

REFERENCE DOC 2

An aerial photograph of the Los Angeles area, showing the city grid and the San Gabriel River. The river flows from the top left towards the center, with a large reservoir or lake area visible on the left. The city grid is dense and covers most of the right side of the image. The San Gabriel River is visible on the right side, flowing towards the bottom right. The image is in black and white, with a high level of detail showing the urban layout and natural features.

3202 DAIRY DRIVE
MADISON, WI 53718

4' CLEAR SITE ENTRY —

PERIMETER FENCE —

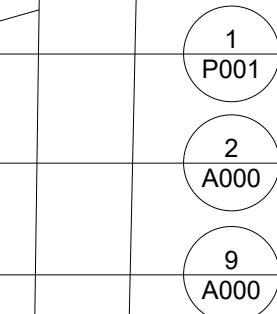
PROPERTY LINE —

TRANSFORMER —

(2) OCCUPANT
SHELTER BY OTHERS

ELECTRICAL SERVICE

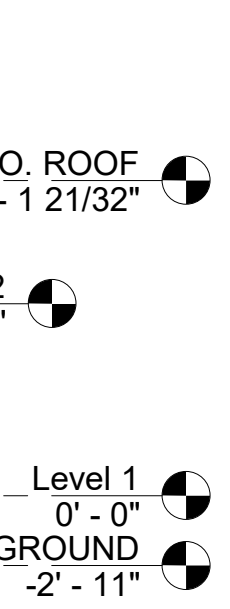
DAIRY DR



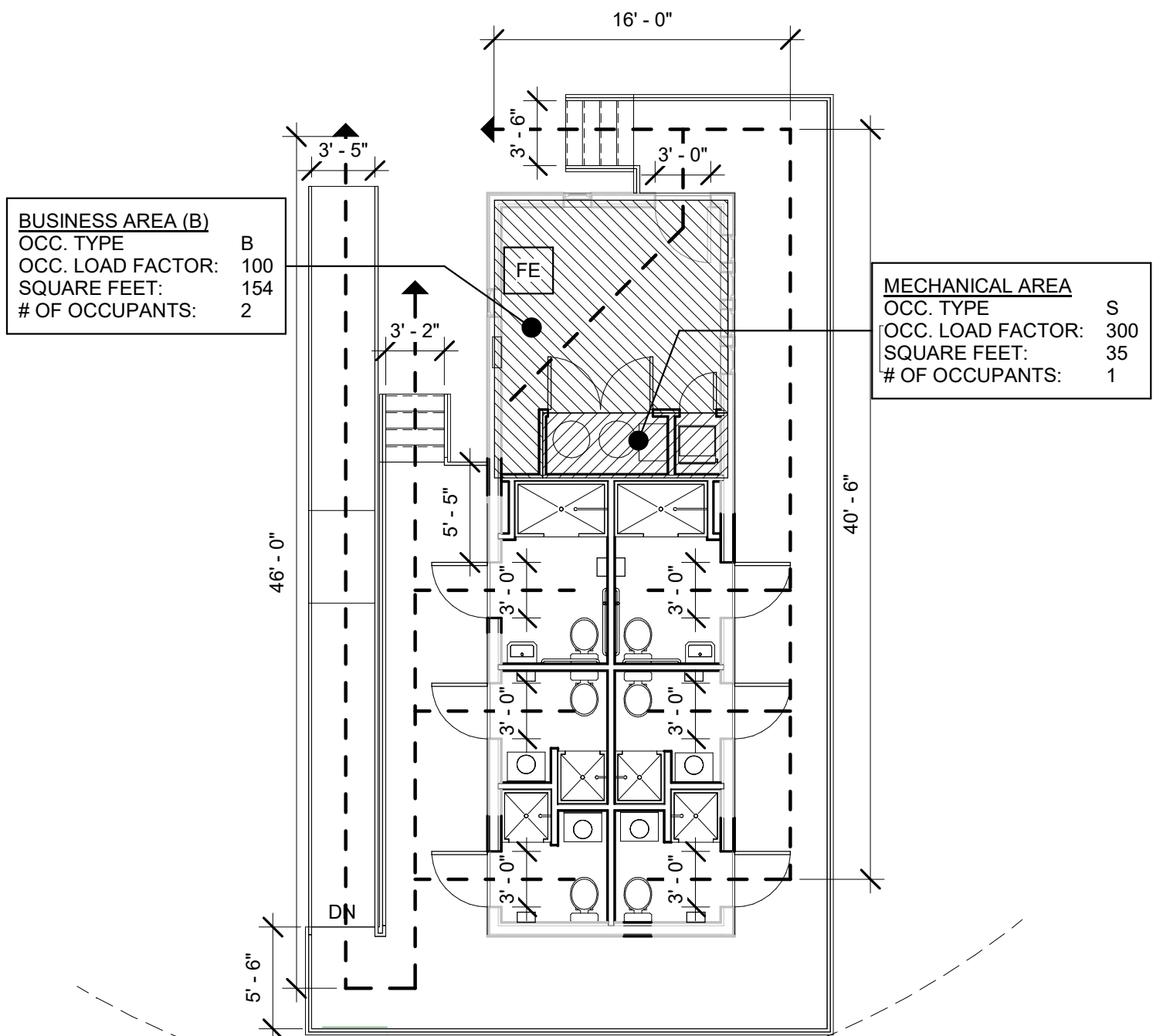
RESTROOM / OFFICE FACILITY	City of Madison, Engineering
----------------------------	------------------------------



8 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



5 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



2 ENLARGED SITE PLAN
1/8" = 1'-0"



3202 Dairy Drive
Campground

Location:
3202 Dairy Dr
Madison, WI 53718

Contract:
Project: 13975
Common Council Approval:
RES-21-00621

Civil, Landscape
City of Madison, Engineering

Structural
IMEG

Architecture:
City of Madison, Engineering

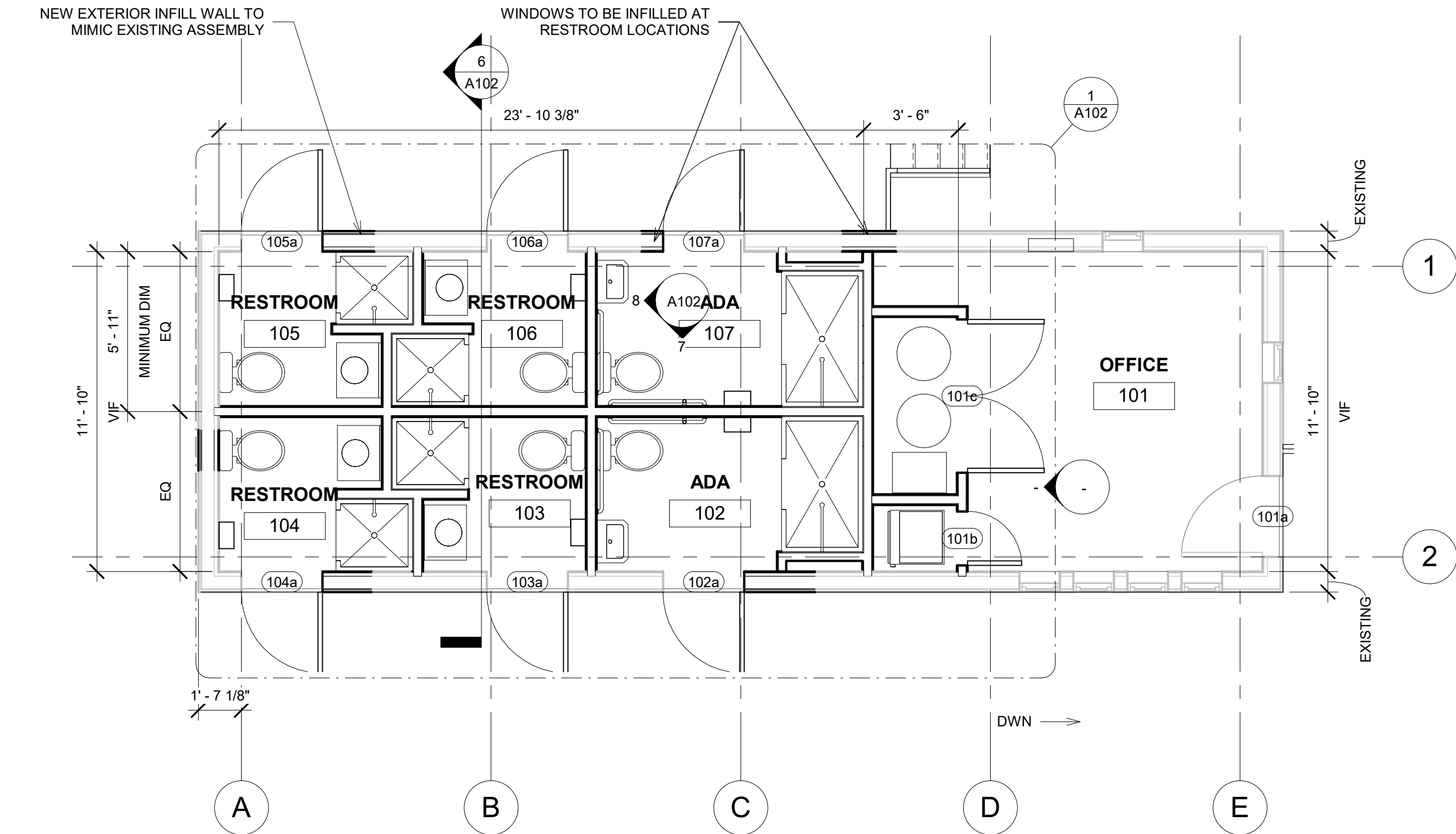
Mech., Electrical, Plumbing:
City of Madison, Engineering

[illegible]

COVER

A000

Print Date:
9/10/2021 12:49:55 PM



3202 Dairy Drive
Campground

Contract:
Project: 13975
Common Council Approval:
RES-21-00621

Structural	
IMEG	

Mech., Electrical, Plumbing:
City of Madison, Engineering

[illegible]

A102

Diagram 6: TRANSVERSE BUILDING SECTION. The diagram shows a cross-section of a building with a gabled roof. The roof is labeled "T.O. ROOF 13' - 1 21/32\"". The interior shows a central double door and two side windows. The foundation is labeled "GROUND -2' - 11\"". The diagram includes labels for various components and levels:

- Level 2: 8' - 0"
- Level 1: 0' - 0"
- GROUND: -2' - 11"

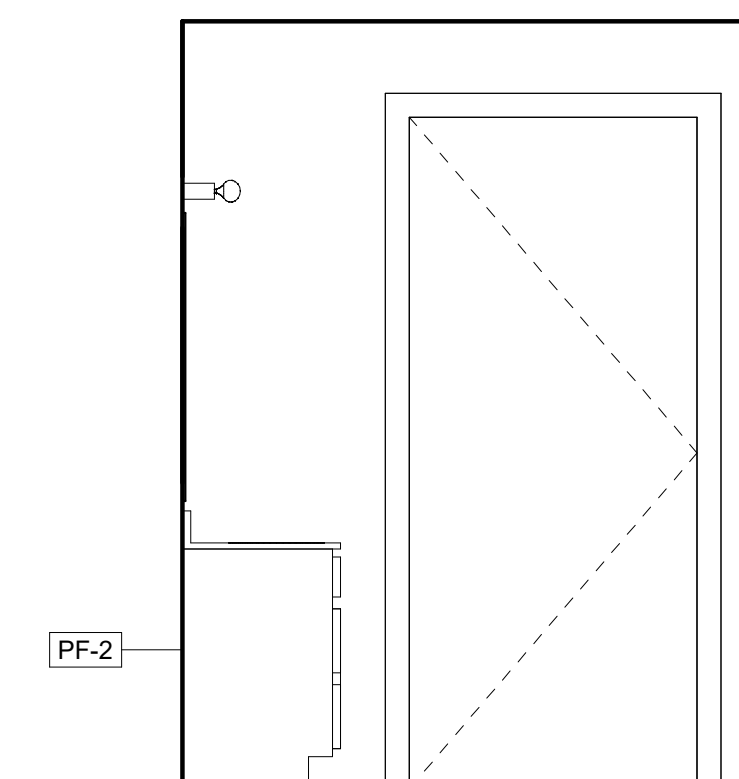
Labels on the left side (from top to bottom):

- TING ROOF
- T FAN VENT
- N HOUSING
- NG CEILING
- RIOR WALL
- R DECKING
- STEM - SEE DRAWINGS
- ING FLOOR

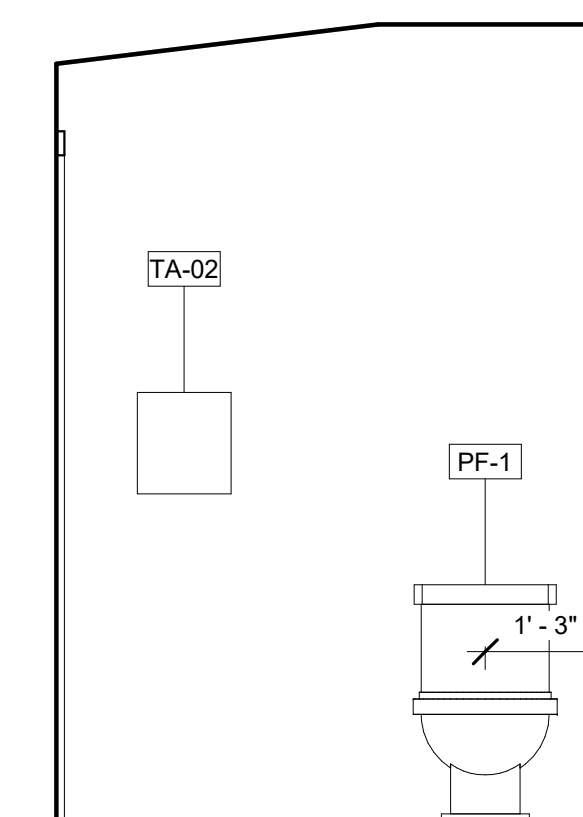
Labels on the right side (from top to bottom):

- T.O. ROOF 13' - 1 21/32"
- Level 2 8' - 0"
- Level 1 0' - 0"
- GROUND -2' - 11"

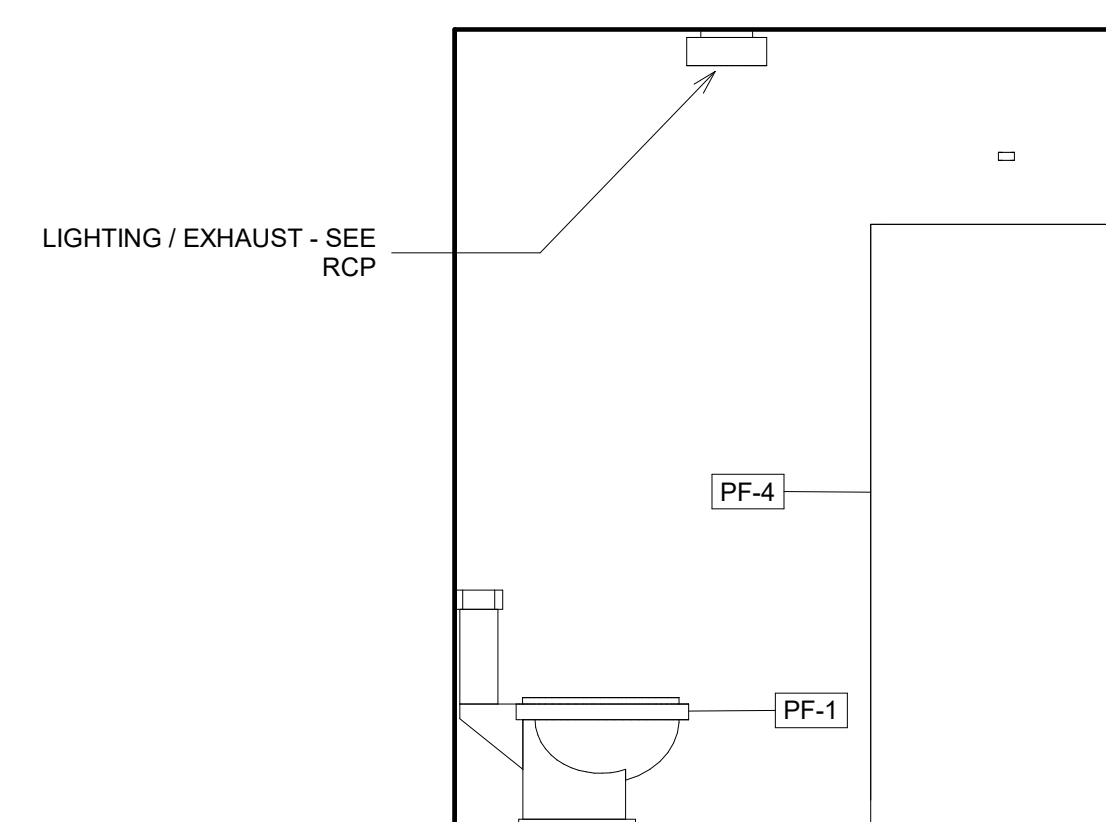
Section markers 1 and 2 are indicated at the top of the diagram.



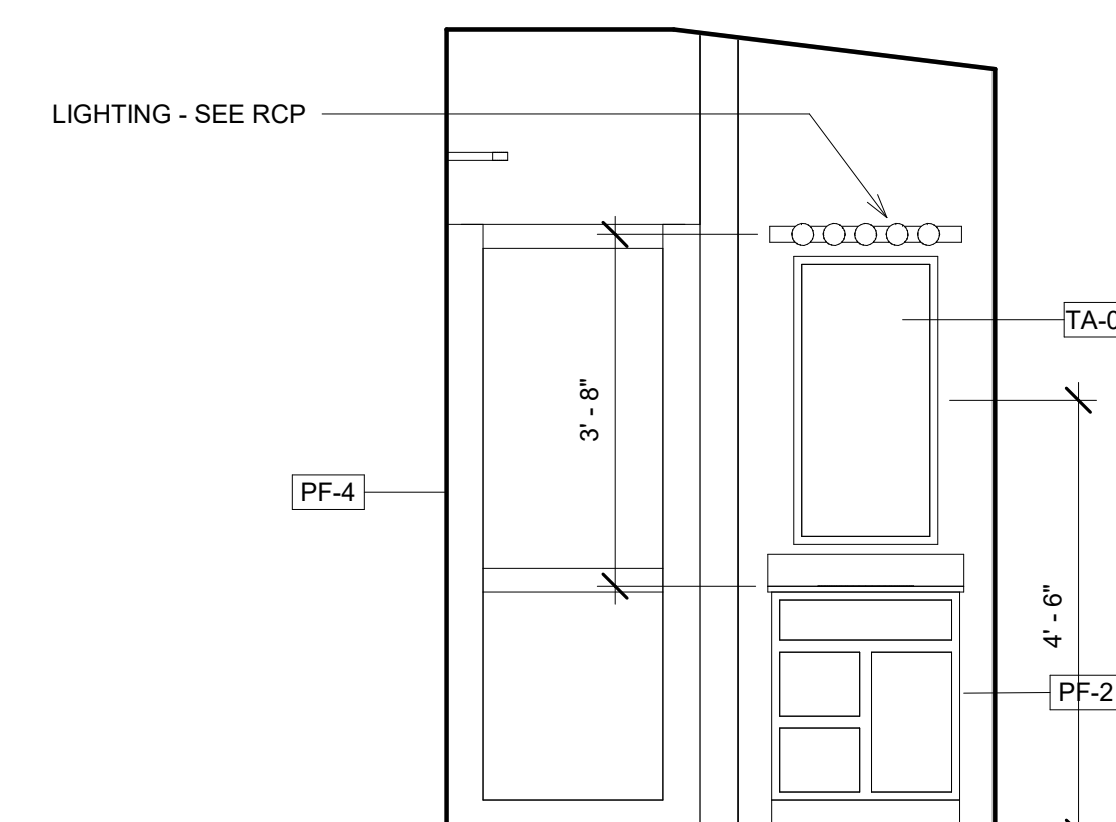
③ TYP RESTROOM ELEVATION - NORTH
1/2" = 1'-0"



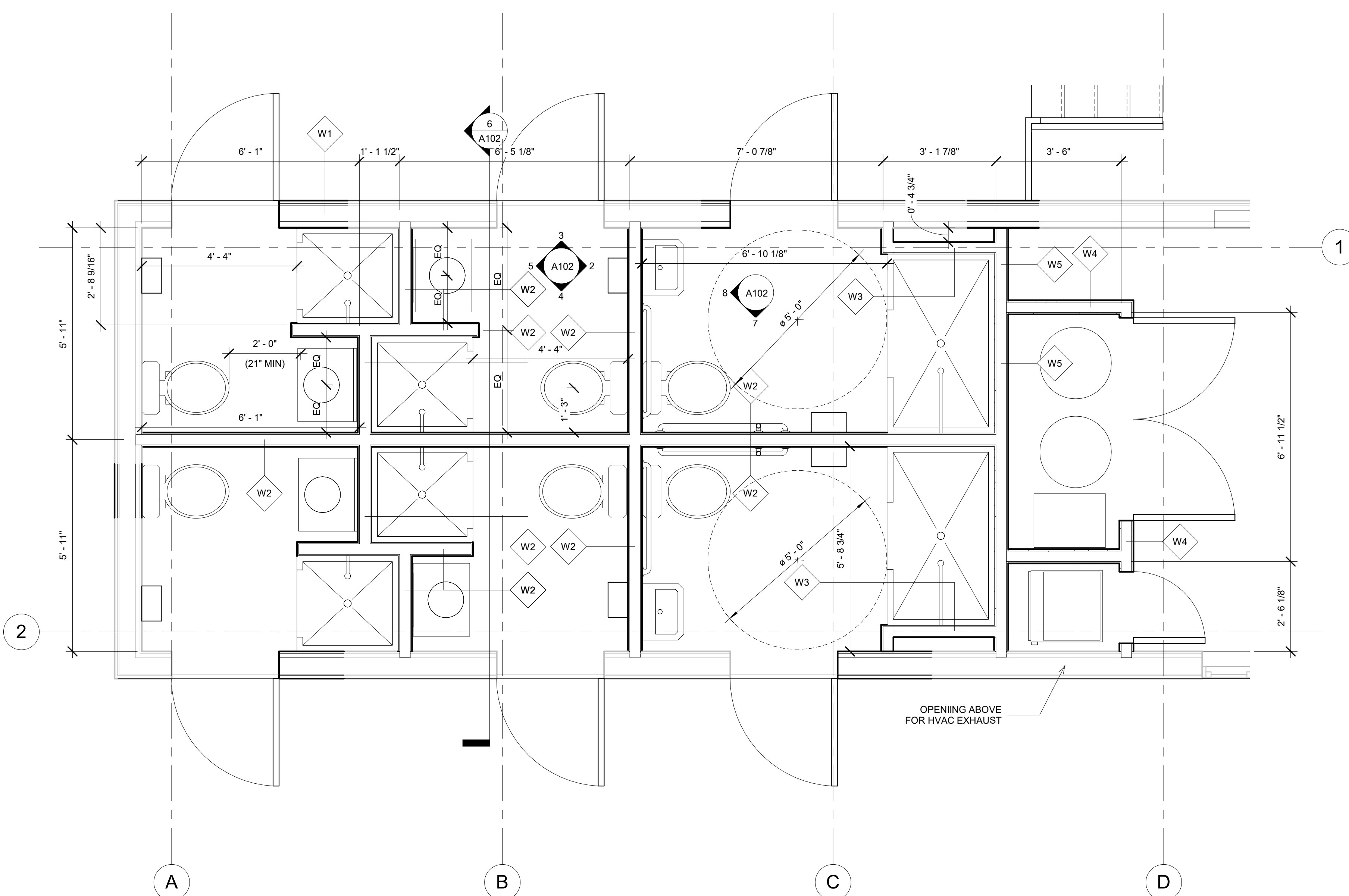
② TYP RESTROOM ELEVATION - EAST
1/2" = 1'-0"



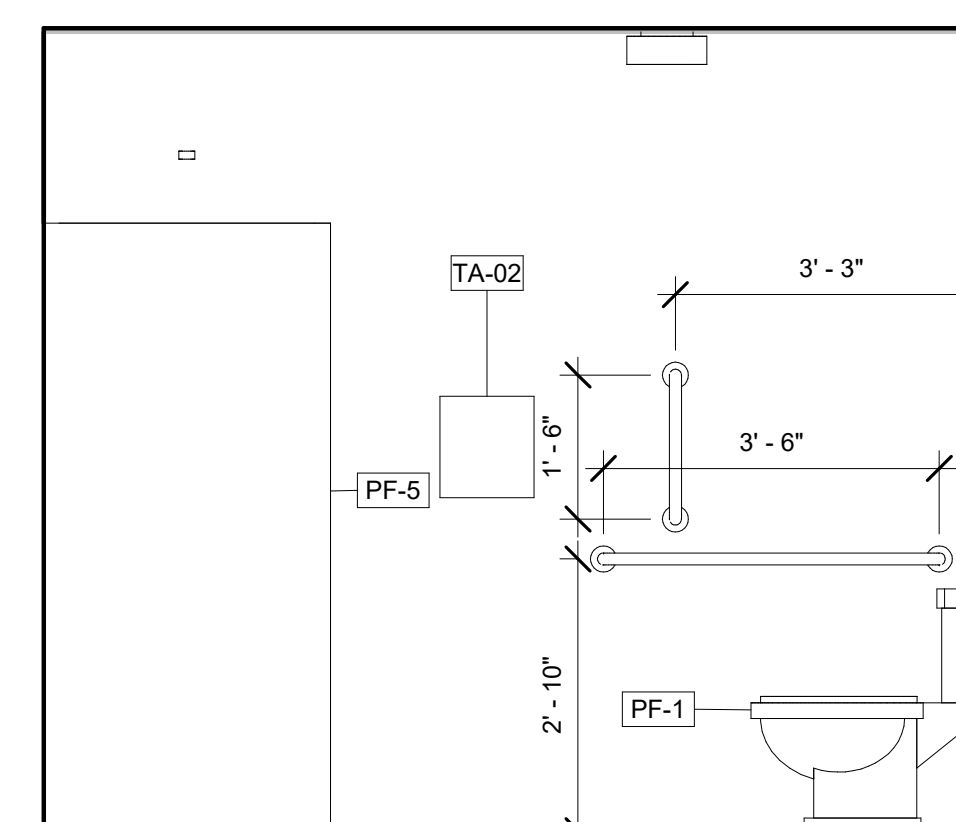
④ TYP RESTROOM ELEVATION - SOUTH
1/2" = 1'-0"



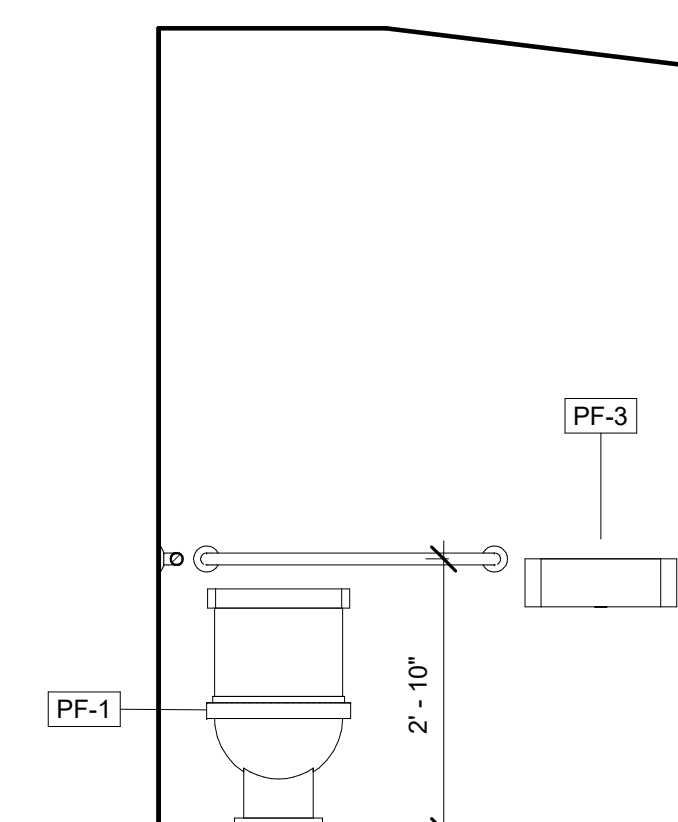
5 TYP RESTROOM ELEVATION - WEST
1/2" = 1'-0"



1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



⑦ TYP ADA - SOUTH
1/2" = 1'-0"



8 TYP ADA - WEST
1/2" = 1'-0"

1.	STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:	
	IBC 2015	
	ASCE/SEI 7-10	
	ACI 318-14	
	AISC 360-10	
	AWS D1.1	
	AISI S100	
2.	RISK CATEGORY	II
3.	SEISMIC:	
	SEISMIC DESIGN CATEGORY	B
	IMPORTANCE FACTOR	1.0
	SOIL CLASSIFICATION PER	
	GEOTECHNICAL REPORT	D
	S _s	0.086 g
	S ₁	0.046 g
	S _{es}	0.138 g
	S _{at}	0.110 g
	SEISMIC FORCE RESISTING SYSTEM	BEARING WALLS, LIGHT FRAMED, ALL OTHERS
	R	2
	C _d	2
	Ω ₀	2.5
	ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
	BASE SHEAR, STRENGTH LEVEL	V = C _s x W = 0.0459 x W
4.	WIND:	
	BASIC WIND SPEED	115 MPH
	IMPORTANCE FACTOR	1.0
	EXPOSURE CLASS	C
	MWFRS DESIGN PRESSURE	28 PSF
	NET ROOF UPLIFT PRESSURE	5 PSF [LC: 0.6DL + 0.6WL]

1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL BE A REASON FOR THE ENGINEER OR SUBCONSULTANTS TO ASSUME ANY OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OR SUPERVISORY OR CONSTRUCTION CONTRACTOR OR ANY OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY AND AUTOMOBILE POLICY.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO THE START OF CONSTRUCTION FOR CLARIFICATION. ANY DISCREPANCIES, OMISSIONS OR CONFLICTS IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER.
3. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, FABRICATION, ERECTION, OR INSTALLATION. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL BE NOTIFIED FOR CLARIFICATION.
4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF CONSTRUCTION WORK.
5. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
6. ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
7. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE DIMENSIONS OF THE WORK WITH CLOSE TOLERANCES.
8. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
9. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS AND METHODS NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PROTECT THE STRUCTURE.
10. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS. CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. NO LIGES, NOTCHES, BACKCUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
12. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE OWNER. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE OWNER SHALL BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE OWNER.
13. SHOP DRAWINGS SHALL BE REVIEWED BY THE OWNER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE OWNER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
14. EXISTING CONDITIONS:
 - A. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE CORRECTED TO CONFORM TO THE DRAWINGS. NO MODIFICATION OF THE INFORMATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR STRUCTURAL ENGINEER.

1. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
2. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED AUGUST 9, 2013 BY CGC, INC. REPORT IS ON FILE WITH THE OWNER.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT.
ALLOWABLE NET SOIL BEARING PRESSURE: 2000 PSF
FOOTINGS 2000 PSF

ANTICIPATED DEPTH TO ALLOWABLE
FROST DEPTH 5 FT (UNHEATED)
3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.
4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS ENCOUNTERED IN THE BORINGS AT 6 TO 8 FEET BELOW EXISTING SITE GRADES. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PRECAUTIONS SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER OF RECORD.
5. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING AND SHORING REQUIRED TO SAFELY RETAIN EARTH BANKS AS REQUIRED.
6. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, OWNER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOOTINGS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
7. ALL FOOTINGS SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL, OR CONTROLLED COMPACTED FILL. REMOVING ANY EXISTING FILL OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
8. FOOTING ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
 DEFORMED BARS ASTM A615, GR60 $F_y = 60 \text{ KSI}$
3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
 CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 3"
 EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
 #6 BARS OR LARGER 2"
 #4 BARS OR SMALLER 1 1/2"
4. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

	4000 PSI CONCRETE	
BAR SIZE	OTHER	TOP
#3	19	25
#4	25	33
#5	31	41
#6	37	49
#7	54	71
#8	62	81
#9	70	91
#10	78	101
#11	85	111

- LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1-0" OF FREE CONCRETE BELOW.
5. PROVIDE ADEQUATE TIES FOR ALL REINFORCING BARS. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS SHALL ONLY BE USED TO SUPPORT REINFORCING OFF GRADE.
6. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS IS NOT ACCEPTABLE.
7. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
8. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
9. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCING PLACEMENT. THE CONTRACTOR'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066.

2. UNO.

CONCRETE MATERIALS SHALL CONFORM TO:

CEMENT	ASTM C150, TYPE I OR II
FLY ASH	ASTM C618, TYPE C OR F
FINE AND COARSE AGGREGATE	ASTM C33
LIGHTWEIGHT AGGREGATE	ASTM C330
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER-REDUCING ADMIXTURE	ASTM C494

3. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	28-DAY STRENGTH (PSI)	MAX W/C RATIO	A/E	SLUMP
ALL CONCRETE	4000	0.45	5-8%	1"-4"

4. UNO. ALL FOOTINGS SHALL BE CENTERED UNDER SUPPORTED FRAMING.

5. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE

6. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.

7. NOTIFY THE OWNER 48 HOURS MINIMUM PRIOR TO ALL POURS.

8. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREEZING OR FROSTING ICE OR SNOW.

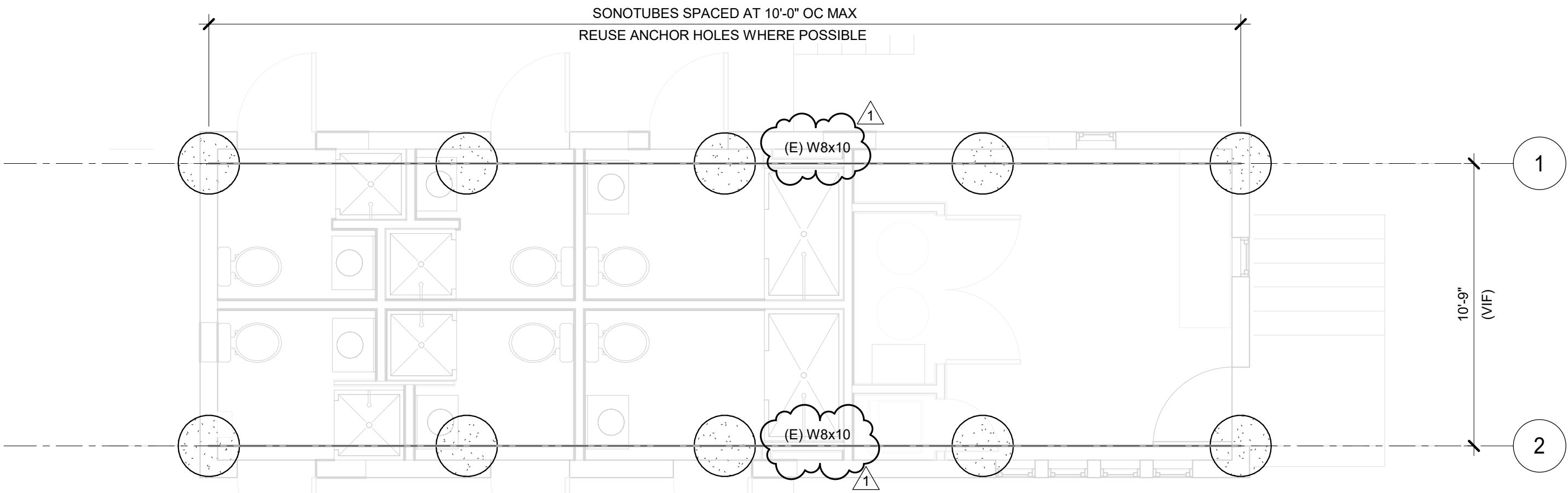
9. THE CONCRETE CONTRACTOR SHALL FURNISH MIX DESIGN SHOP DRAWINGS FOR REVIEW.

1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.
2. MECHANICAL ANCHORS:
EXPANSION ANCHORS

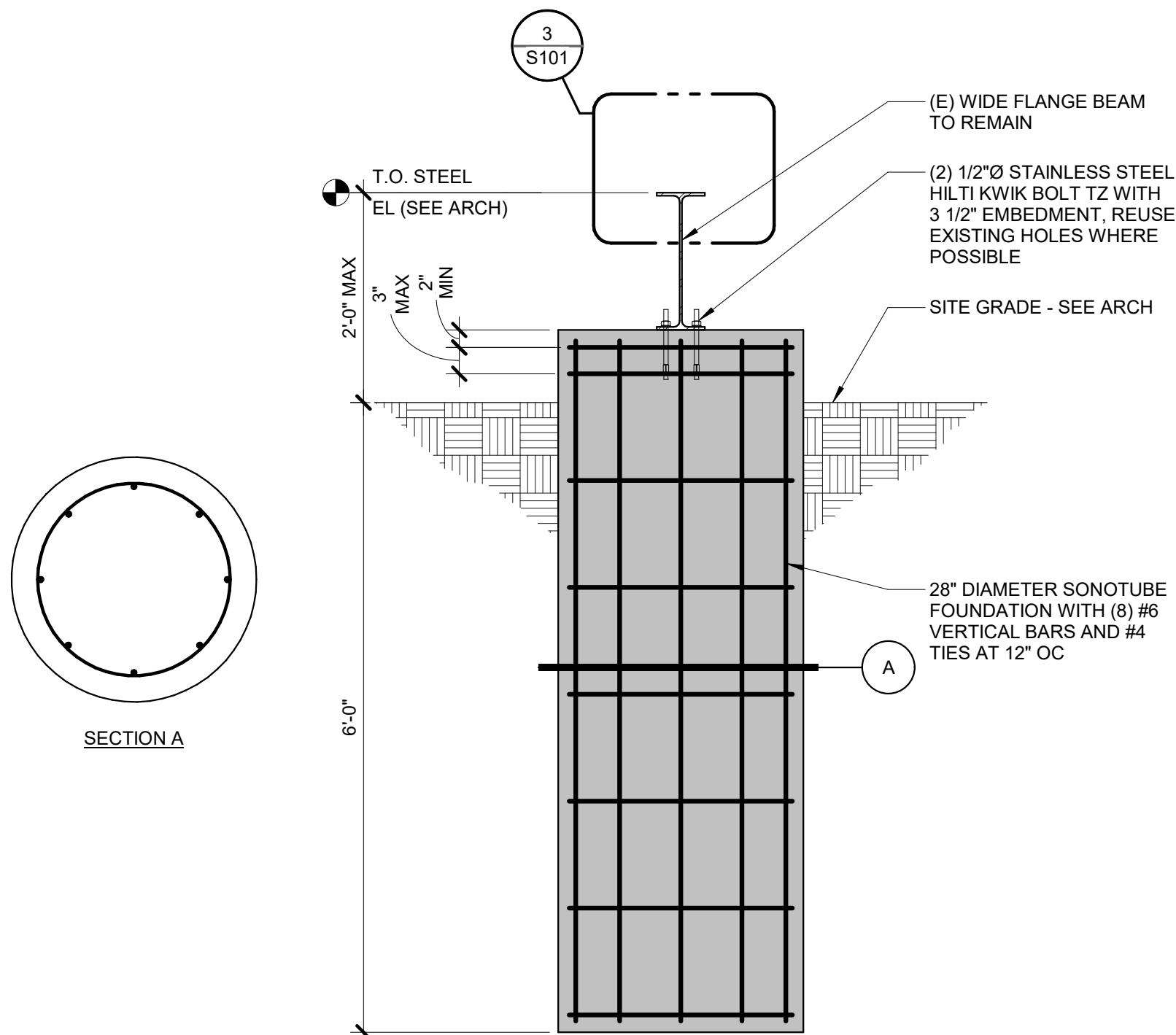
ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
CONCRETE	HILTI KWIK BOLT TZ	DEWALT POWER STUD+ SD2 RED HEAD TRUBOLT+ SIMPSON STRONG BOLT 2

THREADED SCREW ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
CONCRETE	HILTI KWIK HUS-EZ	DEWALT POWER SCREW-BOLT+ SIMPSON TITEN HD



NO SCALE



1 1/2" = 1'-0"

IMEG 1800 DENTON WAY, SUITE 200
MIDDELTON, WI 53562
608.223.8600 FAX: 608.836.0415
www.imegcorp.com
PROJECT #

IMEG CORP RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2021 IMEG CORP

REFERENCE SCALE IN INCHES

0 1 2 3

Facilities Management
City-County Building, Room 115
10 Martin Luther King Jr. Boulevard
Madison, WI 53703

Design prepared for:
City of Madison

202 Dairy Drive
Campground

2 Dairy Drive
Elison, WI 53716

Contract:
Project:
Non Council Approval:
RES-21-00621

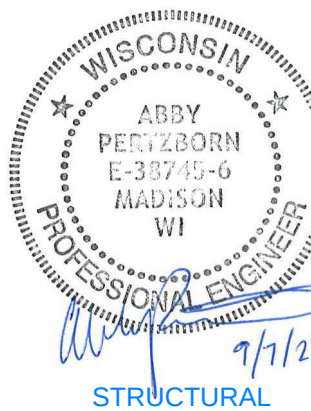
Landscape
of Madison. Engineering

6

of Madison, Engineering

of Madison, Engineering

of Madison, Engineering

[illegible]

STRUCTURAL DRAWINGS

S101

Print Date:
09/16/21