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PROJECT ADMINISTERED BY:  
SAN BERNARDINO COUNTY  
PROJECT AND FACILITIES  
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415

PROJECT NAME:

MOJAVE NARROWS  
REGIONAL PARK

DRY CAMPSITE ADA  
RESTROOM

PROJECT # 10J0J402

18000 YATES ROAD  
VICTORVILLE, CA 92392

ISSUE INFORMATION:

DATE:	INFORMATION:

SHEET INFORMATION:

STK PROJECT NO.: 374-166-22  
SCALE: AS NOTED  
DATE: MARCH 2023  
PLOT DATE: -  
DRAWING NAME: -

SEAL:



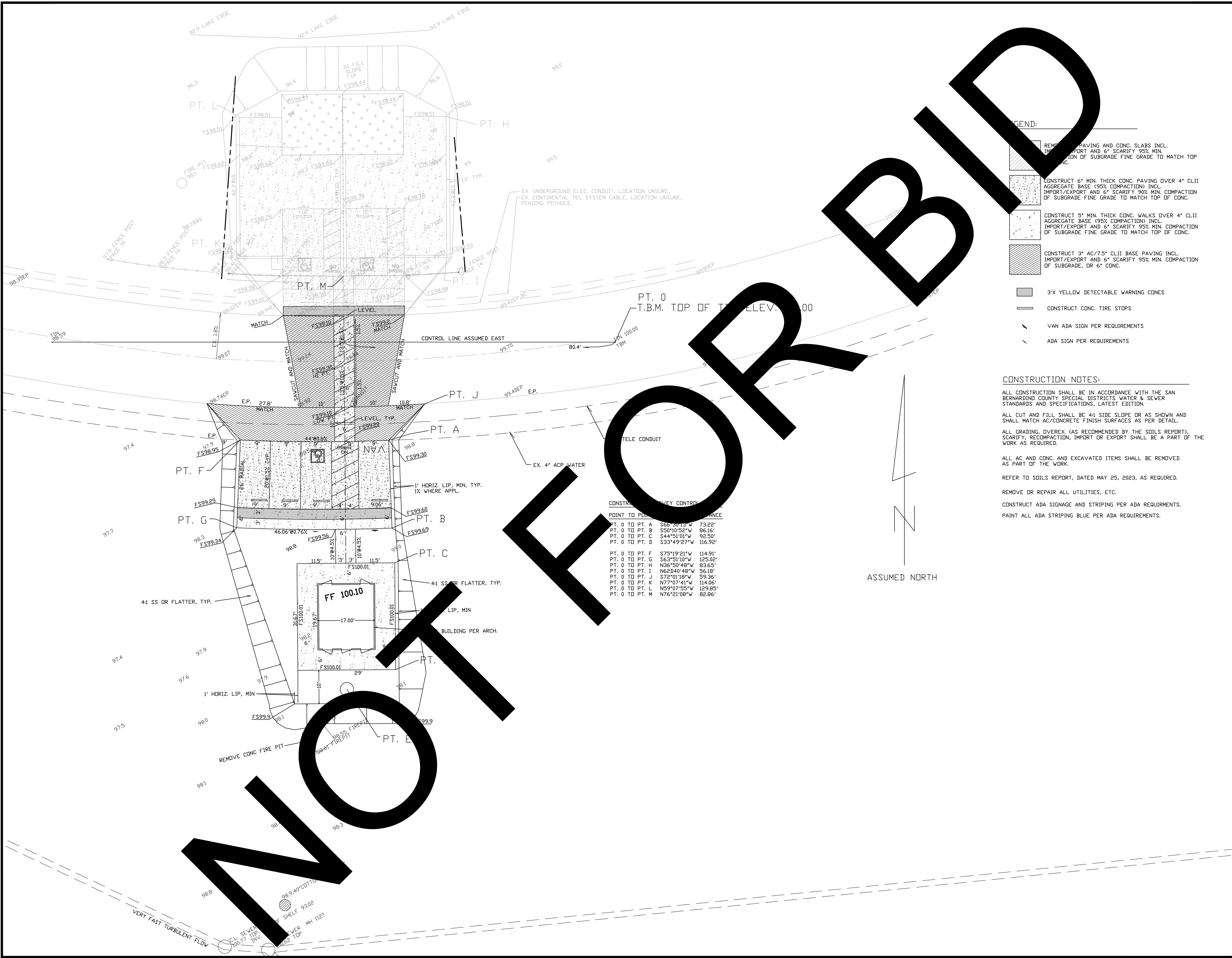
EXP. 09-30-23

SHEET TITLE:

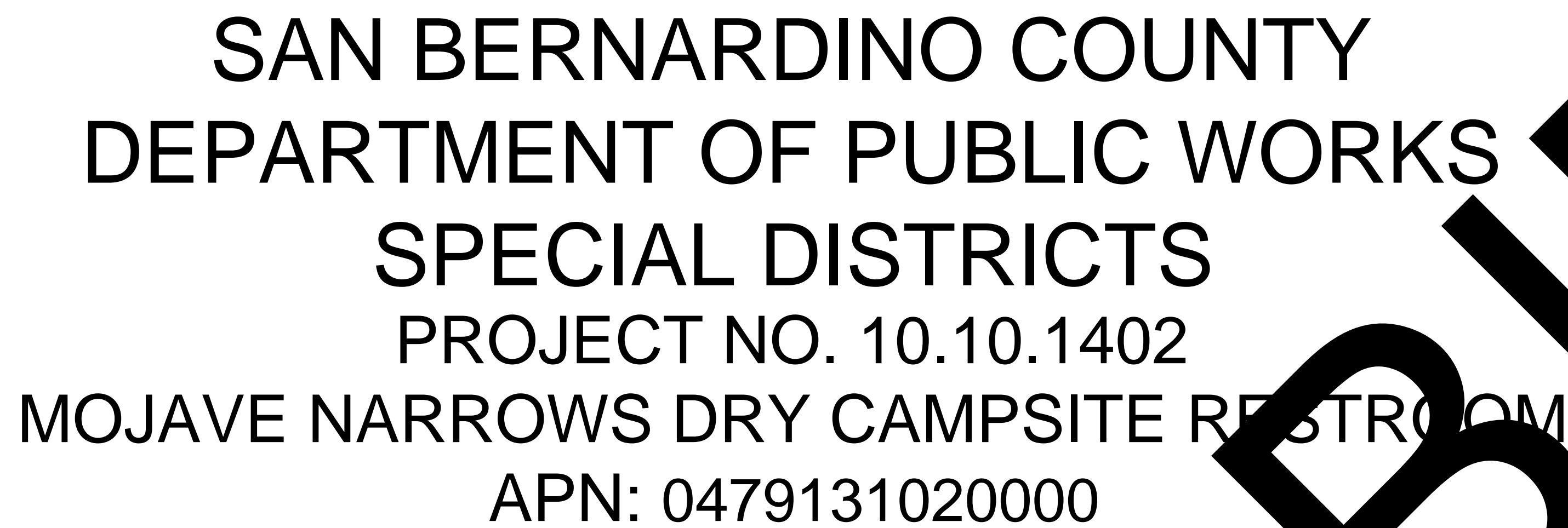
PRECISE  
GRADING PLAN

SHEET NO.:

C-1







1. THE WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND TO THE LATEST SPECIAL DISTRICTS "STANDARDS FOR DOMESTIC WATER SYSTEMS" AS POSTED ON SPECIAL DISTRICTS WEBSITE AT: <http://www.specialdistricts.org/index.aspx?page=586>
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CURRENT AND APPROVED SET OF SPECIAL DISTRICTS STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. STANDARD SPECIFICATIONS CAN BE PURCHASED AT THE SAN BERNARDINO COUNTY SPECIAL DISTRICTS OFFICE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS FOR CONSTRUCTION INSPECTION AT LEAST 48 HOURS PRIOR TO BEGINNING WORK BY CALLING DEVELOPMENT SERVICES AT (760) 955-9885 OR BY EMAIL AT DESVSERVICES@SDD.SBCOUNTY.GOV
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE ITSELF WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIG ALERT REQUESTS AND EXPLORATORY EFFORTS NECESSARY TO VERIFY ANY UNDERGROUND OBSTRUCTIONS. THE CONTRACTOR WILL BE UNILATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PIPE INCURRED WHILE BACK FILLING AND COMPACTING.
6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE, COUNTY OR LOCAL PERMITS.
7. CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT AND ENCROACHMENT PERMIT OR OTHER REQUIRED PERMITS FROM THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION, PRIOR TO ANY GRADING OR PIPELINE EXCAVATION WITHIN THE COUNTY RIGHT OF WAY BY CALLING (909) 387-7910.
8. THRUST BLOCKS SHALL BE INSTALLED PER SPECIAL DISTRICTS "STANDARDS FOR DOMESTIC WATER SYSTEMS" PER STANDARD DRAWING H-3.
9. THE CONTRACTOR SHALL NOTIFY ALL SERVING UTILITY COMPANIES 48 HOURS PRIOR TO BEGINNING ANY DITCH EXCAVATION WHEN WORK IS TO BE PERFORMED NEAR THEIR FACILITIES BY CALLING 811.
10. ALL PIPE SHALL BE CLASS 150 AND INSTALLED WITH LOCATION TAPE 18" BELOW FINISHED GRADE AND 14 GA. INSULATED WIRE TAPED TO PIPE AND BROUGHT TO SURFACE AT HYDRANTS, METER SERVICES, AIR VAC & BLOW OFFS.
11. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS OF NEW WATER MAINS IN COUNTY SERVICE AREAS WITH THE WATER AND SANITATION SUPERVISOR, 222 W. HOSPITALITY LANE, 2ND FLOOR, SAN BERNARDINO, CA 92415-0450; PHONE: (760) 955-9885 TO KEEP INTERRUPTIONS TO A MINIMUM. NO INTERRUPTIONS TO EXISTING SERVICES SHALL BE MADE UNLESS THE DISTRICT GRANTS PRIOR APPROVAL.
12. CONTRACTOR SHALL ENSURE THAT UTILITY EASEMENTS HAVE BEEN RECORDED PRIOR TO START OF WORK.
13. WATER MAIN SHALL HAVE A MINIMUM OF 48" OF COVER FROM TOP OF PIPE TO FINAL GRADE.
14. HYDRO TEST AT 200 PSI MINIMUM FOR A 2 HOUR DURATION AT LOWEST POINT IN THE WATER LINE.
15. 1" SERVICE LINES ARE TO BE INSTALLED PER STANDARD DRAWING H-4A AND H-9B.
16. METER BOXES SHALL BE PLACED WITHIN 1 FOOT MINIMUM, 3 FEET MAXIMUM FROM ADJACENT PROPERTY LINE. METER BOXES IN THE SIDEWALK SHALL HAVE CONCRETE LIDS.
17. ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION WITH COMPLETE VALVE CAP TO GRADE DIRECTLY FOLLOWING CONNECTION TO EXISTING WATER SYSTEM. SEE STANDARD DRAWING H-11.
18. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE UNDERSIGNED ENGINEER AND THE COUNTY OF SAN BERNARDINO SPECIAL DISTRICTS.
19. THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
20. ALL STATIONING IS BASED ON THE CENTER LINE OF THE STREET.
21. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS OPEN TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY THE SPECIAL DISTRICTS ENGINEER.
22. ALL PIPE DISTANCES SHOWN ARE HORIZONTAL.
23. ALL WORK SHALL BE CONSTRUCTED ACCORDING TO THE VERTICAL AND HORIZONTAL MEASUREMENTS OF THESE PLANS AND EXISTING DESIGN STANDARDS. ADEQUATE STAKES SHALL BE SET UNDER THE DIRECTION OF A LICENSED SURVEYOR/ENGINEER FOR THE CONSTRUCTOR. ALL CONSTRUCTION SURVEYING SHALL BE PERFORMED IN ACCORDANCE TO THE SURVEYING PROCEDURES OF THE SURVEYOR/ENGINEER OF RECORD. IF THIRD PARTY SUBCONTRACTORS PERFORM THE CONSTRUCTION LAYOUT AND SURVEYING FOR THIS PROJECT WITHOUT THE COORDINATION OF THE SURVEYOR/ENGINEER OR RECORD, THEY HAVE ASSUMED THE POSITION OF SURVEYOR/ENGINEER OF RECORD. THE FINAL CHECK OF THIS DESIGN IS TO BE THE CONSTRUCTION STAKING AS THE DESIGN MEETS THE EXISTING CONTROL AND ELEVATIONS. ALL EXISTING DISCREPANCIES TO THE STANDARD DESIGN CRITERIA SHALL BE BROUGHT TO THE SURVEYOR/ENGINEER OF RECORD'S ATTENTION PRIOR TO PROCEEDING WITH CONSTRUCTION. IF CONSTRUCTION CONTINUES WITHOUT VERIFICATION THE CONSTRUCTOR ASSUMES THE RESPONSIBILITY OF THE CORRECTNESS OF THE INTENDED DESIGN.
24. THE METHOD AND LOCATION OF CONNECTION TO THE PUBLIC WATER SUPPLY AND REQUIREMENTS FOR BACKFLOW PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL WATER AGENCY REQUIREMENTS.
25. CONTRACTOR TO COORDINATE WITH OTHER UTILITIES, TRADES, AND ARCHITECTURAL PLANS TO AVOID CONFLICTS AND VERIFY BUILDING TIE-IN LOCATIONS.
26. CONTRACTOR SHALL DISINFECT THE WATER LINE IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C651 PRIOR TO PLACING LINE IN SERVICE.

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS' SPECIAL DISTRICTS (SD) IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH THE PUBLIC WORKS ACT, AND DOES NOT CONSTITUTE A PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, I AGREE TO INDEMNIFY AND HOLD SD, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF ANY ENGINEER OF RECORD. I HAVE READ AND I HEREBY COMMIT THE PROJECT APPLICANT/DEVELOPER THAT APPROVAL OF THESE PLANS DO NOT RELIEVE THEM FROM THE REQUIREMENTS OF THE DESIGN CONDITIONS.

I CERTIFY THAT THE DESIGN OF THE WATER SYSTEM IS IN ACCORDANCE WITH THE REQUIREMENTS PRESCRIBED BY THE SAN BERNARDINO COUNTY FIRE DEPARTMENT.

AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY:

1. SPECIAL DISTRICTS - WATER AND SANITATION DIVISION: DEVELOPMENT SERVICES - (760) 955-9885
2. PERMIT AGENCY: COUNTY OF SAN BERNARDINO - (909) 387-8311
3. UNDERGROUND SERVICE ALERT (USA): 811
4. ALL OTHER AFFECTED AGENCIES THAT ARE NOT MEMBERS OF USA ALERT

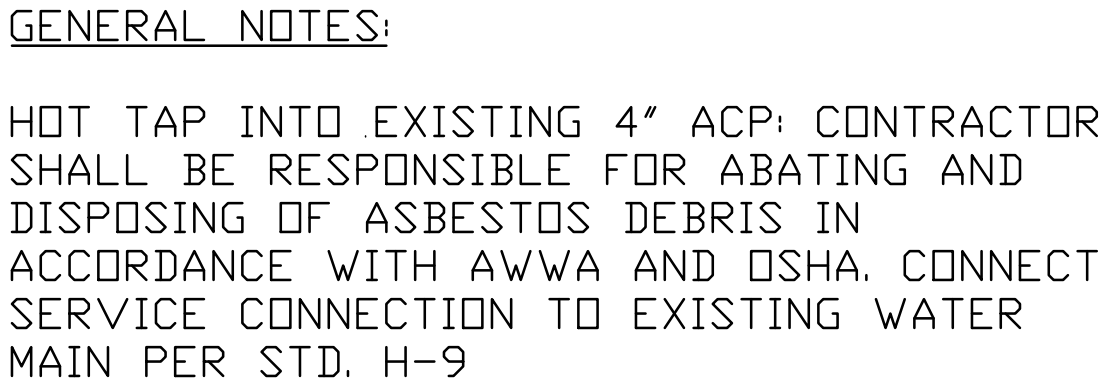
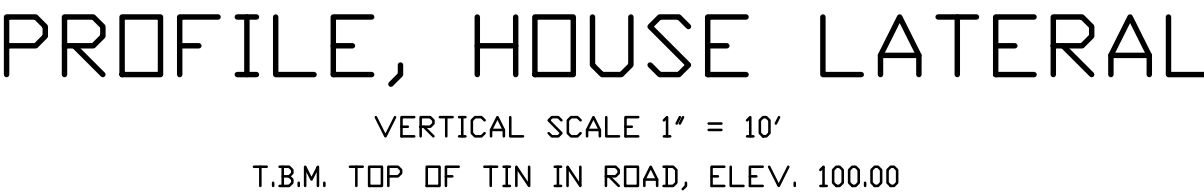
THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE TWELVE (12) MONTHS FROM THE DATE ON THE APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, SD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO SD FOR POSSIBLE CHANGES IN SPECIFICATIONS AND STANDARDS.

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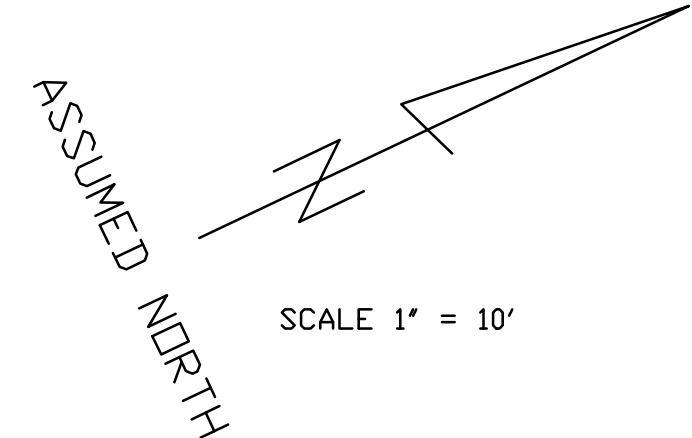




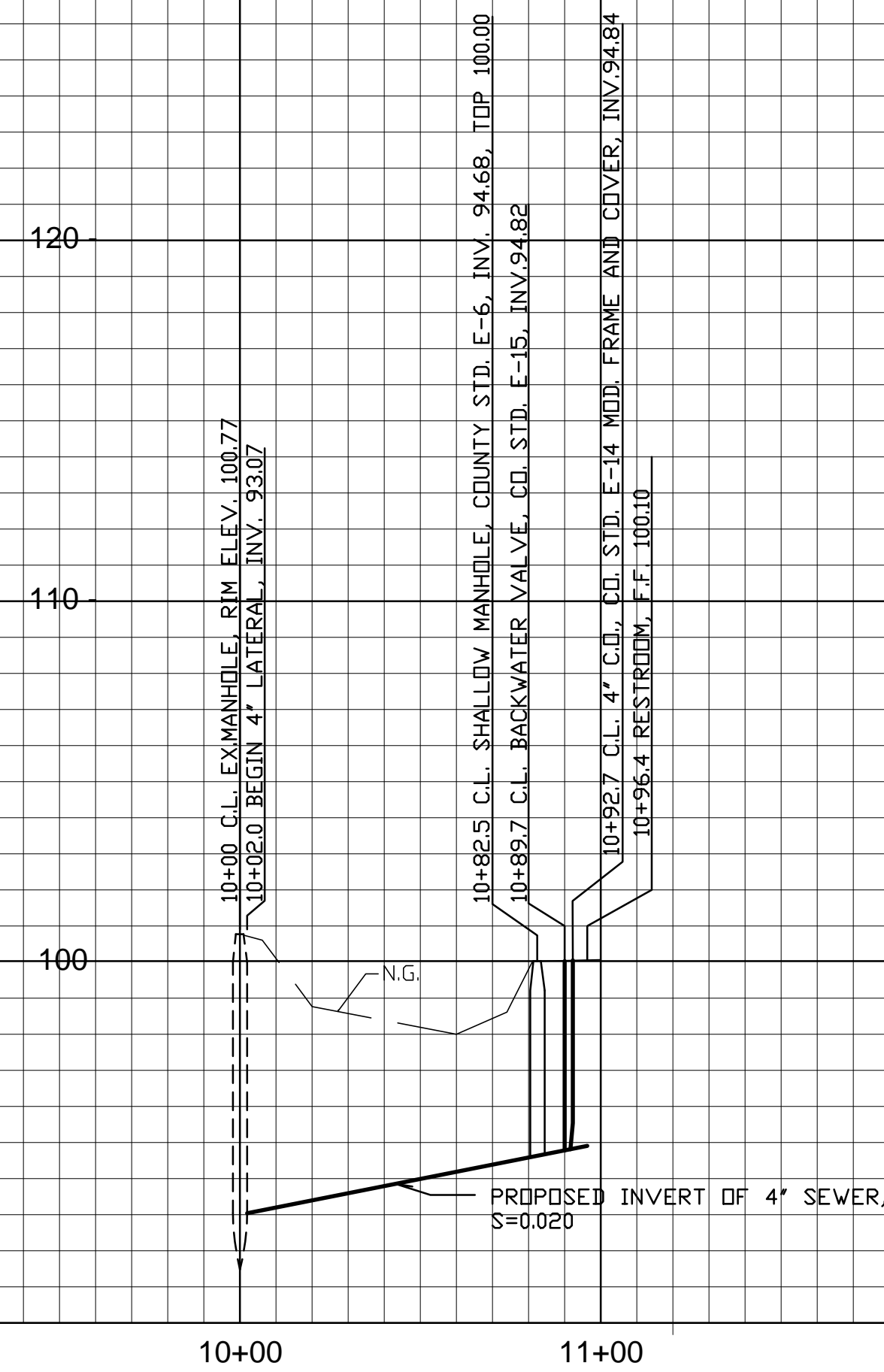


A BACKFLOW SHALL BE INSTALLED TO PREVENT CONTAMINATION OF THE WATER LINE PER STD. H-14.

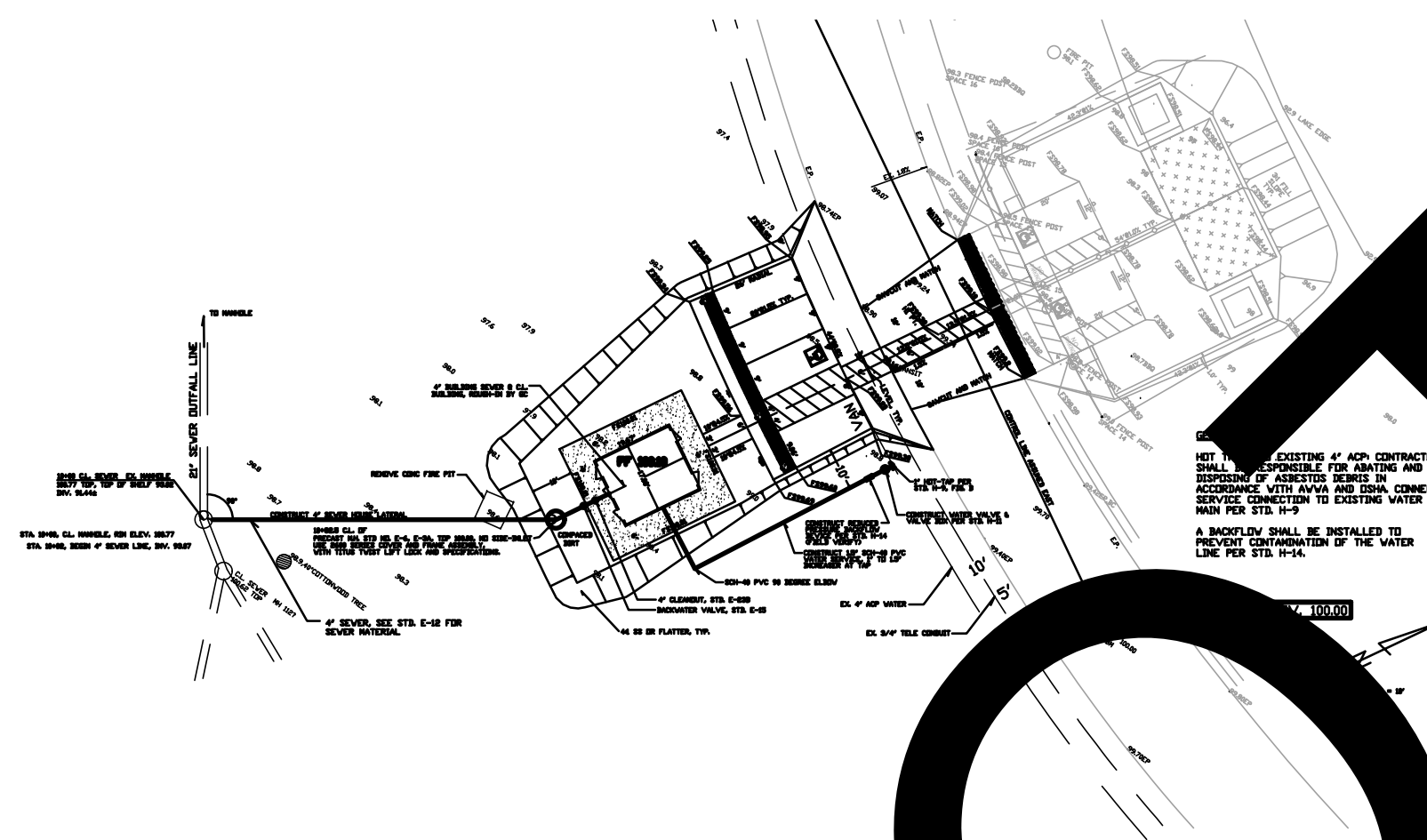
T.B.M. TOP OF TIN, ELEV. 100.00







PROFILE: HOUSE LATERAL  
HORIZ. 1"=40'  
VERT. 1"=4'

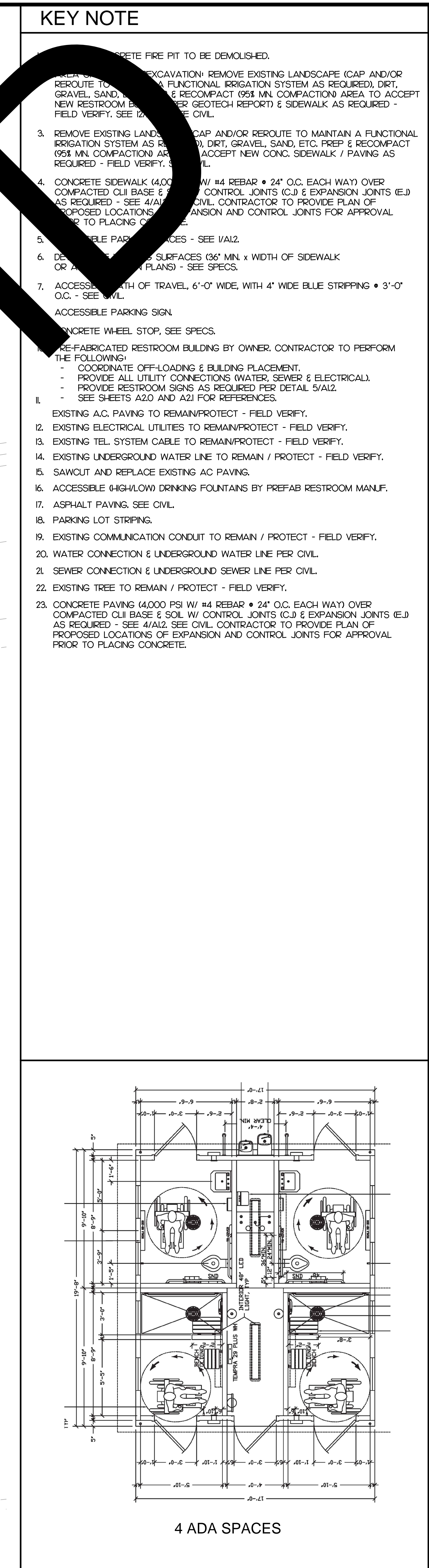
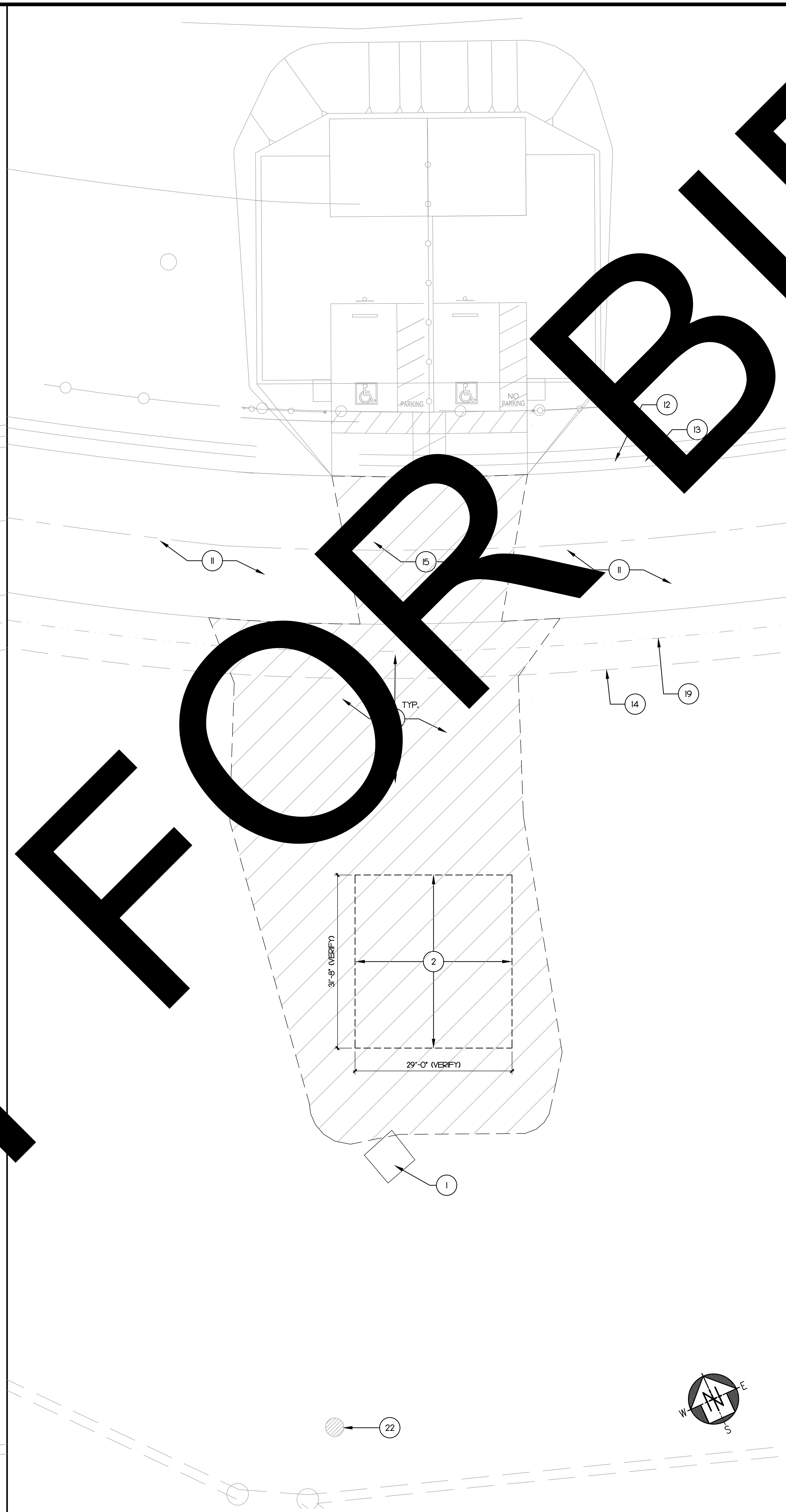
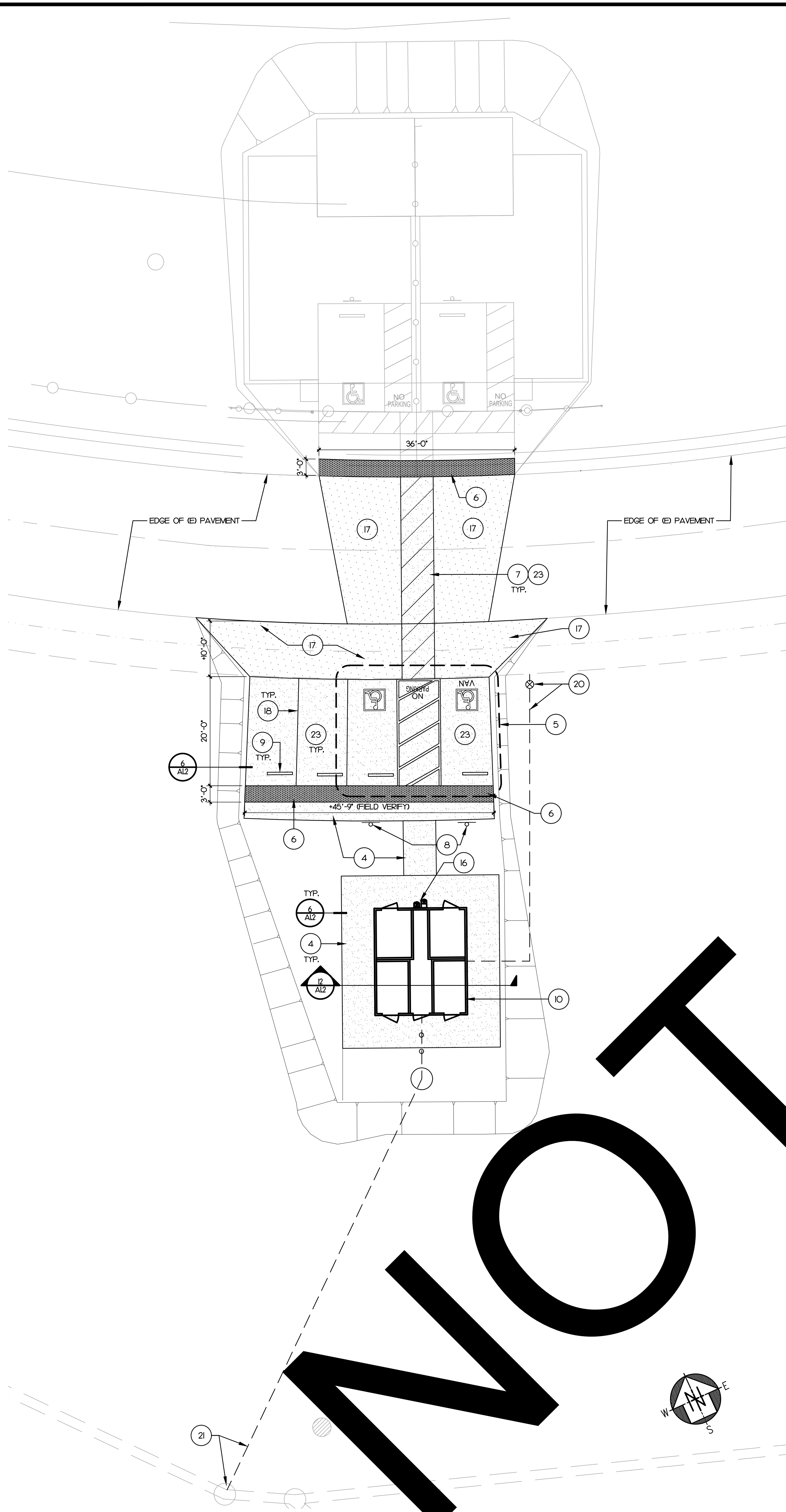


PLAN VIEW HOUSE MATERIAL



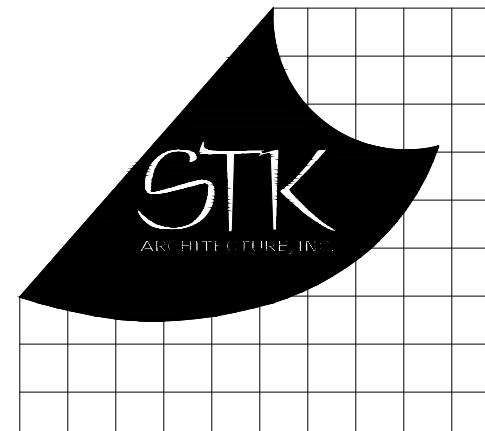


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## KEY NOTE

1. CONCRETE FIRE PIT TO BE DEMOLISHED.
2. AREA SURROUNDING EXCAVATION: REMOVE EXISTING LANDSCAPE (CAP AND/OR REROUTE TO MAINTAIN A FUNCTIONAL IRRIGATION SYSTEM AS REQUIRED), DIRT, GRAVEL, SAND, ETC. PREP & RECOMPACT (95% MIN. COMPACTION) AREA TO ACCEPT NEW RESTROOM BUILDING. REFER GEOTECH REPORT) & SIDEWALK AS REQUIRED - FIELD VERIFY. SEE 12/16/22 FOR CIVIL.
3. REMOVE EXISTING LANDSCAPE (CAP AND/OR REROUTE TO MAINTAIN A FUNCTIONAL IRRIGATION SYSTEM AS REQUIRED), DIRT, GRAVEL, SAND, ETC. PREP & RECOMPACT (95% MIN. COMPACTION) AREA TO ACCEPT NEW CONCRETE SIDEWALK / PAVING AS REQUIRED - FIELD VERIFY. SEE 12/16/22 FOR CIVIL.
4. CONCRETE SIDEWALK (4,000 PSI W/ #4 REBAR @ 24" O.C. EACH WAY) OVER COMPACTED CLI BASE & SOIL W/ CONTROL JOINTS (C.J.) & EXPANSION JOINTS (E.J.) AS REQUIRED - SEE 4/A1/2. SEE CIVIL. CONTRACTOR TO PROVIDE PLAN OF PROPOSED LOCATIONS OF EXPANSION AND CONTROL JOINTS FOR APPROVAL PRIOR TO PLACING CONCRETE.
5. ACCESSIBLE PARKING SPACES - SEE 1/A1/2.
6. DEMOLITION OF EXISTING SURFACES (36" MIN. x WIDTH OF SIDEWALK OR 24" MIN. x WIDTH OF SIDEWALK) - SEE SPECS.
7. ACCESSIBLE WIDTH OF TRAVEL, 6'-0" WIDE, WITH 4" WIDE BLUE STRIPPING @ 3'-0" O.C. - SEE CIVIL.
8. ACCESSIBLE PARKING SIGN.
9. CONCRETE WHEEL STOP. SEE SPECS.
10. PREFABRICATED RESTROOM BUILDING BY OWNER. CONTRACTOR TO PERFORM THE FOLLOWING:
  - COORDINATE OFF-LOADING & BUILDING PLACEMENT.
  - PROVIDE ALL UTILITY CONNECTIONS (WATER, SEWER & ELECTRICAL).
  - PROVIDE RESTROOM SIGNS AS REQUIRED PER DETAIL 5/A1/2.
  - SEE SHEETS A2/0 AND A2/1 FOR REFERENCES.
11. EXISTING A/C PAVING TO REMAIN/PROTECT - FIELD VERIFY.
12. EXISTING ELECTRICAL UTILITIES TO REMAIN/PROTECT - FIELD VERIFY.
13. EXISTING TEL. SYSTEM CABLE TO REMAIN/PROTECT - FIELD VERIFY.
14. EXISTING UNDERGROUND WATER LINE TO REMAIN / PROTECT - FIELD VERIFY.
15. SAWCUT AND REPLACE EXISTING AC PAVING.
16. ACCESSIBLE (HIGH/LOW) DRINKING FOUNTAINS BY PREFAB RESTROOM MANUF.
17. ASPHALT PAVING. SEE CIVIL.
18. PARKING LOT STRIPING.
19. EXISTING COMMUNICATION CONDUIT TO REMAIN / PROTECT - FIELD VERIFY.
20. WATER CONNECTION & UNDERGROUND WATER LINE PER CIVIL.
21. SEWER CONNECTION & UNDERGROUND SEWER LINE PER CIVIL.
22. EXISTING TREE TO REMAIN / PROTECT - FIELD VERIFY.
23. CONCRETE PAVING (4,000 PSI W/ #4 REBAR @ 24" O.C. EACH WAY) OVER COMPACTED CLI BASE & SOIL W/ CONTROL JOINTS (C.J.) & EXPANSION JOINTS (E.J.) AS REQUIRED - SEE 4/A1/2. SEE CIVIL. CONTRACTOR TO PROVIDE PLAN OF PROPOSED LOCATIONS OF EXPANSION AND CONTROL JOINTS FOR APPROVAL PRIOR TO PLACING CONCRETE.



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Phone: 951.296.9110 Fax: 951.296.6079 Email: sb@stk.com

CONSULTANT

PROJECT ADMINISTERED BY:  
SAN BERNARDINO COUNTY  
PROJECT AND FACILITIES  
MANAGEMENT DEPARTMENT


385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415

PROJECT NAME:  
MOJAVE NARROWS  
REGIONAL PARK  
DRY CAMPSITE ADA  
RESTROOM

PROJECT #10J01402

18000 YATES ROAD  
VICTORVILLE, CA 92392

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SHEET TITLE:  
SITE PLANS

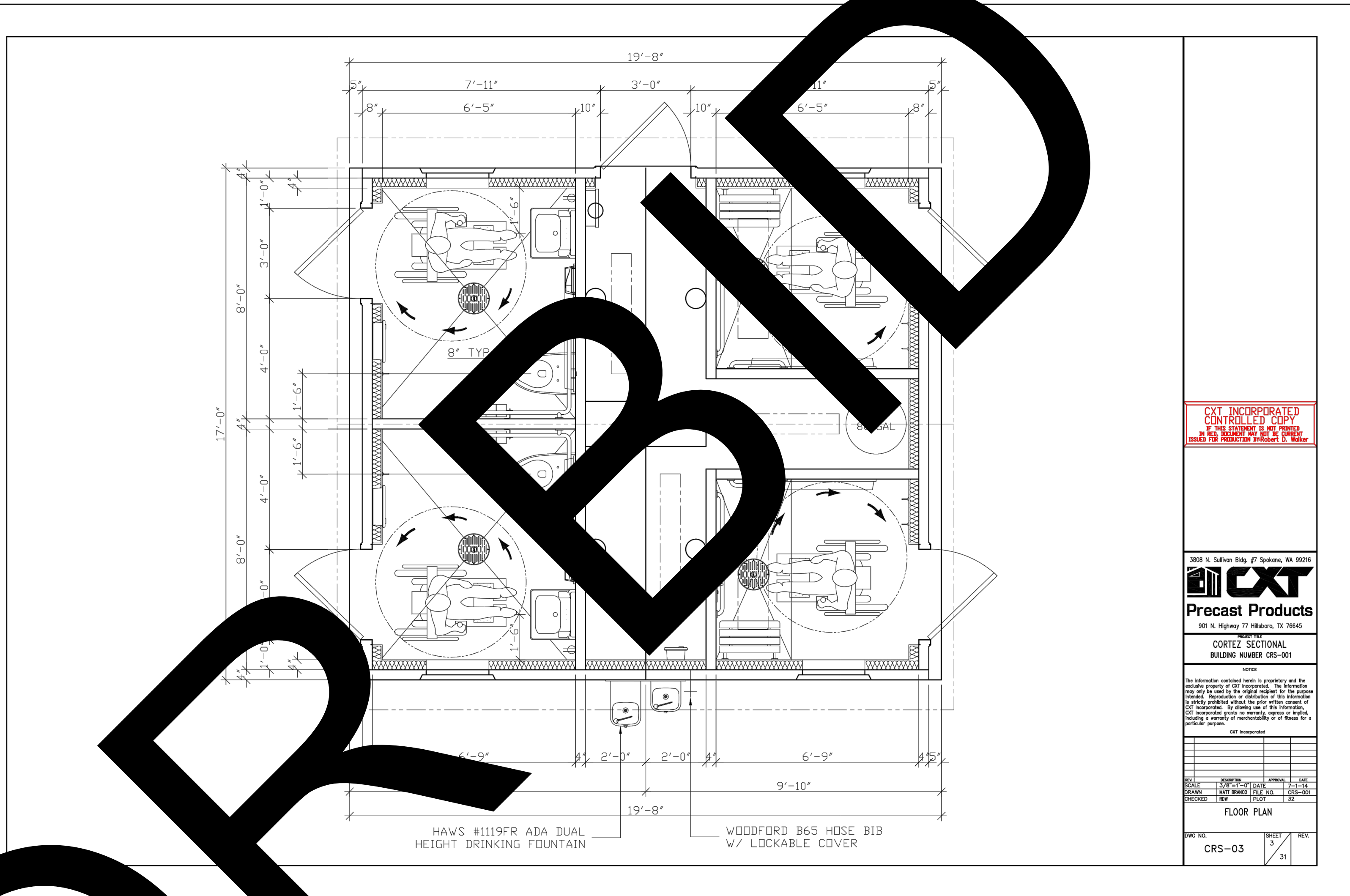
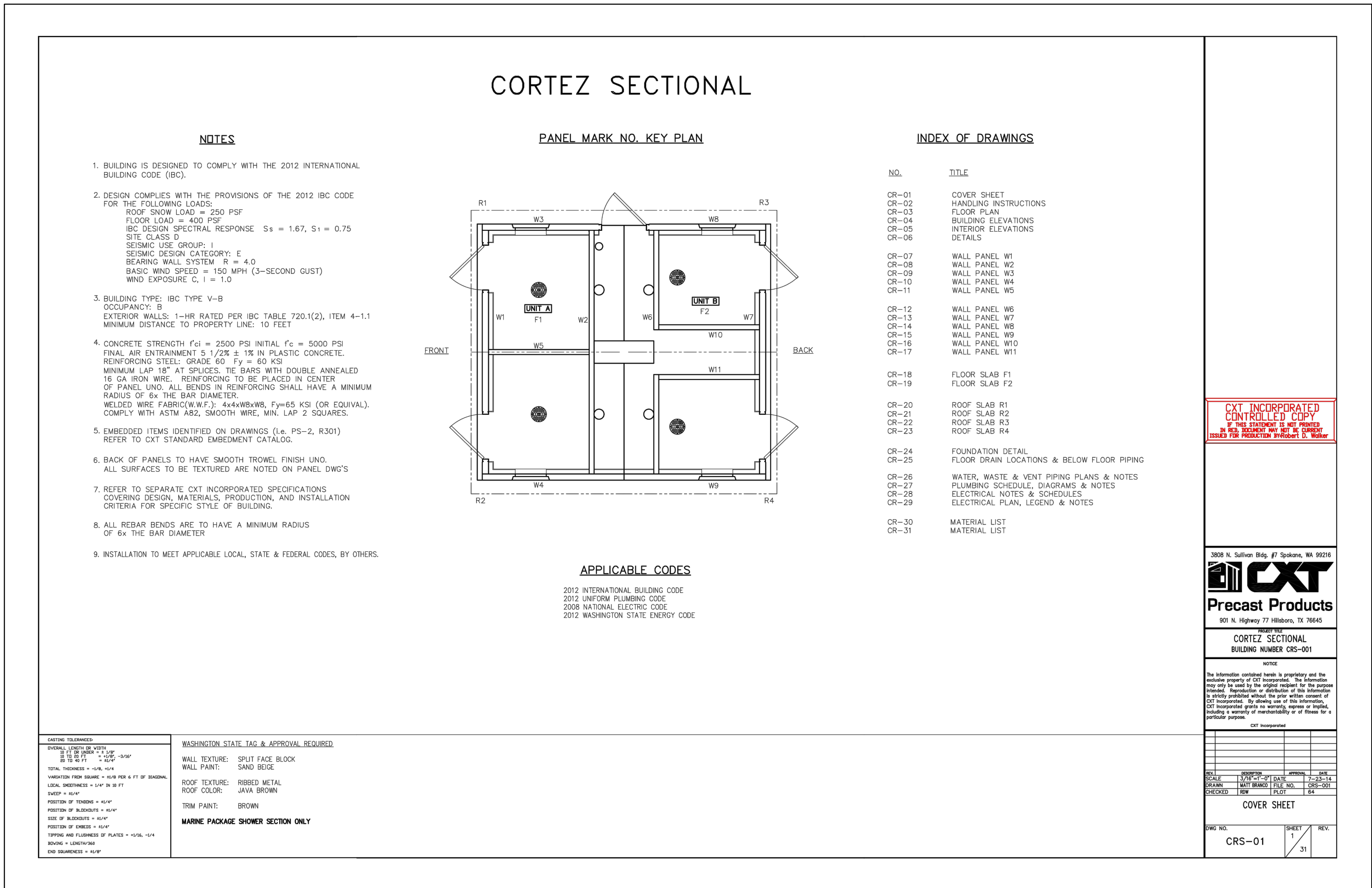
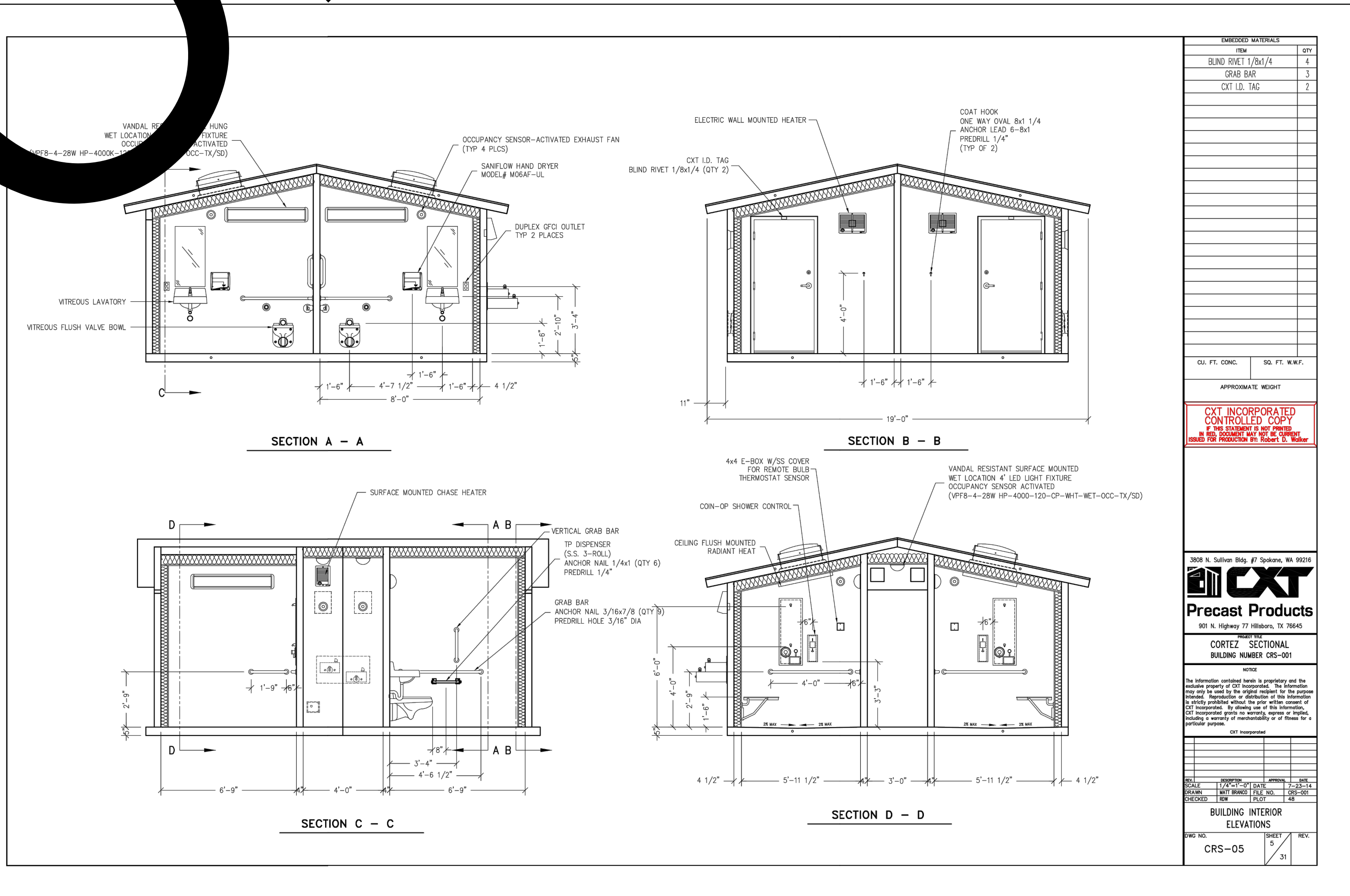
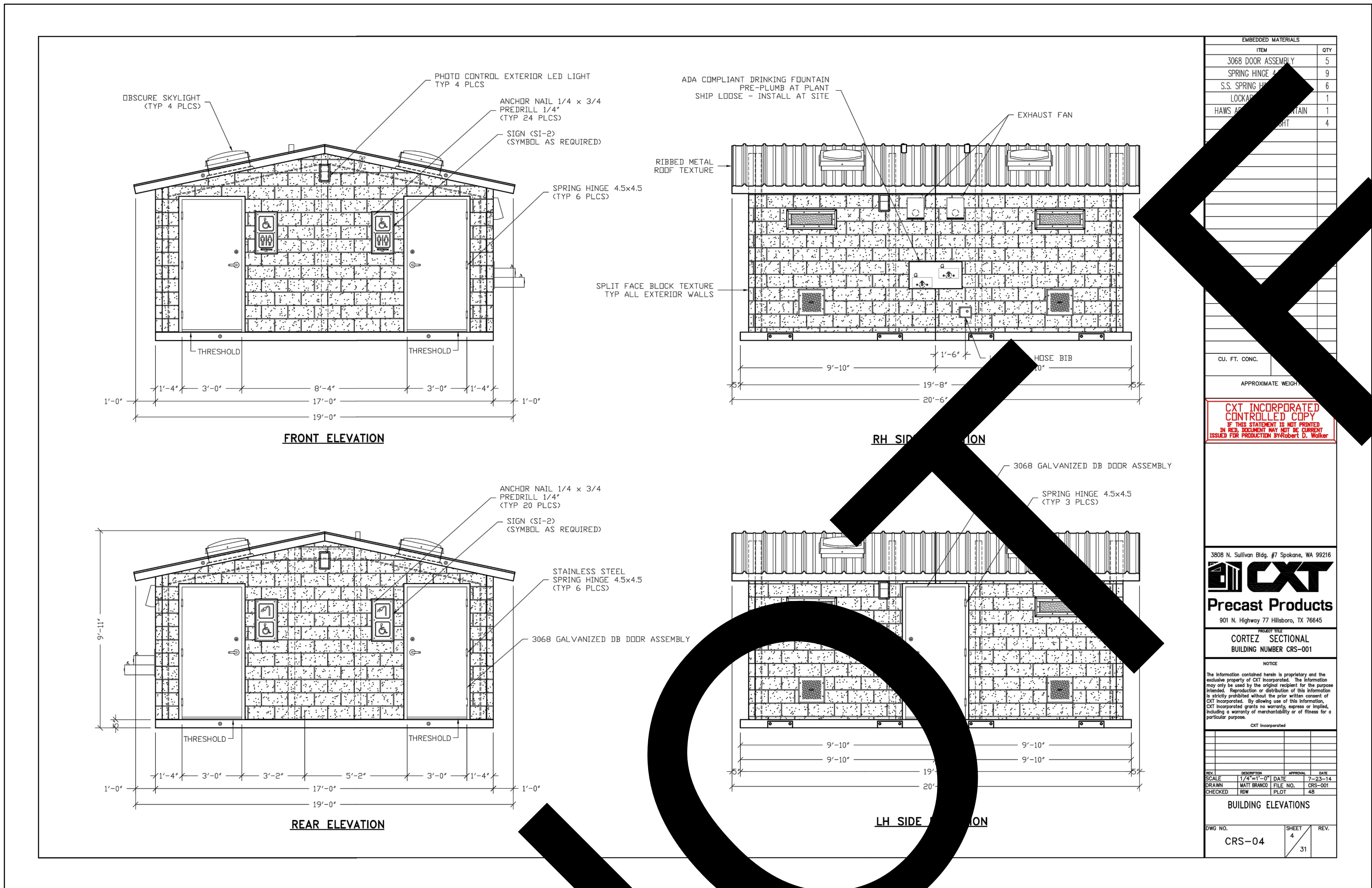
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NOT FOR

NOTES:  
THE DRAWING & NOTES SHOWN ON THIS SHEET IS FOR INFORMATION & REFERENCES ONLY. THIS IS AN OWNER PURCHASED & DELIVERED TO THE SITE, INCLUDING CRANE SERVICES. CONTRACTOR TO COORDINATE WITH OWNER FOR BUILDING DELIVERY & ACCEPTANCE

NOTE:  
THIS FACTORY ASSEMBLED BUILDING AS CONSTRUCTED PROVIDES A RIGID BOX TYPE STRUCTURAL SYSTEM. VERTICAL LOADS ARE TRANSFERRED PRIMARILY THROUGH BEARING WALLS TO A PREPARED GRANULAR SUB-BASE WHICH DISSIPATES VERTICAL LOADS UNIFORMLY TO THE NATIVE SUBGRADE AND ALSO ACTS AS A FIRST BARRIER. DUE TO THE INHERENT STIFFNESS OF THE BUILDING, IT WILL REMAIN SAFE AND STRUCTURALLY SOUND IN THE EVENT OF A FREELING ACTION BELOW THE BUILDING.

LATERAL LOADS ARE TRANSFERRED TO THE GROUND THROUGH FRICTIONAL RESISTANCE WITHOUT SLIDING OR SHEARING BETWEEN THE BUILDING FLOOR SLAB AND THE PREPARED SOIL AND GRAVEL SUB-BASE ON WHICH THE BUILDING RESTS. SEISMIC ANALYSES ARE BASED ON LOADS DETERMINED IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE USING PARAMETERS WHICH MEET OR EXCEED THE CODE PRESCRIBED REQUIREMENTS FOR THIS INSTALLATION.

THIS BUILDING, AS DESIGNED, RESTING ON A PROPERLY PREPARED GRANULAR SUB-BASE WILL BE SAFE AND STRUCTURALLY SOUND FOR VERTICAL AND LATERAL LOADS AS DISCUSSED ABOVE. A FULL DEPTH FOUNDATION WALL AT THE BUILDING PERIMETER, TYPICAL FOR OTHER TYPES OF BUILDING CONSTRUCTION, IS NOT REQUIRED FOR THIS BUILDING.

3855 N. Sullivan Way, #7 Spokane, WA 99201

**CXT**  
Precast Products

CORTEZ SECTIONAL  
BUILDING NUMBER CRS-001

NOTE:  
The information contained herein is proprietary and the building owner or user of this information is not to be used for any other project without the written consent of CXT. CXT assumes no liability for any damage or injury resulting from the use of this information, including any and all consequential damages, without limitation, in any event.

DATE	DESCRIPTION	BY	CHK
03/21/2023	ISSUED FOR PERMIT	JLM	JLM

CRS-24

BELOW FLOOR PIPING DETAIL NOTES

- 4" CLEAN OUT TO GRADE
- 2" FLOOR DRAIN FIELD INSTALLATION BY OTHER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (4"-0" x 1'-6" BLOCKOUT)
- 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (8" DIA BLOCKOUT)
- 3" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (8" DIA BLOCKOUT)
- 1/2" TYPE K ANNEALED COPPER WATER SERVICE EXTENDED 12" ABOVE FINISHED FLOOR PROVIDE CAPPING PLUG. (8" x 1'-6" BLOCKOUT)
- 2" VENT PIPES TO BE PROVIDED TO PROTECT FROM BACKFLOW DAMAGE.
- 2" FLOOR DRAIN FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (10" DIA BLOCKOUT)
- 30" MIN. BURY, PROVIDE TRACER TAPE.
- ELECTRICAL STUB UP, (8" DIA BLOCKOUT)
- 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (8" DIA BLOCKOUT)

PIPING LEGEND

BELOW FLOOR  
VENT PIPING  
SCH. 40 ABS  
TYPE DWV

1 1/2" TYPE "K" ANNEALED "SOFT" COPPER WATER SERVICE

3855 N. Sullivan Way, #7 Spokane, WA 99201

**CXT**  
Precast Products

CORTEZ SECTIONAL  
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DATE	DESCRIPTION	BY	CHK
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CRS-25

42095 DEVOR DR. TEMECULA, CALIFORNIA 92590-3780  
Phone: 951.296.9110 Fax: 951.296.6079 Email: [stk@stkinc.com](mailto:stk@stkinc.com)

CONSULTANT

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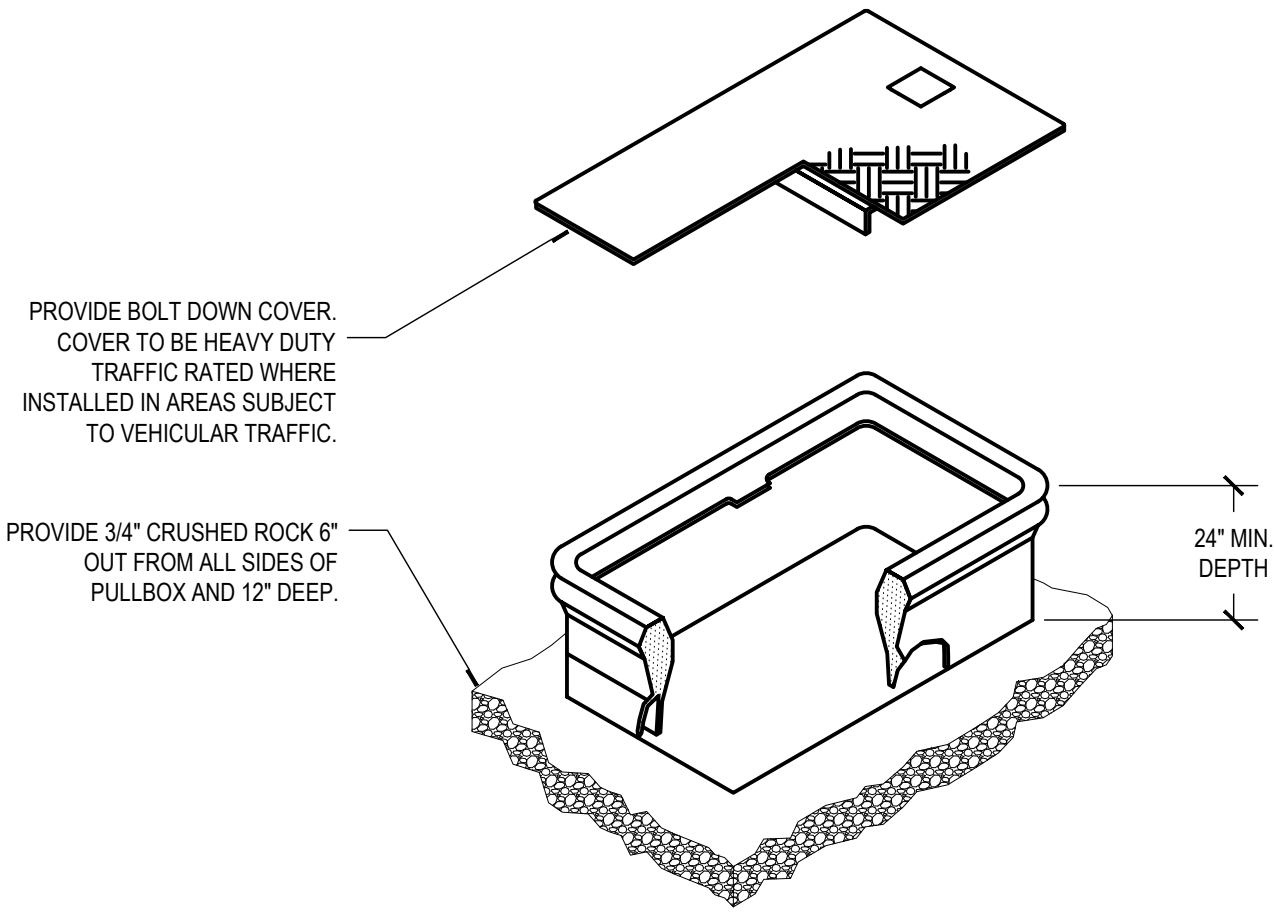
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PREFABRICATED  
RESTROOM /  
SHOWER

SHEET NO.:  
A2.1

FOR REFERENCE ONLY



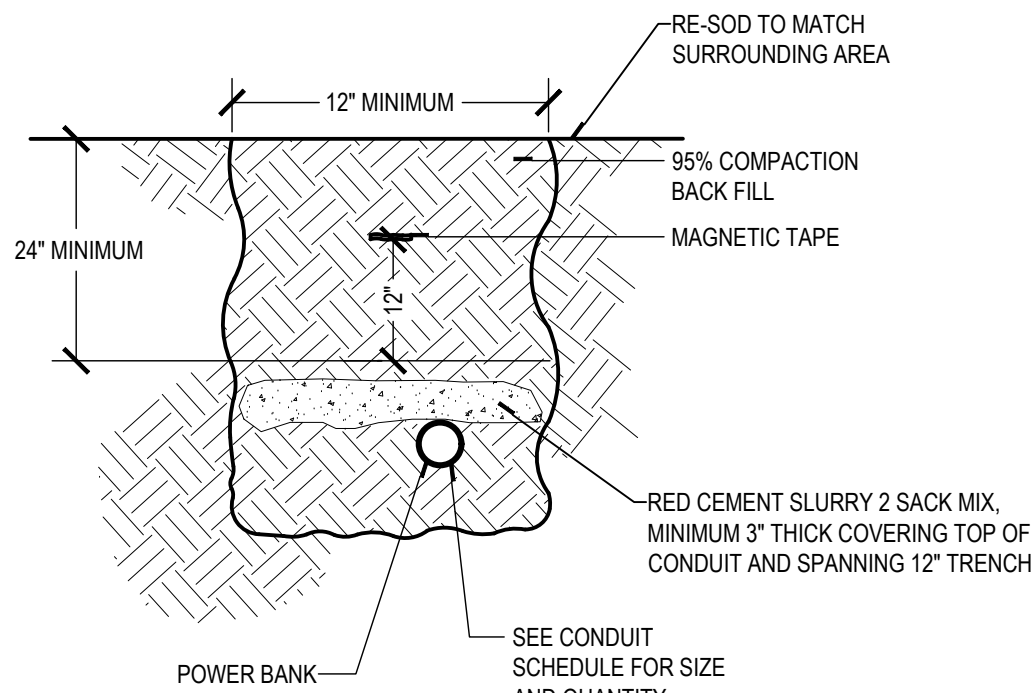
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- GENERAL NOTES:**
- PULLBOX TO BE SIZED PER NEC, U.O.N.
  - PROVIDE COVER LABELED WITH "POWER" OR "DATA" DESIGNATION.
  - PROVIDE WITH LOCKABLE LID.

## PULLBOX INSTALLATION

1

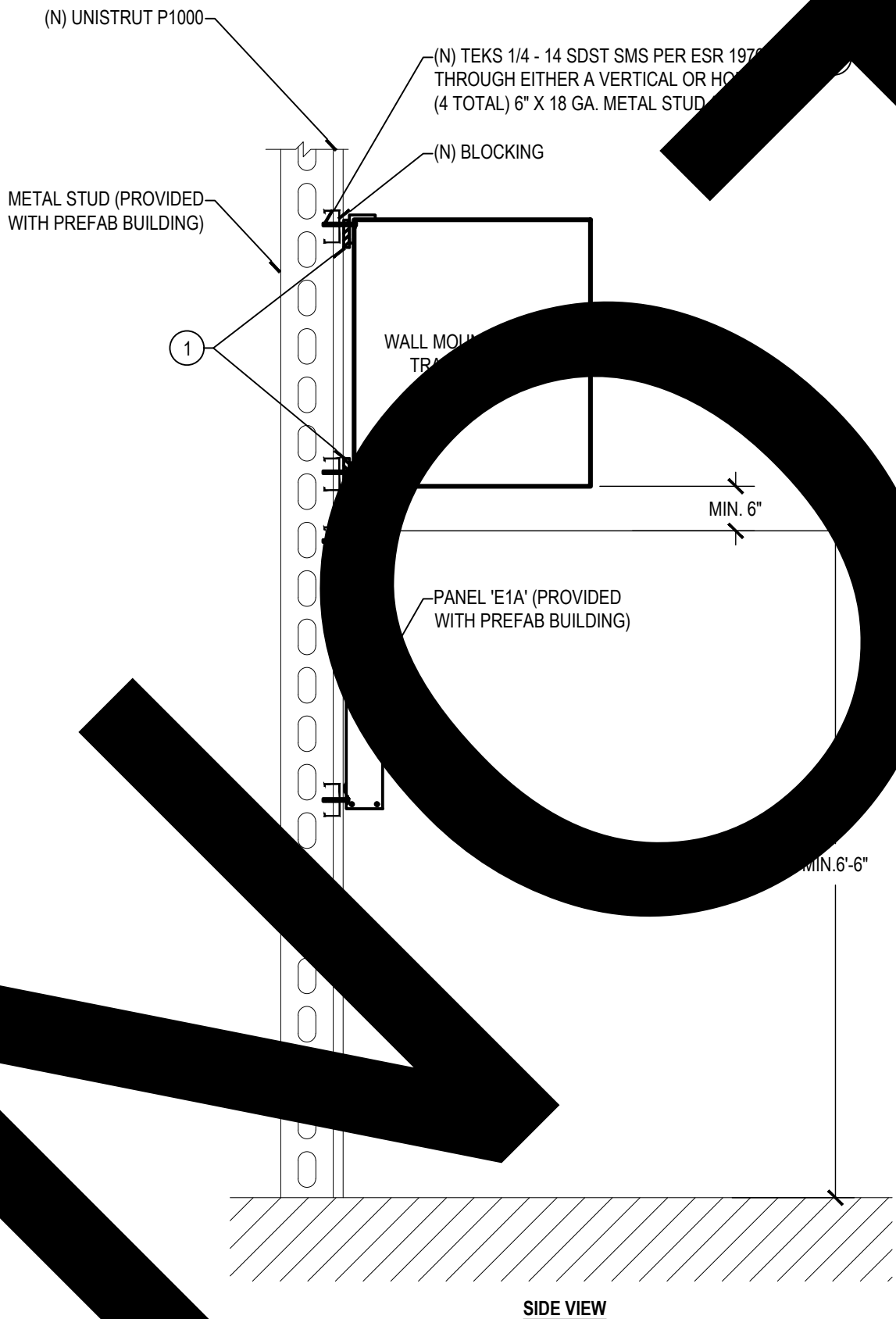


## TRENCH AND CONDUIT DETAIL

2

- GENERAL NOTES:**
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF TRANSFORMER FRAME PRIOR TO CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEISMIC RESTRAINT SYSTEM PER SMACNA PUBLICATION AND GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL EQUIPMENT AND CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, DIVISION 22.

- CONSTRUCTION NOTES:**
- PROVIDE ISOLATION PADS MINIMUM 1" THICK. TRANSFORMER SHALL BE SECURED TO METAL STRUCTURE.
  - VERIFY WEIGHT CAPACITY OF TEK SCREWS AND ADJUST SIZE FOR WEIGHT OF TRANSFORMER AND PANELBOARD.



## WALL MOUNTED PANEL WITH TRANSFORMER ABOVE

3

## GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CODE OF FEDERAL REGULATIONS (CFR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
- WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
- CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELLS/STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
- WHERE ELECTRIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
- FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
- PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R.
- NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
- DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
- ALL ELECTRICAL POWER, LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
- ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
- ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB'S, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:
  - 125A OR LESS - 60°C OR MORE.
  - MORE THAN 125A - 75°C OR MORE.
- ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
- CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER AND LISTED FOR 90 DEGREE APPLICATIONS.
  - BRANCH CIRCUITS - LIGHTING AND POWER.
  - FEEDERS: TYPE THW OR THHN/THWN-2, OR XHHW-2.
  - WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED MANNER FOR USE IN CONCRETE OR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR UNDERGROUND.
  - ALL SWITCH LOCATIONS ARE REQUIRED TO HAVE A NEUTRAL CONDUIT PROVIDED AT THE SWITCH LOCATION PER NEC 404.2(C).
  - UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDING CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDING CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
  - BASIS OF ELECTRICAL DESIGN LIMITS VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS. ANY CHANGES MADE IN THE FIELD SHALL LIMIT VOLTAGE DROP TO 5% TOTAL.
  - BRANCH CIRCUIT CONDUITS SHALL BE CONCEALED IN WALLS AND CEILING SPACES. EXPOSED CONDUITS ARE NOT ALLOWED WHERE CONCEALED METHODS ARE AVAILABLE.
  - CONTRACTOR SHALL PROVIDE CONDUIT SCHEDULES FOR ALL BRANCH CIRCUITS AND FEEDERS. FOR CIRCUIT SIZES NOT SHOWN, REFER TO PANEL SCHEDULES FOR CONDUIT SIZES AND CONDUIT TYPES.
  - EXACT ROUTING METHOD AND LOCATION OF CONDUIT PENETRATION THROUGH WOOD ROOF DECKS, WALL, FLOORS OR STRUCTURAL MEMBERS SHALL BE DETERMINED BY THE CONTRACTOR IN FIELD. PERFORM CORRESPONDING FINISHING OF EXISTING WALLS AND SURFACES TO MATCH SURROUNDING AREA. PENETRATION SHALL BE SEALED IN AN APPROVED METHOD TO MEET REQUIREMENTS OF PARTICULAR WALL, FLOOR OR CEILING. ALL FIRE SEALS SHALL BE INSTALLED PRIOR TO CONSTRUCTION. CONCRETE WALLS AND SLABS FOR PENETRATION OF REBAR AND/OR OTHER CUTTING OR CUTTING WORK IS INVOLVED. CONTRACTOR SHALL PROVIDE CERTIFICATION OF CALIBRATION OF CONDUIT WIRING EQUIPMENT PRIOR TO FIELD WORK.
  - ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CALIFORNIA ELECTRICAL CODE OF REGULATIONS (CER) AND THE NATIONAL ELECTRICAL CODE (NEC).

## ABBREVIATIONS

A	AMPERE	NEC	NATIONAL ELECTRICAL CODE
AF	AMPERE FRAME RATING (CIRCUIT BREAKER)	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
AFG	ABOVE FINISHED GRADE	NF	NON-FUSED
AFC	AMPERE FUSE RATING (FUSE)	NIC	NOT IN CONTRACT
AIC	AMPERE INTERRUPTING CAPACITY	NIL	NIGHT LIGHT
AS	AMPERE SWITCH RATING (FUSE)	NO	NUMBER, NORMALLY OPEN
AT	AMPERE TRIP RATING (CIRCUIT BREAKER)	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
BKBD	BACKBOARD	OD	OUTSIDE DIAMETER
BLDG	BUILDING	P	POLE
BKR	BREAKER	PB	PULL BOX
C	CONDUIT	PF	POWER FACTOR
CB	CIRCUIT BREAKER	PNL	PANEL
CKT	CIRCUIT	POC	POINT OF CONNECTION
CFSD	COMBINATION FIRE SMOKE DAMPER	PP	POWER POLE
CO	CONDUIT ONLY	PWR	POWER
CT	CURRENT TRANSFORMER	PVC	POLYVINYL CHLORIDE
CU	COPPER	DISC	DISCONNECT
CL	CENTERLINE	DBSN	DISTRIBUTION SECTION
DN	DOWN	DN	DOWN
DWG	DRAWING	EA	EACH
EA	EACH	EC	ELECTRIC CONTRACTOR
EC	ELECTRIC CONTRACTOR	EM	EMERGENCY
EM	EMERGENCY	EMT	ELECTRICAL METALLIC TUBING
EMT	ELECTRICAL METALLIC TUBING	EXIST (E)	EXISTING
EXIST (E)	EXISTING	EXO	EXTERNAL OPERABLE DISCONNECT
EXO	EXTERNAL OPERABLE DISCONNECT	F	FUSE
F	FUSE	FA	FIRE ALARM
FA	FIRE ALARM	FACP	FIRE ALARM CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL	FF	FINISHED FLOOR
FF	FINISHED FLOOR	FG	FINISHED GRADE
FG	FINISHED GRADE	FLA	FULL LOAD CURRENT
FLA	FULL LOAD CURRENT	GEN	GENERATOR
GEN	GENERATOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	GRD	GROUND
GRD	GROUND	GROUND	GROUND
GROUND	GROUND	HV	HIGH VOLTAGE
HV	HIGH VOLTAGE	IDF	INTERMEDIATE DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME	IG	ISOLATED GROUND
IG	ISOLATED GROUND	ISC	ISOLATED GROUND
ISC	ISOLATED GROUND	J-BOX	JUNCTION BOX
J-BOX	JUNCTION BOX	KMIL	KILO METERS AND CIRCULAR MILS
KMIL	KILO METERS AND CIRCULAR MILS	KV	KILO VOLT
KV	KILO VOLT	KVA	KILO VOLT-AMPERE
KVA	KILO VOLT-AMPERE	LDF	LOW VOLTAGE DISTRIBUTION FRAME
LDF	LOW VOLTAGE DISTRIBUTION FRAME	LGL	LOW VOLTAGE LOAD
LGL	LOW VOLTAGE LOAD	LTO	LOW VOLTAGE
LTO	LOW VOLTAGE	LV	LOW VOLTAGE
LV	LOW VOLTAGE	MANUF	MANUFACTURER
MANUF	MANUFACTURER	MAX	MAXIMUM
MAX	MAXIMUM	MCC	MOTOR CONTROL CENTER
MCC	MOTOR CONTROL CENTER	MIN	MINIMUM
MIN	MINIMUM	M/H	MANHOLE / METAL HALIDE
M/H	MANHOLE / METAL HALIDE	M/S	METER AND MAIN SECTION
M/S	METER AND MAIN SECTION	MV	MEDIUM VOLTAGE
MV	MEDIUM VOLTAGE	NC	NORMALLY CLOSED
NC	NORMALLY CLOSED		

## SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
E0.1	ELECTRICAL LEGENDS AND NOTES
E0.2	SINGLE LINE DIAGRAM
E1.1	ELECTRICAL SITE PLAN
E2.1	ENLARGED ELECTRICAL PLAN

### SCOPE OF WORK:

CONNECTING NEW PREFABRICATED RESTROOM BUILDING TO EXISTING ON SITE UTILITIES.

## POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
	PANELBOARD, WALL MOUNTED. SEE PLANS AND SCHEDULE. (SURFACE MOUNTED)
	BRANCH CIRCUIT, WALL MOUNTED. SEE PLANS AND SCHEDULE. (RECESSED MOUNTED)
	MAIN SWITCH, WALL MOUNTED OR LIGHT, FLOOR, STANDING ENCLOSURE. (SEE SINGLE LINE DIAGRAM AND SCHEDULE FOR DETAILS)
	DISCONNECT SWITCH. RATED 600 VOLTS RATED. "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURER'S SHOP DRAWINGS.
	MOUNTING HEIGHT FROM FLOOR TO BOTTOM LINE OF OUTLET OR EQUIPMENT. FOR LIGHT FIXTURES, IT IS FROM BOTTOM OF FIXTURE.
	CONDUIT STUBBED ABOVE GROUND. SIZE AND QUANTITIES PER PLANS.
	CONDUIT CONCEALED UNDER FLOOR. 3/4" U.O.N. COORDINATE WITH G.C. OR, BURIAL CONDUIT UNDER FLOOR. PER SCHEDULE - 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCH WIDTH PER S.C.
	DETAIL REFERENCE
	GROUND WELL
	EXISTING (DASH INDICATES) ELECTRICAL EQUIPMENT
	MOLDED CASE CIRCUIT BREAKER
	SWITCH AND FUSE ASSEMBLY
	UTILITY COMPANY PULL SECTION LUGS
	GROUNDING CONNECTION TO MAIN BUILDING GROUND SYSTEM U.O.N.
	GROUNDING CONNECTION AT SWITCHGEAR/DISTRIBUTION BOARD WITH NEUTRAL BONDING.
	IN-LINE UTILITY COMPANY METER
	UTILITY METER WITH CIRCUIT TRANSFORMERS (CT'S) METER
	TRANSFORMER WITH SECONDARY GROUND. REFER TO SINGLE LINE DIAGRAM FOR KVA RATING AND GROUNDING REQUIREMENTS.
	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
	CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED "ELECTRICAL" OR "COMM" ACCORDING TO USE.

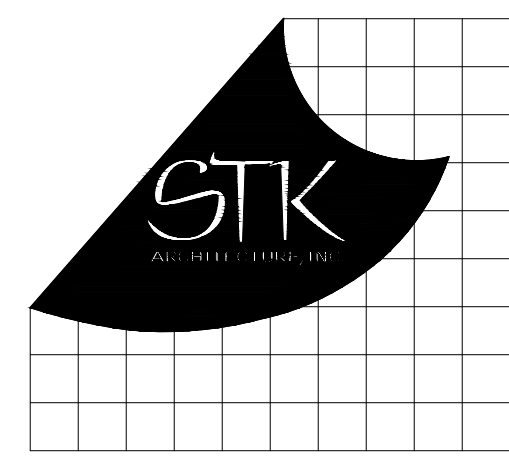
## APPLICABLE CODES

- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (IMC WITH AMENDMENTS)
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
- 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.

## NOTE TO CONTRACTOR

### DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.



CONSULTANT:



PROJECT ADMINISTERED BY:  
SAN BERNARDINO COUNTY  
PROJECT AND FACILITIES  
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415

PROJECT NAME:

MOJAVE NARROWS  
REGIONAL PARK  
DRY CAMPSITE  
ACCESSIBLE RESTROOMS

PROJECT #10.10.1402

18000 YATES ROAD  
VICTORVILLE, CA 92392

### ISSUE INFORMATION:

DATE:	INFORMATION:

### SHEET INFORMATION:

STK PROJECT NO.: 374-166-22  
SCALE: AS NOTED  
DATE: MARCH 2023  
PLOT DATE: -  
DRAWING NAME: -

SEAL:



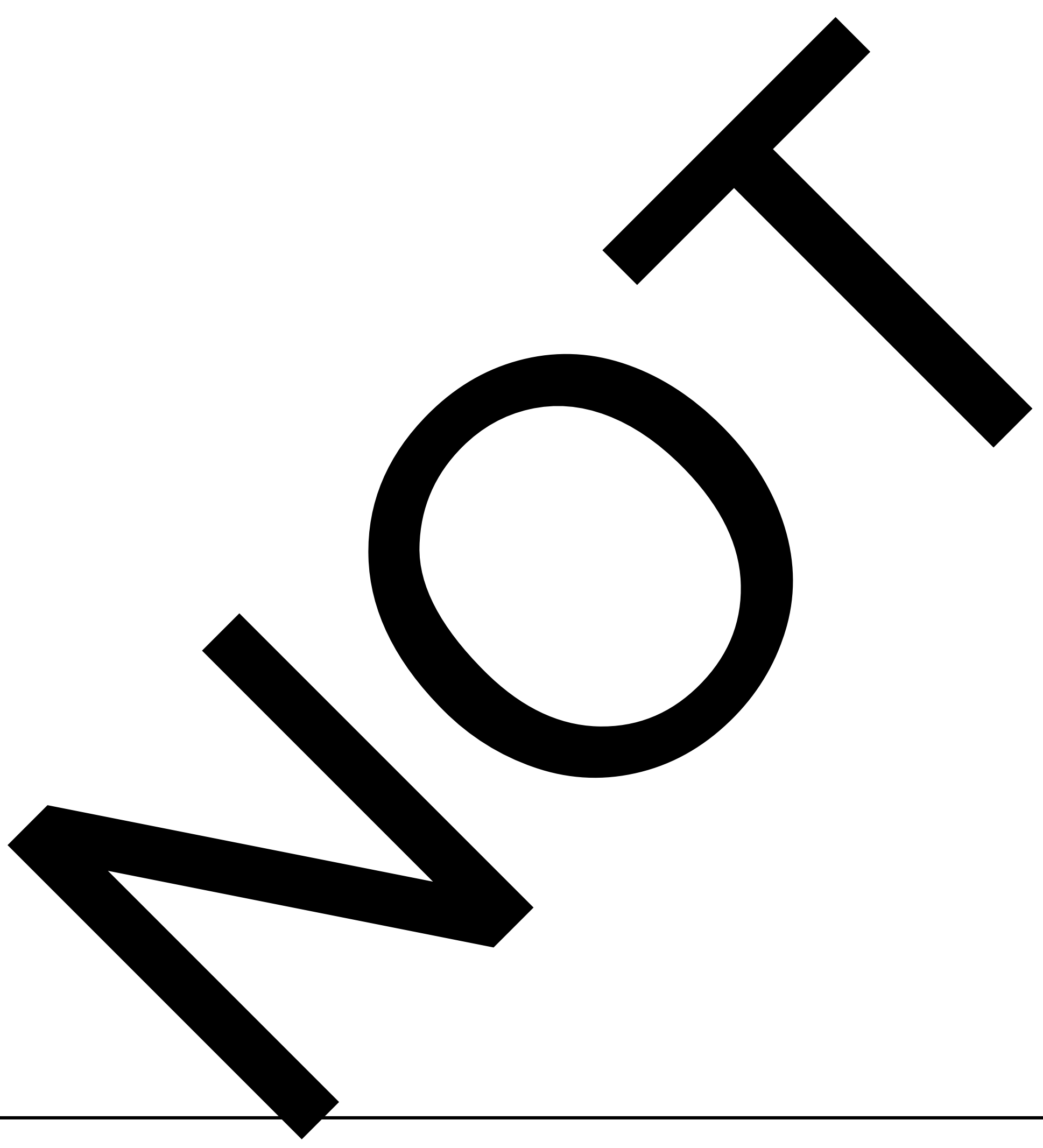
SHEET TITLE:

ELECTRICAL  
LEGENDS AND  
NOTES

SHEET NO.:

E0.1





<b>LABEL</b>	<b>TYPE</b>	<b>SETS</b>	<b>PHASE</b>	<b>NEUTRAL</b>	<b>GROUND</b>	<b>CONDUIT</b>
<b>20-S</b>	20A-2W	1	2 # 12	N/A	1 # 12	3/4"
<b>30-S</b>	30A-2W	1	2 # 10	N/A	1 # 10	3/4"
<b>40-S</b>	40A-2W	1	2 # 8	N/A	1 # 10	1"
<b>50-S</b>	50A-2W	1	2 # 6	N/A	1 # 10	1"
<b>60-S</b>	60A-2W	1	2 # 6	N/A	1 # 10	1"
<b>70-S</b>	70A-2W	1	2 # 4	N/A	1 # 8	1"
<b>80-S</b>	80A-2W	1	2 # 3	N/A	1 # 8	1-1/4"
<b>90-S</b>	90A-2W	1	2 # 2	N/A	1 # 8	1-1/4"
<b>100-S</b>	100A-2W	1	2 # 1	N/A	1 # 8	1-1/4"
<b>125-S</b>	125A-2W	1	2 # 1	N/A	1 # 6	1-1/2"
<b>150-S</b>	150A-2W	1	2 # 10	N/A	1 # 6	1-1/2"
<b>175-S</b>	175A-2W	1	2 # 10	N/A	1 # 6	2"
<b>200-S</b>	200A-2W	1	2 # 30	N/A	1 # 6	2"

**NOTE:**  
 ALL CONDUCTOR SIZES ARE BASED ON TYPE THHN COPPER CONDUCTOR UNLESS OTHERWISE NOTED. THE AMPLITUDE OF CONDUCTORS SHALL BE BASED ON THE TERMINALS NOT TO EXCEED 60°C FOR CONDUCTOR SIZE #14 THROUGH #1 AWG OR 75°C FOR CONDUCTOR SIZE OVER #1 AWG AS PER NEC 110.14(C).

1

1. REFER TO GENERAL NOTES ON ELECTRICAL LEGENDS AND NOTES SHEET FOR WIRING METHODS, MATERIALS, AND REQUIREMENTS.
2. ALL CIRCUIT BREAKERS, PANELBOARDS AND TRANSFORMERS SHALL BE OF THE SAME MANUFACTURER.
3. ALL GROUND CONNECTIONS SHALL BE CAWDED.
4. AVAILABLE FAULT AT SERVICE POINT SHALL BE CONSIDERED AT 30,000 RMS AS.
5. ALL PANELBOARDS SHALL BE FULLY RATED FOR THE AVAILABLE FAULT, BEING OTHERWISE NOTED.
6. FEEDER LENGTHS SHOWN ON THESE DRAWINGS ARE FOR CALCULATION PURPOSES ONLY AND ARE NOT VALID FOR BIDDING.
7. ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS AT OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE FOLLOWING AVAILABLE FAULT CURRENT PER CIRC. 110.24. THE FIELD CALCULATIONS SHALL INCLUDE THE DATE THE FIELD CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND WEATHERING. THE AVAILABLE FAULT CURRENT CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE EQUIPMENT. WHEN MODIFICATIONS TO THE AVAILABLE FAULT CURRENT INSTALLATION OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE, THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT AVAILABLE CURRENT IS SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT. THE REQUIRED FIELD MARKING IN 110.24(A) SHALL BE ADDED TO REFLECT THE NEW LEVELS OF MAXIMUM AVAILABLE FAULT CURRENT.
8. EQUIPMENT DATA AND CONFIGURATIONS SHOWN ON THE SINGLE LINE DIAGRAM PROVIDE GENERAL EQUIPMENT INFORMATION. CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND SPECIFICATIONS TO VERIFY ALL EQUIPMENT ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DEPICTIONS, DESCRIPTIONS, AND EXISTING CONDITIONS ARE TO BE PRESENTED TO THE ENGINEER OR RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION. NO EQUIPMENT SHALL BE INSTALLED UNTIL DISCREPANCIES ARE RESOLVED THROUGH A FORMER RP PROCESS.
9. PROVIDE ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANELS AND DISTRIBUTION DEVICES, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLES 250.
10. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION DEVICES, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED NAME AND MODEL NUMBER. THE NAMEPLATE SHALL BE MOUNTED ON A MINIMUM 4" HIGH HOUSEKEEPING PAD WHICH EXTENDS 4" BEYOND EQUIPMENT IN ALL DIRECTIONS.
11. ANY FLOOR-STANDING ELECTRICAL EQUIPMENT (I.E. INVERTERS, DISTRIBUTION DEVICES, SWITCHBOARDS, ITS SWITCHES, MOTOR CONTROL CENTERS, ETC.) WHICH ARE MOUNTED ABOVE GRADE AND ARE NOT SECURELY FASTENED TO THE FRAME SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
12. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COST FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT CONDUCTORS, ETC.
13. CONTRACTOR SHALL FURNISH AND INSTALL MISSING FILLER PLATES IN PANELBOARD/CONDUCTOR THAT IS BEING REUSED.
14. ALL CONDUCTOR TERMINATIONS SHALL BE TIGHTENED TO MANUFACTURER RECOMMENDATIONS USING AN APPROVED METHOD.
15. ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH NAMEPLATES REFER TO SPECIFICATIONS. IN ADDITION, EACH DISCONNECT MUST BE IDENTIFIED WITH (1) DISCONNECT TYPE AND (2) DISCONNECTED CIRCUIT SOURCE THAT SUPPLIES DISCONNECTING MEANS. (110.22)

- ① PROVIDE NEW CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL BOARD. TYPE TO MATCH EXISTING. AIC RATING TO BE GREATER THAN AVAILABLE FAULT CURRENT.
- ② (1) #6 CU. BOND TO DRIVEN GROUND ROD, SIZED PER NEC TABLE 250.66.
- ③ NEW PANELBOARD TO BE SUPPLIED AS PART OF PREFAB RESTROOM BUILDING.
- ④ PROVIDE DISCONNECT TO CONNECT TO LARGE SIZE CONDUCTOR OR REDUCER TO CONNECT LARGER SIZED CONDUCTOR TO DISCONNECT

PROJECT #10.10.1402

23-010



NOTES

UPPER POND

TENT  
CAMPING

FRONT  
PASTURE

UPPER  
POND

1. THE CONTRACTOR SHALL INSPECT AND VERIFY ALL FIELD CONDITIONS PRIOR TO INSTALLATION OF NEW WORK.
2. COORDINATE TRENCH ROUTING AND EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS AND NEW WORK.
3. ALL SITE BRANCH CIRCUIT WIRING SHALL BE #10 AWG. OR LARGER.
4. CONTRACTOR SHALL UTILIZE "SP" GROUND PENETRATING RADAR TO SURVEY AND TRACE ALL EXISTING UNDERGROUND UTILITY LINES IN AREAS WHERE NEW TRENCHING IS PLANNED. CONTRACTOR TO SUBMIT "GPR" REPORT TO PROJECT MANAGER FOR REVIEWING PRIOR TO TRENCHING.
5. INSTALL UNDERGROUND CONDUIT TO BE 1" MIN. UNLESS OTHERWISE NOTED.
6. ALL JUNCTION BOXES SHALL BE 18" DIA. MIN. UNLESS OTHERWISE NOTED.
7. ALL JUNCTION BOX(S) EVERY 10'-0" AND WITHIN 3'-0" OF ANY JUNCTION BOX OR CONDUIT.

- 1 UTILIZE A CORING CONTRACTOR TO CORE 4' MINIMUM BELOW WATER RUN-OFF AREA FOR INSTALLATION OF NEW UNDERGROUND CONDUITS. PROVIDE NECESSARY EQUIPMENT, SHORING, SUMP AREA, ETC. FOR A COMPLETE INSTALLATION.
- 1 PROVIDE (2) 2" SPARE CONDUITS AND TERMINATE WITH PULL STRING IN UNDERGROUND PULL BOXES. LABEL AS SPARE FROM MAIN SWITCHBOARD "DP2".

CONSULTANT:



385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415

MOJAVE NARROWS  
REGIONAL PARK  
DRY CAMPSITE  
ACCESSIBLE RESTROOMS

PROJECT #10.10.1402

ISSUE INFORMATION:

DATE:	INFORMATION:
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**SHEET INFORMATION:**

STK PROJECT NO.: 374-166-22

SCALE: AS NOTED

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PLOT DATE:

PLOT DATE: —  
DRAWING NAME:

DRAWING NAME:

SEAL:



## ELECTRICAL SITE PLAN

SHEET NO.:

## E1.1

10

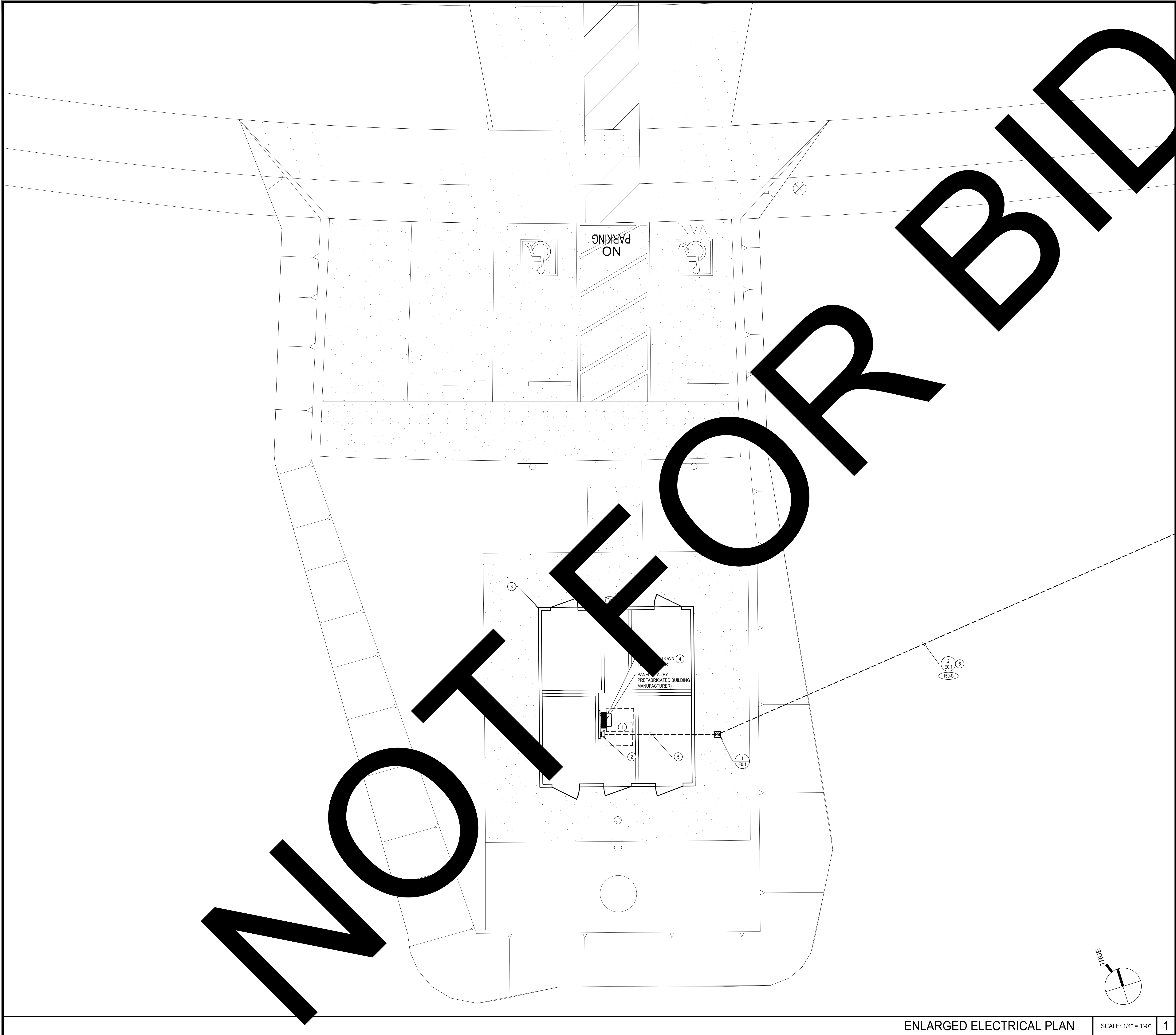
ELECTRICAL SITE PLAN

SCALE: 1" = 60'-0"

1

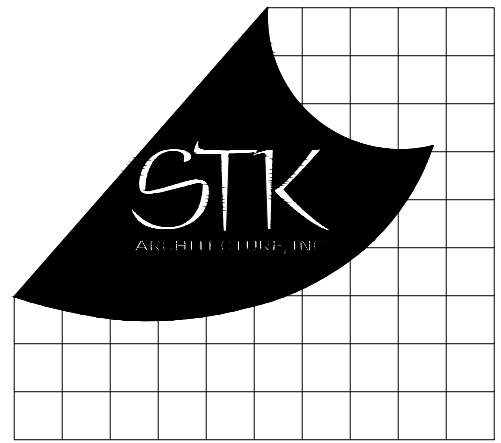


JEKVTEORNEWDEL PROJECT 2023.02.10 MOJAVE NARROWS REGIONAL PARK DRY CAMPSITE ADJ23-010 E ENGRDPRN - 2023.05.15 - JEFF MULLENAX  
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GENERAL NOTES

1. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN A SPACE EXTENDING FROM FLOOR TO A HEIGHT OF 6' ABOVE THE EQUIPMENT. CEC 110.28(E).
2. SEE PREFAB DRAWINGS FOR LIGHTING CALCULATIONS, TITLE 24 AND ALL OTHER POWER REQUIREMENTS INCLUDING PANEL SCHEDULE. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R.



CONSULTANT:



DESIGN WEST ENGINEERING  
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

PROJECT ADMINISTERED BY:  
SAN BERNARDINO COUNTY  
PROJECT AND FACILITIES  
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415

PROJECT NAME:  
MOJAVE NARROWS  
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PROJECT #10.10.1402

18000 YATES ROAD  
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SEAL:



SHEET TITLE:

ENLARGED  
ELECTRICAL PLAN

SHEET NO.:

E2.1

23-010

ENLARGED ELECTRICAL PLAN

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

1