM)		SOLENOID		DIODE, ZENER		CHASSIS OR FRAME GROUND
	TEMPERATURE SWITCH - CLOSSES UPON INCREASING TEMPERATURE		NORMALLY OPEN, RELAY CONTACT - ACTUATED BY RELAY CR1 COIL LOCATED ON LINE 105		VARIATOR TRANSIENT VOLTAGE SUPPRESSOR		PLUG AND RECEPTACLE
	TEMPERATURE SWITCH - OPENS UPON INCREASING TEMPERATURE		NORMALLY CLOSED, RELAY CONTACT - ACTUATED BY RELAY CR1		VOLTAGE SURGE SUPPRESSOR, AC		INCOMING LINE
	LIMIT SWITCH - CLOSSES AT SET LIMIT		NORMALLY OPEN, TIME DELAY RELAY CONTACT - CONTACT CLOSSES AFTER TR2 IS ENERGIZED		LIGHT EMITTING DIODE		TERMINAL BLOCKS
	LIMIT SWITCH - OPENS AT SET LIMIT		NORMALLY CLOSED, TIME DELAY RELAY CONTACT - CONTACT OPENS AFTER TR2 IS ENERGIZED		TRANSISTOR		TERMINALS
	PROXIMITY SWITCH - CLOSSES UPON DECREASING DISTANCE		NORMALLY OPEN, TIME DELAY RELAY CONTACT - CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		RESISTANCE TEMPERATURE DETECTOR (RTD)		SHIELDED CABLE
	PROXIMITY SWITCH - OPENS UPON DECREASING DISTANCE		NORMALLY CLOSED, TIME DELAY RELAY CONTACT - CONTACT CLOSSES AFTER TR2 IS DE-ENERGIZED		THERMOCOUPLE (T/C)		
	TORQUE SWITCH - CLOSSES UPON INCREASING TORQUE		CONTACT OPENS AND CLOSSES IN A TIMED REPEAT CYCLE		THERMISTOR		
	TORQUE SWITCH - OPENS UPON INCREASING TORQUE						

SYMBOL	DESCRIPTION
	AUDIBLE ALARM
	TACHOMETER GENERATOR
	BATTERY
	HEATER
	3 PHASE HEATER
	3 PHASE MOTOR # = MOTOR HP
	SINGLE PHASE MOTOR
	TRANSFORMER

**DEVICES - MISCELLANEOUS**

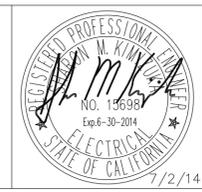
SYMBOL	DESCRIPTION
	CONDUIT, EXPOSED
	CONDUIT, IN SLAB OR BELOW GRADE
	CONDUIT STUBBED OUT & CAPPED
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT ENDS
	CONDUIT CHANGE IN ELEVATION
	BARE COPPER GROUND WIRE
	GROUND CONNECTION BOLTED TYPE
	GROUND CONNECTION EXOTHERMIC WELD TYPE
	DISCONNECT SWITCH
	FIELD CONTROL STATION WITH JUNCTION BOX
	FIELD CONTROL STATION WITH #AMP DISCONNECT SWITCH
	FIELD MOUNTED DEVICE
	SPECIAL RECEPTACLE
	JUNCTION BOX
	THERMOSTAT
	LIGHTING, FANS, HEATERS
	# - CIRCUIT BREAKER NUMBER A - FIXTURE SCHEDULE REF. o - CONTROL SWITCH REFERENCE
	DUPLEX RECEPTACLE # - CIRCUIT BREAKER NUMBER
	TOGGLE SWITCH # - CIRCUIT BREAKER NUMBER SUBSCRIPT - CIRCUIT CONTROLLED SUPERScript - BLANK = 1 POLE 2 = 2 POLE 3 = 3 WAY
	CONDUIT #

MISCELLANEOUS ELECTRICAL & INSTRUMENTATION ABBREVIATIONS			
&	AND	MUX	MULTIPLEXER
@	AT	MV	MEDIUM VOLTAGE
A	AMBER, AMPERES	N	NEUTRAL
AC	ALTERNATING CURRENT	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AI	ANALOG INPUT	NL	NIGHT LIGHT
AIC	AMP INTERRUPTING CAPACITY SYMMETRICAL	NO	NORMALLY OPEN
ALT	ALTERNATOR	NP	NAMEPLATE
AM	AMMETER	NTS	NOT TO SCALE
AO	ANALOG OUTPUT	(N)	NEW
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
B	BLUE	OL	OVERLOAD
BC	BARE COPPER	ORP	OXIDATION REDUCTION POTENTIAL
BFC	BELOW FINISHED CEILING	P	PHASE, POLE
BOD	BIOCHEMICAL OXYGEN DEMAND	PB	PUSHBUTTON
C	CONDUIT	PBX	PULL BOX
CAP	CAPACITOR	PC	PERSONAL COMPUTER
CB	CIRCUIT BREAKER	PE	PHOTOCELL
CKT	CIRCUIT	PF	POWER FAIL
COAX	COAXIAL CABLE	PFR	POWER (PHASE) FAIL RELAY
COMM	COMMUNICATION PORT	PH	HYDROGEN ION CONCENTRATION
CPT	CONTROL POWER TRANSFORMER	PI	PULSE INPUT
CR	CONTROL RELAY	PLC	PROGRAMMABLE LOGIC CONTROLLER
CT	CURRENT TRANSFORMER	PMP	PUMP
CTQ	CONSTANT TORQUE	PNL	PANEL
CTR	CYCLE COUNT	POT	POTENTIOMETER
CU	COPPER	PR	PAIR, TWISTED & SHIELDED CABLE
DC	DIRECT CURRENT	PRESS	PRESSURE
DET	DETAIL	PRI	PRIMARY
DI	DIGITAL INPUT	PROVIDE	FURNISH, INSTALL & CONNECT
DIAG	DIAGRAM	PRR	POWER RELAY
DISC	DISCONNECT	PS	PRESSURE SWITCH
DO	DIGITAL OUTPUT	PT	POTENTIAL TRANSFORMER
DPDT	DOUBLE POLE DOUBLE THROW	PTT	PUSH TO TEST
DWG	DRAWING	PV	PROCESS VARIABLE
ELEV	ELEVATION	PVC	POLY VINYL CHLORIDE
EMT	ELECTRICAL METALLIC TUBING	PWM	PULSE WIDTH MODULATION
ETM	ELAPSED TIME METER	PWR	POWER
(E)	EXISTING	R	RED
F	FRAME	RCT	REPEAT CYCLE TIMER
FC	FAIL CLOSED	REF	REFERENCE
FCS	FIELD CONTROL STATION	RIO	REMOTE I/O
FLA	FULL LOAD AMPS	RMS	ROOT MEAN SQUARED
FLP	FAIL LAST POSITION	RT	RESET TIMER
FO	FAIL OPEN	RTD	RESISTANCE TEMPERATURE DETECTOR
FLR	FLASHER RELAY	RTM	RUN TIME METER
FLUOR	FLUORESCENT	RTU	REMOTE TELEMETRY UNIT
FLEX	FLEXIBLE, METAL LIQUID TIGHT CONDUIT	RVNR	REDUCED VOLTAGE NON-REVERSING
FS	FLOW SWITCH OR FULL SPEED	(R)	REWIRE, RELOCATE, REVISE, REUSE
FV, FVNR	FULL VOLTAGE NON-REVERSING	S	SWITCH
FVR	FULL VOLTAGE REVERSING	SCH	SCHEDULE
FWD	FORWARD	SEC	SECONDARY
(F)	FUTURE	SECS	SECONDS
G	GREEN	SEL	SELECTOR
GALV	GALVANIZED	SFA	SERVICE FACTOR AMPS
GFI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SET POINT
GND	GROUND	SPEC	SPECIFICATION
GRS	GALVANIZED RIGID STEEL CONDUIT	SR	SENSING RELAY
GRS-PVC	PVC COATED GRS CONDUIT	SS	STAINLESS STEEL
HI	HIGH	SSS	SOLID STATE SOFT STARTER
HID	HIGH INTENSITY DISCHARGE	STT	START
HIM	HUMAN INTERFACE MODULE	STP	STOP
HOA	HAND-OFF-AUTO	SV	SOLENOID VALVE
HP	HORSEPOWER	SW	SWITCH
HPS	HIGH PRESSURE SODIUM	SWBD	SWITCHBOARD
HS	HAND SWITCH	SYMM	SYMMETRICAL
HTR	HEATER	T	TRIP
HZ	HERTZ (CYCLES PER SECOND)	TB	TERMINAL BLOCK
HZD	HAZARDOUS AREA, EXPLOSION PROOF	TC	TIME CLOCK
I	INTERLOCK	TDOD	TIME DELAY ON DE-ENERGIZATION
I/O	INPUT/OUTPUT	TDOE	TIME DELAY ON ENERGIZATION
ICR	INSTRUMENTATION CONTROL RELAY	TEL	TELEMETRY
INCAN	INCANDESCENT	TELCO	TELEPHONE COMPANY
INST	INSTANTANEOUS	TM	THERMAL MAGNETIC
ISC	SHORT CKT INTERRUPTING CURRENT (SYMM)	TEMP	TEMPERATURE
ISR	INTRINSICALLY SAFE RELAY	TOC	TOTAL ORGANIC CARBON
J	JUNCTION BOX	TR	TIME DELAY RELAY
K	KILO, PREFIX	TRIAD	TWISTED & SHIELDED 3 CONDUCTOR
LA	LIGHTNING ARRESTOR	TS	TEMPERATURE SWITCH
LC	LIGHTING CONTACTOR	TSPR	TWISTED & SHIELDED PAIR
LEL	LOWER EXPLOSIVE LIMIT	TYP	TYPICAL
LO	LOW	UG	UNDERGROUND
LOS	LOCK-OUT STOP SWITCH	UON	UNLESS OTHERWISE NOTED
LPU	LINE PROTECTION UNIT	V	VOLTAGE
LR	LATCHING RELAY	VA	VOLT AMPS
LS	LEVEL SWITCH	VAR	VOLT AMP REACTIVE
M	MOTOR CONTACTOR	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	VLV	VALVE
MCC	MOTOR CONTROL CENTER	VM	VOLTMETER
MCM	THOUSAND CIRCULAR MILS	VTQ	VARIABLE TORQUE
MCP	MOTOR CIRCUIT PROTECTOR	W	WHITE, WATTS
MD	MOISTURE DETECTION	WHM	WATT-HOUR METER
MH	MANHOLE	WM	WATTMETER
MHD	METAL HALIDE	WP	WATERPROOF, WEATHER PROOF
MIN	MINIMUM	WS	TORQUE SWITCH
MINS	MINUTES	XFMR	TRANSFORMER
MODEM	MODULATOR/DEMODULATOR	XS	MISCELLANEOUS SWITCH
MOV	MOTOR OPERATED VALVE	Y	YELLOW
MPS	MOTOR PROTECTION SYSTEM	Z	IMPEDANCE
MTR	MOTOR	ZS	LIMIT SWITCH

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# BID DRAWINGS



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	Drawn
	ZKV
	Checked
	XML
	Job No.
	8NAP01000

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NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
 ELECTRICAL SYMBOLS  
 & ABBREVIATIONS

Scale	NONE
Drawing No.	E1
Sheet No.	55 of 70

POWER UTILITY SERVICE DIVISION OF WORK	Electrical Contractor	Utility Company
Primary Conduits		N/A
Primary Conductors		X
Transformer Pad		N/A
Transformer		X
Transformer Connections		X
Transformer Ground Rod	X	
Secondary Conduits	X	
Secondary Conductors		X
Bollards	X	
Meter Enclosure/Base	X	
Utility Meter		X
C/T Enclosure	X	
Current Transformers C/T		X
Meter Room Lock Box	X	

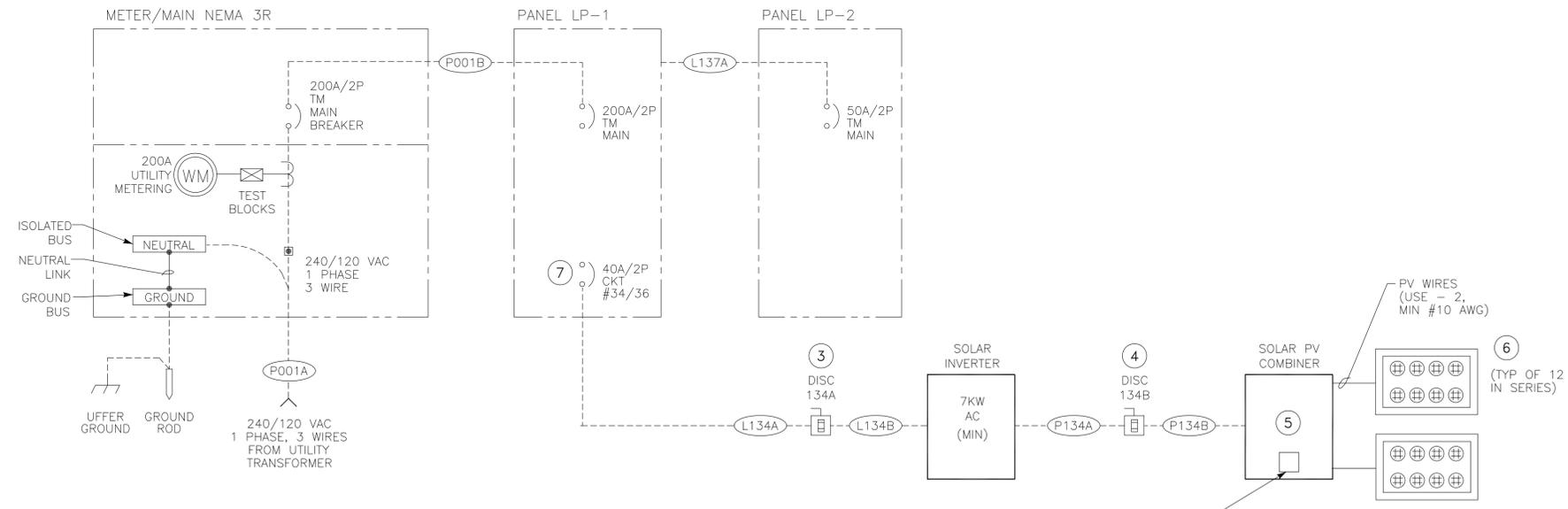
**Power Company Information:**

Contact Name: \_\_\_\_\_  
Power Utility: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

**Notes:**

- All Utility Service installation work shall be done by Contractor per Power Utility Engineered drawings (which supersedes what is shown on Contract Drawings).
- Contractor shall coordinate and schedule all Power Utility inspections and tests in strict compliance with Power Utility requirements.

LOAD CALCULATIONS		(LOADS INCLUDED IN THIS PROJECT)	
HP DESCRIPTION	AMPS	QTY LOAD	LOAD VA
3 PRESSURE PUMP	17	1	4,080
0.5 WELL PUMP	5	1	1,176
MAIN PANEL LP-1 (NOT INCLUDING PUMPS)	46.8		11,221
<b>SUBTOTAL</b>	<b>69</b>		<b>16,477</b>
3 HP Largest motor @ 25% additional	17	0.25	1,767
<b>TOTAL</b>			<b>18,243</b>
/ 240 V, 1 Phase 3 Wire Service Amps =		76 Amps	
	Service Size =	1.25 Multiplier	
	Main Size =	95 Amps	
	% Main Load =	200 Amps	
		47.5%	



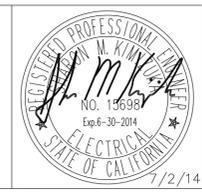
**ONE LINE DIAGRAM ①②**

- NOTES: ① ALL LUGS SHALL BE COPPER SIZE FOR WIRES LISTED IN "CONDUIT & WIRE ROUTING SCHEDULE".
- ② ONE LINE IS REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ADDITIONAL FUSES, CIRCUITS, CONDUIT, WIRE AND COMPONENTS MAY BE REQUIRED FOR A COMPLETE & FUNCTIONAL SYSTEM. COMPLY WITH ALL NEC REQUIREMENTS FOR A UTILITY GRID TIED SOLAR POWER SYSTEM.
- ③ NEMA 12, 60A/2P, 600 VAC RATED DISCONNECT SWITCH AND FUSES SIZED TO PROTECT EQUIPMENT.
- ④ NEMA 3R, 60A, 600 VDC RATED FUSED DISCONNECT SWITCH AND FUSES SIZED TO PROTECT EQUIPMENT.
- ⑤ SIZE FUSES TO PROTECT PHOTOVOLTAIC MODULES.
- ⑥ PHOTOVOLTAIC MODULE SHALL BE MINIMUM 235 WATTS & 24 VDC NOMINAL VOLTAGE.
- ⑦ BACK FEED BREAKER FROM SOLAR INVERTER.

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NAPA COUNTY REGIONAL PARK  
AND OPEN SPACE DISTRICT  
CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
ONE LINE DIAGRAM

Scale	NONE
Drawing No.	E2
Sheet No.	56 of 70

BKR LOAD NO. DESCRIPTION		LOAD VA	LINE AMPS	BKR AMP/ POLE	BKR NO.	PHASE	BKR AMP/ POLE	LINE AMPS	LOAD VA	DESCRIPTION	BKR NO.	
1	LIGHTS - WTP BLDG	192	2	20/1	1	A	2	20/1	6	720	RECEPT - WTP BLDG	2
3	LIGHTS - WTP BLDG OUTSIDE	50	0	20/1	3	B	4	20/1	2	200	RECEPT - CHLORINATOR	4
5	SPARE	0	0	20/1	5	A	6	20/1	2	200	RECEPT - WATER SOFTNER	6
7	EXHAUST FAN	528	4	20/1	7	B	8	20/1	2	180	RECEPT - AMPITHEATER	8
9	SPARE	0	0	20/1	9	A	10	20/1	0	0	SPARE	10
11	SPARE	0	0	20/1	11	B	12	20/1	0	0	SPARE	12
13	SPARE	0	0	20/1	13	A	14	20/1	0	0	SPARE	14
15	SPARE	0	0	20/1	15	B	16	20/1	0	0	SPARE	16
17	SPARE	0	0	15/2	17	A	18	30/2	20	2,400	RV	18
19		0	0	(H)(L)	19	B	20	(L)	20	2,400	CAMP HOST	20
21	WELL PUMP	1,200	10	15/2	21	A	22	20/1	0	0	SPARE	22
23	P111	1,200	10	(L)	23	B	24	20/1	0	0	SPARE	24
25	PW DISTRIBUTION PUMPS	2,040	17	40/2	25	A	26	15/2	5	600	GRAY WATER PUMP	26
27	P121-2	2,040	17	(L)	27	B	28	(L)	5	600	PNL131	28
29	SPARE	0	0	20/2	29	A	30	40/2	0		SPARE	30
31		0	0	(L)	31	B	32	(L)	0			32
33	(F) PANEL LP-3 FEEDER	0	0	50/2	33	A	34	40/2	0		SOLAR INVERTER	34
35		0	0	(L)	35	B	36	(B)(L)	0			36
37	PANEL LP-2 FEEDER	3,512	29	50/2	37	A	38	200/2	0		MAIN	38
39		2,534	21	(L)	39	B	40		0			40

PHASE	A	B
LEFT SIDE AMPS	58	53
LEFT SIDE KVA	6.94	6.35
TOTAL KVA	20.80	
TOTAL AMPS @ 240V, 1P	85.8	
DIVERSITY FACTOR	0.80	
LOAD KVA	16.48	

NEUTRAL

GROUND

PHASE	A	B
RIGHT SIDE AMPS	33	28
RIGHT SIDE KVA	3.92	3.38
LEFT SIDE KVA	6.94	6.35
TOTAL PHASE KVA	10.86	9.73
TOTAL PHASE AMPS	91	81
% OF AVERAGE	105	95

- NOTES: 1. MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210 (4).  
 2. ( G ) INDICATES GFI BREAKER REQUIRED WITH 30 MA SENSITIVITY  
 3. ( H ) INDICATES HACR RATED BREAKER.  
 4. ( L ) PROVIDE PADLOCKING PROVISION IN ORDER TO LOCK BREAKER IN THE OFF POSITION.  
 5. ( B ) BACK FEED BREAKER FROM SOLAR INVERTER.

BKR LOAD NO. DESCRIPTION		LOAD VA	LINE AMPS	BKR AMP/ POLE	BKR NO.	PHASE	BKR AMP/ POLE	LINE AMPS	LOAD VA	DESCRIPTION	BKR NO.	
1	LIGHTS - TOILET FLOOR	292	2	20/1	1	A	2	20/1	9	1,080	RECEPT - TOILET FLOOR	2
3	LIGHTS - BASEMENT FLOOR	242	2	20/1	3	B	4	20/1	6	720	RECEPT - BASEMENT FLOOR	4
5	SPARE	0	0	20/1	5	A	6	20/1	0	0	SPARE	6
7	LIGHTS - TENTS T-C1-4	136	1	20/1	7	B	8	20/1	1	136	LIGHTS - TENTS T-S1-4	8
9	RECEPT - CENTRAL SHELTER	720	6	20/1	9	A	10	20/1	6	720	RECEPT - SOUTH SHELTER	10
11	LIGHTS - CENTRAL SHELTER	300	3	20/1	11	B	12	20/1	3	300	LIGHTS - SOUTH SHELTER	12
13	HOT WATER HEATER	100	1	20/1	13	A	14	20/1	0	0	SPARE	14
15	SHOWER CP	100	1	20/1	15	B	16	20/1	0	0	SPARE	16
17	GREYWATER PUMP PNL132	600	5	15/2	17	A	18	50/2	0	0	MAIN	18
19		600	5		19	B	20		0	0		20

PHASE	A	B
LEFT SIDE AMPS	14	11
LEFT SIDE KVA	1.71	1.38
TOTAL KVA	6.05	
TOTAL AMPS @ 240V, 1P	25.2	
DIVERSITY FACTOR	0.80	
LOAD KVA	4.84	

NEUTRAL

GROUND

PHASE	A	B
RIGHT SIDE AMPS	15	10
RIGHT SIDE KVA	1.80	1.16
LEFT SIDE KVA	1.71	1.38
TOTAL PHASE KVA	3.51	2.53
TOTAL PHASE AMPS	29	21
% OF AVERAGE	116	84

- NOTES: 1. MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210 (4).  
 2. ( G ) INDICATES GFI BREAKER REQUIRED WITH 30 MA SENSITIVITY  
 3. ( H ) INDICATES HACR RATED BREAKER.  
 4. ( L ) PROVIDE PADLOCKING PROVISION IN ORDER TO LOCK BREAKER IN THE OFF POSITION.

CODE LETTER	FIXTURE TYPE	FINISH	FIXTURE LAMPS	WATTS/ FIXTURE	MANUFACTURER OR APPROVED EQUAL	MOUNTING ARRANGEMENT	NOTES
A	FLUORESCENT LUMINAIRE, 4 FT MOLDED FIBERGLASS POLYESTER BODY HIGH IMPACT ACRYLIC LENS	WHITE	32W T8 2 EACH 120 VAC	64	DAY-BRITE VAPORLUME DWA	SWIVEL CANOPY AND STEMS 8 FT FROM FLOOR	UL LISTED FOR WET LOCATIONS 130° AMBIENT LOW TEMP ELECTRONIC BALLAST
B	FLUORESCENT LUMINAIRE, 4 FT HEAVY DUTY IMPACT RESISTANT HOUSING POLYCARBONATE LENS	WHITE	32W T8 1 EACH 120 VAC	32	DAY-BRITE VANAL RESISTANT SLW132-UNV	CEILING OR WALL	UL LISTED FOR DAMP LOCATIONS LOW TEMP ELECTRONIC BALLAST
C	LED, 4 FT MARINE GRADE EXTRUDED ALUMINUM HOUSING UV-STABILIZED POLYCARBONATE LENS	WHITE	50W LED 1 EACH 120 VAC	50	KENALL MELLENUM STRETCH MLHA5-48-F-MW-CP-50L40K-DCC-DV	CEILING OR WALL	UL LISTED FOR WET LOCATIONS
D	LED DECORATIVE HIGH ABUSE MARINE GRADE DIE CAST HOUSING UV-STABILIZED POLYCARBONATE LENS	DARK BRONZE	34W LED 1 EACH 120 VAC	34	DAY-BRITE VIGIL II VR2-LED40K-DE	WALL	UL LISTED FOR WET LOCATIONS
E	EMERGENCY LIGHTING IMPACT RESISTANT CONTEMPORARY HOUSING REGULATED CHARGER	WHITE	12W HAL 2 EACH 120 VAC	24	EMERGI LITE EC SERIES ECX-2-N-DL	WALL MOUNTED AT 8'	SEALED NICKEL CALCIUM BATTERY TEST SWITCH UL LISTED FOR WET ENVIRONMENT
G	SECURITY LIGHT MULTI-LEVEL MOTION CONTROL TYPE 3 DISTRIBUTION	DARK BRONZE	50W LED 1 EACH 120 VAC	50	GARDCO 121-MRM-WT-50LA-NW-UNIV-BRP	WALL MOUNT AT 8 FT OR ABOVE DOOR	U.L. LISTED FOR WET LOCATIONS PHOTOCCELL PE (WHERE SHOWN)
T	AREA LIGHT ONE PIECE, DIE CAST ALUMINUM HOUSING WITH HIGH TRANSMISSION GLASS LENS, FUSED	BRONZE	85W LED 1 EACH 120 VAC	85	PHILIPS GARDCO GULLWING LED G13-1-3-85LA-CW-UNIV-BRP	MOUNT ON POLE PER DWG E12 DET E	U.L. LISTED FOR WET LOCATIONS FUSE IN HAND HOLE PHOTO CELL PE (WHERE SHOWN)
X	EXIT LIGHTING WITH NICAD BATTERY STEEL HOUSING SELF POWERED, GREEN LETTERS	WHITE	LED TYPE 120 VAC	3.8	EMERGI-LITE LWSNX-X14	UNIVERSAL MOUNT	UL LISTED TEST SWITCH

GENERAL NOTES THAT APPLY TO LIGHTING AND RECEPTACLE PLAN

- PROVIDE AND INSTALL NECESSARY WIRES IN CONCEALED 3/4" (MIN) GRS CONDUIT FOR LIGHTING AND RECEPTACLE ARRANGEMENT AS SHOWN. IF CONDUITS ARE ROUTED UNDERGROUND, THE UNDERGROUND SECTION AND CONCEALED RISER TO FIRST DEVICE BOX BY BE PVC-40.
- DEVICE BOXES AND CONDUIT BODIES SHALL BE METALLIC. IN NEMA 4X AREAS, USE PVC COATED BOXES.
- CONDUCTORS SHALL BE COPPER TYPE THHN, #12 AWG (MINIMUM).
- MOUNT CONDUITS USING SINGLE BOLT GALVANIZED PIPE STRAPS AND CLAMP BACK SPACERS.
- USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
- PROVIDE AND INSTALL FIXTURES PER SCHEDULE THIS PAGE, QUANTITY AS SHOWN IN DRAWING.
- PROVIDE AND INSTALL ALL DEVICE BOXES, JUNCTION BOXES, RECEPTACLES, SWITCHES, AND COVERS.
- RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) WHERE SHOWN.
- SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
- ALL WORK SHALL CONFORM TO LOCAL CODES AND 2011 NATIONAL ELECTRIC CODE.
- PAINT CONDUITS TO MATCH COLOR OF SURFACE ATTACHED TO.

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 Drawn ZKV  
 Checked XML  
 Job No. 8NAP010100

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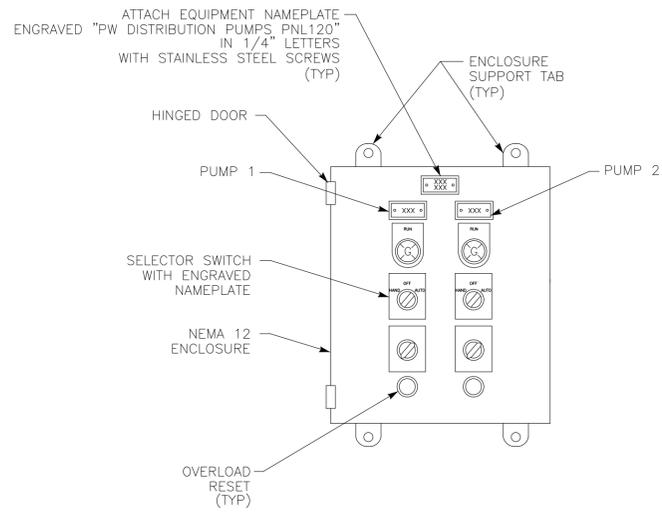


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 IF LINE IS NOT 2" SCALE ACCORDINGLY

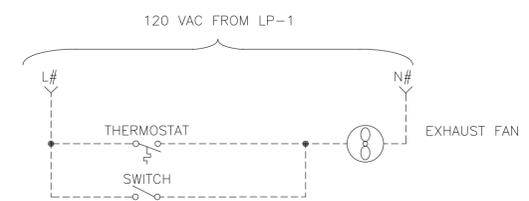
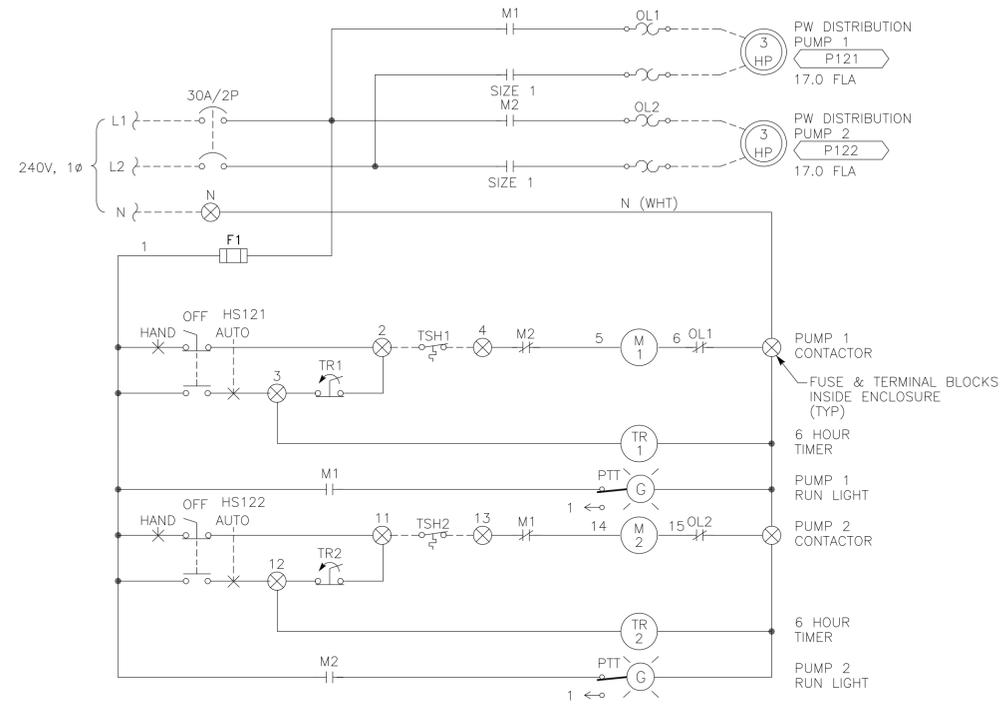
NAPA COUNTY REGIONAL PARK AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
 PANELS, LIGHTING FIXTURE &  
 GENERAL NOTES

Scale NONE  
 Drawing No. E3  
 Sheet No. 57 of 70



**PW DISTRIBUTION PUMPS CONTROL PANEL ELEMENTARY & ELEVATION**  
 NOT TO SCALE



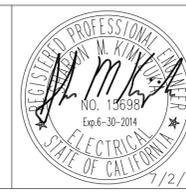
**EXHAUST FAN ELEMENTARY**

NOTES: ① TYPICAL FOR EXHAUST FAN CONTROL.

Z:\ACADDWG\2011\1111b\1111bE004.dwg

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 CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
 MISCELLANEOUS  
 ELEMENTARY DIAGRAM

Scale	NONE
Drawing No.	E4
Sheet No.	58 of 70

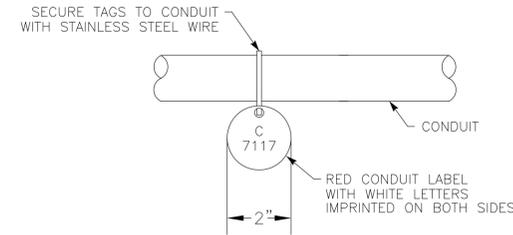
**NOTES:**

- ① CONDUIT SIZE & TYPE; WIRE FILL FOR CONDUITS TO BE DESIGNATED NEXT TO CONDUIT NUMBER ELLIPSE.
- ② THESE ARE THE CONTRACTOR DESIGNATED DRAWING NUMBERS.
- ③ NOT MORE THAN TWO WIRES PER TERMINAL BLOCK.
- ④ ALL TERMINAL BLOCKS TO BE PLACED IN NUMERICAL ORDER.
- ⑤ ALL NEUTRALS SHALL BE WHITE WIRE COLOR.
- ⑥ #12 GND TO DEVICES SHALL BE BONDED TO #8 GND LUG.

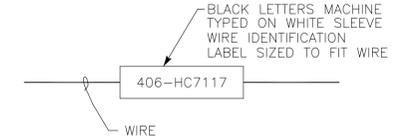
**REFERENCE DOCUMENTS**

DRAWING #	DESCRIPTION	MANUFACTURER
P712	P&ID DIAGRAM	DESIGN
E717	ELECTRICAL SITE PLAN	DESIGN
PAGE 32, 36	CONDUIT AND CABLE SCHEDULE	DESIGN
②1354-11	LOOP DIAGRAM	CONTRACTOR
②1354-68	ELEMENTARY DIAGRAM	CONTRACTOR

**TYPICAL CONDUIT MARKING SYSTEM**



**TYPICAL WIRE LABEL**

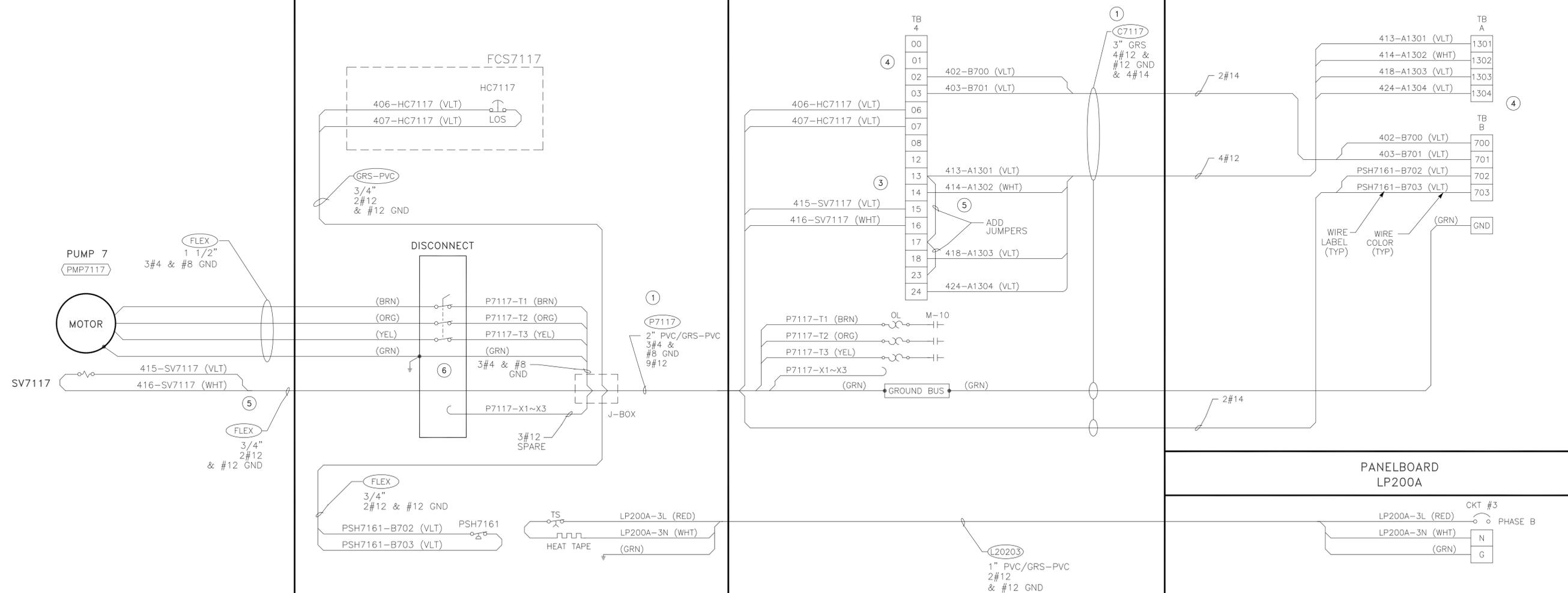


**EQUIPMENT**

**FIELD**

**MCC-4 SECTION 1 CUBICLE A~E**

**CONTROL PANEL NO.2**



**EXAMPLE INTERCONNECT DIAGRAM**

(THIS DRAWING ILLUSTRATES THE FORMAT THAT SHALL BE FOLLOWED IN PREPARATION OF ALL INTERCONNECT DWGS)

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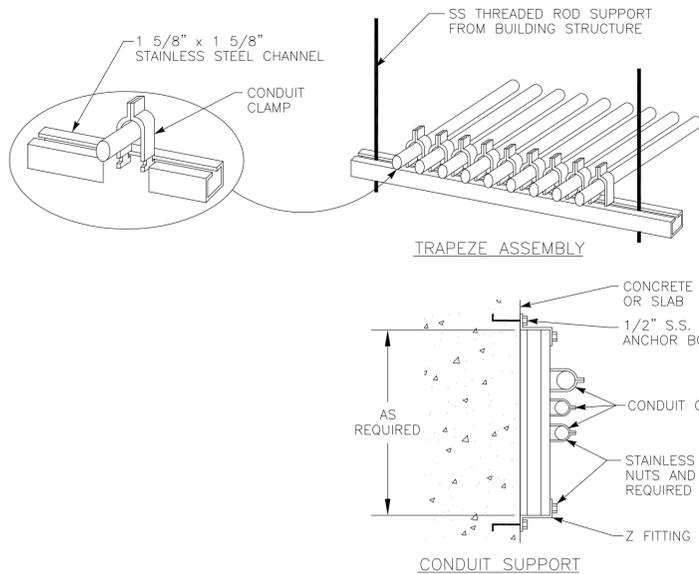
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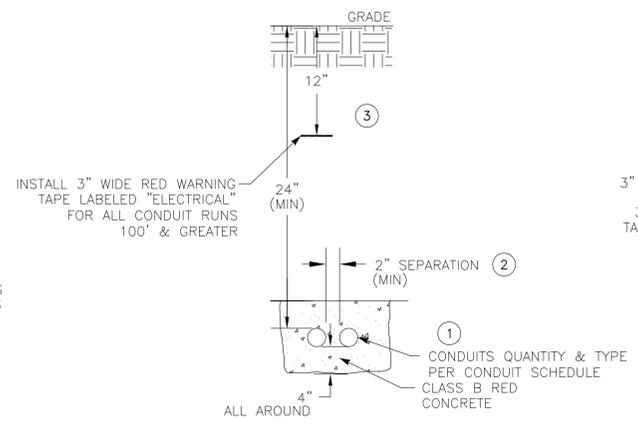
ELECTRICAL  
EXAMPLE INTERCONNECT DIAGRAM

Scale NONE  
Drawing No. E10  
Sheet No. 59 of 70



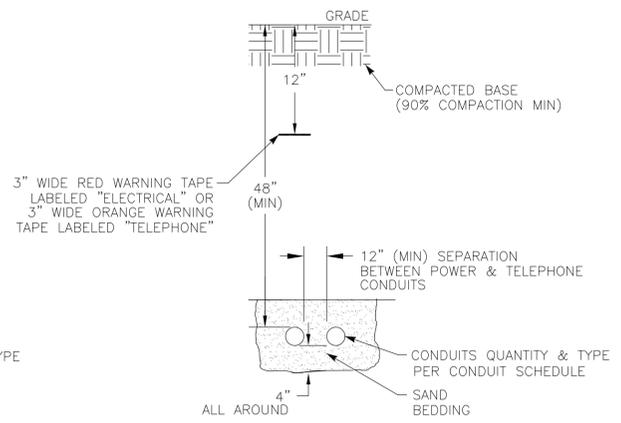
**CONDUIT UNISTRUT MOUNTING** (A) (E11)  
NOT TO SCALE  
DETAIL

- NOTES:
- ① THIS DETAIL TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING.
  - ② CHANNEL AND ALL SUPPORT DEVICES TO BE NEMA RATED PER AREA CLASSIFICATION. FIELD COAT ALL CUTS, ETC. TO MATCH.
  - ③ CHANNELS TO BE SPACED 5' MAXIMUM.



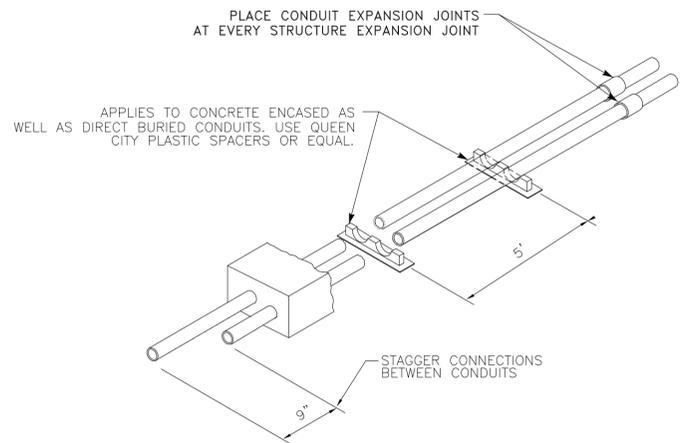
**ENCASED CONDUITS** (B) (E11)  
NOT TO SCALE  
DETAIL

- NOTES:
- ① PLACE CONDUIT RUNS OF 4 CONDUITS OR GREATER IN PLASTIC SPACERS (RATED FOR DIRECT BURIAL) EVERY 5' ALONG LENGTH OF RUN.
  - ② PROVIDE 12" (MIN) SEPERATION BETWEEN "A, C & D" TYPE GROUP AND "L & P" TYPE GROUP CONDUITS.
  - ③ TRENCHING & COMPACTED BACKFILL PER CIVIL SPECIFICATIONS.

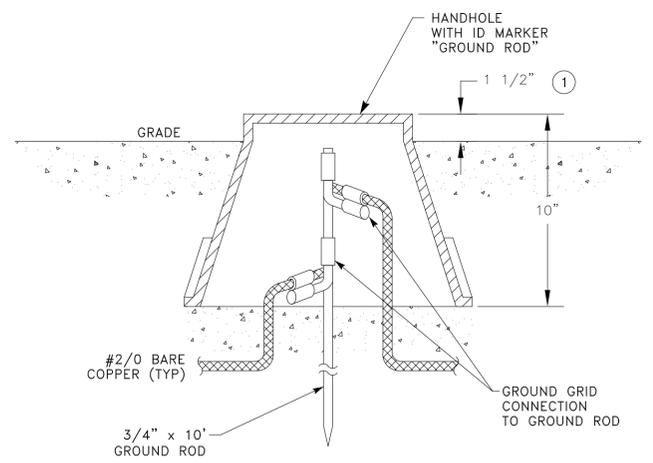


**UTILITY CONDUITS** (C) (E11)  
NOT TO SCALE  
DETAIL

- NOTES:
- ① PROVIDE SPACERS & JOINTS PER DETAIL DWG E11, DETAIL "D".

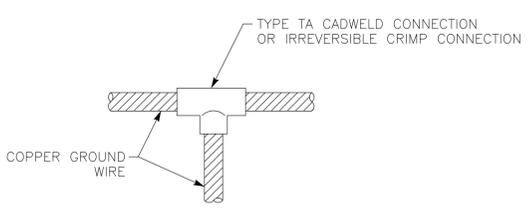


**SPACERS AND JOINTS INSTALLATION** (D) (E11)  
NOT TO SCALE  
DETAIL

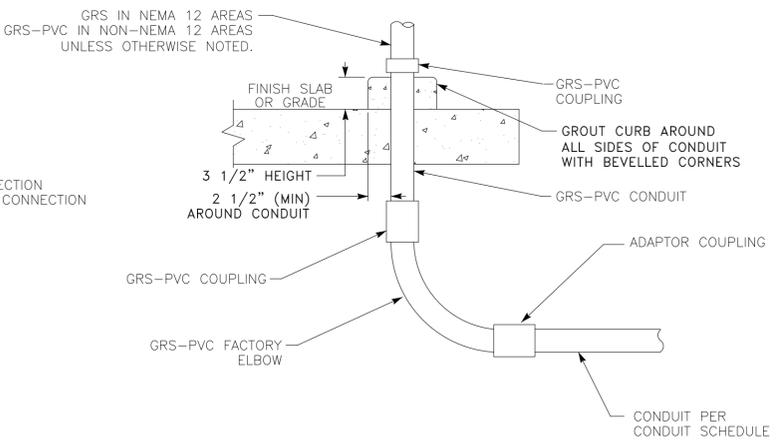


**HANDHOLE GROUNDING** (E) (E11)  
NOT TO SCALE  
DETAIL

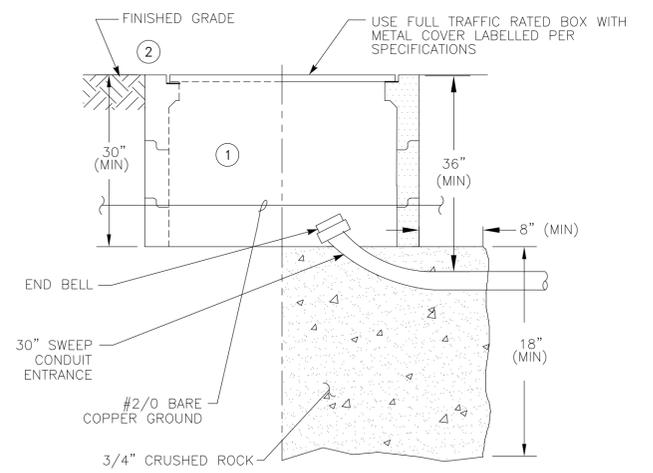
- NOTES:
- ① FLUSH IN PAVED AREAS.



**GROUND CABLE CONNECTION** (F) (E11)  
NOT TO SCALE  
DETAIL



**EXPOSED CONDUIT TRANSITION** (G) (E11)  
NOT TO SCALE  
DETAIL



**PULL BOX** (H) (E11) ③  
NOT TO SCALE  
DETAIL

- NOTES:
- ① TRAFFIC RATED CHRISTY "B" SERIES OR EQUAL, MINIMUM BOX SIZE PER PLANS. PROVIDE LARGER AT NO ADDITIONAL COST TO OWNER.
  - ② ADD EXTENSIONS WHERE NECESSARY TO RAISE COVER TO FINISHED GRADE.
  - ③ GROUND COVER FRAME, COVER AND OTHER EXPOSED METAL PARTS TO #2/0 BARE COPPER GROUND CABLE.

Z:\\_ACADDWG\2011\1111b\1111bE011.dwg  
ZAK-KAD

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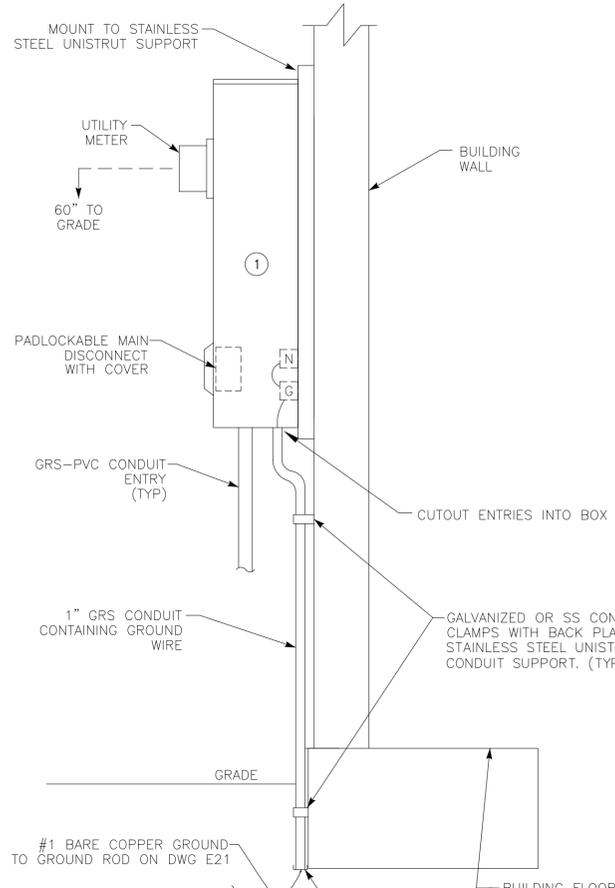
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CAMP BERRYESSA IMPROVEMENTS

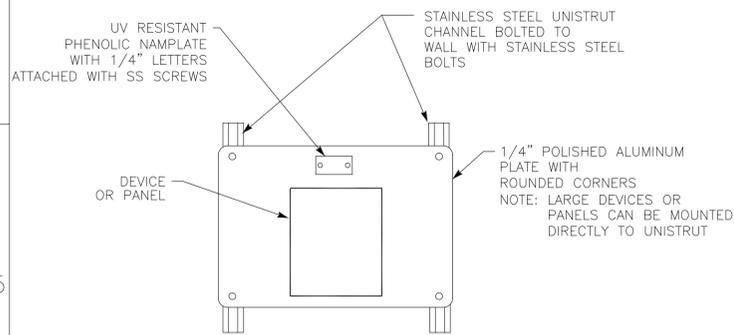
ELECTRICAL  
TYPICAL ELECTRICAL  
DETAILS NO.1

Scale	NONE
Drawing No.	E11
Sheet No.	60 of 70

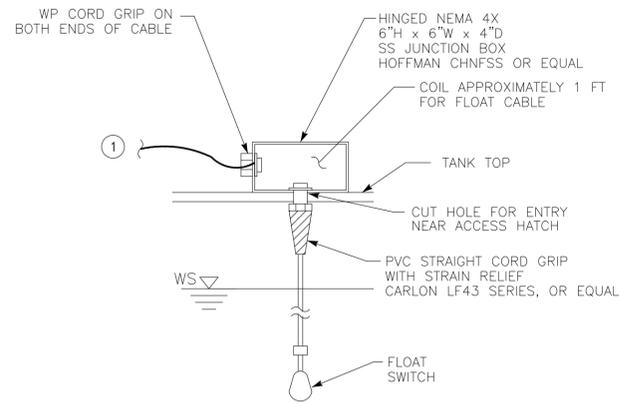


**METER/MAIN DISCONNECT**  
NOT TO SCALE **DETAIL** (A) (E12)

NOTES: ① PAINT ENCLOSURE, SUPPORT & ALL CONDUITS TO MATCH COLOR OF BUILDING.

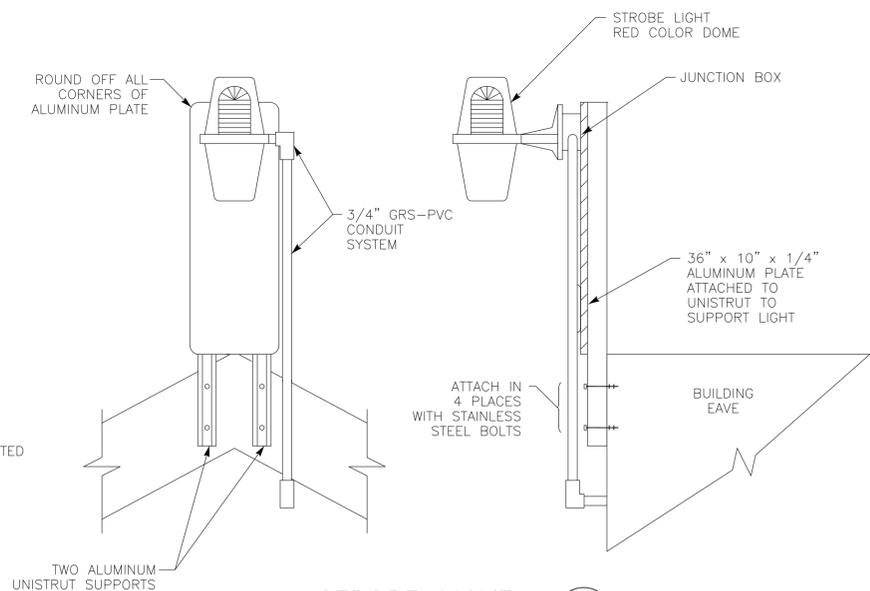


**WALL PLATE SUPPORT**  
NOT TO SCALE **DETAIL** (B) (E12)

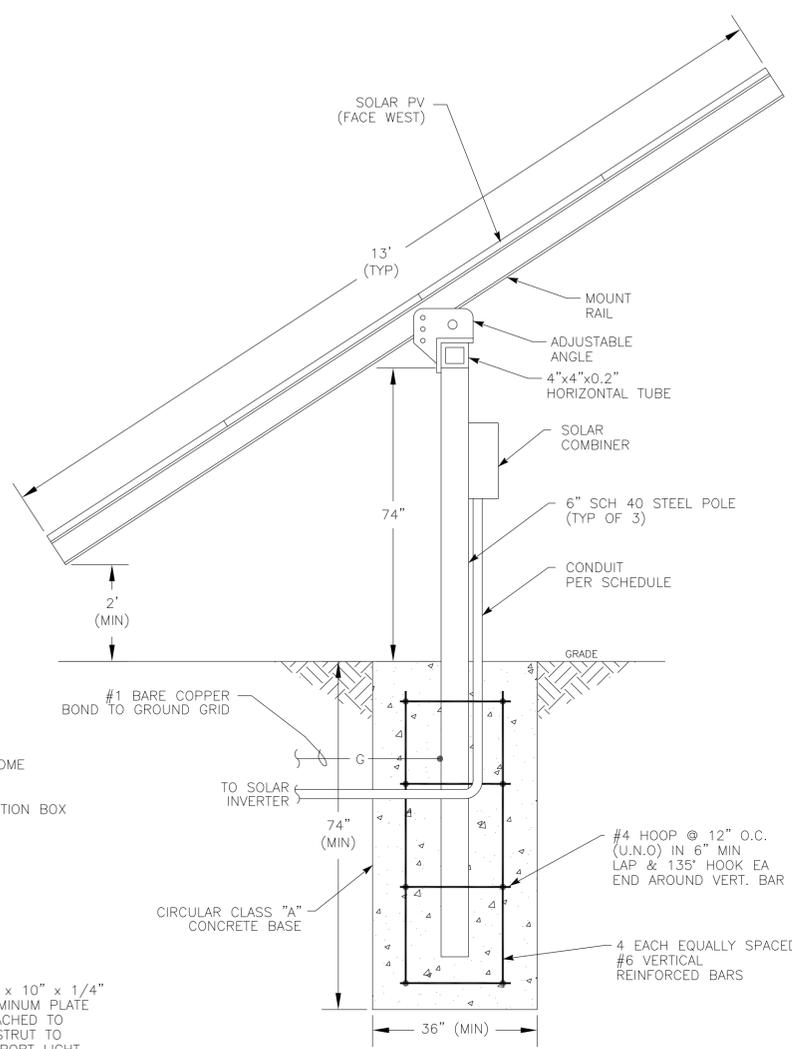


**LEVEL SWITCH**  
NOT TO SCALE **DETAIL** (C) (E12)

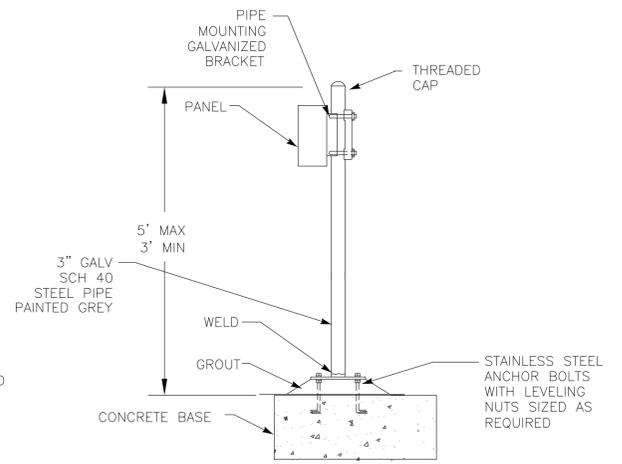
NOTE: ① OUTDOOR TRAY RATED CABLE TO JUNCTION BOX.



**STROBE LIGHT**  
NOT TO SCALE **DETAIL** (D) (E12)



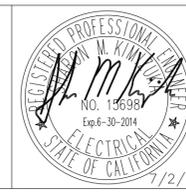
**SOLAR PANEL**  
NOT TO SCALE **DETAIL** (E) (E12)



**FLOOR PIPE SUPPORT**  
NOT TO SCALE **DETAIL** (F) (E12)

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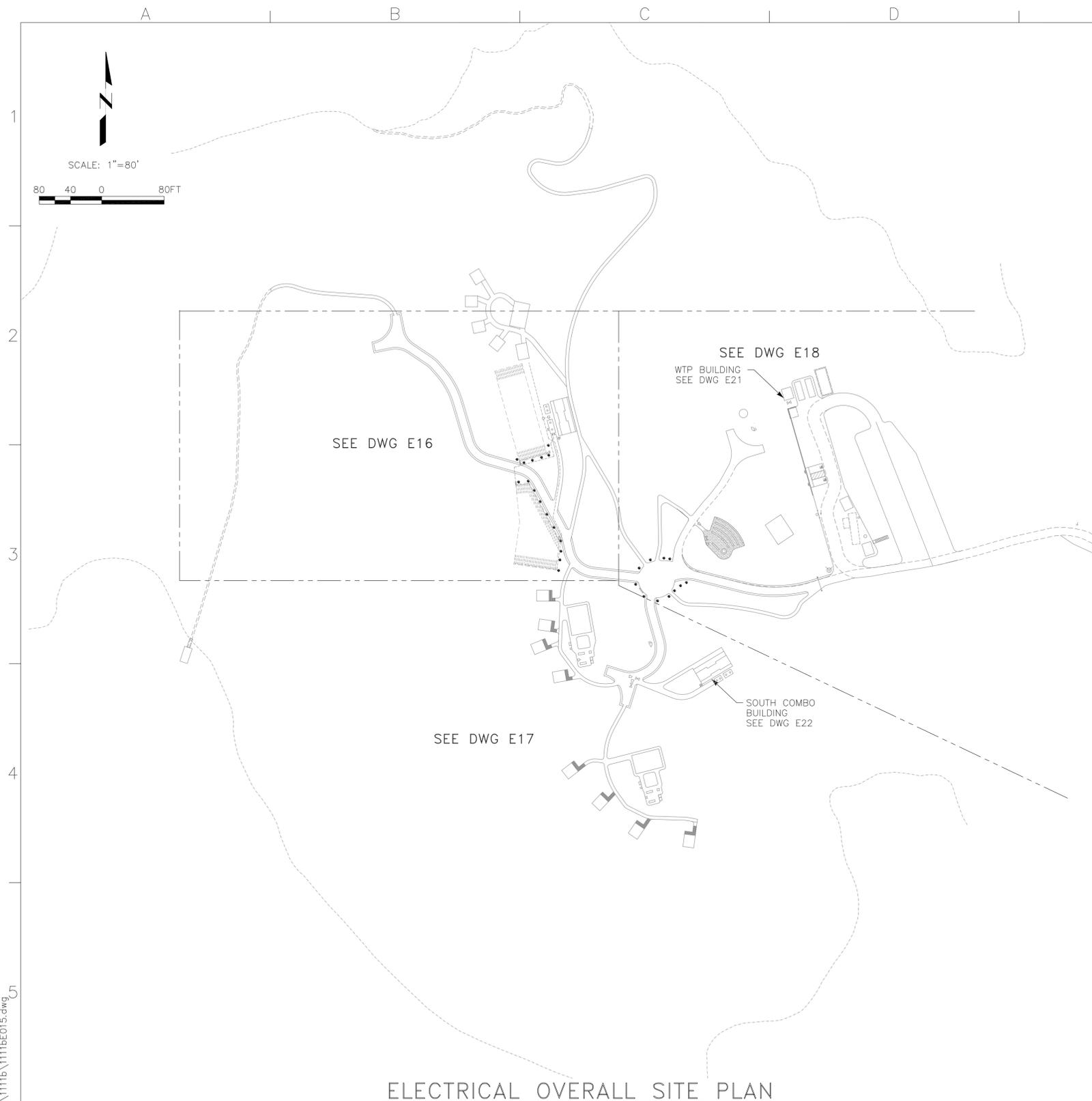
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Drawn	ZKV
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Job No.	8NAP0100

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CAMP BERRYESSA IMPROVEMENTS  
ELECTRICAL  
TYPICAL ELECTRICAL  
DETAILS NO.2

Scale	NONE
Drawing No.	E12
Sheet No.	61 of 70



CONDUIT & WIRE ROUTING SCHEDULE														
REF DWG	CONDUIT NO.	FROM	TO	QTY	SIZE	TYPE	PWR QTY	SIZE	GND SIZE	CONTROL QTY	SIZE	SIGNAL QTY	SIZE	NOTES
E21	C 111 A	PNL111	BLDG STROBE LIGHT	1	3/4"	GRS	-	-	#12	2	#14	-	-	
E16	C 131 A	PNL131	IRRIG SV JB	1	1"	PVC-40	-	-	#12	6	#14	-	-	
E16	C 131 B	IRRIG SV JB	IRRIG SV JB	1	1"	PVC-40	-	-	#12	4	#14	-	-	
E16	C 131 C	PNL131	IRRIG SV JB	1	1"	PVC-40	-	-	#12	8	#14	-	-	
E16	C 131 D	IRRIG SV JB	IRRIG SV JB	1	1"	PVC-40	-	-	#12	6	#14	-	-	
E22	C 140 A	SHOWER CP	SHOWER COIN BOX 1	1	3/4"	GRS	-	-	#12	MNFR	CBL	-	-	
E22	C 140 B	SHOWER CP	SHOWER COIN BOX 2	1	3/4"	GRS	-	-	#12	MNFR	CBL	-	-	
E18	C 151 A	PNL111	LSHH/H/L151	1	1"	PVC-40	-	-	#12	8	#14	-	-	
E21	L 107 A	PANEL LP-1	EF T-STAT & SW	1	3/4"	GRS	2	#12	#12	-	-	-	-	
E21	L 107 B	EF T-STAT & SW	EF	1	3/4"	GRS	2	#12	#12	-	-	-	-	
E18	L 108 A	PANEL LP-1	PULL BOX 2	1	1"	PVC-40	4	#10	#10	-	-	-	-	
E18	L 108 B	PULL BOX 2	RECEPT-AMPHITHEATER	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E18	L 118 A	PANEL LP-1	RV RECEPT	1	1"	PVC-40	3	#8	#8	-	-	-	-	
E21	L 121 A	PANEL LP-1	PNL111	1	3/4"	GRS	2	#12	#12	-	-	-	-	
E21	L 125 A	PANEL LP-1	PNL120	1	1"	GRS	3	#8	#8	-	-	-	-	
E16	L 126 A	PANEL LP-1	PNL131	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E21	L 134 A	PANEL LP-1	DISC134A	1	1"	GRS	2	#8	#8	-	-	-	-	
E21	L 134 B	DISC134A	SOLAR INVERTER	1	1"	GRS	2	#8	#8	-	-	-	-	
E22	L 137 A	PANEL LP-1	PANEL LP-2	1	2"	PVC-40	3	#4	#4	-	-	-	-	
E17	L 207 A	PANEL LP-2	T-C4 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 207 B	T-C4 JB	T-C3 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 207 C	T-C3 JB	T-C2 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 207 D	T-C2 JB	T-C1 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 208 A	PANEL LP-2	T-S1 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 208 B	T-S1 JB	T-S2 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 208 C	T-S2 JB	T-S3 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 208 D	T-S3 JB	T-S4 JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 209 A	PANEL LP-2	CENTRAL SHELTER JB	1	1"	PVC-40	4	#10	#10	-	-	-	-	
E17	L 209 B	CENTRAL SHELTER JB	CENTRAL COOKING JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 209 C	CENTRAL COOKING JB	CENTRAL COOKING RECEPT	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 210 A	PANEL LP-2	SOUTH SHELTER JB	1	1"	PVC-40	4	#10	#10	-	-	-	-	
E17	L 210 B	SOUTH SHELTER JB	SOUTH COOKING JB	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E17	L 210 C	SOUTH COOKING JB	SOUTH COOKING RECEPT	1	1"	PVC-40	2	#10	#10	-	-	-	-	
E22	L 213	PANEL LP-2	HOT WATER HEATER	1	3/4"	GRS	2	#12	#12	-	-	-	-	
E22	L 215	PANEL LP-2	SHOWER CP	1	3/4"	GRS	2	#12	#12	-	-	-	-	
E22	L 217 A	PANEL LP-2	PNL132	1	1"	GRS	3	#12	#12	-	-	-	-	
E17	L 217 B	PNL132	GREYWATER PUMP 2	1	1"	PVC-40	MNFR	CBL	-	-	-	-	-	
E21	P 001 A	UTILITY XFMR SEC	UTILITY METER/MAIN	1	3"	PVC-80	-	-	-	-	-	-	-	PULL ROPE
E21	P 001 B	UTILITY METER/MAIN	PANEL LP-1	1	3"	PVC-40	3	#3/0	#1/0	-	-	-	-	
E18	P 111 A	PNL111	P111	1	1"	PVC-40	3	#10	#10	4	#14	-	-	MNFR CBL TO PUMP
E21	P 121 A	PNL120	P121	1	3/4"	GRS	3	#10	#12	2	#14	-	-	
E21	P 122 A	PNL120	P122	1	3/4"	GRS	3	#10	#12	2	#14	-	-	
E21	P 134 A	SOLAR INVERTER	DISC134B	1	1"	GRS	2	#6	#6	-	-	-	-	
E21	P 134 B	DISC134B	SOLAR PV COMBINER	1	1-1/2"	GRS-PVC	2	#4	#4	-	-	-	-	
E16	XL 101	PANEL LP-1	PULL BOX 1	1	1-1/2"	PVC-40	-	-	-	-	-	-	-	PULL ROPE
E16	XL 102	PANEL LP-1	PULL BOX 5	2	1-1/2"	PVC-40	-	-	-	-	-	-	-	PULL ROPE
E17	XL 201	PANEL LP-2	PULL BOX 4	1	1-1/2"	PVC-40	-	-	-	-	-	-	-	PULL ROPE

ELECTRICAL OVERALL SITE PLAN

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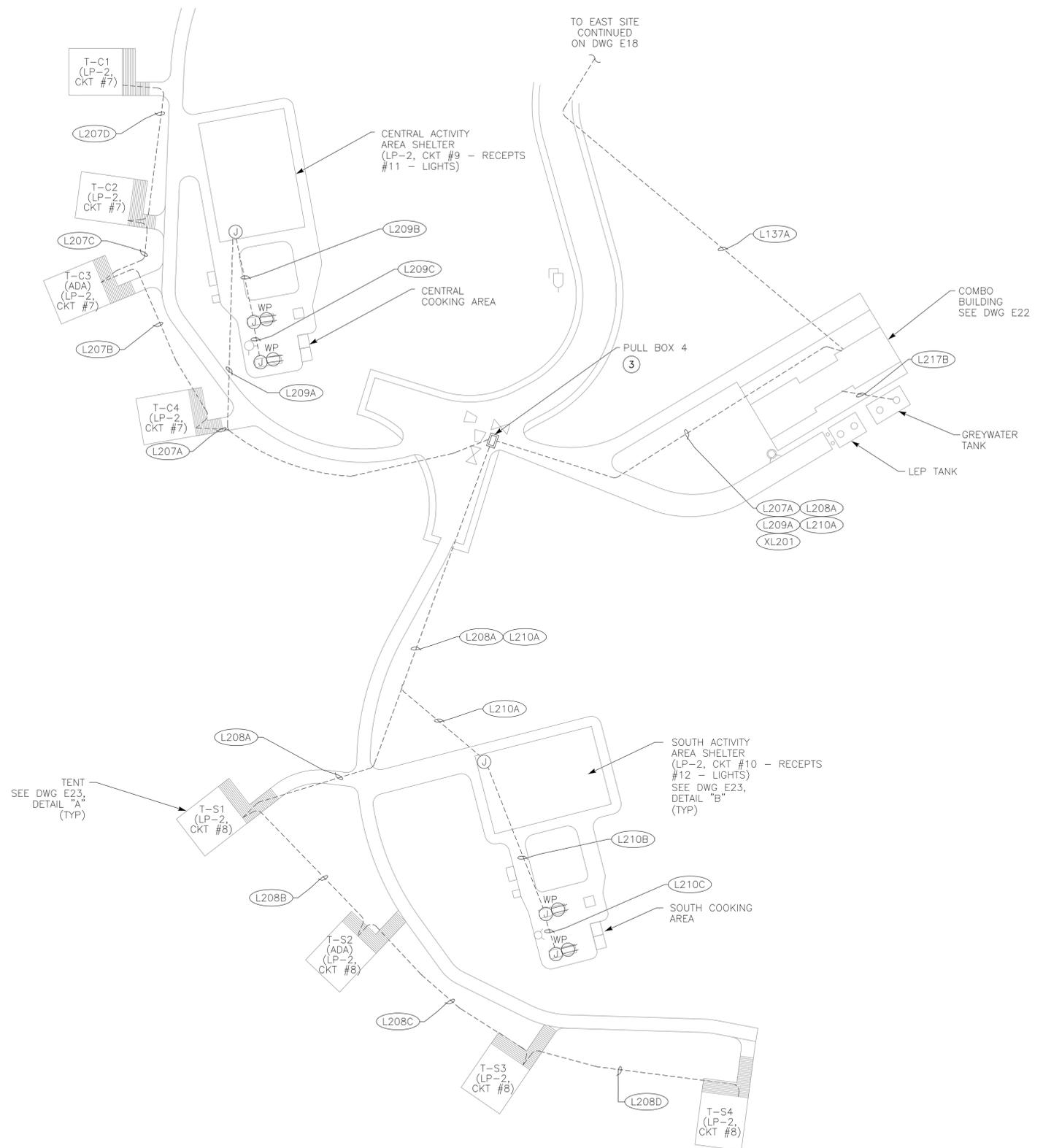
NAPA COUNTY REGIONAL PARK  
 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
 ELECTRICAL OVERALL SITE PLAN  
 AND CONDUIT SCHEDULE

Scale  
 1" = 80'  
 Drawing No.  
**E15**  
 Sheet No.  
 62 of 70

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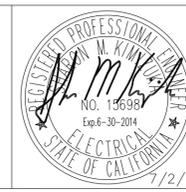
- NOTES:
- ① UG CONDUITS PER DWG E11, DETAIL "B".
  - ② UG CONDUITS TRANSITIONS PER DWG E11, DETAIL "G".
  - ③ INSTALL MINIMUM 17" x 30" PULL BOX PER DWG E11, DETAIL "H".

**ELECTRICAL SITE PLAN SOUTH ①②**

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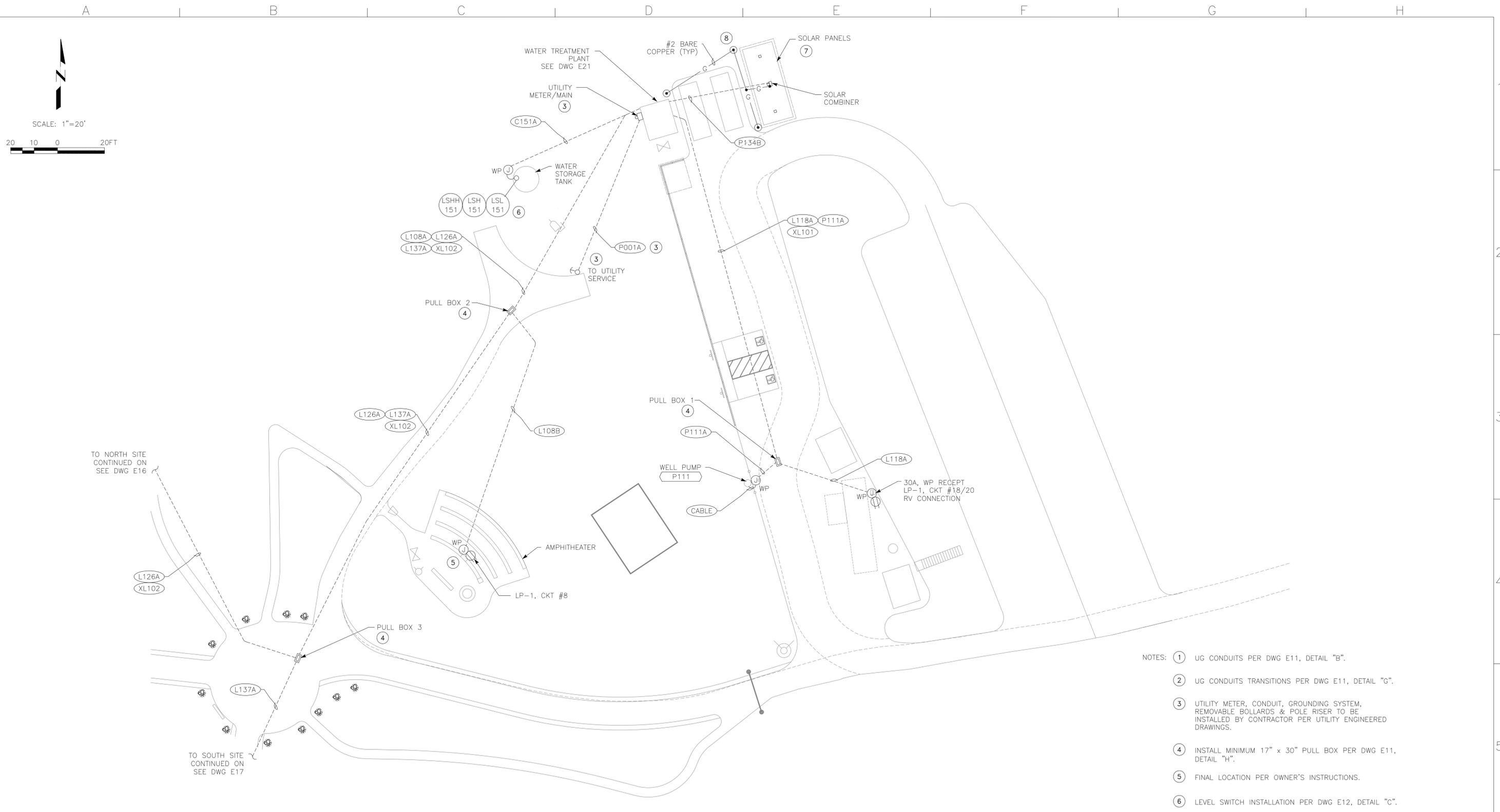
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 CAMP BERRYESSA IMPROVEMENTS  
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 ELECTRICAL SITE PLAN SOUTH

Scale  
1" = 20'  
 Drawing No.  
E17  
 Sheet No.  
64 of 70



SCALE: 1"=20'  
 20 10 0 20FT

- NOTES:
- ① UG CONDUITS PER DWG E11, DETAIL "B".
  - ② UG CONDUITS TRANSITIONS PER DWG E11, DETAIL "G".
  - ③ UTILITY METER, CONDUIT, GROUNDING SYSTEM, REMOVABLE BOLLARDS & POLE RISER TO BE INSTALLED BY CONTRACTOR PER UTILITY ENGINEERED DRAWINGS.
  - ④ INSTALL MINIMUM 17" x 30" PULL BOX PER DWG E11, DETAIL "H".
  - ⑤ FINAL LOCATION PER OWNER'S INSTRUCTIONS.
  - ⑥ LEVEL SWITCH INSTALLATION PER DWG E12, DETAIL "C".
  - ⑦ SOLAR PANELS INSTALLATION PER DWG E12, DETAIL "E".
  - ⑧ GROUND RING & GROUND BONDS TO CONSIST OF #2 BARE COPPER WITH 30" MINIMUM COVER, INSTALL GROUND ROD HANDHOLE PER DWG E11, DETAIL "E".

ELECTRICAL SITE PLAN EAST ①②

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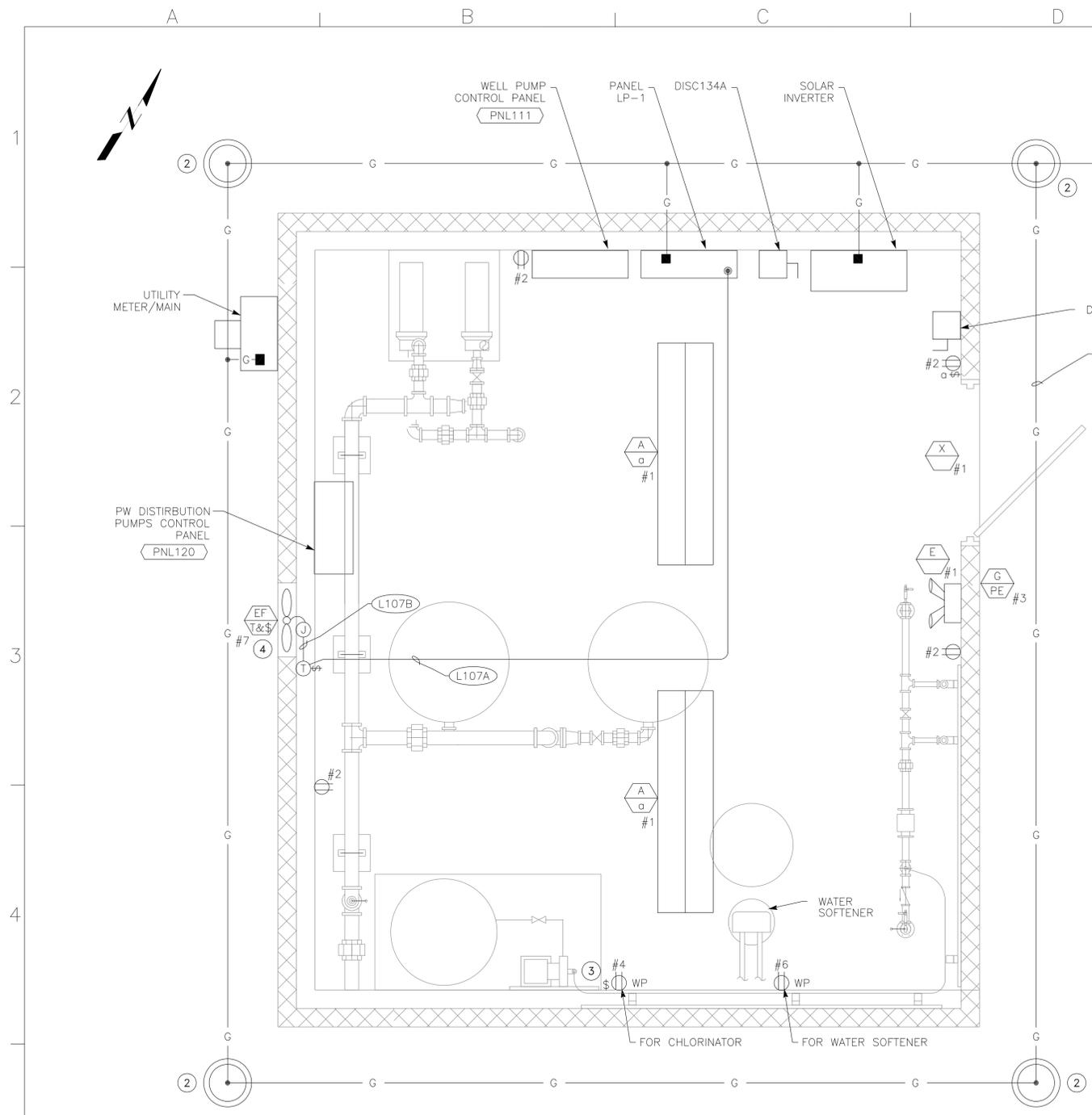
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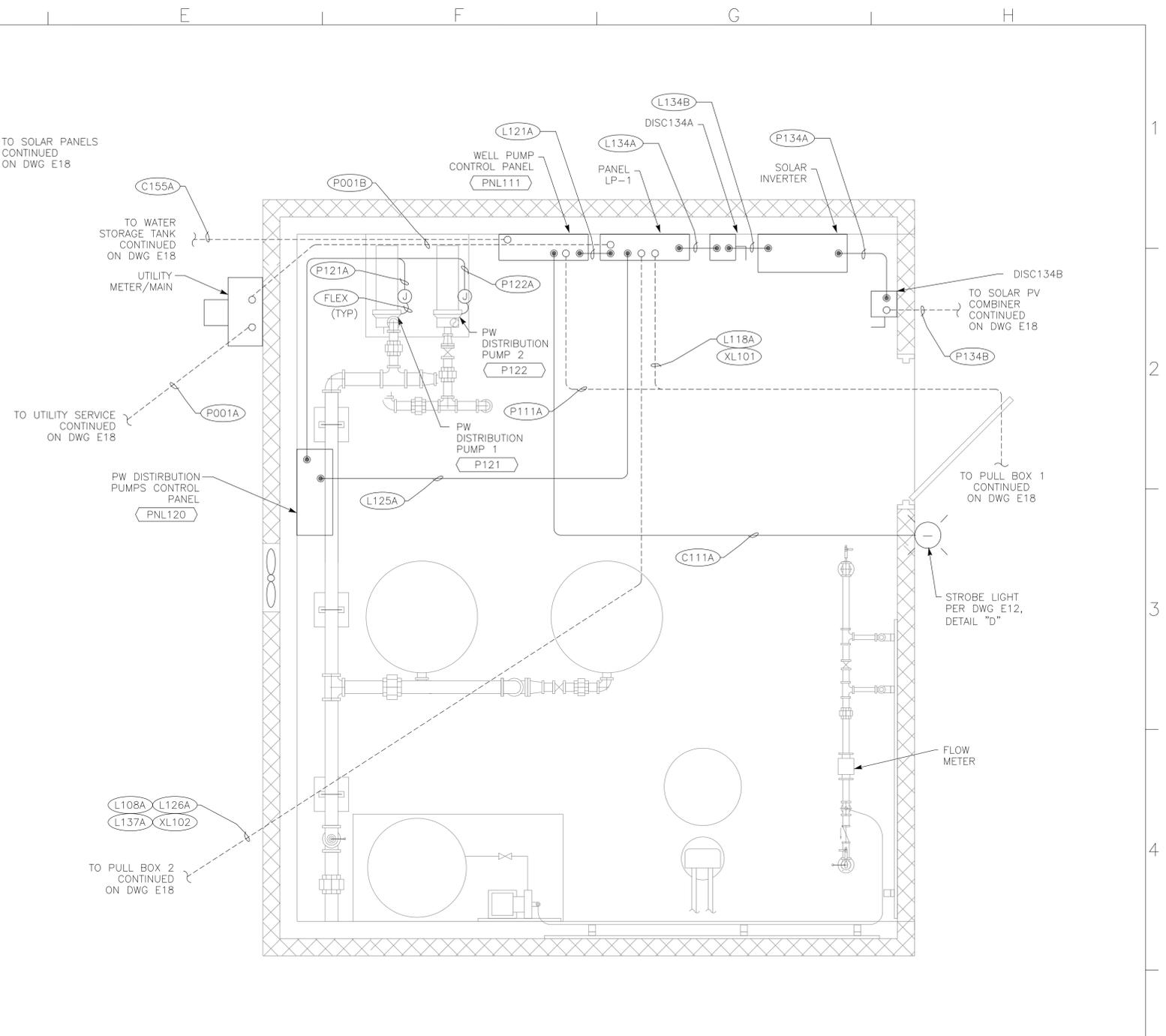
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 AND OPEN SPACE DISTRICT  
 CAMP BERRYESSA IMPROVEMENTS  
 ELECTRICAL  
 ELECTRICAL SITE PLAN EAST

Scale  
 1" = 20'  
 Drawing No.  
 E18  
 Sheet No.  
 65 of 70



**WTP BUILDING LIGHTING & RECEPTACLE PLAN ①**

- NOTES: ① SEE DWG E3 FOR LIGHTING CONDUIT & WIRE REQUIREMENTS. CIRCUITS SHOWN ARE FED FROM PANEL LP-1.
- ② GROUND RING & GROUND BONDS TO CONSIST OF #2 BARE COPPER WITH 30" MINIMUM COVER. INSTALL GROUND ROD HANDHOLE PER DWG E11, DETAIL "E".
- ③ MOUNT SWITCH 5' ABOVE FLOOR FOR SWITCHED RECEPTACLE.
- ④ EXHAUST FAN CONTROL PER DWG E4, DETAIL "B".



**WTP BUILDING POWER PLAN ①②③**

- NOTES: ① UG CONDUITS PER DWG E11, DETAIL "B".
- ② UG CONDUITS TRANSITIONS PER DWG E11, DETAIL "G".
- ③ EXPOSED CONDUITS PER DWG E11, DETAIL "A".

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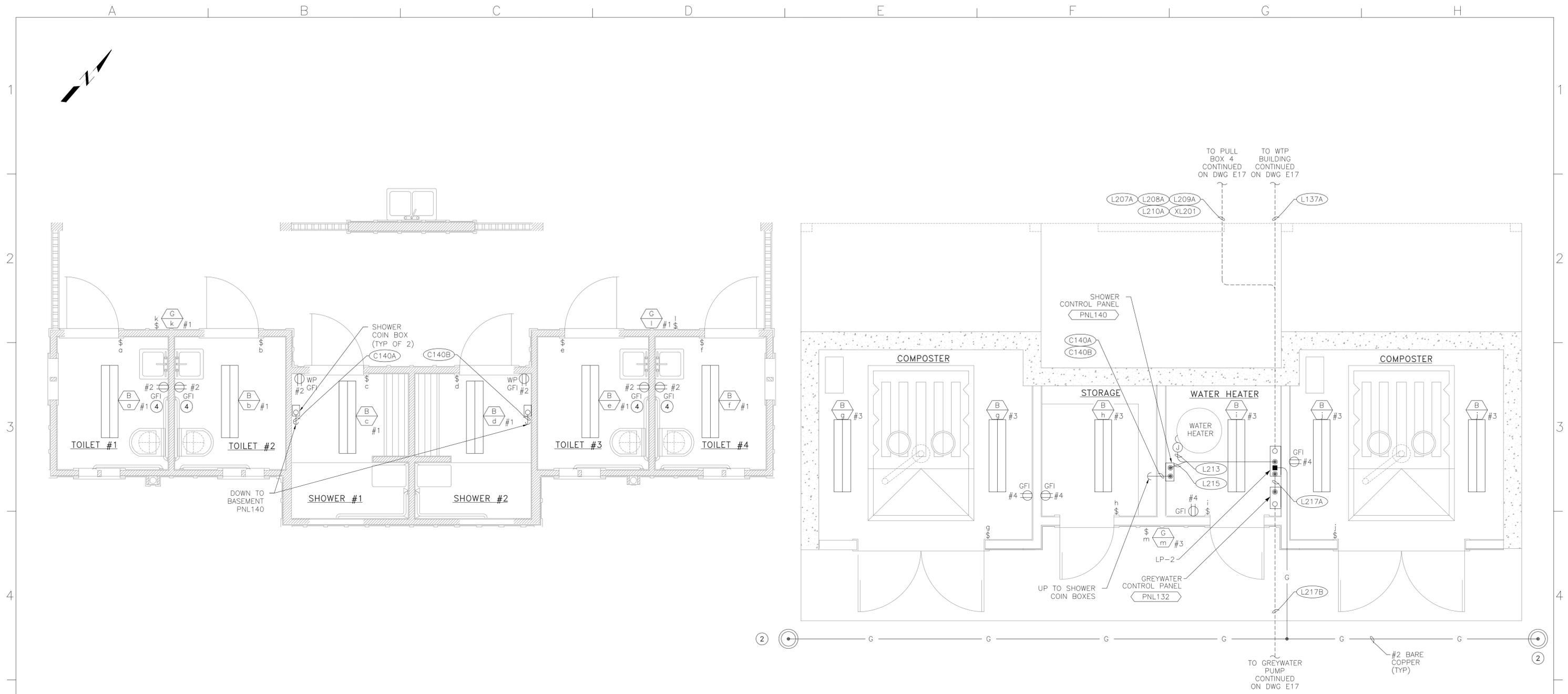
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NAPA COUNTY REGIONAL PARK  
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 CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
 WTP BUILDING LIGHTING,  
 RECEPTACLE & POWER PLANS

Scale	3/4" = 1'
Drawing No.	E21
Sheet No.	66 of 70

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TOILET FLOOR

BASEMENT FLOOR

COMBO BUILDING ELECTRICAL PLAN ①②③

- NOTES: ① SEE DWG E3 FOR LIGHTING CONDUIT & WIRE REQUIREMENTS. CIRCUITS SHOWN ARE FED FROM PANEL LP-2.
- ② GROUND RING & GROUND BONDS TO CONSIST OF #2 BARE COPPER WITH 30" MINIMUM COVER. INSTALL GROUND ROD HANDHOLE PER DWG E11, DETAIL "E".
- ③ UNDERGROUND CONDUITS PER DWG E11, DETAIL "B".
- ④ MOUNT GFI TYPE RECEPTACLE 12" ABOVE SINK. USE PLASTIC COVER ATTACHED WITH PLASTIC SCREWS FOR COVER PLATE.

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NAPA COUNTY REGIONAL PARK  
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CAMP BERRYESSA IMPROVEMENTS

ELECTRICAL  
COMBO BUILDING  
ELECTRICAL PLAN

Scale  
3/8" = 1'

Drawing No.  
E22

Sheet No.  
67 of 70

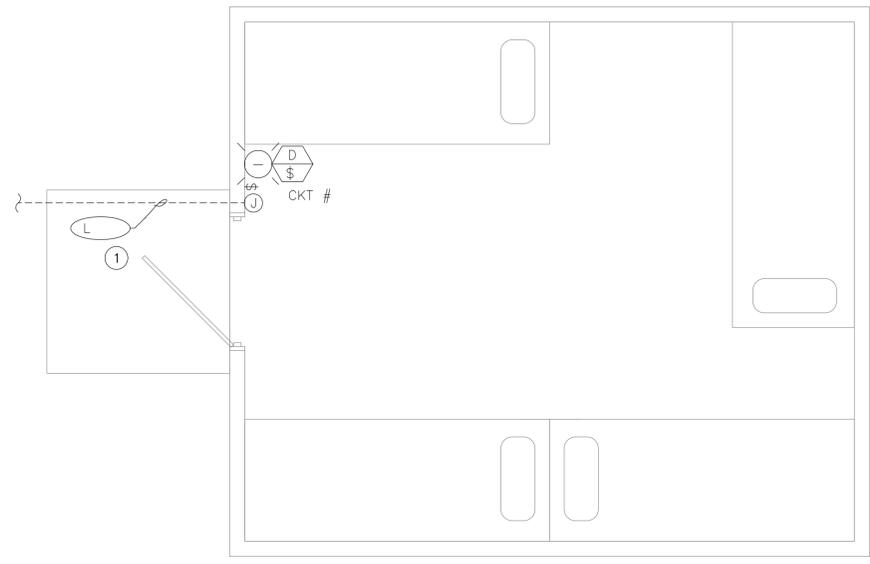
A B C D E F G H

1

2

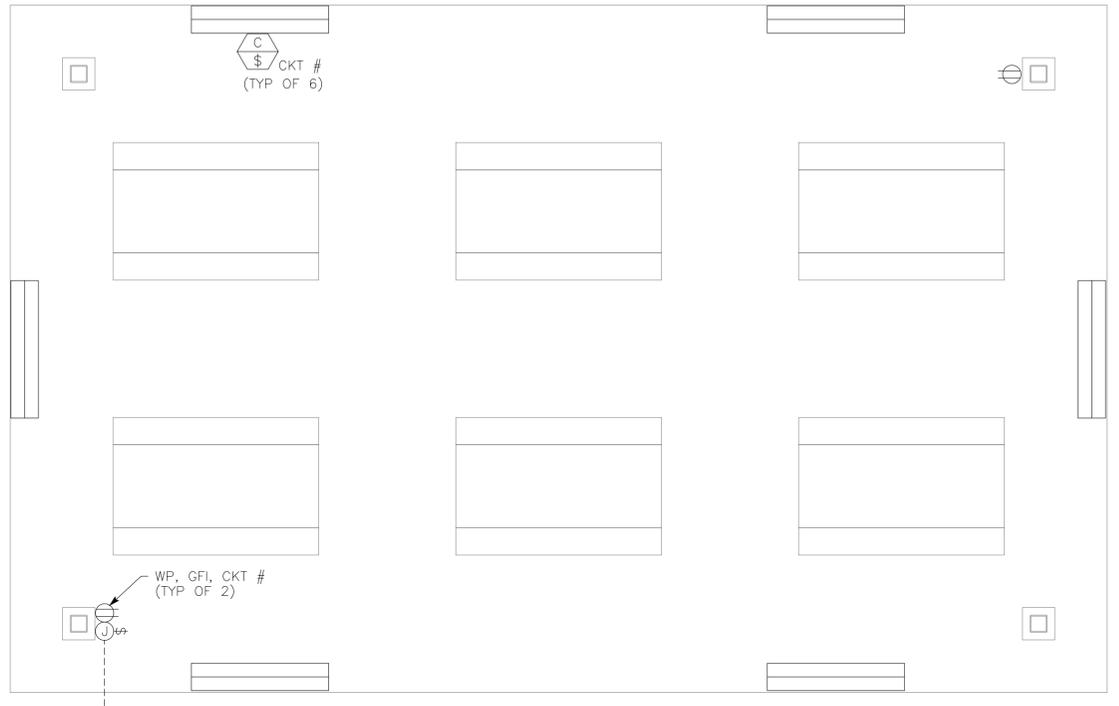
3

4



**TYPICAL TENT ELECTRICAL PLAN** A  
 SCALE 1" = 2'  
E23

NOTES: ① CONDUIT AND PANELBOARD CIRCUIT # PER SITE PLAN.



**TYPICAL ACTIVITY SHELTER ELECTRICAL PLAN** B  
 SCALE 3/8" = 1'  
E23

NOTES: ① CONDUIT AND PANELBOARD CIRCUIT # PER SITE PLAN.  
 ② SEE DWG E3 FOR LIGHTING CONDUIT & WIRE REQUIREMENTS. CIRCUITS SHOWN ARE FED FROM PANEL LP-2.

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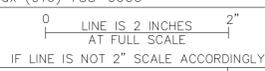


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 CAMP BERRYESSA IMPROVEMENTS  
 ELECTRICAL  
 TENT & ACTIVITY SHELTER  
 ELECTRICAL PLANS

Scale  
 AS SHOWN  
 Drawing No.  
**E23**  
 Sheet No.  
 68 of 70

A B C D E F G H

1

2

3

4

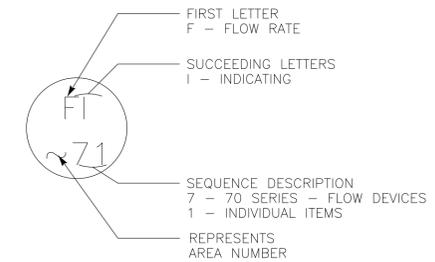
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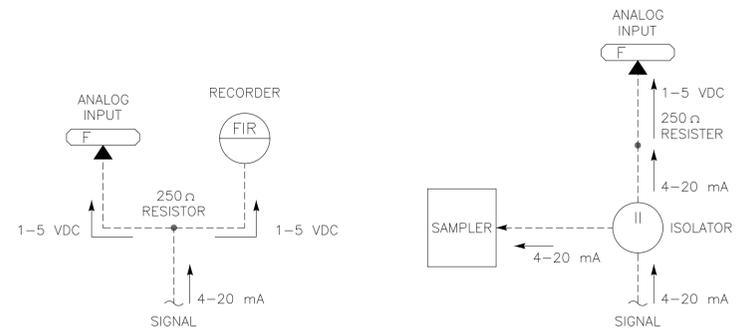
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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>P &amp; I DIAGRAM SYMBOLS</b>			
	FIELD MOUNTED INSTRUMENT		VALVE (GENERAL)
	FACE MOUNTED INSTRUMENT ON LOCAL PANEL, OPERATOR ACCESSIBLE		GATE (GENERAL)
	FACE MOUNTED INSTRUMENT ON FIELD PANEL, OPERATOR ACCESSIBLE		CHECK VALVE (GENERAL)
	INSTRUMENT MOUNTED IN LOCAL PANEL, OPERATOR INACCESSIBLE		PUMP (GENERAL)
	INSTRUMENT MOUNTED IN FIELD PANEL, OPERATOR INACCESSIBLE		
	OPERATION PERFORMED WITH LOGIC OR HARDWIRED DEVICES		VALVE/GATE NUMBER
DWG #	- REFERENCE ELEMENTARY DWG. #		EQUIPMENT NUMBER
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL INDICATION	-----	ELECTRIC SIGNAL
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL ALARM INDICATION	- - - - -	LOGIC OR DATA SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL OPERATION	== ==	PNEUMATIC SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL ALARM OPERATION	× ×	CAPILLARY TUBING (FILLED SYSTEM)
$\propto \int \frac{d}{dt}$	PROPORTIONAL, INTEGRAL, AND DIFFERENTIAL PARAMETERS		HYDRAULIC SIGNAL
% +/-	RATIO AND BIAS PARAMETERS	ES AS	SONIC OR ELECTROMAGNETIC SIGNAL
	AUDIBLE ALARM (BUZZER OR HORN)	E >	ELECTRIC SUPPLY
	ANNUNCIATOR WINDOW R - ROW # C - COLUMN #	SA >	SERVICE AIR
	LAMP INDICATION (STATUS OR ALARM)	IA >	INSTRUMENT AIR
			DISCONNECT SWITCH
	DISCRETE INPUT		
	DISCRETE OUTPUT		
	ANALOG INPUT		
	ANALOG OUTPUT		
	JUMP TAG FROM ONE AREA TO ANOTHER AREA OF DRAWING		
	"a" TAG CONNECT POINT ON EACH DRAWING		
	CONTINUED ON DWG P-X		
	AUTODIALER PRIORITY # PC BASED SOFTWARE		

INSTRUMENT IDENTIFICATION LETTERS				
FIRST - LETTER	SUCCEEDING - LETTER			
MEASURED OF INITIATING VARIABLE	MODIFIER	READOUT PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C CONDUCTIVITY			CONTROLLER	
D DENSITY	DIFFERENTIAL			
E VOLTAGE		SENSOR, PRIMARY ELEMENT		
F FLOW RATE	RATIO (FRACTION)			
G GENERAL		GLASS VIEWING DEVICE		
H HAND				HIGH, OPENED
I CURRENT (ELEC.)		INDICATING, INDICATOR		
J POWER	SCAN			
K TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L LEVEL		LIGHT		LOW, CLOSED
M MOISTURE	MOMENTARY			MIDDLE
N STATUS		STATUS	USER'S CHOICE	USER'S CHOICE
O OPERATOR		ORIFICE, RESTRICTION		
P PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q QUANTITY	INTERGRATE, TOTALIZE			
R RESET		RECORD		
S SPEED, FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMITTER	TEST
U MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V VIBRATION, MECH. ANALYSIS			VALVE, DAMPER LOUVER	
W WEIGHT, FORCE		WELL		
X SWITCH	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTER, CONVERTOR	
Z POSITION DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	



P&ID INSTRUMENT IDENTIFICATION EXAMPLE



TYPICAL SIGNAL FLOWS

NUMBERING SEQUENCE	
SEQUENCE NUMBER	DESCRIPTION
00	COMMON ALARM
01-09	INDIVIDUAL ITEMS
10	MECHANICAL
20	MECHANICAL
30	MECHANICAL
40	MECHANICAL
50	LEVEL DEVICES
60	PRESSURE DEVICES
70	FLOW DEVICES
80	ANALYTICAL DEVICES
90	SAFETY & SECURITY DEVICES

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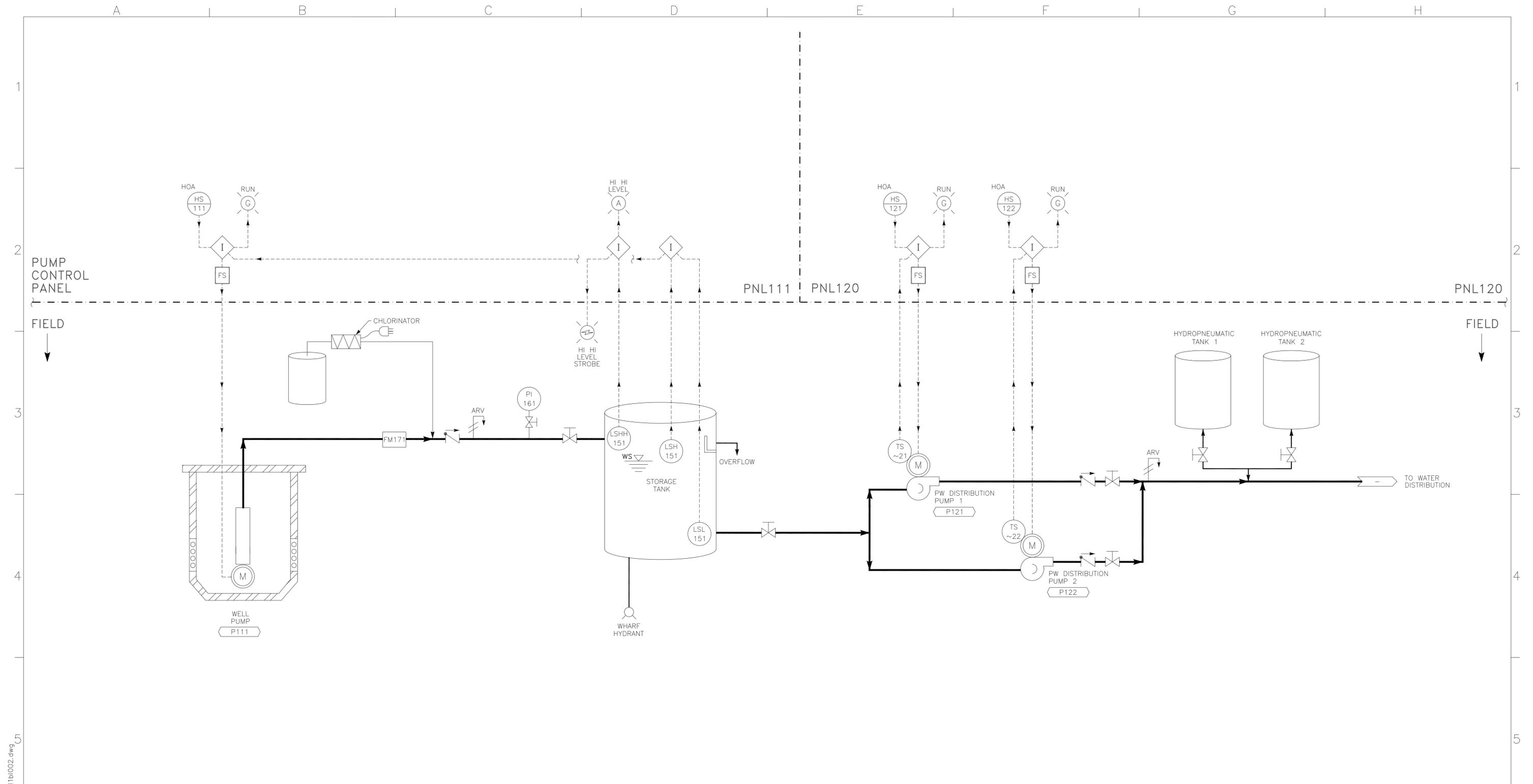
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ELECTRICAL  
 INSTRUMENTATION SYMBOLS & ABBREVIATIONS

Scale	NONE
Drawing No.	11
Sheet No.	69 of 70



WATER SYSTEM

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ELECTRICAL  
 WATER SYSTEM  
 P&ID

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Sheet No.	70 of 70

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