# MIRACOSTA COLLEGE SAN ELIJO CAMPUS GREENHOUSE

# DSA SUBMITTAL FEBRUARY 03, 2021



**ASPHALT CONCRETE** INSULATION THROUGH AREA DRAIN INTERIOR TRANSFORMER AIR CONDITIONING **ABSOLUTE ABOVE ACCESSIBLE** ACOUSTIC TILE CEILING **ADJUSTABLE** VINYL COMPOSITION TILE **ADJACENT** LIVING ROOM ABOVE FINISHED FLOOR VESTIBULE LAMINATE **AGGREGATE** LAVATORY AIR HANDLER UNIT LIGHT WHITEBOARD ALTERNATE WATER HEATER WROUGHT IRON **ALUMINUM** ANODIZED MACHINE BOLT WET STAND PIPE ASSUMED PROPERTY LINI MEDICINE CABINET WINDOW SHAD **ARCHITECTURAL** MASONRY OPENING MECHANICAL MEMBRANE BUILT-UP ROOFING MANUFACTURING BASIS OF DESIGN MANUFACTURER MINIMUM BUILDING MIRROR **BLOCK** MISCELLANEOU BLOCKING METAL METAL DECK SYMBOLS CATCH BASIN MULLION

"INCLUDE, INCLUSIVE"

**BOTTOM OF CHALKBOARD** CAST IN PLACE **CONTROL JOIN** NATURAL GRADE **CLEAN OUT** NOT IN CONTRACT CERAMIC TILE NOT TO SCALE CEMENT NOMINAL CERAMIC CENTERLINE ON CENTER CEILING O.D. OUTSIDE DIAMETER CAULKING OWNER FURNISHED CONTRACTOR INSTALLED" CLOSET ORNAMENTAL IRON CLEAR OVER CONCRETE MASONRY UNIT OFFICE COUNTER OPENING COLUMN **OPPOSITE** CONCRETE CONSTRUCTION PLASTIC LAMINATE CONTINUOUS POURED IN PLACE CONTRACTOR CORRIDOR PROPERTY LINE PIPE PENETRATION CENTER PAPER TOWEL DISPENSER COUNTERSUNK PERFORATED PERPENDICULAR DEEP, DEPTH PANIC HARDWARE DRINKING FOUNTAIN DOWN SPOUT PLASTER DRY STANDPIPE PLUMBING DISHWASHER PLYWOOD DOUBLE PORCELAIN DEMOLITION PREFABRICATED DEPARTMENT POUNDS PER SQUARE FOOT DETAIL POUNDS PER SQUARE INCH DIAMETER PARTITION DIAGONAL

POLY-VINYL CHLORIDE

TOP OF CURB

TOP OF JOIST

T.O.M.

T.O.P.

T.O.R.

T.O.W.

INSIDE DIAMETER

TOP OF FOOTING

TOP OF MASONRY

TOP OF PARAPET

TOP OF ROOF

TOP OF STEEL

TOP OF WALL

TUBE STEEL

TELEPHONE

THRESHOLD

THREADED

**TELEVISION OUTLE** 

**ABBREVIATIONS** 

DOWN **QUARRY TILE** DOOR QUANTITY **EXPANSION ANCHOR** EXHAUST FAN R.C.P. REFLECTED CEILING PLAN **EXPANSION JOINT ROOF DRAIN ROBE HOOK** FI FVATION **ROUGH OPENING** "ELECTRIC, ELECTRICAL" RADIUS ELEVATOR REFRIGERATOR REINFORCED **EQUIPMENT** REQUIRED ESTIMATE RESILIENT ELECTRIC DRINKING WATER COOLER REVISION ROOM **EXTERIOR SOLID CORE** FIRE EXTINGUISHER SEAT COVER DISPENSER FIRE EXTINGUISHER CABINET SOAP DISPENSER FINISH FLOOR SQUARE FEET FINISH GRADE SANITARY NAPKIN DISPENSER S.N.D. FACE OF S.N.R. SANITARY NAPKIN RECEPTACLE FACE OF BLOCK STAINLESS STEEL FACE OF CONCRETE SCHED. SCHEDULE FACE OF FINISH FACE OF MASONRY SMOKE DETECTOR FACE OF STUDS SECTION FIBERGLASS REINFORCED PANE SHOWER FIRE ALARM SHEATHING SIMILAR FLOOR DRAIN SLOPE FOUNDATION SLIDING FIRE HOSE CABINET **SPECIFICATIONS** SPEAKER FLOOR SQUARE INCHES STOR. STORAGE GALVANIZED IRON STRUCTURAL GAUGE SUSPENDED GALVANIZED SYMMETRICAL GARAGE SYSTEM GRAB BAR TACKBOARD GLASS TONGUE AND GROOVE T.O. TOP OF GYPSUM BOARD T.O.B. TOP OF BEAM

ORIENTATION REFERENCE ( NORTH ARROW - BLDG. DESIGNATION (BLDGS. A, B, & C)

GRID LINE LETTER DESIGNATION

**GRID LINE REFERENCE** BLDG. DESIGNATION (BLDGS. A, B, & C) GRID LINE NUMBER — ELEVATION NUMBER INTERIOR ELEVATION REFERENCE SHEET NUMBER ELEVATION NUMBER **EXTERIOR ELEVATION** SECTION NUMBER REFERENCE SECTION NUMBER WALL SECTION REFERENCE SECTION CUT LINE

SHEET NUMBER DETAIL SECTION REFERENCE DETAIL NUMBER **DETAIL CALL-OUT** REFERENCE - SHEET NUMBER AREA BEING DETAILED

101 ROOM NUMBER 150 SF ROOM NET SQUARE FEET REVISION NUMBER BLDG. DESIGNATION -WINDOW REFERENCE WINDOW TYPE NUMBER W- EXTERIOR WINDOW

**GLAZED SYSTEM TYPE** 

 GLAZED SYSTEM TYPE NUMBER \_S4T\_\_ ₩ALL TYPE NUMBER DESIGNATES SIDE EXIT

SF- STOREFRONT

**ELEVATION DATUM** WHEEL CHAIR TURNING RADIUS MIN. CLEARANCE FOR ADA

**GENERAL** SIGNAGE AND ACCESSIBILITY STANDARDS TOTAL = 2 SHEETS AT GENERAL ARCHITECTURAL PROPOSED SITE PLAN GREEN HOUSE LAYOUT TOTAL = 2 SHEETS AT ARCHITECTURAL STRUCTURAL STRUCTURAL NOTES AND ABBREVIATIONS STRUCTURAL NOTES GREEN HOUSE FOUNDATION PLAN AND DETAILS TOTAL= 3 SHEETS AT STRUCTURAL

**SHEET INDEX** 

**ELECTRICAL** 

GENERAL NOTES. LEGEND, ABBREVIATIONS AND SHEET INDEX

GREEN HOUSE POWER PLANS, SLD, AND PANEL SCHEDULE

SECURITY GENERAL INFORMATION AND SYMBOL LEGEND

PROJECT DIRECTORY

Statement of General Conformance

04-119774 File No. <u>37-C2</u>

FOR ARCHTECTS/ENGINEETS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWING, PREPARED BY OTHER LICENSED

have been preparded by other design professionals or consultants who are licensed and/or

1) design intent and appears to meet the appropriate requirements of Title 24, California

2) coordinatio with my plans and specifications and is acceptable for incorporation info

All drawings or sheets listed on the cover or index sheet

is/are in general conformance with the project design | is/are in general conformance with the project design

Mas/have been coordinated with the project plans and has/have been coordinated with the project plans and

Architect or Engineer delegated responsibility

**Expiration Date** 

for this portion of the work

**Print Name** 

License Number

authorized to prepare such drawings in this state. It has been examined by me for:

Code of Regulations and the project specifications prepared by me, and

The Statement of General Conformance "shall not be construed as relieving me of my rights,

duties, and responsibilities under Sections 17302 and 81138 of the Education Code and

Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [B])

6-30-21

**Expiration Date** 

☐ This drawing or page

MEPT / FP / FA:

**P2S Engineering** 

San Diego, CA 92123

**LAB CONSULTANT:** 

503 Greenbriar Road

Glen Ellyn, IL 60137

9665 Chesapeake, Suite 230

Contact: James Del Monaco

(619) 618-2347

Chris Weixelman

Laboratory Building Design Consultants

(619) 977-3257

Ned Michalowski

GREEN HOUSE POWER & LIGHTING PLANS

TOTAL = 2 SHEETS AT ELECTRICAL

TOTAL = 3 SHEETS AT PLUMBING

TOTAL= 5 SHEETS AT SECURITY

. GRAND TOTAL

**GRAND TOTAL= 18 SHEETS** 

1 Barnard Dr.

Contact:

**ARCHITECT**:

**HPI Architecture** 

San Diego, CA 92121

**MHP Structural Engineers** 

San Diego, CA 92121

Contact:

specifications.

general responsible charge

**Print Name** 

C11360

LARRY FRAPWELL

Architect or Engineer designated to be in

Oceanside, CA 92056

LEAD SHEET

GREEN HOUSE SITE PLAN

SECURITY PROPOSED SITE PLAN

MiraCosta Community College District

(760) 795-6691

Tom Macias

6020 Cornerstone Court West, Suite 260

(858) 203-4999

Ammar Sarsam

9920 Pacific Heights Blvd, Suite 225

Matt Wexler

Kachun Cho

X The drawings or sheets listed on the cover or index sheet

X The drawing, page of specifications/calculations

the construction of this project.

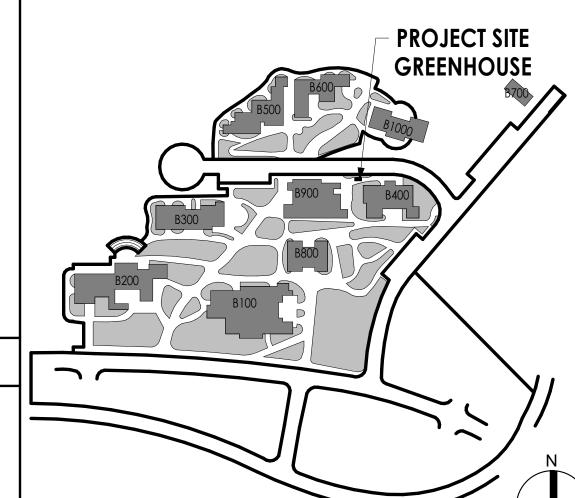
(562) 985-3200

SECURITY FLOOR PLAN

SECURITY RISER DIAGRAM

SECURITY DETAILS

GREEN HOUSE PLUMBING PLAN



**2019 CALIFORNIA ADMINISTRATIVE CODE**, (PART 1, TITLE 24, C.C.R.) **2019 CALIFORNIA BUILDING CODE (CBC), (PART 2, TITLE 24, C.C.R.)** 

2019 CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24, C.C.R.) (2017 NATIONAL ELECTRICAL CODE ANI W/ 2019 CALIFORNIA AMENDMENTS)

(2018 UNIFORM PLUMBING CODE W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA CODE REGULATIONS (CCR) TITLE 24

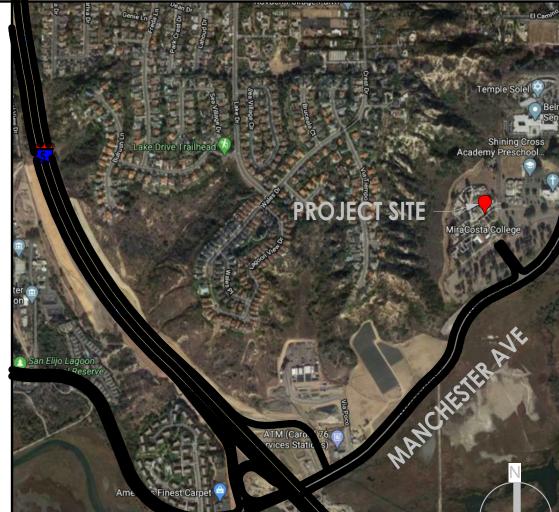
PARTIAL LIST OF APPLICABLE NFPA STANDARDS

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2019 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

CLEAN AGENT FIRE EXTINGUISING SYSTEMS

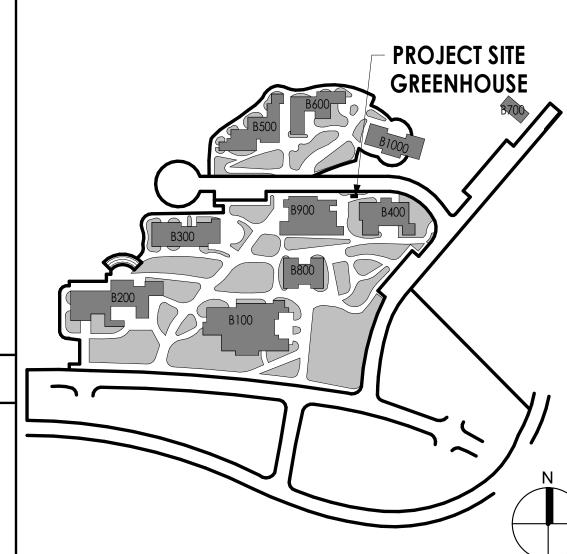
PROJECT DESCRIPTION

the work incudes the installation of a new green house on concrete slab on grade and ASSOCIATED PLUMBING AND ELECTRICAL UTILITIES. PATCH AND REPAIR OF EXISTING HARDSCAPE AND ANDSCAPE. SEE SHEET GENERAL NOTE #T FOR DESIGN BUILD INFORMATION. THIS IS NOT AN INSTRUCTIONAL FACILITY, WILL NOT BE OCCUPIED BY STUDENTS. THE FACILITY USE IS RESTRICTED STAFF



**VICINITY MAP** 

CAMPUS MAP / KEY PLAN



APPLICABLE CODES

**APPLICABLE CODES** 

(2018 INTERNATIONAL BUILDING CODE W/ CALIFORNIA AMENDMENTS)

**2019 CALIFORNIA PLUMBING CODE (CPC)** (PART 5, TITLE 24, C.C.R.)

**2019 CALIFORNIA ENERGY CODE (CEC)** (PART 6, TITLE 24, C.C.R.) **2019 CALIFORNIA EXISTING BUILDING CODE (CEBC)** (PART 10, TITLE 24, C.C.R.)

(2018 INTERNATIONAN EXISTING BUILDING CODE W/ 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, C.C.R.) TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42". HESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERT AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBE

PROJECT IDENTIFICATION

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED

ON THE DRAWINGS, WITHOUT WRITTEN AGREEMENT WITH THE (C) HPI ARCHITECTURE 2019

SHEET TITLE TITLE SHEET

SHEET NUMBER

DSA SUBMITTAI NOT FOR CONSTRUCTION

PROJECT TITLE SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 9200 ISSUED **DESCRIPTION** 

DSA STAMP

APP: 04-119774 INC: REVIEWED FOR SS ☐ FLS ☐ ACS ☑

architecture

www.hpiarchitecture.com

Newport Beach, CA 92663

115 22nd street

o: 949.675.6442

CONSULTANTS

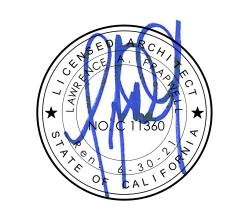
DSA STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-119774 INC: REVIEWED FOR SS FLS ACS DATE: 02/03/2021



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CONSULTANTS

PROJECT TITLE SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

#	DATE	DESCRIPTION
		1
RO	JECT IDE	ENTIFICATION
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SHEET TITLE SIGNAGE AND

SHEET NUMBER

G2.10

SITE PLAN - PROPOSED

<u>LEGEND</u> (E) FIRE ACCESS LANE 6 EXISTING HARDSCAPE  $\overline{7}$  NOT USED (12) EXISTING SITE WALL TO REMAIN (E) SCIENCE BUILDING P **B400 B OCCUPANCY** TYPEV-B, 1 STORY A#47446 (CLOSED)
A#04-102107 (CLOSED)
A#04-119580 (UNDER CONSTRUCTION) SITE PLAN - GENERAL NOTES PROPOSED B400 GREENHOUSE (E) PARKING A#04-117908 (UNDER CONSTRUCTION) 9. PATCH AND REPAIR EXISTING HARDSCAPE AND LANDSCAPE AS NEEDED AT BUILDING PERIMETER AREAS WHERE WORK AT THE EXTERIOR AFFECTS THE EXISTING SITE CONDITION. (E) STUDENT CENTER B900 **BOCCUPANCY** TYPE V-A, 1 STORY A#04-116969 (CERTIFIED) A#04-119576 (UNDER CONSTRUCTION) (E) STUDENT SERVICES & ADMINISTRATION BUILDING B1100 **BOCCUPANCY** A#04-117908 TYPE V-B, 1 STORY

THE WORK INCUDES THE INSTALLATION OF A NEW GREEN HOUSE ON CONCRETE SLAB ON GRADE AND ASSOCIATED PLUMBING AND ELECTRICAL UTILITIES. PATCH AND REPAIR OF EXISTING HARDSCAPE AND EXISTING BUILDING / STRUCTURE TO REMAIN, (N.I.C.) LANDSCAPE. SEE SHEET GENERAL NOTE #1 FOR DESIGN BUILD INFORMATION. THIS IS NOT AN

(E) P.O.T. DSA A#04-117908

(E) P.O.T. DSA A#04-119580

**CODE ANALYSIS SITE PLAN - LEGEND** 

SECTION 11B-206.

**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:** 

**NEW GREENHOUSE** 

IMIT OF WORK BOUNDARY

EXISTING PEDESTRIAN WALKWAY TO REMAIN - PROTECT IN PLACE (N.I.C.)

EXISTING FIRE ACCESSIBLE LANE

#### **KEYNOTES:**

- 1) EXISTING STEP TO REMAIN NOT PART OF SCOPE OF WORK
- 2 EXISTING TREES
- (3) EXISTING SHRUBS
- (4) EXISTING CONCRETE PAVEMENT AT 1.9% SLOPE MAX
- (5) EXISTING LANDSCAPE

- (8) EXISTING FIRE HYDRANT
- 9 EXISTING EXTERIOR LIGHT POST
- (10) EXISTING PATIO OVERHANG
- (11) EXISTING ASPHALT VEHICULAR DRIVEWAY
- (13) EXISTING PEDESTRIAN PAVEMENT
- (14) EXISTING EXTERIOR CAST-IN-PLACE CONCRETE STEPS
- (15) EXISTING RAMP UNDER DSA APPROVED APPLICATION NUMBER 04-119580

#### PROJECT DESCRIPTION

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-119774 INC: INSTRUCTIONAL FACILITY, WILL NOT BE OCCUPIED BY STUDENTS. THE FACILITY USE IS RESTRICTED STAFF SS ☐ FLS ☐ ACS ☑

• PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT

CHANGES ARE 1/4" MAXIMUM VERTICAL, AND IS AT LEAST 48"WIDE.

ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2)

LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL

SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND

RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 UNLESS OTHERWISE INDICATED (SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (SECTION 11B-307.4)

AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80

PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW & EXISTING (E) WALK SURFACES

ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T AND THAT ALL P.O.T. COMPLY WITH

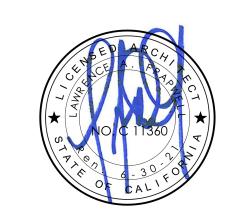


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#### **BUILDING CODE ANALYSIS** CODE REFERENCE SECTION - 2019 CBC

#### BUILDING B400 - GREENHOUSE

TYPE OF CONSTRUCTION:

2. CONTRACTOR IS TO PROVIDE TEMPORARY PEDESTRIAN PROTECTION.

3. CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION GATES AT ALL ENTRANCES TO THE PROJECT.

4. ALL BUILDING ENTRANCES & EXTERIOR GROUND LEVEL EXITS SHALL HAVE A 1.9% MAX. (MIN. 5'-0") SLOPE AWAY FROM DOORS.

5. PATH OF TRAVEL (P.O.T.) NOTES: • PATH OF TRAVEL ( P.O.T. ) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL, AND IS AT LEAST 48"WIDE. • SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48

• P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2) • PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN NEW AND EXISTING (E) WALK

• ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE P.O.T AND THAT ALL P.O.T. COMPLY W/

8. REFER TO PLUMBING AND ELECTRICAL SITE PLANS FOR ADDITIONAL SITE UTILITIES WORK.

I. REFER TO B400 A#04-119580 CIVIL DRAWINGS FOR GRADING AND SITE UTILITIES INFORMATION. OCCUPANCY GROUP:

<u>HEIGHT:</u> 503, 504.2

(CBC TABLE 504.3)

•ACTUAL BUILDING HEIGHT (FEET): 20 FEET

•ALLOWABLE HEIGHT (STORIES): (BASED ON OCCUPANCY GROUP B, CBC TABLE 504.4)

Aa = 36,000SF

**OVERALL CAMPUS SITE PLAN** 

601, 602.24 TYPE V-B

304, 311, 508.3.2 GROUP U

•ACTUAL BUILDING HEIGHT (STORIES): 1 STORY

AREA: BASIC ALLOWABLE AREA PER STORY: (SINGLE OCCUPANCY, ONE STORY) Aa = At + (NS X If) Aa = 36,000 + (9,000 X 0)

(E) DRINKING FOUNTAIN

(E) MEN'S RESTROOM

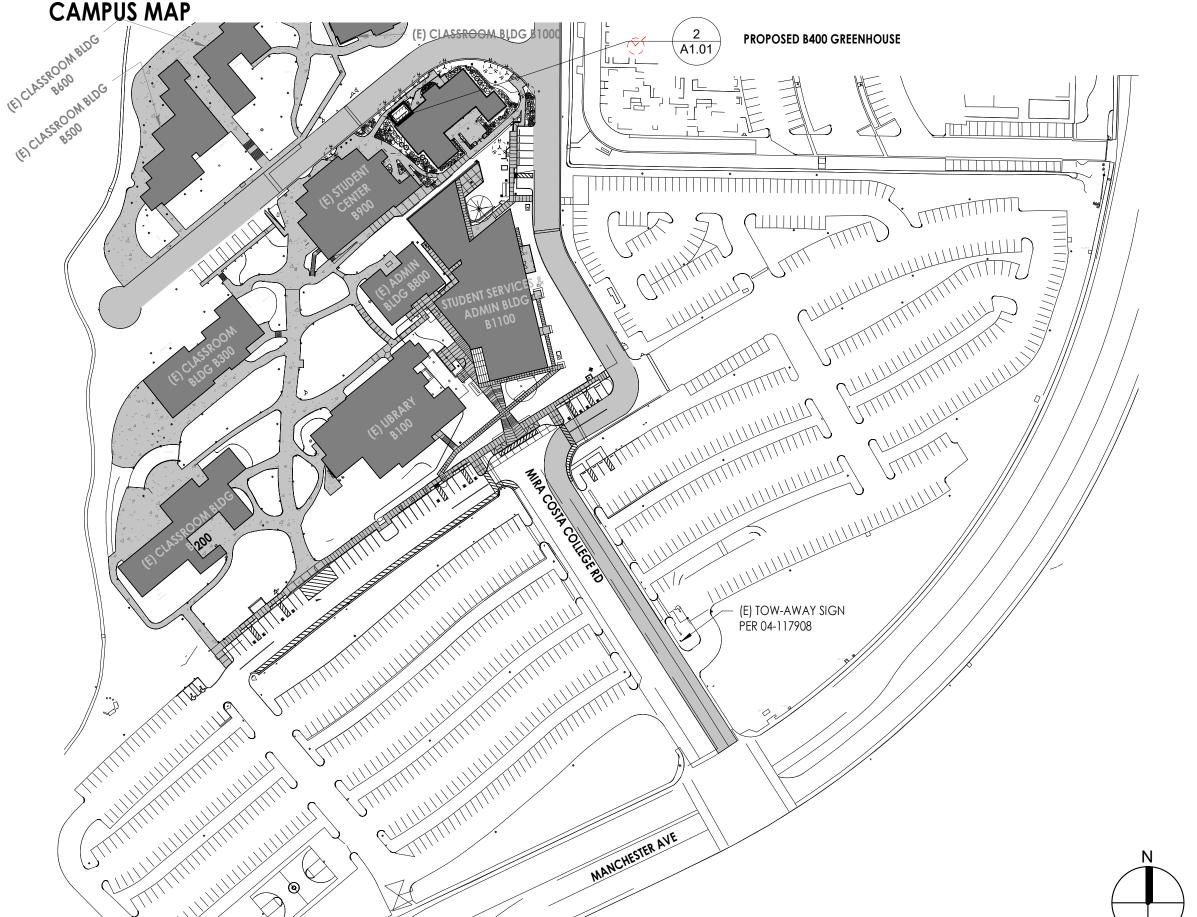
(E) WOMEN'S RESTROOM

**ACTUAL BUILDING AREA:** 

BUILDING SQUARE FOOTAGE (EXISTING BUILDING B400)= **162** SF (GREENHOUSE)

FIRST FLOOR: COVERED CANOPY:

**BUILDING SQUARE FOOTAGE (TOTAL)=** 



PROJECT TITLE SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

**DESCRIPTION** PROJECT IDENTIFICATION THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42". THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED (C) HPI ARCHITECTURE 2019

PROPOSED SITE PLAN

SHEET NUMBER

SCALE

1/4" = 1'-0"

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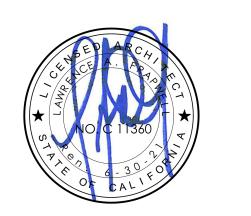
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		ISSUED
#	DATE	DESCRIPTION

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(C) HPI ARCHITECTURE 2019

SHEET TITLE

**GREEN HOUSE LAYOUT** 

SHEET NUMBER

A2.01

POUNDS

THROUGH

TOE NAIL

TRANSVERSE

TUBE STEEL

TYPICAL

VERTICAL

WITHOUT

WEIGHT

STRUCTURAL STEEL SHAPES

ANGI F

M SHAPES

S SHAPES

W SHAPES

XX-STRG DBL EXTRA STRONG PIPE

WTx, STx STRUCTURAL TEES

X-STRG EXTRA STRONG PIPE

STANDARD PIPE

**WORK POINT** 

WELDED WIRE FABRIC

STANDARD CHANNEL

HOLLOW STRUCTURAL SECTIONS

MISCELLANEOUS CHANNEL

WITH

VERIFY IN FIELD

TAPERED STEEL GIRDER

UNLESS NOTED OTHERWISE

TOP OF

**TRANS** 

TSG

TYP

UNO

**VERT** 

W/O

WP

WT

HSS

MCx

STD PIPE

DEVELOPMENT LENGTH

HOOK DEVELOPMENT LENGTH LONG LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATIONS LONGITUDINAL LAP SPLICE LENGTH LIGHT-WEIGHT ADDL LIGHT-WEIGHT **ADHESIVE** LWT **ADJACENT** LEVEL LAMINATED VENEER LUMBER **ALTERNATE** ALUMINUM ALUM ANCH ANCHOR, ANCHORAGE MANUFACTURER APPROXIMATE. APPROXIMATELY **APPROX** MATL MATERIAL MAXIMUM ARCH ARCHITECT, ARCHITECTURAL MAX ALL-THREAD ROD MECH MECHANICAL ATR MEZZANINE MANUFACTURER **BOTTOM OF** BELOW MHP STRUCTURAL ENGINEERS MID BLDG BUILDING MIDDI F MIN MINIMUM BLOCKING, BLOCK MISC BEAM MISCELLANEOUS **BOUNDARY NAIL** MULT MULTIPLE BOTTOM BUCKLING RESTRAINED BRACE FRAME NOT APPLICABLE BEARING **BOUNDARY SCREW** NATURAL **BSMT** BASEMENT NOT IN CONTRACT NOT TO SCALE BTWN BETWEEN NORMAL-WEIGHT CALCS CALCULATIONS OUTSIDE FACE **CANTILEVER** ON CENTER CARBON FIBER REINFORCED POLYMER **OUTSIDE DIAMETER** CENTER OF GRAVITY OPPOSITE HAND CAST IN PLACE OPERATING CONTROL JOINT OPER OPERATING CENTERLINE OPENING OPNG CEILING OPP OPPOSITE CLEAR, CLEARANCE ORIENTED STRAND BOARD CONCRETE MASONRY UNIT COLUMN CONC CONCRETE PARALLEI PERPENDICULAR PERP CONN CONNECT, CONNECTION PLATE, PROPERTY LINE CONT CONTINUOUS POUNDS PER LINEAR FOOT COMPLETE JOINT PENETRATION PLMB PLUMBING COORD COORDINATE PLY PLYWOOD COUNTERSINK, COUNTERSUNK PARTIAL JOINT PENETRATION PROJECT, PROJECTION POUNDS PER SQUARE FOOT PENNY (NAIL SIZE) PSF BAR DIAMETER (REBAR) POUNDS PER SQUARE INCH PARALLAM DOUBLE POST-TENSIONED (CONCRETE) DEMAND CRITICAL WELD PRESSURE-TREATED (WOOD) DOUGLAS FIR LARCH QTY DIAMETER QUANTITY DIAGONAL RADIUS DIMENSION RAD RADIUS DIRECTION **DISTANCE** REF REFER TO, REFERENCE REINF REINFORCING DOWN REQD REQUIRE, REQUIRED DEAD LOAD RETAINING DITTO REV REVISION DRAWING ROOF ROOM **ROOF RAFTER** EACH ECCENTRIC BRACED FRAME SCHED **EACH FACE** SECTION ELECTRICAL SECT SELECT ELEVATION, ELEVATOR SEOR STRUCTURAL ENGINEER OF RECORD EMBED, EMBEDDED, EMBEDMENT SHT EMBED, EMBEDDED, EMBEDMENT EMBED SHTG SHEATHING EDGE NAI SIM SIMILAR **ENGR ENGINEER** SIMP SIMPSON STRONG-TIE COMPANY ENGINEER OF RECORD SPECIAL MOMENT-RESISTING FRAME EQUAL, EQUALLY SMS SHEET METAL SCREW **EQUIP EQUIPMENT** SOG EDGE SCREW, EACH SIDE SLAB-ON-GRADE SPCL EACH WAY SPECIAL SPACED, SPACING EXCAVATE, EXCAVATION SPA EXC SPCS SPACES **EXPANSION** SPECIFICATION **EXTERIOR** SQUARE STAINLESS STEEL FDN FOUNDATION STAGG STAGGER FLNG **FLANGE** STD STANDARD **FLOOR** STIFF STIFFEN, STIFFENER STIRR FIELD NAIL STIRRUP STL FACE OF STEEL STRUC STRUCTURAL FRMG FRAMING SHEAR WALL FIELD SCREW FOOTING SYM SYMMETRICAL FTR FULLY-THREADED ROD **TOP & BOTTOM TONGUE & GROOVE** GALV GALVANIZE TBD TO BE DETERMINED GENERAL CONTRACTOR TEMP TEMPERATURE, TEMPORARY GLUED-LAMINATED BEAM THK THICK, THICKNESS

GLB

HDR

HFX

HGR

HORIZ

INSP

GRADE

HEADER

HANGER

HEIGHT

HEXAGONAL

HORIZONTAL

**INSIDE FACE** 

INSIDE DIAMETER

INTERIOR, INTERSECTION

HILTI KWIK BOLT 3 (ANCHOR)

HILTI KWIK BOLT TZ (ANCHOR)

KIPS PER SQUARE FOOT

KIPS PER SQUARE INCH

INVERT, INVERTED INSPECTOR OF RECORD

INFORMATION

INSPECTION

JOIST

JOINT

KIPS (1000#)

KING POST

HOUR (FIRE RATING

#### **GENERAL STRUCTURAL NOTES:**

1. DESIGN CRITERIA: THE FOLLOWING DESIGN PARAMETERS HAVE BEEN USED IN THE DESIGN OF THE STRUCTURAL, AND WHERE APPLICABLE, NON-STRUCTURAL SYSTEMS REPRESENTED IN THESE STRUCTURAL DRAWINGS.

A. CODE OF RECORD: 2019 CBC

B. AUTHORITY HAVING JURISDICTION: DIVISION OF THE STATE ARCHITECT (DSA) (REFERENCE TO THE "AUTHORITY HAVING JURISDICTION" OR "GOVERNING AGENCY" THROUGHOUT THESE STRUCTURAL DRAWINGS SHALL BE CONSIDERED TO BE THE AUTHORITY LISTED ABOVE.)

C. BUILDING RISK CATEGORY: II

D. DESIGN LOADS (VERTICAL/GRAVITY):

 ROOF: \_\_\_\_LL: 20 PSF THESE LOAD VALUES REPRESENT THE ALLOWABLE SUPERIMPOSED LIVE LOADS FOR WHICH THE STRUCTURE HAS BEEN DESIGNED, ASSUMING THE NOTED MATERIALS STRENGTHS ARE ACHIEVED AND THE STRUCTURE HAS BEEN FULLY ERECTED AND SECURED. MINOR ADJUSTMENTS MAY HAVE BEEN USED FOR SPECIAL DESIGN CASES WHERE MORE REFINED VALUES ARE REQUIRED.

-7.2 PSF

E. WIND DESIGN PARAMETERS: ULTIMATE (LFRD) DESIGN WIND SPEED (V 3 SEC. GUST): WIND DIRECTIONALITY FACTOR, (Kd): EXPOSURE CATEGORY:

 TOPOGRAPHIC FACTOR, (Kzt): GUST EFFECT FACTOR: ENCLOSURE CLASSIFICATION: **ENCLOSED**  INTERNAL PRESSURE COEFFICIENT, (GCpi): +/-0.18 ULTIMATE DESIGN WIND PRESSURE: MWFRS (WINDWARD WALL): 11.6 PSF

F. SEISMIC DESIGN PARAMETERS:

MWFRS (LEEWARD WALL):

SEISMIC IMPORTANCE FACTOR:

SEISMIC DESIGN CATEGORY:

 SEISMIC SITE CLASS: SITE COEFFICIENTS, SPECTRAL ACCELERATION PARAMETERS: SS: 1.114a

 S1: 0.398a DESIGN SPECTRAL ACCELERATION PARAMETERS: SDS: 0.891g SD1: 0.505g

 RISK CATEGORY: 2. ASTM DESIGNATIONS, ICC REPORT REFERENCES, AND ALL STANDARDS AND REFERENCED DOCUMENTS SHALL REFER TO

THE LATEST EDITIONS AND/OR AMENDMENTS AS ADOPTED BY THE CODE OF RECORD.

3. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE PROJECT. WHERE SPECIFIC DETAILS ARE NOT PROVIDED, THE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN. HOWEVER, WHEN A SPECIFIC DETAIL OR NOTE HAS BEEN PROVIDED, REFERENCED OR CALLED OUT ON PLAN, THAT DETAIL OR NOTE SHALL GOVERN FOR THE SPECIFIC CASE. IN ADDITION, WHEN A DETAIL IS REFERENCED AS SIMILAR (SIM) TO A SPECIFIC DETAIL, OR WHEN IT CAN BE REASONABLY INFERRED THAT A SITUATION IS SIMILAR TO A SPECIFIC DETAIL, THAT SPECIFIC DETAIL SHALL BE ASSUMED TO APPLY UNTIL OTHERWISE DIRECTED BY THE ENGINEER OF RECORD.

4. THESE STRUCTURAL DRAWINGS ARE AN INTEGRAL PART OF, AND RELIANT ON, INFORMATION CONTAINED WITHIN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS PREPARED FOR THE PROJECT. AS SUCH, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO REVIEW AND COORDINATE INFORMATION CONTAINED IN THE CIVIL/ARCH/M/E/P AND SPECIALTY CONSULTANT DRAWINGS AND SPECIFICATIONS TO ENSURE A FULL UNDERSTANDING OF THE PROJECT REQUIREMENTS. ANY OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL CLARIFICATION AND/OR DIRECTION HAS BEEN GIVEN.

5. PRIOR TO STARTING WORK ON THE PROJECT AND/OR ON A SPECIFIC AREA OF THE PROJECT. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE COORDINATED FROM THE ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS. WHERE DIMENSIONS DIFFER BETWEEN PLANS, THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED AND THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL DIRECTION HAS BEEN PROVIDED. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALES SHOWN ON THE

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES. THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE USED FOR THE SIZE AND LOCATION OF ALL OPENINGS (EXCEPT AS SPECIFICALLY CONTROLLED BY THE STRUCTURAL DRAWINGS) INTERIOR NON-BEARING PARTITIONS, CONCRETE CURRS, SLOP DEPRESSIONS, CHANGES IN LEVEL, FINISHES, CHAMFERS OR GROOVES, FLOOR AND ROOF DRAINS, INSERTS, SLEEVES, PIPES, CONDUITS AND OTHER NON-STRUCTURAL ITEMS.

7. UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL PLANS OR REFERENCED DETAILS, DO NOT PLACE MECHANICAL, ELECTRICAL (INCLUDING LOW-VOLTAGE AV), AND PLUMBING (MEP) SLEEVES, PIPES, INSERTS OR CONDUIT IN OR THROUGH STRUCTURAL MEMBERS, REGARDLESS OF MATERIAL, WITHOUT PRIOR APPROVAL AND DIRECTION BY THE STRUCTURAL ENGINEER. EXCEPT AS SPECIFICALLY SHOWN ON PLAN, NO STRUCTURAL MEMBER (BEAM, COLUMN, SHEAR WALL, STRUCTURAL SLAB, GRADE BEAM, BRACE, ETC.) SHALL BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR AUTHORIZATION AND DIRECTION FROM THE STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

8. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST CURRENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. WHERE THE ACTUAL CONDITIONS VARY FROM THAT SHOWN IN THESE DRAWINGS. THEY SHALL BE REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER SO THAT PROPER CLARIFICATION OR REVISION MAY BE MADE. THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL CLARIFICATION AND/OR DIRECTION HAS BEEN GIVEN.

9. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION, UNLESS SPECIFICALLY NOTED OTHERWISE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BUT NOT LIMITED TO BRACING, SHORING, AND LAY DOWN OF

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EFFECTS OF TEMPORARY CONSTRUCTION LOADING, INCLUDING LOADING FROM EQUIPMENT SUCH AS SKIP LOADERS, SCISSOR LIFTS, ETC. AND HORIZONTAL WIND AND SEISMIC FORCES IMPOSED DURING THE CONSTRUCTION SCHEDULE, ON ALL PORTIONS OF THE STRUCTURE, WHETHER ELEVATED OR ON-GRADE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PATH-OF-TRAVEL FOR MOVING PERMANENT EQUIPMENT TO ITS FINAL LOCATION, INCLUDING THE EFFECTS OF TEMPORARY LOADING AS THE EQUIPMENT IS INSTALLED. THE CONTRACTOR MAY USE THE "DESIGN LOADS" INFORMATION PROVIDED IN NOTE #1 ABOVE WHEN CONSIDERING TEMPORARY CONSTRUCTION LOADING CONDITIONS.

11. OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER SHALL NOT BE DEEMED TO INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR OF THE CONSTRUCTION PROCEDURES. OBSERVATION VISITS AND CONSTRUCTION SUPPORT SERVICES ARE PROVIDED BY THE STRUCTURAL ENGINEER OR HIS/HER REPRESENTATIVE SOLELY FOR THE PURPOSE OF ASSISTING THE OWNER IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THESE SUPPORT SERVICES SHALL NOT BE DEEMED TO PROVIDE A GUARANTEE OF THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUCTED AS ACCEPTANCE OR SUPERVISION OF

CONSTRUCTION.

 A. SHOP DRAWINGS AND SUBMITTALS, INCLUDING CONCRETE MIX DESIGNS, REQUIRED BY THE SPECIFICATIONS AND/OR THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OR USE. A SCHEDULE FOR THE RELEASE OF SHOP DRAWINGS AND SUBMITTALS SHALL BE PREPAREI BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO THE FIRST SUBMITTAL. THIS SUBMITTAL SCHEDULE SHALL PROPORTION THE NUMBER OF SHOP DRAWINGS TO BE REVIEWED IN EACH SUBMITTAL TO ALLOW SUFFICIENT TIME AS DEEMED REASONABLE IN THE PROFESSIONAL JUDGMENT OF THE ARCHITECT AND STRUCTURAL ENGINEER TO PERMIT ADEQUATE REVIEW. MHP WILL COORDINATE WITH THE ARCHITECT AND/OR CONTRACTOR TO ENSURE THAT THE SUBMITTAL SCHEDULE PRIORITIZES THE REVIEW IN A MANNER CONSISTENT WITH THE ANTICIPATED CONSTRUCTION SEQUENCE. SHOP DRAWINGS AND SUBMITTALS SHALL REFERENCE THE LATEST REVISION OF EACH STRUCTURAL DESIGN DRAWING USED FROM WHICH TO DETAIL. SHOP DRAWINGS AND/OR SUBMITTALS THAT DO NOT IDENTIFY THE LATEST REVISION OF THE STRUCTURAL DRAWINGS AND/OR DO NOT REFERENCE THE AGENCY APPROVED CONSTRUCTION DOCUMENTS SHALL BE RETURNED FOR THE DETAILER TO UPDATE AND RESUBMIT. PARTIALLY COMPLETE SHOP DRAWINGS AND SHOP DRAWINGS COMPLETED WITHOUT INCORPORATING THE INFORMATION PROVIDED IN RESPONSE TO REQUESTS FOR INFORMATION (RFI/RFC) MAY BE RETURNED (AT MHP'S SOLE DISCRETION) FOR UPDATING IF IT IS DETERMINED THAT SUCH INFORMATION WAS PROVIDED IN A TIMELY MANNER PRIOR TO THE RELEASE OF THE SHOP DRAWING SUBMITTAL. IF A SUBMITTAL MUST BE REVISED, IT SHALL IDENTIFY EACH REVISION AND/OR ADDITION TO EACH SHOP DRAWING BY CLOUDING OR OTHER MEANS.

B. SUBMITTALS, INCLUDING SHOP DRAWINGS, DEFERRED APPROVAL ITEMS, AND RFI/RFCS, WILL NOT BE ACCEPTED BY MHP DIRECTLY FROM THE PROJECT SUB-CONTRACTORS. SUBMITTALS WILL BE ACCEPTED FROM THE OWNER'S AUTHORIZED CONTRACT ADMINISTRATOR (I.E. GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OR ARCHITECT) ONLY AFTER THEY HAVE BEEN CONFIRMED TO COMPLY WITH CONTRACT SUBMITTAL REQUIREMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE OWNER'S AUTHORIZED CONTRACT ADMINISTRATOR SHALL COORDINATE AND VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS REGARDING DISTRIBUTION OF THE SUBMITTALS TO AND THROUGH THE ARCHITECT'S OFFICE.

C. SUBMITTALS FOR DEFERRED APPROVAL ITEMS, SUCH AS (BUT NOT LIMITED TO) ELEVATORS AND CURTAIN WALLS, SHALL INCLUDE CALCULATIONS, DETAILED PLANS AND SPECIFICATIONS FOR ALL ELEMENTS OF THE DEFERRED SYSTEM INCLUDING, BUT NOT LIMITED TO, MEMBERS, SUPPORTING BRACKETS OR ATTACHMENTS, AND ANCHORAGE. DEFERRED APPROVAL ITEM SUBMITTALS SHALL BE ISSUED TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND VERIFICATION THAT THE PROPOSED SYSTEM DOES NOT NEGATIVELY IMPACT NOR SUBSTANTIALLY CHANGE THE STRUCTURAL LOADS AND SUPPORT CONDITIONS FOR WHICH THE BASE STRUCTURE WAS DESIGNED WITH ADEQUATE TIME TO ALLOW ANY REQUIRED CHANGES TO BE MADE BEFORE FORMAL SUBMITTAL TO THE GOVERNING AGENCY. FOLLOWING VERIFICATION BY THE SEOR AND ARCHITECT. THE MANUFACTURER OR CONTRACTOR SHALL SUBMIT THE CALCULATIONS, DETAILED PLANS, AND SPECIFICATIONS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE, TO THE GOVERNING AGENCY FOR APPROVAL. INSTALLATION OF DEFERRED ITEM ELEMENTS, SUCH AS GUIDE RAILS, MULLIONS, SUPPORTING BRACKETS, AND/OR ITEMS CONTINGENT ON THE DEFERRED SUBMITTAL SHALL NOT BE STARTED UNTIL

THE DETAILED PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE GOVERNING AGENCY. D. WHEN THE ALLOWANCE FOR SUBSTITUTION OF A SPECIFIED MATERIAL OR PRODUCT DESIGNATION IS IMPLIED WITHIN THE CONSTRUCTION DOCUMENTS BY THE USE OF THE WORDS "ACCEPTED ALTERNATES", "ALTERNATIVE PRODUCTS/SUPPLIERS", ETC. OR "OR APPROVED EQUAL", A FORMAL SUBSTITUTION REQUEST SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR. THE FORMAL SUBSTITUTION REQUEST SHALL CLEARLY IDENTIFY THE ORIGINAL PRODUCT AND THE REQUESTED SUBSTITUTE PRODUCT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE REQUESTED SUBSTITUTION IS "EQUAL" TO, OR BETTER THAN, THE ORIGINAL PRODUCT FOR ALL CONSIDERATIONS SUCH AS, BUT NOT NECESSARILY LIMITED TO, STRENGTH, PERFORMANCE, AND INSTALLATION VARIABLES, INCLUDING SCHEDULE, SUCH VERIFICATION SHALL BE CLEARLY OUTLINED IN THE FORMAL SUBMITTAL AS A TABULAR COMPARISON BETWEEN THE ORIGINAL PRODUCT CRITERIA AND THE REQUESTED SUBSTITUTE'S PRODUCT CRITERIA. APPROVAL OF THE SUBSTITUTION REQUEST SHALL BE OBTAINED FROM THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND, IF NECESSARY, THE GOVERNING AGENCY, PRIOR TO FABRICATION OR INSTALLATION OF THE SUBSTITUTED MATERIAL OR PRODUCT.

PRESUMPTIVE LOAD BEARING VALUES PER CODE WERE USED FOR THE STRUCTURAL DESIGN OF FOUNDATIONS AND

EARTH RETAINING ELEMENTS CONTAINED HEREIN. IF IT IS DETERMINED THAT ANY OF THE CODE REQUIREMENTS ON

WHICH THESE PRESUMPTIVE VALUES ARE BASED WILL NOT BE FOLLOWED DURING CONSTRUCTION, A FORMAL CHANGE

ORDER SHALL BE PREPARED WITH ADEQUATE TIME FOR PROCESSING APPROVAL BY THE SEOR AND THE GOVERNING

AGENCY. MHP, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR ADEQUACY OF THE PRESUMPTIVE VALUES.

1.500 PSF

1.500 PSF

• FOR LOAD COMBINATIONS INCLUDING WIND OR SEISMIC, ONE-THIRD (1/3) INCREASE ON PASSIVE PRESSURE IS

3. ALL SITE FILL AND BACKFILL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE PROJECT

4. SPECIAL INSPECTION SHALL BE PERFORMED BY THE PROJECT INSPECTOR, WITH THE APPROPRIATE REGIONAL

SPECIFICATIONS, IF APPLICABLE AND ASTM TEST METHOD D-1557. FLOODING IS NOT PERMITTED AND SHALL NOT BE

EXPERIENCE AND BACKGROUND KNOWLEDGE TO CONFIRM THAT THE USE OF THE PRESUMPTIVE LOAD BEARING VALUES

PER CODE IS APPROPRIATE. THE SPECIAL INSPECTION SHALL TAKE PLACE PRIOR TO INSTALLATION OF REINFORCING OR

OTHER ELEMENTS WHICH MAKE THE EXCAVATIONS INACCESSIBLE FOR ANY CORRECTIVE WORK DEEMED NECESSARY

FOR APPROVAL. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE SEOR PRIOR TO POURING

5. WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO PLACING OF CONCRETE. CARE SHALL BE TAKEN

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEQUENCING AND SHORING, ETC., NECESSARY TO SUPPORT CUT

AVOID DISTURBING SOILS AROUND AND/OR SUPPORTING EXISTING FOUNDATIONS AND UTILITIES.

1. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO STANDARDS AND

WITHIN THE WRI "MANUAL OF STANDARD PRACTICE - STRUCTURAL WELDED WIRE REINFORCEMENT"

AND/OR FILL BANKS DURING EXCAVATION AND FORMING AND PLACEMENT OF CONCRETE. CARE SHALL BE TAKEN TO

RECOMMENDATIONS CONTAINED WITHIN THE CRSI "MANUAL OF STANDARD PRACTICE". DETAILING FABRICATION AND

2. REINFORCING BARS (REBAR), STEEL WELDED WIRE REINFORCING (WWR), AND TIE WIRE USED TO SECURE REBAR AND

ALL REINFORCING STEEL SHALL BE BENT COLD. GRADE 60 BARS MAY ONLY BE BENT ONCE, STRAIGHTENING AND/OR

WELL-SECURED IN POSITION AND SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND.

5. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE BAR. MINIMUM

6. MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A SINGLE LAYER SHALL NOT BE LESS THAN 1 1/2". 4/3 TIMES

LARGEST AGGREGATE. 1 1/2 TIMES DIAMETER OF THE LARGER BAR. WHICHEVER IS GREATER. WHERE PARALLEL

7. DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING STEEL AND WELDED WIRE REINFORCING SHALL BE AS

REINFORCING IS PLACED IN TWO OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE

NOTED ON PLANS AND DETAILS CONTAINED THEREIN. WHERE SPLICE LOCATIONS ARE NOT SPECIFICALLY INDICATED,

SPLICES SHALL BE STAGGERED A MINIMUM OF ONE (1) LAP LENGTH. WHERE SPECIFIC LAP LENGTH REQUIREMENTS ARE

SEE TYPICAL DETAILS

SEE TYPICAL DETAILS

8. COMPLETE REINFORCING PLACEMENT DRAWINGS (SHOP DRAWINGS) SHALL BE PREPARED IN ACCORDANCE WITH ACI 315

9. CONTRACTOR SHALL SCHEDULE SPECIAL INSPECTIONS SO THAT BAR SIZE, SPACING, LAP SPLICE AND EMBEDMENT

IF NECESSARY, PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL AND/OR PLACEMENT OF

AND SHALL BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. APPROVED SHOP DRAWINGS SHALL BE

MADE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. SEE SUBMITTALS SECTION OF THE STRUCTURAL

LENGTH OF REINFORCING BARS, AND THE LOCATION OF CONDUIT, SLEEVES AND EMBEDDED ITEMS, MAY BE CORRECTED.

1 1/2 x WIRE GRID SPACES (9" MIN)

WHERE TWO LAYERS OF REINFORCING STEEL ARE REQUIRED (I.E. FOOTING PADS OR SLABS) PROVIDE APPROPRIATE

RE-BENDING IS NOT ALLOWED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEQUENCE PLACEMENT OF

4. PRIOR TO PLACING CONCRETE: REINFORCING STEEL, INCLUDING WWR, AND OTHER EMBEDDED ITEMS SHALL BE

CHAIRS TIED TO AND SUPPORTED BY LOWER MAT OF REINFORCING TO SUPPORT THE UPPER MAT OF

PLACING OF WELDED WIRE REINFORCING SHALL CONFORM TO THE STANDARDS AND RECOMMENDATIONS CONTAINED

ASTM A-615, GR 60

ASTM A-1064

ASTM A-1064

CONCRETE. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION MAY BE REQUIRED.

0.25 x DEAD LOAD

2. THE FOLLOWING DESIGN PARAMETERS WERE USED AS THE BASIS FOR ALLOWABLE FOUNDATION LOADS AND SOIL

FOR LOAD COMBINATIONS INCLUDING WIND OR SEISMIC, ONE-THIRD (1/3) INCREASE IS ALLOWED.

PRESSURES:

**REINFORCING STEEL:** 

D. TIE WIRE:

A. ALLOWABLE SOIL BEARING PRESSURES:

EQUIVALENT FLUID PRESSURE (ACTIVE):

EQUIVALENT FLUID PRESSURE (AT REST):

TO AVOID DRYING OUT UNDERLYING NATURAL SOILS.

7. SEE SPECIAL INSPECTION GENERAL NOTES FOR INSPECTION REQUIREMENTS.

WWR SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS, UNO:

REINFORCING SUCH THAT INCIDENTAL BENDING DOES NOT OCCUR.

REINFORCING. "HOOK AND PULL" METHODS SHALL NOT BE ALLOWED.

COVER FOR CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:

B. EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

ALL MEMBERS, #5, W31 OR D31 WIRE AND SMALLER

SLABS, JOISTS, WALLS; #11 BARS AND SMALLER:

NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

PRIMARY REINF, STIRRUPS, TIES, SPIRALS AND HOOPS:

THE BARS IN LOWER LAYERS WITH NOT LESS THAN 1" CLEAR SPACE BETWEEN LAYERS.

NOT SPECIFICALLY SHOW ON PLANS, THE FOLLOWING MINIMUM LENGTHS SHALL BE USED:

ALL MEMBERS, ALL REINFORCEMENT

ALL MEMBERS, #6 THROUGH #18 BARS:

SLABS, JOISTS, WALLS; #14 AND #18 BARS:

BEAMS, COLUMNS;

A. REBAR IN CONCRETE:

B. REBAR IN MASONRY:

C. WWR IN CONCRETE:

CONCRETE.

A. CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND

B. REINFORCING BARS TO BE WELDED (ALL BAR SIZES UNO): ASTM A-706, GR 60

A. REINFORCING, (ALL BAR SIZES, UNO):

. WELD WIRE REINFORCING:

SPREAD/ISOLATED FOOTINGS:

CONTINUOUS FOOTINGS:

B. RETAINED EARTH PRESSURES:

FRICTION COEFFICIEN

USED FOR COMPACTION PURPOSES.

PASSIVE PRESSURE

C. RESISTANCE TO SLIDING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI), "ACI MANUAL OF CONCRETE PRACTICE" CURRENT EDITION, "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301), AND BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).

2. WHEN SPECIFIED FOR USE, NORMAL WEIGHT (NWT) CONCRETE SHALL HAVE A DRY UNIT WEIGHT OF 150 ± 3 PCF. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.

3. CEMENT SHALL CONFORM TO PORTLAND CEMENT ASTM C-150 (TYPE II) UNLESS NOTED OTHERWISE. WHEN USED IN THE

CONCRETE MIX, FLY ASH SHALL CONFORM TO ASTM C618 CLASS F OR N.

ADMIXTURES SHALL CONFORM TO THE FOLLOWING: A. WATER REDUCTION AND SETTING TIME MODIFICATION: ASTM C494 B. PRODUCING FLOWING CONCRETE: **ASTM C1017** C. AIR ENTRAINMENT: ASTM C260

4. MIXING WATER SHALL CONFORM TO ASTM C1602.

D. INHIBITING CHLORIDE-INDUCED CORROSION:

6. ALL NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107/C1107M AND SHALL BE PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT AND WATER-REDUCING AND PLASTICIZING AGENTS.

ASTM C1582

A. MINIMUM COMPRESSIVE STRENGTH AT 48 HOURS: B. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

7. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (fc) AT 28 DAYS AND SHALL MEET THE OTHER REQUIREMENTS INDICATED BELOW:

A. FOOTINGS: 3,000 PSI, NWT, 1 1/2" AGGREGATE, 0.45 W/C B. SLABS ON GRADE: 3,000 PSI, NWT, 1" AGGREGATE, 0.45 W/C C. ALL OTHER CONCRETE: 4,000 PSI, NWT, 1" AGGREGATE, 0.45 W/C

MAXIMUM SLUMP FOR CONCRETE MIXES SHALL BE 5" TYPICALLY AND 4" FOR ALL FLATWORK, WHETHER ON GRADE OR ELEVATED, EXCEPT WHEN A HIGH RANGE WATER REDUCING ADMIXTURE IS SPECIFIED FOR USE IN THE CONCRETE MIX DESIGN, SLUMP SHALL BE A MAXIMUM OF 9".

9. CONCRETE MIX PROPORTIONING SHALL BE IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301, AND BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES. STRENGTH TEST RECORDS USED FOR ESTABLISHING AND DOCUMENTING CONCRETE MIXTURE PROPORTIONS SHALL BE NO MORE THAN 24 MONTHS OLD. A CONCRETE MIX DESIGN SHALL BE PROVIDED FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE TO BE USED ON THE PROJECT. THE CONCRETE MIX DESIGN SHALL BE PREPARED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER AND TESTING SHALL BE BY AN APPROVED TESTING LABORATORY. ALL CONCRETE MIX DESIGNS SHALL BE STAMPED AND SIGNED BY THE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE MIX PROPORTIONING AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR REVIEW.

10. CONCRETE MIX DESIGN SHALL BE PREPARED BY AN APPROVED TESTING LAB AND A REGISTERED CIVIL ENGINEER AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR REVIEW. CONCRETE MIX DESIGN SUBMITTALS SHALL BE STAMPED AND SIGNED BY THE LICENSED ENGINEER RESPONSIBLE FOR THE MIX DESIGN.

11. WHEN USED, AIR ENTRAINMENT SHALL NOT BE MORE THAN 5%.

12. ALL FURNISHED CONCRETE MIX DESIGNS SHALL REFLECT PROVEN CONCRETE SHRINKAGE CHARACTERISTICS OF 0.0004IN/IN (0.04%) FINAL SHRINKAGE STRAIN OR LESS AT ALL SLABS (INCLUDING TOPPING SLABS WHERE THEY OCCUR), AND 0.0006 IN/IN (0.06%) FINAL SHRINKAGE STRAIN OR LESS AT OTHER CONCRETE ELEMENTS, AS DETERMINED IN ACCORDANCE WITH ASTM C157.

13. CONCRETE SHALL BE CONVEYED TO FINAL LOCATION BY METHODS THAT PREVENT SEGREGATION OR LOSS OF CONSTITUENTS AND ENSURE THE REQUIRED CONCRETE QUALITY

14. WATER SHALL NOT BE ADDED TO CONCRETE AT THE SITE.

15. LOCATE CONSTRUCTION AND/OR CONTROL JOINTS AS INDICATED IN CONTRACT DOCUMENTS AND/OR SUBMIT INFORMATION FOR ACCEPTANCE OF PROPOSED LOCATION AND TREATMENT OF JOINTS NOT INDICATED IN CONTRACT

16. ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 1/4" AMPLITUDE. THOROUGHLY CLEANED AND ALL LAITANCE SHALL BE REMOVED. ALL JOINTS SHALL BE THOROUGHLY DAMPENED, BUT WITHOUT STANDING WATER, IMMEDIATELY BEFORE PLACING NEW CONCRETE. ADDITIONALLY, WHERE CONSTRUCTION JOINTS ARE FORMED, LONGITUDINAL KEYWAYS, 1 1/2" DEEP, SHALL BE USED.

17. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES TO VERIFY THE LOCATION OF ALL ITEMS SUCH AS, BUT NOT LIMITED TO, SLEEVES, ANCHORS, ANCHOR BOLTS, CONDUITS, EMBED PLATES ETC. TO BE INSTALLED WITHIN CONCRETE ELEMENTS. EMBEDDED ITEMS NOT SPECIFICALLY SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE LOCATED BY THE TRADES/SUB-CONTRACTORS INVOLVED, AND SHALL BE REVIEWED BY THE SEOR PRIOR TO PLACEMENT OF CONCRETE. IN COORDINATING THE LOCATION OF EMBEDDED ITEMS NOT OTHERWISE LOCATED IN THE STRUCTURAL DRAWINGS. PRIORITY SHALL BE GIVEN TO MAINTAIN SPACING AND CONTINUITY OF ALL REINFORCING. EMBEDDED ITEMS SHALL BE WELL DISTRIBUTED TO AVOID CLUSTERING IN SUCH A MANNER AS TO REQUIRE CUTTING OR RELOCATION OF REINFORCING STEEL.

18. UNLESS OTHERWISE NOTED, BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM F-1554 GR 36. ALL EMBEDDED ANCHOR BOLTS SHALL BE HEADED-TYPE. DO NOT USE J-TYPE BOLTS.

19. UNLESS OTHERWISE NOTED, A 3/4" CHAMFER SHALL BE PROVIDED AT EXPOSED EDGES OF CONCRETE BEAMS AND

20. PRIOR TO PLACING CONCRETE, ALL EMBEDDED ITEMS, INCLUDING REINFORCING STEEL, SHALL BE WELL SECURED IN POSITION, CONCRETE SHALL NOT BE POURED UNTIL ALL FORMS AND REINFORCING HAVE BEEN INSPECTED, ALL PREPARATIONS FOR THE PLACEMENT HAVE BEEN COMPLETED, AND THE PREPARATIONS HAVE BEEN REVIEWED BY THE PROJECT INSPECTOR.

21. ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED AT THE JOB SITE AT ANY ONE TIME.

22. CONCRETE TO BE PLACED DURING COLD WEATHER SHALL COMPLY WITH ACI 306R, "GUIDE TO COLD WEATHER CONCRETING" AND ACI 306.1, "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING".

23. CONCRETE TO BE PLACED DURING HOT WEATHER SHALL COMPLY WITH ACI 305R, "GUIDE TO HOT WEATHER CONCRETING" AND ACI 305.1, "STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING".

24. CONCRETE SHALL BE MAINTAINED IN A CONTINUOUSLY MOIST CONDITION ABOVE 50F FOR A MINIMUM OF SEVEN (7) DAYS AFTER PLACEMENT. THE 7-DAY REQUIREMENT MAY BE REDUCED TO 3 DAYS FOR HIGH-EARLY-STRENGTH CONCRETE. ALTERNATE ACCELERATED CURING METHODS MAY BE APPROVED BY THE SEOR IF SATISFACTORY PERFORMANCE CAN BE ASSURED.

25. THE CONTRACTOR SHALL DEVELOP A PROCEDURE AND SCHEDULE FOR REMOVAL OF SHORES AND INSTALLATION OF RE-SHORES, AS REQUIRED. NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THE CONTRACTOR'S ANALYSIS, PROCEDURES AND SCHEDULE INDICATE THAT THE SUBJECT PART OF THE STRUCTURE HAS SUFFICIENT STRENGTH AND STIFFNESS TO SUPPORT ITS WEIGHT AND LOAD PLACED THEREON WITHOUT ADVERSE EFFECT. AT A MINIMUM, ALL ELEVATED STRUCTURAL MEMBERS SHALL BE SHORED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH AND ORIGINAL SHORING OR RE-SHORING SHALL REMAIN IN PLACE FOR A MINIMUM OF 28 DAYS.

26. ALL CONCRETE SHALL BE TESTED AND INSPECTED AS REQUIRED PER THE SPECIAL INSPECTION SECTION OF THESE GENERAL NOTES.

DSA STAMP IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC APP: 04-119774 INC: REVIEWED FOR SS | FLS | ACS |



architecture

www.hpiarchitecture.com 115 22nd street Newport Beach, CA 92663 o: 949.675.6442



PROJECT TITLE

SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

	ISSUED						
#	DATE	DESCRIPTION					
	2021-02-03	DSA SUBMITTAL					

PROJECT IDENTIFICATION THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

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SHEET TITLE

STRUCTURAL NOTES AND ABBREVIATIONS

SHEET NUMBER

S1.00

**DSA SUBMITTAL** 

#### POST-INSTALLED ANCHORS:

- POST INSTALLED ANCHOR NOTES IN THIS SECTION SHALL APPLY TO ALL ANCHORS (INCLUDING THREADED ROD OR REINFORCING BARS) INSTALLED INTO HARDENED CONCRETE OR MASONRY EXCEPT FOR POWDER DRIVEN FASTENERS, AS APPLICABLE, SEE POWDER DRIVEN FASTENER GENERAL NOTES FOR MORE INFORMATION.
- 2. INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS AND THE APPLICABLE EVALUATION REPORT, AND SHALL BE INSTALLED BY PERSONNEL TRAINED TO INSTALL THE TYPE OF POST-INSTALLED ANCHOR BEING INSTALLED.
- 3. LOCATE EXISTING REINFORCING BY NON-DESTRUCTIVE METHODS PRIOR TO DRILLING. EXISTING REINFORCING SHALL NOT BE CUT OR DAMAGED.
- 4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 2500 PSI, BE A MINIMUM OF 21 DAYS OLD AND
- HAVE A MINIMUM TEMPERATURE OF 50 DEGREES FAHRENHEIT WHEN DRILLING OCCURS.

  5. HOLES FOR INSTALLATION OF THE POST-INSTALLED ANCHOR SHALL BE DRILLED USING A DRILL THAT HAS A

CARBIDE-TIPPED BIT THAT COMPLIES WITH ANSI B212.15. A REBAR CUTTING DRILL BIT IS NOT ALLOWED.

- 6. CONTRACTOR SHALL USE APPROPRIATE EQUIPMENT AND METHODS AS REQUIRED TO PROVIDE DRILLED HOLES FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH APPLICABLE STANDARDS, MANUFACTURER'S RECOMMENDATIONS, AND QUALIFYING (ICC) TEST REPORTS. CARE SHALL BE TAKEN TO PREVENT OVERSIZING, OVALING, AND/OR BLOW-OUT THROUGH THE BACK FACE OF THE DRILLED MEMBER. IF OVERSIZING, OVALING, AND/OR BLOW-OUT OCCURS, THE EMPLOYED EQUIPMENT AND METHODS SHALL BE DISCONTINUED. ADDITIONAL DRILLING SHALL NOT BE RESUMED UNTIL THE SEOR HAS PROVIDED APPROVED REPAIR PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL SUCH REPAIRS. WHEN RESUMING DRILLING, THE CONTRACTOR SHALL MODIFY THE PROCEDURES AS NECESSARY TO PREVENT FURTHER DAMAGE.
- 7. HOLES SHALL BE CLEANED OF DUST AND DEBRIS, USING A WIRE BRUSH AND COMPRESSED AIR OR MANUFACTURER'S BLOW-OUT BULB (AS PER MANUFACTURER'S RECOMMENDATIONS) AS REQUIRED TO REMOVE PARTICULATE DEBRIS AND TO ACHIEVE A RELATIVELY DUST-FREE SURFACE.
- 8. OIL, SCALE, AND RUST SHALL BE REMOVED FROM THE POST-INSTALLED ANCHOR AND HOLES SHALL BE DRY, PRIOR TO INSTALLATION.
- 9. THE NOMINAL EMBEDMENT DEPTH (FROM FACE OF CONC OR CMU TO END OF ANCHOR) FOR POST INSTALLED ANCHORS SHALL BE AS NOTED ON THE DETAILS. FOR EXPANSION ANCHORS, REFER TO THE APPLICABLE EVALUATION REPORT FOR THE CORRESPONDING MINIMUM HOLE DEPTH.

ESR-2508

10. APPROVED ADHESIVE ANCHOR SYSTEMS (AND ANCHOR SPECIFICATION) AND EVALUATION REPORTS ARE AS FOLLOWS:

A.	CONCRETE:	
	<ul> <li>HILTI HIT-RE 500 V3 (ISO 898 CLASS 5.8)</li> </ul>	ESR-3814
	<ul> <li>HILTI HIT-HY 200 (ISO 898 CLASS 5.8)</li> </ul>	ESR-3
	<ul> <li>DEWALT PURE 110+ (A36)</li> </ul>	ESR-3298
	<ul> <li>DEWALT AC200+ (A36)</li> </ul>	ESR-4027
B.	HORIZONTAL SLAB-ON-GRADE DOWELS:	
	<ul> <li>HILTI HIT-RE 100</li> </ul>	ESR-3829
	<ul> <li>HILTI HIT-HY 100</li> </ul>	ESR-3574
	<ul> <li>DEWALT PURE 50+</li> </ul>	ESR-3576

SIMPSON SET-XP

- 11. APPROVED EXPANSION ANCHORS AND EVALUATION REPORTS ARE AS FOLLOWS:
- A. CONCRETE NOT EXPOSED TO WEATHER:

  HILTI KWIK BOLT-TZ ANCHORS
- DEWALT POWER-STUD+ SD2 ESR-2502
   SIMPSON STRONG-TIE STRONG-BOLT 2
- WEDGE ANCHOR \_\_\_\_\_ESR-3037
   B. CONCRETE EXPOSED TO WEATHER:
   STAINLESS STEEL HILTI KWIK BOLT-TZ ANCHORS ESR-1917
- DEWALT POWER-STUD+ SD4 OR SD6 \_\_\_\_\_ESR-2502
   STAINLESS STEEL SIMPSON STRONG-TIE
   STRONG-BOLT 2 WEDGE ANCHOR \_\_\_\_\_ESR-3037
- 12. WHERE APPLICABLE, EXPANSION ANCHORS SHALL BE INSTALLED WITH THE MINIMUM TORQUE, USING A CALIBRATED TORQUE WRENCH. WEDGE OR SLEEVE TYPE ANCHORS MUST ATTAIN THE SPECIFIED TORQUE WITHIN ONE HALF TURN OF THE NUT, EXCEPT 3/8" DIAMETER WEDGE OR SLEEVE TYPE ANCHORS MUST ATTAIN SPECIFIED TORQUE WITHIN ONE QUARTER TURN OF THE NUT.
- 13. INSTALLATION TORQUES FOR EXPANSION ANCHORS SHALL BE AS NOTED BELOW:

	PANSION ANCHOR INSTALLATION QUE LOADS IN CONCRETE (FT-LB)				
NOMINAL ANCHOR DIAMETER	HILTI KWIK BOLT TZ	DEWALT POWER STUD+ SD2, SD4, OR SD6	SIMPSON STRONG BOLT 2		
3/8"	25	20	30		
1/2"	40	40	60		
5/8"	60	60	90		
3/4"	110	110	150		

- 14. APPROVED SCREW ANCHORS AND EVALUATION REPORTS ARE AS FOLLOWS:
- A. <u>CONCRETE:</u>

   HILTI KH-EZ OR KH-EZ P ANCHORS\_ESR-3027
- DEWALT SCREW-BOLT+
   ESR-3889
- DEWALT ULTRACON+ \_\_\_\_ESR-3068
   SIMPSON TITEN HD \_\_\_\_ESR-2713
- ITW RED HEAD TAPCON+ ESR-3699
- 15. INSTALLATION TORQUES FOR SCREW ANCHORS SHALL BE AS NOTED BELOW

	STALLATION TORQUES FOR SCREW ANCHORS SHALL BE AS NOTED  SCREW ANCHOR INSTALLATION					
	TORQUE LOADS IN CONCRETE (FT-LB)					
NOMINAL ANCHOR DIAMETER	HILTI KH-EZ OR KH-EZ P	DEWALT SCREW BOLT+	SIMPSON TITEN HD	TAPCON+		
1/4"	18	N/A	N/A	N/A		
5/16"	N/A	N/A	N/A	20		
3/8"	40 (19 AT EMBED < 1 5/8")	20	30	50		
1/2"	45	40	60	70		
5/8"	85	60	90	N/A		

16. SEE SPECIAL INSPECTION AND TESTING NOTES FOR INSPECTION REQUIREMENTS.

3/4" 115 110 150 N/A

#### SPECIAL INSPECTIONS:

- 1. THE OWNER, OR THE OWNER'S AUTHORIZED AGENT (OTHER THAN THE CONTRACTOR AS APPLICABLE) SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS, INCLUDING AS APPLICABLE AN INSPECTOR OF RECORD (IOR), WHO SHALL PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR CERTAIN TYPES OF WORK WHEN SO SPECIFIED IN THE CONTRACT DOCUMENTS AND PROJECT SPECIFICATIONS. WHERE AN IOR IS REQUIRED BY THE GOVERNING AGENCY, THE IOR MAY PERFORM SPECIAL INSPECTIONS IF THAT PERSON IS QUALIFIED PER THE GOVERNING AGENCY'S STANDARDS FOR THE SPECIAL INSPECTION REQUIRED. WHERE AN IOR IS NOT REQUIRED, THESE SPECIAL INSPECTIONS SHALL BE IN ADDITION TO AND COMPLEMENTARY WITH THE INSPECTIONS PROVIDED BY THE GOVERNING AGENCY.
- 2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON FROM AN APPROVED AGENCY CONFORMING TO ASTM C1077 WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE GOVERNING AGENCY, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE DESIGN DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE AND OTHER APPLICABLE REGULATIONS IDENTIFIED WITHIN THE CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION AND THEN, IF UNCORRECTED, TO THE ATTENTION OF THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE GOVERNING AGENCY. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SPECIAL INSPECTOR AND SCHEDULE THE SPECIAL INSPECTIONS WITH ADEQUATE TIME TO ADDRESS ANY AND ALL POTENTIAL DISCREPANCIES PRIOR TO PROCEEDING WITH SUBSEQUENT WORK THAT COVERS OR OTHERWISE MAKES INACCESSIBLE ANY WORK IDENTIFIED AS DEVIATING FROM THE PROJECT REQUIREMENTS.
- 4. THE SPECIAL INSPECTOR SHALL FURNISH REGULAR INSPECTION REPORTS TO THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE GOVERNING AGENCY IDENTIFYING THE WORK INSPECTED AND ANY UNCORRECTED DISCREPANCIES FROM THE CONSTRUCTION DOCUMENTS. AT THE CONCLUSION OF THE PROJECT OR THE SPECIAL INSPECTORS ASSIGNED SCOPE OF WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS OR HER KNOWLEDGE, COMPLETED IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS (INCLUDING APPROVED RFI'S, ADDENDUMS, ETC.) AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE AND OTHER APPLICABLE REGULATIONS IDENTIFIED WITHIN THE CONSTRUCTION DOCUMENTS.
- 5. SPECIAL INSPECTIONS INDICATED BELOW SHALL BE PROVIDED IN EITHER A CONTINUOUS OR PERIODIC CAPACITY, AS DEFINED BELOW, AS REQUIRED BY THE INDIVIDUAL CODE OR REFERENCED STANDARD.
- 6. CONTINUOUS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. FOR STRUCTURAL STEEL, CONTINUOUS INSPECTION IS FURTHER DEFINED SUCH THAT INSPECTION SHALL TAKE PLACE ON EACH ELEMENT TO BE INSPECTED (I.E. EACH BOLT OR WELD).
- 7. PERIODIC SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. FOR STRUCTURAL STEEL, PERIODIC INSPECTION IS FURTHER DEFINED SUCH THAT ITEMS ARE OBSERVED ON A RANDOM BASIS.
- 8. SEE APPROVED FORM DSA-103, LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS FOR INSPECTION AND TESTING REQUIREMENTS. NOTES BELOW COMPLEMENT OR ARE IN ADDITION TO THE FORM DSA-103 REQUIREMENTS:
- CONCRETE SPECIAL INSPECTION AND TESTING NOTES:

  SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION ARE INCLUDED IN THE EVALUATION REPORT FOR EACH POST-INSTALLED ANCHOR ISSUED BY AN APPROVED SOURCE. THESE SPECIAL INSPECTION REQUIREMENTS SHOULD BE FOLLOWED. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT STRUCTURAL ENGINEER FOR SPECIAL INSPECTION REQUIREMENTS PRIOR TO PROCEEDING WITH THE WORK. PROJECT SPECIFIC SPECIAL INSPECTION MEASURES SHALL BE APPROVED BY THE GOVERNING AGENCY PRIOR TO THE COMMENCEMENT OF THE WORK. THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER. SEE POST INSTALLED CONCRETE AND MASONRY ANCHOR SPECIAL INSPECTION NOTES BELOW FOR MORE INFORMATION.
- 2. A STRENGTH TEST SHALL BE THE AVERAGE OF, AT A MINIMUM, TWO 6X12 CYLINDERS OR THREE 4X8 CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE. A TESTING LABORATORY SHALL MAKE AND TEST ONE SAMPLE SET FOR EACH 50 CUBIC YARDS OF CONCRETE BUT NOT LESS THAN ONE SAMPLE SET FOR EACH 2,000 SQFT OF SURFACE AREA FOR SLABS OR WALLS. IF TOTAL VOLUME OF CONCRETE IS SUCH THAT FREQUENCY OF TESTING WOULD PRODUCE FEWER THAN 5 STRENGTH TESTS FOR A GIVEN CONCRETE MIXTURE, THEN STRENGTH TEST SPECIMENS SHALL BE MADE FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 BATCHES ARE USED. AN ADDITIONAL SAMPLE FOR SEVEN-DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINNING OF CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
- 3. CONTINUOUS INSPECTION IS REQUIRED AT THE BATCH PLANT WHERE THE MATERIALS ARE MEASURED. CONTINUOUS INSPECTION MAY BE WAIVED IF APPROVED BY THE SEOR AND THE GOVERNING AGENCY, IF THE PLANT COMPLIES FULLY WITH ASTM C94, SECTIONS 9 AND 10, AND HAS CURRENT CERTIFICATION FROM THE NATIONAL READY MIXED CONCRETE ASSOCIATION OR OTHER AGENCY ACCEPTABLE TO THE GOVERNING AGENCY. WHEN CONTINUOUS INSPECTION IS WAIVED, THE FOLLOWING INSPECTIONS SHALL BE PERFORMED:
- WAIVED, THE FOLLOWING INSPECTIONS SHALL BE PERFORMED:

  A. INSPECT THE FIRST BATCH AT THE START OF THE DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO

B. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A

BATCH TICKET.

C. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE IOR BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE IOR SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE GOVERNING AGENCY.

POST-INSTALLED CONCRETE ANCHORS SPECIAL INSPECTION AND TESTING NOTES:

1. 100% OF POST-INSTALLED ANCHORS SHALL BE TESTED UNLESS NOTED OTHERWISE. TEST FREQUENCY WHEN LESS THAN 100% ARE AS INDICATED BELOW WHEN NOT SPECIFIED ELSEWHERE. ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE SPECIAL INSPECTOR OR INSPECTOR OF RECORD. ANCHOR TESTING FREQUENCIES FOR SPECIFIC

- CONDITIONS SHALL BE AS FOLLOWS:

  A. FOR NON-STRUCTURAL APPLICATIONS (I.E. EQUIPMENT OR MISCELLANEOUS ARCHITECTURAL APPENDAGE

  ANCHORAGE, NOT INCLUDING CURTAIN WALLS) ONLY 50% OR ALTERNATE POST-INSTALLED ANCHORS IN A GROUP
- (INCLUDING AT LEAST ONE HALF OF THE ANCHORS IN EACH GROUP) SHALL BE TESTED

  B. ONLY 10% OF ALL POST-INSTALLED ANCHORS SHALL BE TESTED WHEN USED FOR SILL PLATE BOLTING IN NON-SHEAR WALL APPLICATIONS
- C. TESTING NOT REQUIRED FOR UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET
   D. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL
- TEST FREQUENCY.

  E. HORIZONTAL SLAB DOWELS ARE NOT REQUIRED TO BE TESTED UNLESS NOTED OTHERWISE.
- 2. POST-INSTALLED ADHESIVE THREADED RODS AND DOWELS, AND CONCRETE SCREW ANCHORS SHALL BE PULL TESTED.

  A. PULL TEST LOADS AND TEST FREQUENCY WHEN LESS THAN 100% ARE PROVIDED ON APPLICABLE SECTIONS AND
- DETAILS WHERE ANCHORS ARE SPECIFIED, OR AS INDICATED ABOVE WHEN NOT SPECIFIED ELSEWHERE.

  B. TESTING DEVICE SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST, I.E. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING DEVICE APPARATUS SUPORT SHALL NOT BE LOCATED WITHIN 1.5 TIMES THE ANCHOR'S EMBEDMENT DEPTH TO AVOID RESTRICTING A CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURRING.
- 3. EXPANSION ANCHORS SHALL BE TORQUE TESTED.

  A. REQUIRED TEST TORQUE LOADS ARE PER INSTALLATION TORQUES SPECIFIED IN TABLES ABOVE, ITEM 13 IN POST
- INSTALLED ANCHORS GENERAL NOTES.

  B. TORQUE TEST FREQUENCY WHEN LESS THAN 100% ARE PROVIDED ON APPLICABLE SECTIONS AND DETAILS WHERE ANCHORS ARE SPECIFIED, OR AS INDICATED ABOVE WHEN NOT SPECIFIED ELSEWHERE.
- WHERE ANCHORS ARE SPECIFIED, OR AS INDICATED ABOVE WHEN NOT SPECIFIED ELSEWHERE.

  C. TEST EQUIPMENT SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH RECOGNIZED PROCEDURES.
- D. TEST LOAD SHALL BE APPLIED USING A CALIBRATED TORQUE WRENCH. WEDGE OR SLEEVE TYPE ANCHORS MUST ATTAIN THE SPECIFIED TORQUE WITHIN ONE HALF TURN OF THE NUT, EXCEPT 3/8" DIAMETER SLEEVE TYPE ANCHORS MUST ATTAIN SPECIFIED TORQUE WITHIN ONE QUARTER TURN OF THE NUT.
- E. APPLY PROOF LOADS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

WIND-RESISTING COMPONENTS, ALL MATERIALS, SPECIAL INSPECTION NOTES:

1. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS.

- 2. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF EXTERIOR WALL COVERING, AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.
- ARCHITECTURAL COMPONENTS SPECIAL INSPECTION NOTES:

  1. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, CEILINGS AND INTERIOR AND EXTERIOR VENEER.

STRUCTURAL OBSERVATION:

- 1. THE STRUCTURAL ENGINEER OF RECORD (SEOR), OR HIS/HER DESIGNATED ENGINEER, SHALL PROVIDE VISUAL STRUCTURAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM, AS REQUIRED BY CBC SECTION 1704A.6 AND AS DEFINED IN CBC SECTION 1702A. WRITTEN REPORTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE OR HIS DESIGNEE FOR DISTRIBUTION TO THE SPECIAL INSPECTOR, CONTRACTOR AND BUILDING OFFICIAL.
- 2. THE STRUCTURAL OBSERVER SHALL SUBMIT A WRITTEN STATEMENT TO THE GOVERNING AGENCY THAT THE SITE VISITS HAVE BEEN MADE. SUCH REPORTS SHALL IDENTIFY ANY OBSERVED DEFICIENCIES, WHICH TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE HAVE NOT BEEN RESOLVED. AT THE COMPLETION OF THE STRUCTURAL SYSTEM THE STRUCTURAL OBSERVER SHALL PROVIDE A FINAL OBSERVATION REPORT INDICATING THAT TO THE BEST OF HIS/HER KNOWLEDGE ALL OBSERVED DEFICIENCIES HAVE BEEN RESOLVED AND THE STRUCTURAL SYSTEM GENERALLY CONFORMS TO THE APPROVED PLANS AND SPECIFICATIONS.
- 3. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF THE INSPECTIONS BY THE BUILDING OFFICIAL AS REQUIRED BY THE CALIFORNIA ADMINISTRATIVE CODE, SPECIAL INSPECTIONS REQUIRED BY CBC SECTION 1705A, OR ANY OTHER INSPECTION REQUIRED BY OTHER SECTIONS OF THE CODE OR AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE STRUCTURAL OBSERVER DOES NOT HAVE THE AUTHORITY TO APPROVE COVERING OF CONSTRUCTION AND HIS/HER POSITIVE DISPOSITION OF THE OBSERVATION REPORT DOES NOT WARRANT THAT THE CONSTRUCTION WILL PASS THE BUILDING OFFICIAL'S INSPECTION.
- 4. STRUCTURAL OBSERVATION FOR THIS PROJECT SHALL BE PROVIDED BY MHP STRUCTURAL ENGINEERS, INC.; 3900 COVER STREET, LONG BEACH, CALIFORNIA, 90808; TELEPHONE (562) 985-3200; FAX (562) 985-1011.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION SCHEDULE AND SHALL NOTIFY THE STRUCTURAL OBSERVER NO LESS THAN THREE (3) BUSINESS DAYS IN ADVANCE OF REQUIRED OBSERVATIONS. FAILURE OF THE CONTRACTOR TO PROVIDE ADEQUATE NOTIFICATION MAY RESULT IN DELAYS DUE TO CORRECTIVE WORK OR REMOVAL OF SUBSEQUENT WORK TO ALLOW ADEQUATE OBSERVATION. REMOVAL AND REPLACEMENT OF ANY FINISHED WORK AND/OR FRAMING DAMAGED BY THE REMOVAL PROCESS OR AS REQUIRED FOR CORRECTIVE ACTION RESULTING FROM INADEQUATE NOTIFICATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 6. THE STRUCTURAL OBSERVER SHALL AS A MINIMUM PERFORM STRUCTURAL OBSERVATION AT THE FOLLOWING STAGES OF CONSTRUCTION (CONSTRUCTION STAGES AND ELEMENTS/CONNECTIONS TO BE OBSERVED):
- A. CONCRETE & REINFORCING STEEL
- AFTER EXCAVATION OR FORMING AND PLACEMENT OF REINFORCING STEEL, PRIOR TO CLOSING FORMS AND PLACEMENT OF CONCRETE, FOR FIRST SIGNIFICANT POUR OF STRUCTURAL WORK.
- B. ANCHORS (EPOXY AND/OR MECHANICAL)
  REPRESENTATIVE SAMPLING OF ANCHORS EMBEDDED IN CONCRETE, PRIOR TO COVERING.
- C. COMPLETION OF STRUCTURAL SYSTEM

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 04-119774 INC:

REVIEWED FOR

SS FLS ACS 
DATE: 02/03/2021



architecture www.hpiarchitecture.com

115 22nd street Newport Beach, CA 92663 o: 949.675.6442

SEAL

STRUCTURAL ENGINEER
3900 Cover Street
Long Beach, CA 90808
562.985.3200 P
562.985.1011 F
MHP JN 20-0156-00

No.4101

PROJECT TITLE

SAN ELIJO B400 - GREEN HOUSE
3333 MANCHESTER AVENUE, CARDIFF, CA 92007

MIRACOSTA

ISSUED				
#	DATE	DATE DESCRIPTION		
	2021-02-03	DSA SUBMITTAL		

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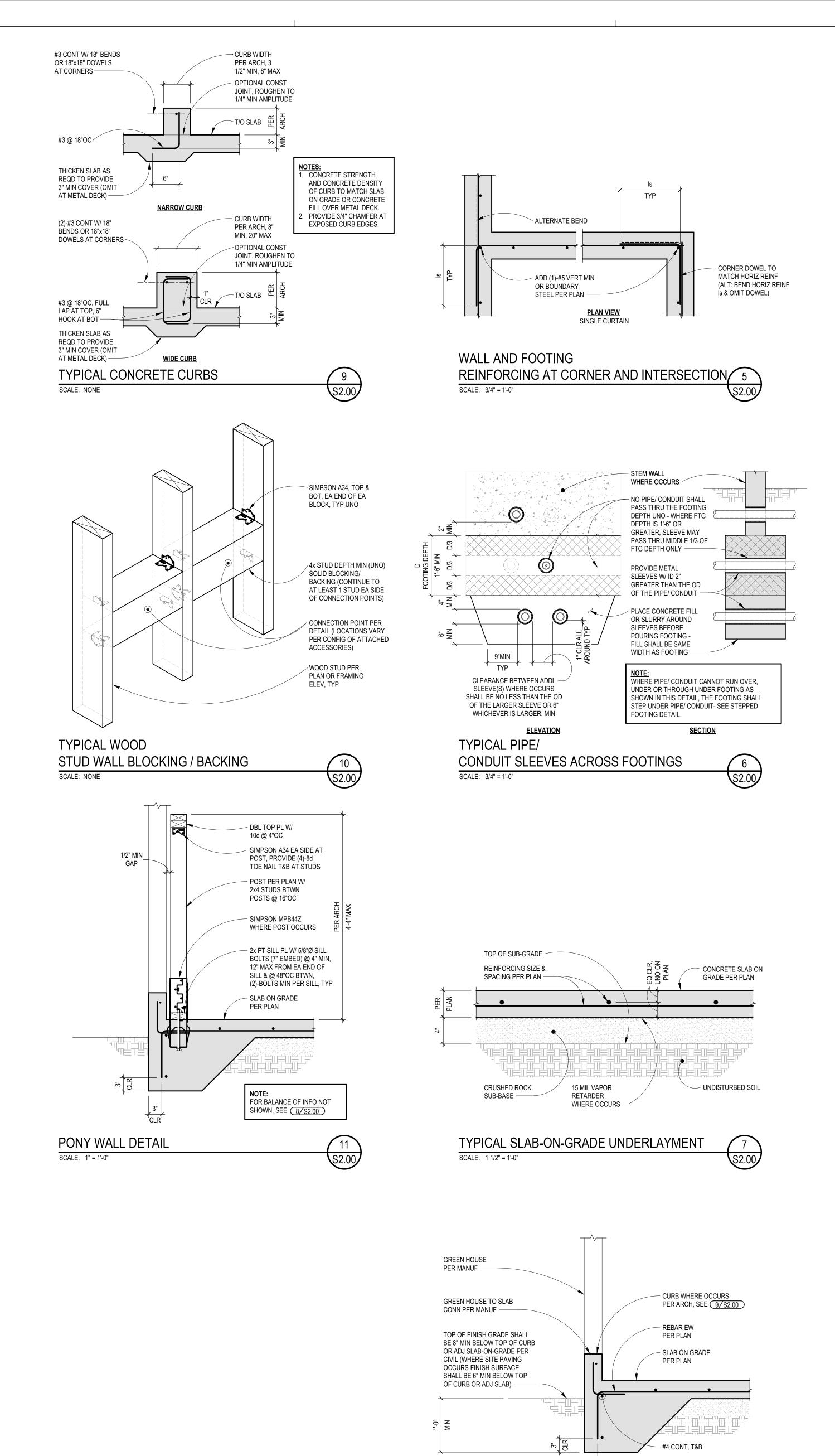
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STRUCTURAL NOTES

SHEET NUMBER

S1.01

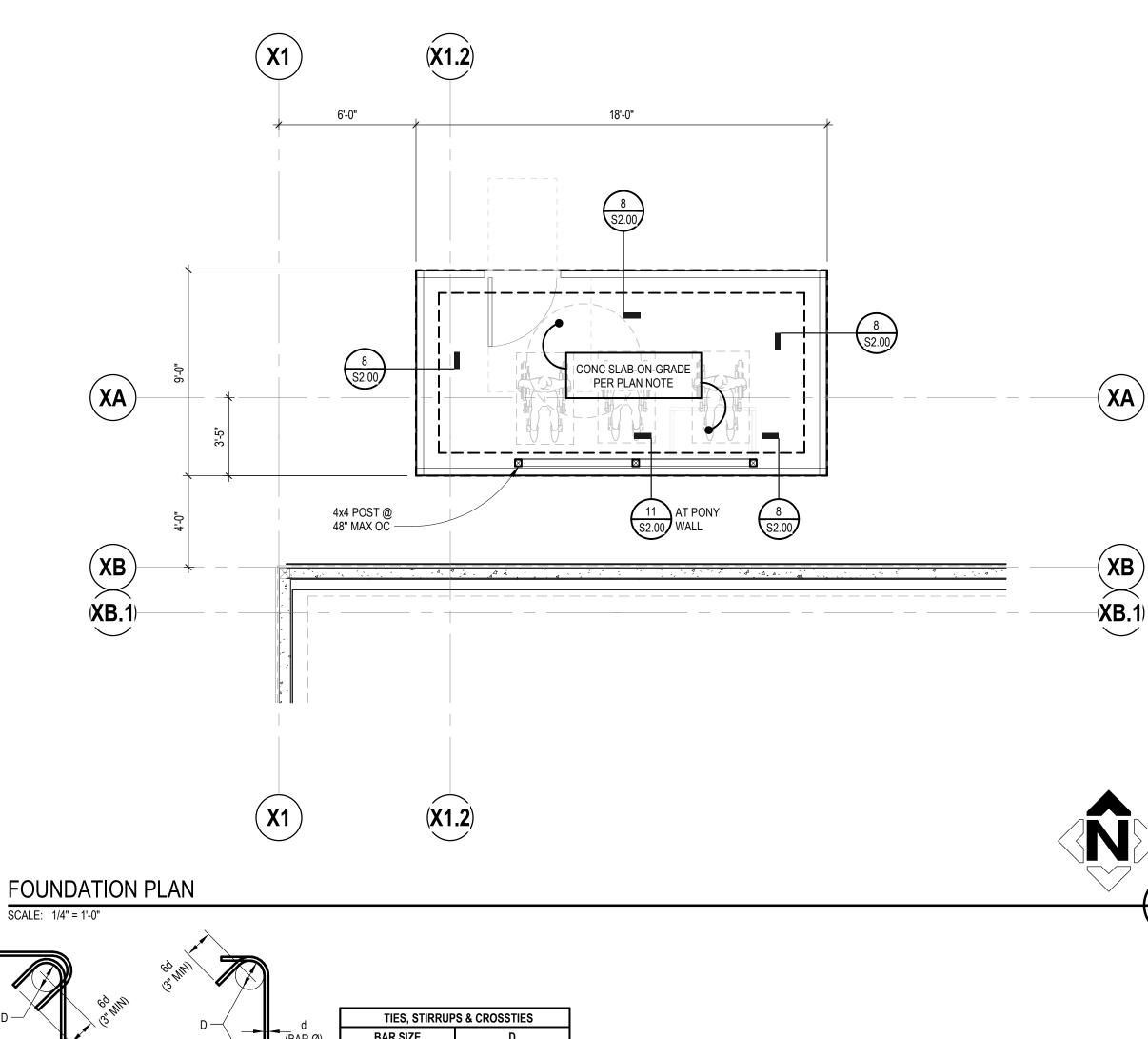
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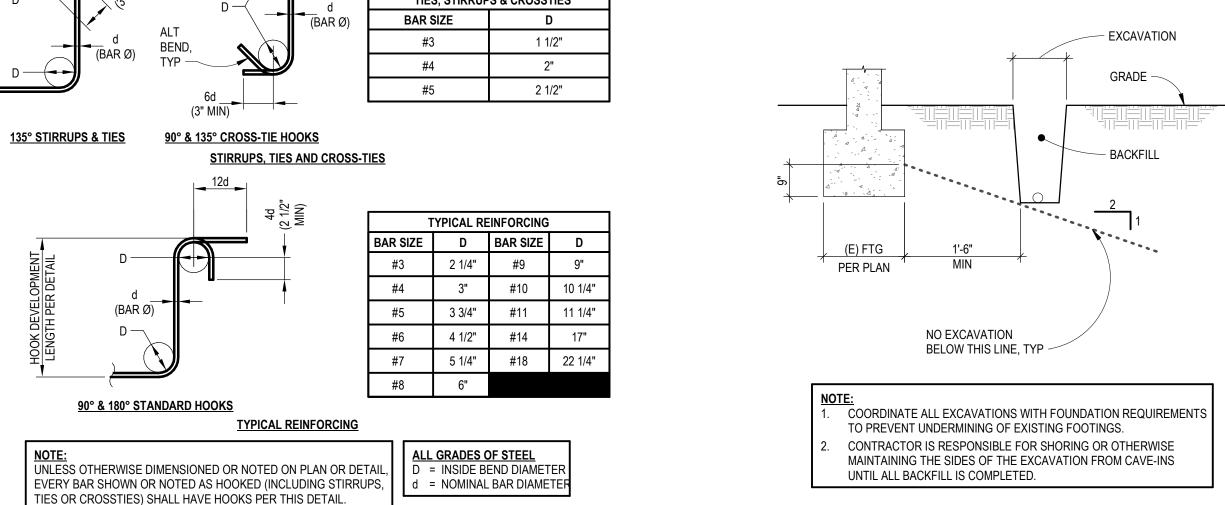


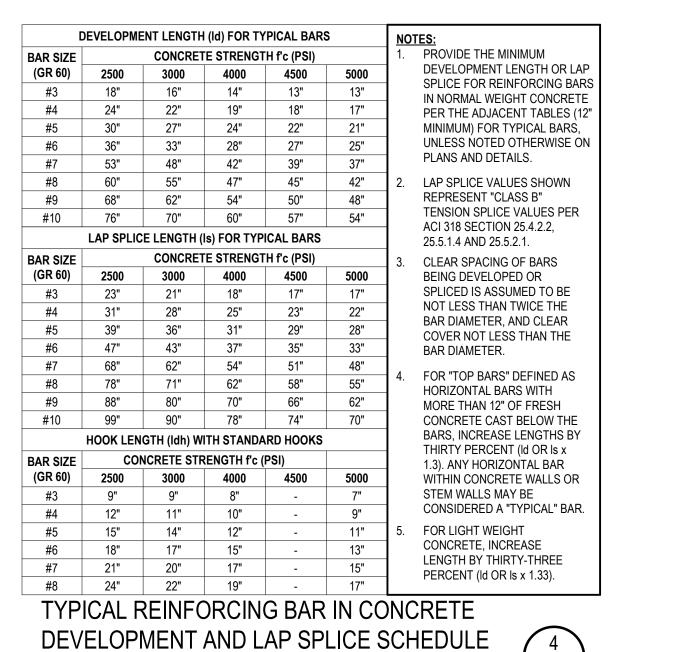
1'-0"

TYPICAL SLAB EDGE

SCALE: 1" = 1'-0"







TYPICAL REINFORCING HOOKS

AFTER SET, CLEAN TO REMOVE LAITANCE &SCUM FROM TOP OF CONC POUR WHERE OCCURS -CONT MIN CLEAN OUT -TYP — SUBGRADE FOOTING WIDTH PER PLAN +2"

. STAKES ARE NOT PERMITTED WITHIN FOOTING OR GRADE BEAM SECTION. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE MINIMUM FORMWORK SHOWN IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING CONCRETE PLACEMENT.

TYPICAL EXCAVATION ADJACENT TO FOOTING /

FORMWORK NOT

- CURB WHERE

PERMITTED BELOW GRADE

UNLESS FULLY FORMED

TYPICAL FOOTING POURED AGAINST EARTH SCALE: 1" = 1'-0"

**PLAN NOTES** 

SEE GENERAL NOTES SHEET(S) FOR APPLICABLE NOTES, ABBREVIATIONS AND PLAN SYMBOLS LEGEND. SEE PLAN SHEET FOR LIST OF APPLICABLE TYPICAL DETAILS NOT CALLED OUT ON PLANS. SEE PROJECT SPECIFICATIONS WHERE APPLICABLE FOR ADDITIONAL INFORMATION.

SLEEVES ACROSS FOOTINGS SHOWN ON PLAN ARE FOR 2" DIAMETER AND GREATER PIPES/ CONDUITS. SEE MECHANICAL, ELECTRICAL AND/ OR PLUMBING DRAWINGS FOR SMALLER ELEMENTS REQUIRING SLEEVES. CONTRACTOR TO DETERMINE ACTUAL INVERT ELEVATION AND LOCATIONS OF SLEEVES. SEE TYPICAL PIPE/ CONDUIT SLEEVES ACROSS FOOTING DETAIL 6/\$2.00.

FINISH FLOOR ELEVATION = 0'-0" (ACTUAL ELEVATION PER CIVIL).

UNLESS NOTED OTHERWISE, SLAB-ON-GRADE SHALL BE 5" THICK, REINFORCED W/ #4 @ 18"OC EACH WAY, OVER SUB-BASE AND SUB-GRADE PER TYPICAL SLAB-ON-GRADE UNDERLAYMENT DETAIL 7/S2.00. SEE ARCHITECTURAL PLANS FOR CURBS, SLAB DEPRESSIONS AND SLOPES NOT

SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON PLAN.

SHOWN ON PLAN.

DESCRIPTION	DETAIL	SHEET
TYPICAL EXCAVATION ADJACENT TO FOOTING	1	S2.00
TYPICAL FOOTING POURED AGAINST EARTH	2	S2.00
TYPICAL REINFORCING HOOKS	3	S2.00
TYPICAL REINFORCING BAR IN CONCRETE DEVELOPMENT AND LAP SPLICE SCHEDULE	4	S2.00
WALL AND FOOTING REINFORCING AT CORNER AND INTERSECTION	5	S2.00
TYPICAL PIPE/ CONDUIT SLEEVES ACROSS FOOTINGS	6	S2.00
TYPICAL SLAB-ON-GRADE UNDERLAYMENT	7	S2.00
TYPICAL SLAB EDGE	8	S2.00
TYPICAL CONCRETE CURBS	9	S2.00
TYPICAL WOOD STUD WALL BLOCKING / BACKING	10	S2.00

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3900 Cover Street Long Beach, CA 90808 562.985.3200 P 562.985.1011 F MHP JN 20-0156-00

PROJECT TITLE

SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

		ISSUED
#	DATE	DESCRIPTION
	2021-02-03	DSA SUBMITTAL

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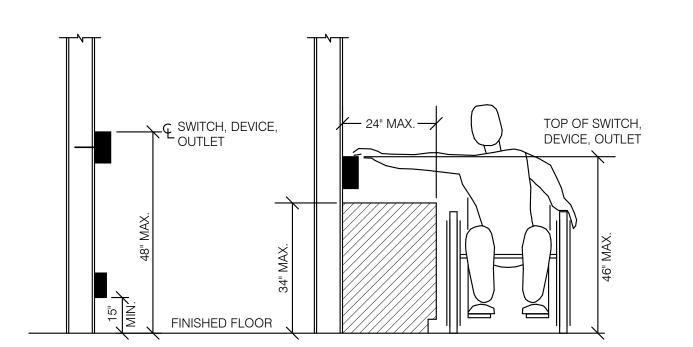
SHEET TITLE

**GREEN HOUSE** FOUNDATION PLAN AND

**DETAILS** SHEET NUMBER

S2.00

# MOUNTING HEIGHT OVER OBSTRUCTION



#### **ABBREVIATIONS**

FEET

FOOTING

GROUND

HEIGHT

HORSEPOWER

GROUND FAULT INTERRUPTER

DDKEV	IATIONS		_
<b>ABBREVIATION</b>	DESCRIPTION	<b>ABBREVIATION</b>	DESCRIPTION
&	AND	IMC	INTERMEDIATE METAL CONDUIT
1/C	SINGLE CONDUCTOR	J, JB, J-BOX	JUNCTION BOX
@	AT	KCMIL	THOUSAND CIRCULAR MILS
A OR AMP	AMPERES	KVA	KILOVOLT-AMPERES
AF	AMPERE FUSE RATING	LF	LINEAR FEET
AFC	AVAILABLE FAULT CURRENT	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISH GRADE	LV	LOW VOLTAGE
AIC	AMPERE INTERRUPTING CAPACITY	MAX	MAXIMUM
AL	ALUMINUM	MCA	MINIMUM CIRCUIT AMPS
APPROX.	APPROXIMATE	MFGR, MFR	MANUFACTURER
ARCH.	ARCHITECT; ARCHITECTURAL	MIN	MINIMUM
AS	AMPERE SWITCH RATING	MOCP	MAXIMUM OVERCURRENT PROTECTION
AUX	AUXILIARY	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
BAT	BATTERY	MTR	MOTOR
BEL	BELOW	NC	NORMALLY CLOSED
BKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NO.	NUMBER
С	CONDUIT	OCPD	OVERCURRENT PROTECTIVE DEVICE
СВ	CIRCUIT BREAKER	Р	POLE
CKT	CIRCUIT	PB	PULL BOX
CLG	CEILING	PC	PHOTOCELL
CMU	CONCRETE MASONRY UNIT	PF	POWER FACTOR
COL	COLUMN	PH OR Ø	PHASE
CR	CONTROL RELAY	PNL	PANEL
CSFD	COMBINATION SMOKE FIRE DAMPER	POC	POINT OF CONNECTION
CT	CURRENT TRANSFORMER	PREF.	PREFERRED
CU	COPPER	PRI.	PRIMARY
CW	COLD WATER	PWR	POWER
DIAG	DIAGRAM	REC/RECEPT	RECEPTACLE
DIS	DISCONNECT	REQ'D	REQUIRED
DM	DIGITAL METER	RGS	RIGID GALVANIZED STEEL
DMM	DIGITAL METER MODULE	RM	ROOM
DWG	DRAWING	RMC	RIGID METAL CONDUIT
EA .	EACH	SF	SQUARE FEET
ECM	ELECTRIC CIRCUIT MONITOR	SHT	SHEET
ELEC.	ELECTRICAL	SPECS	SPECIFICATIONS
EM	EMERGENCY	ST	STREET
EMT	ELECTRICAL METALLIC TUBING	STD	STANDARD
EQUIP	EQUIPMENT	SWBD	SWITCHBOARD
EXIST/(E)	EXISTING		TRANSFORMER
FA	FIRE ALARM	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UG	UNDERGROUND
FATC	FIRE ALARM TERMINAL CABINET	UON	UNLESS OTHERWISE NOTED
FIXT	FIXTURE	V	VOLTS
FLA	FULL LOAD AMPS	V VA	VOLTS VOLT-AMPERES
I LA	I OLL LOAD AIVIFS	٧A	VOLI-AIVIFENES

VARIABLE FREQUENCY DRIVE

WATTS

WITHOUT

**IMPEDANCE** 

WEATHERPROOF

WITH

W/O

#### **GENERAL NOTES**

- 1. COMPLY WITH 2019 TITLE 24, CCR, PARTS 1-6 AND 9.
- 2. TITLE 24, CCR, PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- 3. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338(c), PART 1).
- 4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OF ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6)(SECTION 4-338(c), PART 1) SUBSTITUTION SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
- 5. ALL CHANGE ORDERS AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS) (SECTION 4-338(c)(d), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:
- A. A/E OF RECORD.
- B. OWNER (CHANGE ORDERS ONLY).
- C. STRUCTURAL ENGINEER (WHEN APPLICABLE).
- D. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).
- AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
- 6. A PROJECT INSPECTOR AND TESTING LAB SHALL BE PROVIDED AND APPROVED BY ALL OF THE
- A. A/E OF RECORD.
- B. STRUCTURAL ENGINEER.
- C. DSA.
- 7. ANY ALTERATIONS, REHABILITATION, OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(c) OR SIMILAR MEANING: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODES OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- 8. MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT

COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

9. ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP  $\square$  MD  $\square$  PP $\square$  E  $\square$  - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

10. FLEXIBLE CONDUIT SHALL NOT BE UTILIZED FOR LENGTHS LONGER THAN SIX FEET. USES OTHER THAN FOR LIGHT FIXTURE JUMPERS OR MOTOR CONNECTIONS SHALL NOT BE PERMITTED FOR FLEXIBLE

11. CONTROL WIRING SHALL NOT BE INSTALLED IN FREE AIR IN MECHANICAL OR UTILITY ROOMS. 12. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

# SHEET INDEX

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX E-0.01 E-1.01

GREEN HOUSE SCHEDULES, SLD,& PANEL SCHEDULES E-2.01 GREEN HOUSE POWER & LIGHTING PLANS

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p2sinc.com

PROJECT TITLE

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ISSUED				
#	DATE DESCRIPTION			

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GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

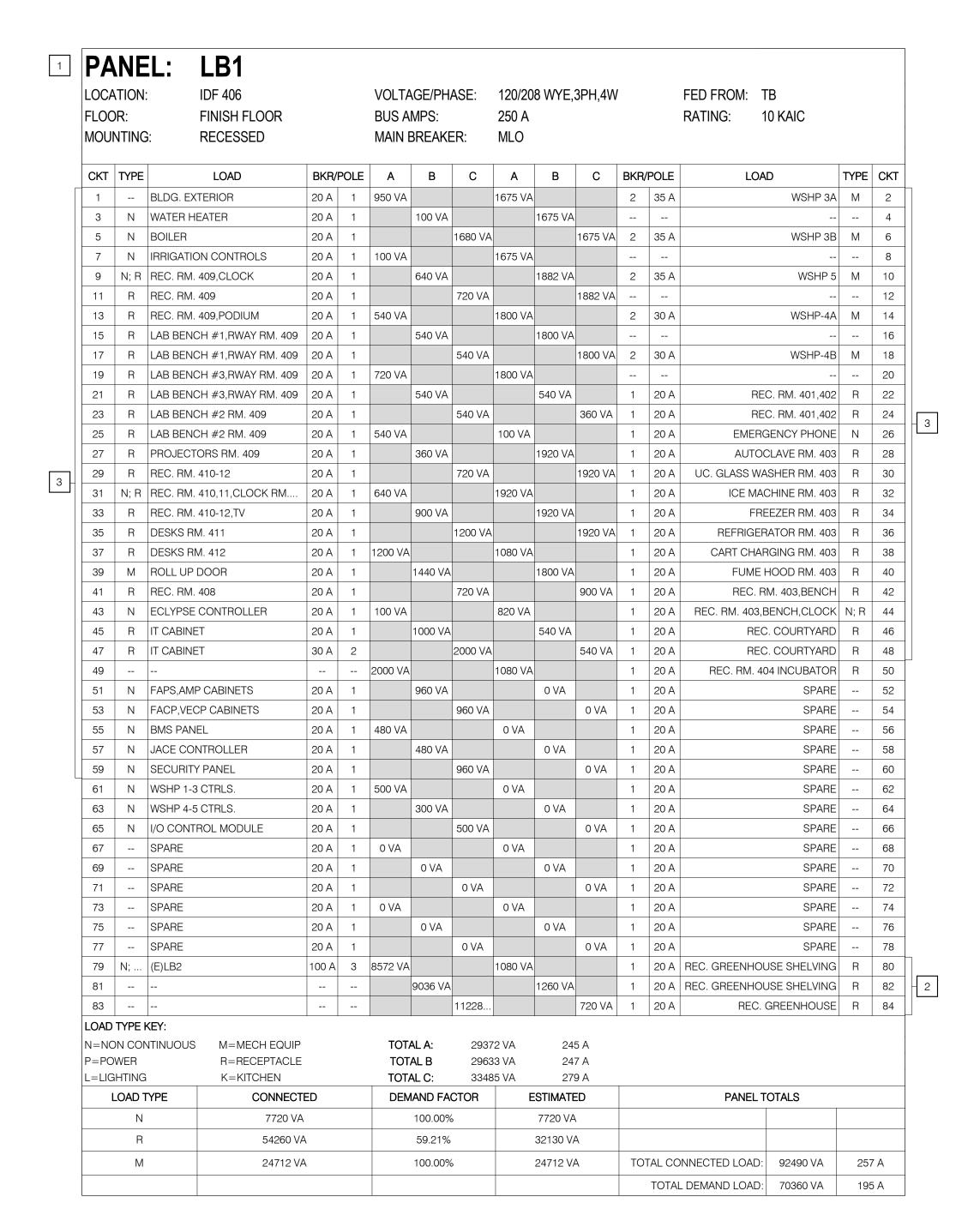
E-0.01

VDE	FIXTURE DESCRIPTION	TOTAL	LAMP		VOLTACE	MTC	MANUEACTURED/DEMARKO	
YPE	E FIXTURE DESCRIPTION	FIXTURE DESCRIPTION V-A LUM	LUMENS	LOAD	TYPE	VOLTAGE	MTG	MANUFACTURER/REMARKS
G1	1' x 4' PENDANT MOUNTED LINEAR GREENHOUSE FIXTURE	330	673 uMol/s - 29260L	330 VA	LED	277 V	Р	SPECGRADELED: LINEA-48XL-A1-V01-WT
W1	LED EXTERIOR WALL SCONCE.	10	1175	10 VA	LED	277 V	W	LITHONIA: LRP-W-1-RW-LRA-120/277-EL N

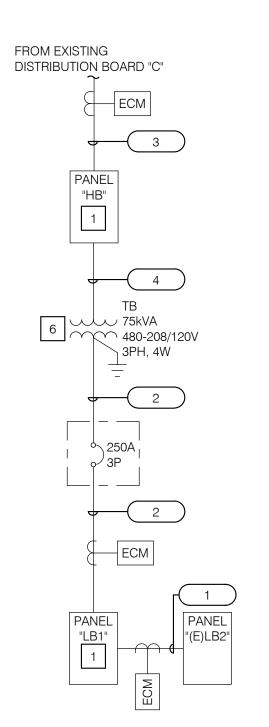
1. PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE REQUIRED FOR COMPLETE INSTALLATION. 2. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE AND MOUNTING HEIGHTS. 3. COORDINATE FIXTURE FINISHES WITH ARCHITECTURAL PLANS. 4. CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE MOUNTING REQUIREMENTS WITH ACTUAL CEILING CONSTRUCTION TYPE UTILIZED AS DEFINED ON THE ARCHITECTURAL DRAWINGS.

P = PENDANTPO = POLER = RECESSEDS = SURFACET = TRACKU = UNIVERSALW = WALLB = BOLLARD

GREENHOUSE - LIGHTING FIXTURE SCHEDULE SCALE: NONE



PANEL 'LB1'



FEEDER SCHEDULE					
1	(E)1-1/2"C - 4#2,1#6G				
2	(E)2-1/2"C - 4#250KCMIL,1#4G				
3	(E)2"C - 4#3/0				
4	(E)1-1/2"C - 3#1,1#6G				

GREENHOUSE PARTIAL SINGLE LINE DIAGRAM SCALE: NONE

GENERAL NOTES

1. PANELBOARDS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

2. CONTRACTOR TO PROVIDE UPDATED PANEL DIRECTORIES UPON COMPLETION OF NEW WORK.

UTILIZE EXISTING PANELBOARD FOR NEW WORK.

UTILIZE EXISTING 20A,1-POLE CIRCUIT BREAKER FOR NEW WORK.

3 EXISTING CIRCUITS PROVIDED AS PART OF B400 PROJECT (A#04-119580) BUILDING PACKAGE.

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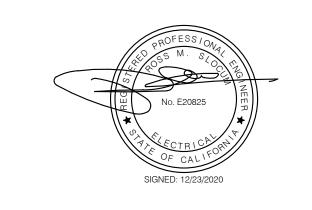
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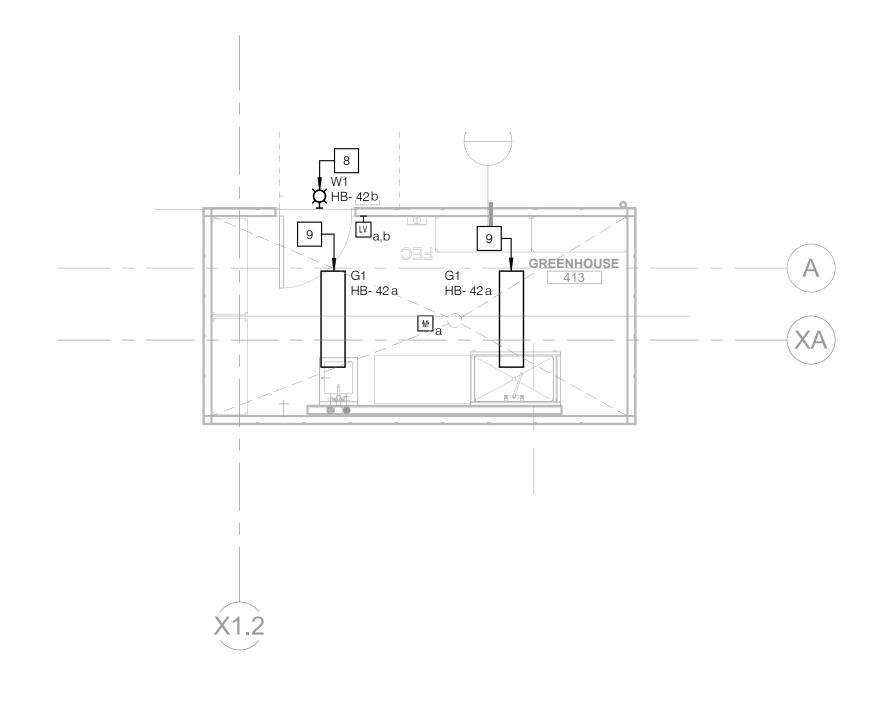
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**GREEN HOUSE** SCHEDULES, SLD,& PANEL SCHEDULES

SHEET NUMBER

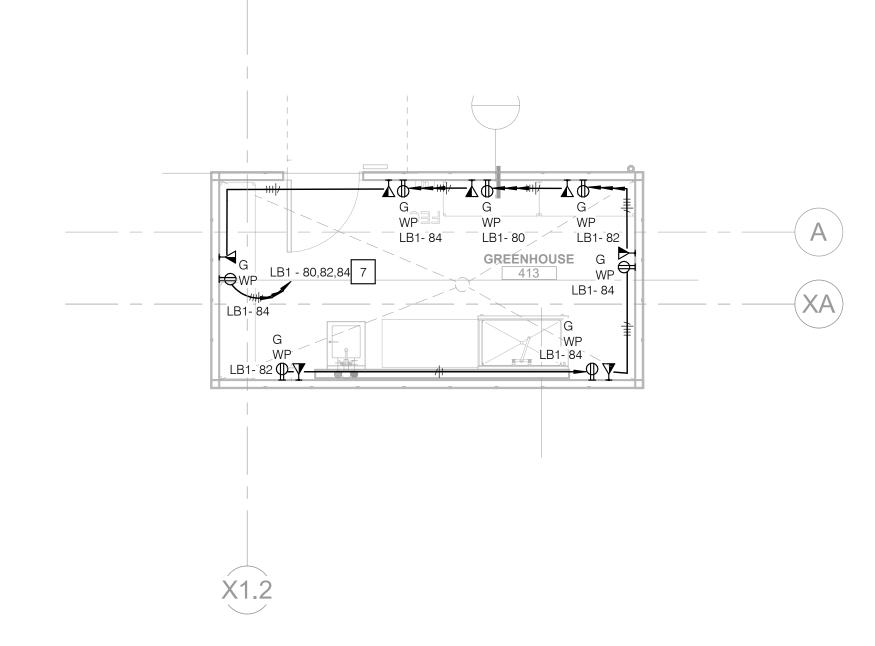
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GREENHOUSE - LIGHTING PLAN

 $\int SCALE: 1/4" = 1'-0"$ 





GREENHOUSE - POWER PLAN

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

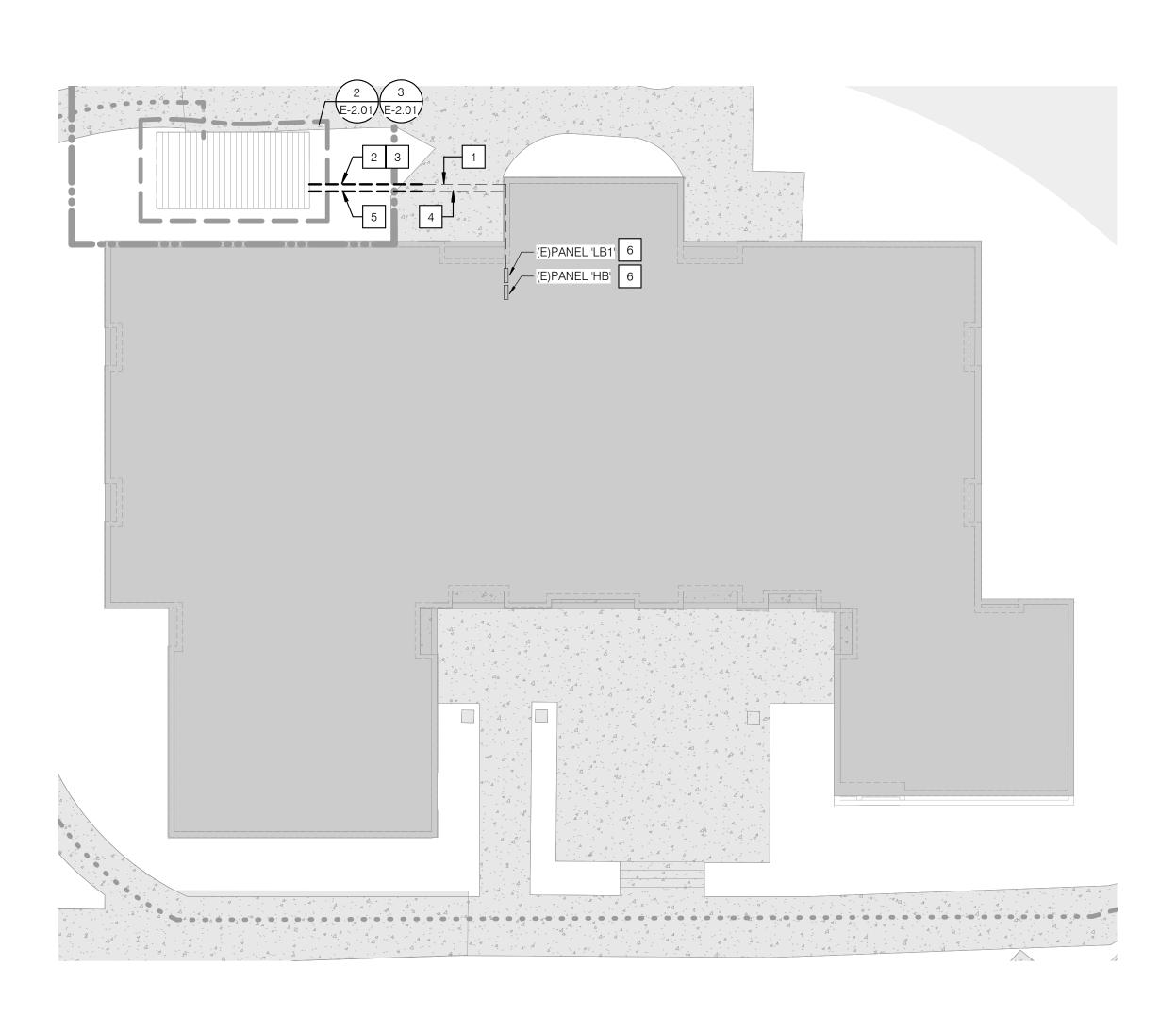


### GENERAL NOTES

- ALL DATA DEVICES ON THIS SHEET SHALL BE FED FROM IDF ROOM B105 WITH INDOOR/OUTDOOR OR OSP CATEGORY 6 CABLE.
- 2. FEEDS ON SITE ARE TO BE INSTALLED A MINIMUM OF 18" BELOW GRADE.
- ELECTRICAL AND DATA DEVICES SHALL BE PEDESTAL MOUNTED WITHIN THE GREENHOUSE.

- REFER TO SHEET E2.21 PROVIDED AS PART OF B400 PROJECT (A#04-119580) BUILDING PACKAGE FOR ADDITIONAL INFORMATION.
- 2 EXTEND EXISTING FEEDER PROVIDED AS PART OF B400 WORK.
- 3 PROVIDE 3/4"C 2#12, 1#12G FROM PANEL 'HB'.
- REFER TO SHEET T1.01 AS PART OF B400 PROJECT (A# 04-119580) BUILDING PACKAGE FOR ADDITIONAL INFORMATION.
- 5 EXTEND EXISTING DATA CONDUIT PROVIDED AS PART OF B400 WORK.
- 6 UTILIZE EXISTING PANEL PROVIDED AS PART OF B400 PROJECT (A#04-119580).
- 7 PROVIDE 3/4"C 6#12, 1#12G FROM PANEL 'LB1'.
- PROVIDE NEW WALL MOUNTED LIGHTING FIXTURE ABOVE ENTRY WAY. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

PROVIDE NEW 1'x4' CEILING PENDANT MOUNTED LIGHTING FIXTURE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



GREENHOUSE - ELEC SITE SCALE: 3/32" = 1'-0"



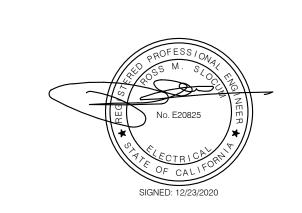
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SAN ELIJO B400 - GREEN HOUSE



DESCRIPTION

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**GREEN HOUSE POWER** & LIGHTING PLANS

SHEET NUMBER

E-2.01

#### **ABBREVIATIONS**

ABBREVIATION DESCRIPTION ABOVE CEILING ABV ABOVE AREA DRAIN ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AUTOMATIC FIRE SPRINKLER RISER **BELOW FLOOR BELOW GRADE** BELOW BACKFLOW PREVENTER BTM BOTTOM BALL VALVE CAST IRON CAST IRON PIPE CLG COTG CEILING CLEAN-OUT TO GRADE DEPT DEPARTMENT DRINKING FOUNTAIN DIAMETER DOWN DOWNSPOUT DWG EQUIP EWC DRAWING(S) EQUIPMENT ELECTRICAL WATER COOLER EXIST / (E) **EXISTING** FROM ABOVE FROM BELOW FLOOR CLEAN-OUT FLOOR DRAIN FINISHED FLOOR FORCE MAIN FLOOR SINK

F/A F/B GALLONS PER MINUTE GAS PRESSURE REGULATOR GPR H&CW HOT AND COLD WATER HIGH LEVEL HDR HEADER INCHES LAVATORY

MAXIMUM

MINIMUM

MOUNTED

NOT TO SCALE

**ROOF DRAIN** 

SQUARE SERVICE SINK

TO ABOVE

TO BELOW

TYPICAL

UON

VTR

SSD

TRAP PRIMER

UNDERGROUND

VENT THRU ROOF

WATER CLOSET WALL CLEAN-OUT

WATER HEATER

ABBREVIATION DESCRIPTION

ACID WASTE

CONDENSATE

DOMESTIC COLD WATER

DOMESTIC HOT WATER

OVERFLOW DRAIN

SUB SOIL DRAINAGE

SANITARY

**VENT** 

STORM DRAIN

DOMESTIC HOT WATER RETURN

ACID VENT

SHUT-OFF VALVE

OPEN SCREW AND YOKE POINT OF CONNECTION

POINT OF DISCONNECTION

ROUGH-IN AND CONNECT

POUNDS PER SQUARE INCH

UNLESS OTHERWISE NOTED

WATER HAMMER ARRESTOR

PIPE SYSTEM ABBREVIATIONS

L or LAV MAX MTD NTS OS & Y POD

FLOOR CLEANOUT CLEANOUT TO GRADE WALL CLEANOUT

> WATER HAMMER ARRESTOR TRAP PRIMER

## **GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).

2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.

5. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION,

PURCHASE AND/OR INSTALLATION OF ALL WORK. 6. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO

PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND

7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS. AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD OR REVIT.

8. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE FACILITY TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE FACILITY INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.

9. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS. FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.

10. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.

11. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

12. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.

13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS. 14. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT

15. ALL SOIL, WASTE, STORM DRAIN, ACID WASTE, GREASE WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.

16. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED

17. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.

18. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):

A. WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS POSSIBLE. BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED BY A COMMON HEADER.

B. WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN ARRESTOR AND MINIMUM 12" X 12".

19. CLEANOUTS SHALL BE PROVIDED PER 2019 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING

A. AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.

B. AT EACH BASE OF WASTE STACK.

C. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING.

D. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.

E. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL

F. ABOVE EACH URINAL.

CONNECTIONS.

G. BELOW EACH SINK.

20. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.

21. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO START WORK.

### SHEET INDEX

<u>SHEET</u> <u>DESCRIPTION</u>

LEAD SHEET P-0.01 P-1.01

GREEN HOUSE SITE PLAN GREEN HOUSE PLUMBING PLAN P-2.01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-119774 INC: REVIEWED FOR SS ☐ FLS ☐ ACS ☑ DATE: 02/03/2021

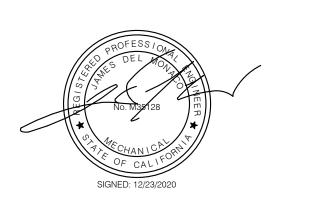
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SEAL



CONSULTANTS



Long Beach | Los Angeles San Diego San Jose p2sinc.com

PROJECT TITLE

SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007



	ISSUED						
#	DATE	DESCRIPTION					
PRO	JECT IDE	NTIFICATION					

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

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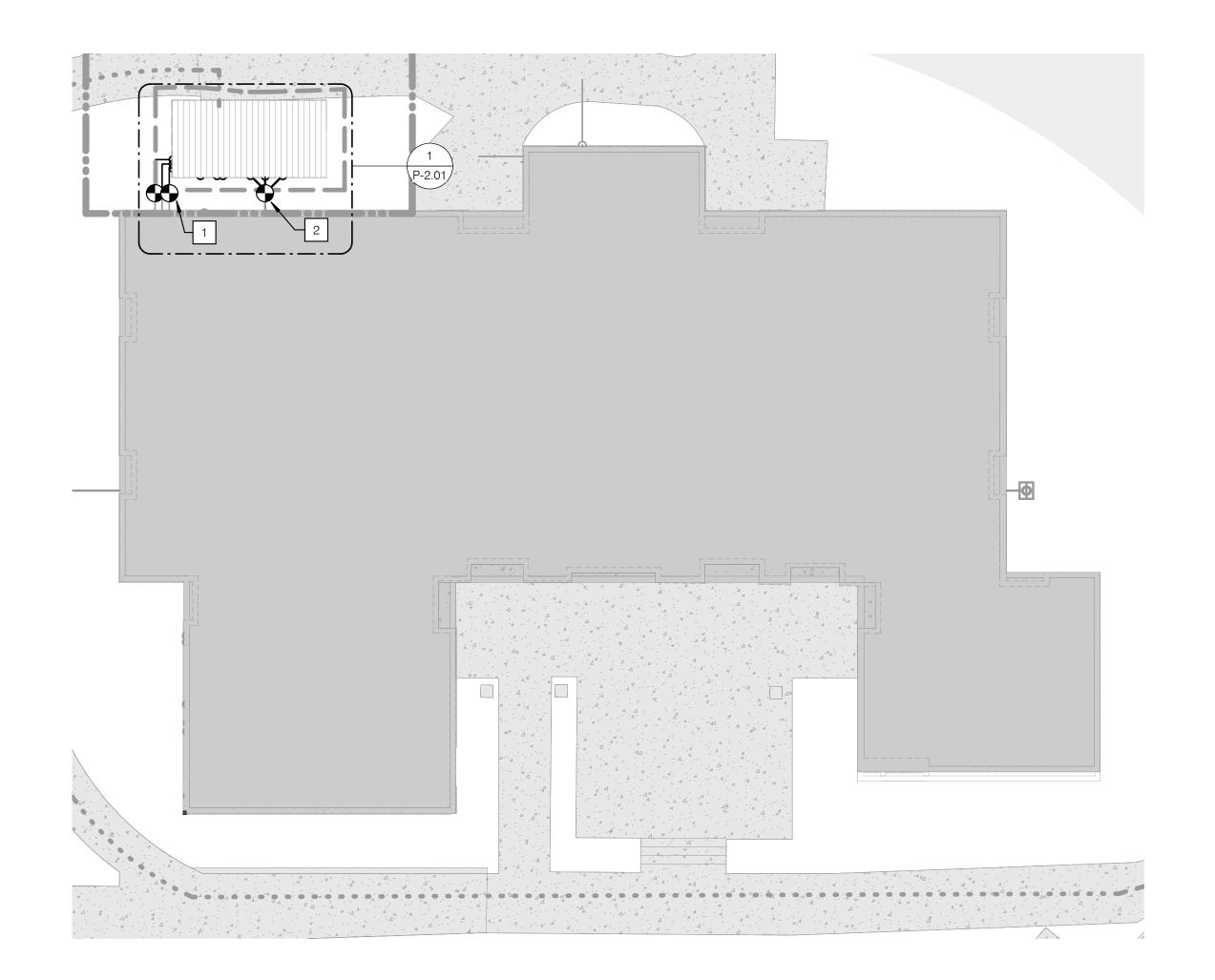
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LEAD SHEET

SHEET NUMBER

P-0.01



NOTES

1 REMOVE CAP ON EXISTING 3/4 INCH COLD , HOT AND HOT WATER RETURN PIPING AND ROUTE TO NEW GREEN HOUSE BUILDING.

2 REMOVE CAP ON EXISTING 3 INCH ACID WASTE AND ROUTE TO NEW GREEN HOUSE BUILDING.

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APP: 04-119774 INC:

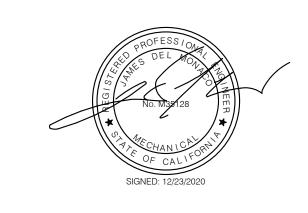
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#	DATE	DESCRIPTION
#	DAIL	DESCRIPTION
	LECT IDE	ENTIFICATION
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C HPI ARCHITECTURE 2019

EET TITLE

GREEN HOUSE SITE PLAN

SHEET NUMBER

P-1.01

### **HOT WATER DEMAND** TOTAL DEMAND (GPH) FIXTURE QTY. **GREEN HOUSE** ## TOTAL (GPH) FOR GREEN HOUSE

TOTAL RECOVERY (GPH) FOR GREEN HOUSE

TOTAL STORAGE (GAL) FOR GREEN HOUSE

D	OMES	TIC W	ATER (	CAL	CU	LATIO	N						
PRE	SSURE AVAILA	ABLE : THE 180 F	PSI PRESSURE A	AT THE S	SITE IS	REGULATED TO	O 76 PSI AFTER	THE WATER ME	ETER.				
RES	IDUAL PRESSU	JRE		=	76	PSI	MAX. VELOCIT	Υ	=	3	3	F/S (Co	OLD)
STA	TIC PRESSURE	<u> </u>		=	76	PSI	MAX. VELOCIT	Υ	=	į	5	F/S (H	OT)
DON	MESTIC WATER	R DEMAND :		=	3	GPM							
PRE	SSURE LOSS												
1	PRESSURE R	EQUIRED AT TH	E FARTHEST FI	XTURE						2	25	PSI	
2	PRESSURE LO	OSS DUE TO 2" \	WATER METER	LOSS						(	3	PSI	
3	PRESSURE LO	OSS THRU 2" BA	CKFLOW DEVI	DE.						1	3	PSI	
4	STATIC HEAD	LOSS (25'-0")								1	1	PSI	
5	TOTAL PRESS	SURE LOSS								5	52	PSI	
_OS	S AVAILABLE F	FOR FRICTION										<u> </u>	
6	MIN PRESSU	RE AVAILABLE -	ITEM 5							2	24	PSI	
LEN	GTH OF RUN F	FROM METER TO	O FARTHEST FIX	XTURE								1	
	OUTSIDE BUI	LDING (FROM V	VATER MAIN TO	BUILDIN	NG)					3	15	FT	
	INSIDE BUILD	DING								20	00	FT	
7	TOTAL LENG	ΤΗ								20	35	FT	
EQL	IIVALENT LENG	GTH OF RUN											
8	ITEM 7 + 50%	,								35	53	FT	
ALL	OWABLE FRIC	TION LOSS											
9	ITEM 6 X 100	/ ITEM 8								6.	81	PSI/100	O FT
PIPE	SIZE CHART I	FOR COLD WAT	ER SIZING AT 8	F/S MAX	K VELO	CITY							
	PIPE SIZE	1/2	3/4	1		1 1/4	1 1/2	2	2 -	1/2	;	3	4
	GPM	2.34	6.8	14	.5	26.1	42.1	58.7	91	.8	13	2.2	235.0
	FU (FT)	0	4	1:	2	24	46	155	38	30	6	65	1668
	FU (FV)	0	0	C	)	0	10	63	24	15	5!	96	1668
	VEL (FPS)	3.82	4.94	5.9	92	6.82	7.65	6.00	6.0	00	6.	00	6.00
PIPE	SIZE CHART I	FOR HOT WATE	R SIZING AT 5 F	S/S MAX	VELOC	ITY							
	PIPE SIZE	1/2	3/4	1		1 1/4	1 1/2	2	2 -	1/2	,	3	4
	GPM	2.34	6.8	14	.5	19.1	27.5	49.0	76	6.5	11	0.2	195.8
	FU (FT)	0	4	1:	2	24	46	119	24	15	40	06	840
	VEL (FPS)	3.82	4.94	5.9	92	5.00	5.00	5.00	5.0	00	5.	00	5.00

	SERVICE	MATERIALS
1.	DRAIN PIPING SANITARY SEWER, BELOW GRADE:	PVC SCHEDULE 40, SOLID WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
2.	DRAIN PIPING SANITARY SEWER, ABOVE GRADE:	PVC SCHEDULE 40, SOLID WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
3.	VENT PIPING FOR SANITARY SEWER, ABOVE GRADE:	PVC SCHEDULE 40, SOLID WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
4.	DOMESTIC WATER PIPING BELOW GRADE:	TYPE "K" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B88, WITH WROUGHT COPPER FITTINGS AND LEAD FREE BRAZED JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING
5.	DOMESTIC WATER PIPING ABOVE GRADE:	TYPE "L" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B88, WITH WROUGHT COPPER FITTINGS AND LEAD FREE SOLDER JOINTS.
6.	INSULATION OF DOMESTIC HOT/TEMPERED WATER:	GLASS FIBER INSULATED WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547. 1-INCH FOR PIPE SIZES 1" & SMALLER, 1 1/2-INCH THICK FOR PIPE SIZES 1 1/4" TO 3". SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS, JOHNS MANVILLE MICRO-LOK "HP" OR EQUAL.
7.		C PIPE WHETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 20-MIL PVC TAPE AND PRIMED ETHYLENE SLEEVE CONFORMING TO ASTM D-1248 AND/OR ANSI/AWWA C105/A21.5.
8.	PROVIDE NON-CONDUCTING [	DIELECTRIC CONNECTIONS, JOINING DISSIMILAR METALS.
9.		OUND PLASTIC PIPE SHALL BE INSTALLED WITH BARE COPPER WIRE, TYPE TW, SIZE AWG #12 PLACED AND SECURE S AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY.
10.	QUALITY ASSURANCE: THE PIF MANUFACTURER.	PING SYSTEMS SHALL BE CONSTRUCTED FROM MATERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND
20.		HE PIPE AND FITTINGS SHALL BE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED THE REQUIREMENTS I SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61.

FIXTURE	LO	AD C	AL(	CULA	TIO	N	
		COLD WATER		HOT W	/ATER	DRAINAGE/WASTE	
FIXTURE	QTY.	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
NEW FIXTURES (basis: 2016 CPC Ap Drainage fixture unit values. Volume based			Vater suppl	y fixture units	& Chapter	7 table 702.1	-
WATER CLOSET (Flush Valve)	0	5.0	0.0	0	0	4.0	0.0
WATER CLOSET (Flush Tank)	0	2.5	0.0	0	0	4.0	0.0
URINAL (Flush Valve)	0	4.0	0.0	0	0	2.0	0.0
LAVATORY	0	1.0	0.0	.75	0.0	1.0	0.0
KITCHEN SINK	0	3.0	0.0	2.5	0.0	3.0	0.0
EXAM SINK	0	2.0	0.0	1.5	0.0	1.0	0.0
SERVICE SINK/MOP SINK	0	3.0	0.0	2.25	0.00	3.0	0.0
SHOWER	0	2.0	0.0	1.5	0.0	2.0	0.0
BATHTUB	0	4.0	0.0	3	0.0	2.0	0.0
HAND SINK	2	2.0	4.0	1.5	3.0	2.0	4.0
WASH-UP SINK	0	2.0	0.0	1.5	0.0	2.0	0.0
CLINIC SINK	0	8.0	0.0	2	0.0	6.0	0.0
FLOOR DRAIN	1	0	0	0	0	2	2
FLOOR SINK	0	0	0.0	0	0	2.0	0.0
HOSE BIBB (1st)	1	2.5	2.5	0	0	0	0
HOSE BIBB (each additional)	0	1.0	0.0	0	0	0	0
TOTAL FIXTURE UNITS			6.5		3.00		6.0
TOTAL DEMAND - GPM			0		0		

MARK	FIXTURE	CW	HW	S OR W	V	REMARKS
SK-1	SINK FREE STANDING	1/2	1/2	2	1 1/2	SINK: JUST SB-124-24L; FREE STANDING, 14 GAUGE TYPE 304 18-8 STAINLESS STEEL. FAUCET: JUST JS-48TA1-DJ; EXPOSED WALL MOUNT 8 INCH CENTERS, BRASS QUARTER TURN STEM UNITS, SWIVEL JOINT, 2.2 GPM.
SK-2	SINK HANDWASH	1/2	1/2	2	1 1/2	SINK: JUST MODEL HCL-23520-S; WALL-HUNG, 18 GAUGE TYPE 304 STAINLESS STEEL WITH 3 INCH BACKSPLAH, OVERALL DIMENSIONS 20 INCH X 23.5 INCH, RECTANGULAR BOWL. FAUCET: CHICAGO 521; EXPOSED, WALL MOUNTED, MANUAL, LEVER OPERATED, 4 INCH CENTER, , 0.5 GPM.
FD-1	FLOOR DRAIN	-	-	3"	2"	ZURN MODEL Z-415; CAST IRON BOTTOM OUTLET & SEDIMENT BUCKET, WITH DARK BRONZE GRATE, 1/2-INCH MAX GRATE OPENINGS.
HB-1	HOSE BIBB	3/4	-	-	-	ACORN WALL HYDRANT WITH LOOSE KEY HANDLE AND VACUU BREAKER
ST-1	SEDIMENT TRAP	1/2	-	3	1-1/2	TRAP: ZURN ZM 1860-NG-P; TYPE 316 STAINLESS STEEL, 10-INC TRAP FLOOR DRAIN WITH PERFORATED REMOVABLE SEDIMENT BUCKET WITH LIFT HANDLE.
TP-1	TRAP PRIMER (PRESSURE TYPE)	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS MODEL PR-500, AUTOMATICALLY ACTIVATED, CORROSION RESISTANT BRASS, PROVIDE WITH SS-8 SUPPLY TUBE AND DISTRIBUTION UNIT WHEN SUPPLY MORE THAN ONE FLOOR DRAIN.

TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS & FAUCETS AS REQUIRED. HAND WASHING SINKS SHALL COMPLY WITH THE

2016 CALIFORNIA PLUMBING CODE, SECTION 210 & TABLE 4-2 NOTES 2, 15 & 33 AS APPLICABLE. ALL COMPONENTS IN CONTACT WITH POTABLE WATER SHALL BE LEAD

ST-1 SK-1 -(XA) X1.2

1 REMOVE CAP ON EXISTING 3/4 INCH COLD , HOT AND HOT WATER RETURN PIPING AND ROUTE TO NEW GREEN HOUSE BUILDING.

2 REMOVE CAP ON EXISTING 3 INCH ACID WASTE AND ROUTE TO NEW GREEN HOUSE BUILDING.

GREENHOUSE PLUMBING PLAN SCALE: 1/4" = 1'-0"

DSA STAMP APP: 04-119774 INC:

REVIEWED FOR SS ☐ FLS ☐ ACS ☑



architecture www.hpiarchitecture.com

Newport Beach, CA 92663 o: 949.675.6442

115 22nd street





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PROJECT TITLE SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

DESCRIPTION

PROJECT IDENTIFICATION THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2018 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

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GREEN HOUSE PLUMBING PLAN

SHEET NUMBER

# METHOD OF OPERATION

ACCESS CONTROL AND LOCK CONFIGURATION

1. SECURED DOORS: DOORS EQUIPPED WITH ELECTRIC LOCKS SHALL BE INDIVIDUALLY PROGRAMMED FOR LOCKING AND UNLOCKING AT SPECIFIC TIMES OF THE DAY. A VALID CREDENTIAL PRESENTED AT A READER WILL ALLOW THE PORTAL TO UNLOCK FOR A PROGRAMMED PERIOD OF TIME.

2. UPON AUTHORIZATION BY CARD READER OR MANUAL MEANS, "DOOR FORCE" AND "DOOR HELD OPEN" ALARMS ASSOCIATED WITH THE PORTAL SHALL BE AUTOMATICALLY BYPASSED (PREVENTED FROM REPORTING AN ALARM) FOR A DURATION OF TIME THAT IS PROGRAMMABLE ON AN INDIVIDUAL DOOR AND

3. THE DOOR SHALL RE-LOCK IMMEDIATELY UPON CLOSING, AFTER AN AUTHORIZED ACCESS, AND THE BYPASS DURATION SHALL BE IMMEDIATELY TRUNCATED. A DOOR POSITION SWITCH WILL BE REQUIRED AT EVERY DOOR FOR THIS PURPOSE. THE SAME DOOR POSITION SWITCH SHALL BE USED TO SENSE THE POSITION OF THE DOOR FOR "DOOR FORCED" AND "DOOR HELD OPEN" ALARMS.

4. FREE EGRESS AUTHORIZATION

A. UNLESS OTHERWISE SHOWN ON THE PLANS OR DESCRIBED HEREIN, THE SYSTEM SHALL DETECT THE NORMAL EGRESS OF A USER AT ANY INDIVIDUAL PORTAL AND SHALL BYPASS ANY ALARM ASSOCIATED WITH THE PORTAL FOR A DURATION OF TIME THAT IS PROGRAMMABLE ON AN INDIVIDUAL DOOR AND INDIVIDUAL CARDHOLDER BASIS.

B. TIMING SHALL BE INDEPENDENTLY PROGRAMMED FOR EACH PORTAL DURING THE INITIAL ENROLLMENT PROCESS. THIS FUNCTION ALLOWS EXTENDED TIMING FOR DISABLED PERSONS TO PASS

THE TIMING FUNCTION SHALL AUTOMATICALLY TRUNCATE AFTER AN ADJUSTABLE PERIOD (0 - 4 SECONDS) AFTER A PORTAL IS CLOSED. THIS FEATURE ALLOWS A SUBSEQUENT ALARM AT THE PORTAL TO BE DETECTED, AND PREVENTS THE PORTAL FROM BEING RE-OPENED WITHOUT AN AUTHORIZED REQUEST.

D. "REQUEST-TO-EXIT" DEVICES SHALL BE USED TO SIGNAL THE SYSTEM THAT AN INDIVIDUAL IS READY

TO EXIT THE SECURED DOOR. REQUEST-TO-EXIT DEVICES MAY INCLUDE BUT NOT BE LIMITED TO 1) INTEGRAL LOCK HANDLE SIGNAL SWITCHES

2) TOUCH BARS (ELECTRO-MECHANICAL OR ELECTRONIC)

3) PUSH BARS (MECHANICAL)

4) PUSH BUTTONS

. ON DOORS WITH INTEGRAL ELECTRO-MECHANICAL LOCKING MECHANISMS (STRIKES, ELECTRICAL PANIC HARDWARE, OR ELECTRICAL MORTISE LOCKS), THE MECHANICAL ACTION OF THE DOOR HARDWARE SHALL ENABLE EGRESS WITHOUT REQUIRING RELEASE OF THE ELECTRICAL MECHANISM. THE REQUEST-TO-EXIT DEVICE SHALL NOT UNLOCK THE DOOR.

F. ON DOORS WITH INTEGRAL ELECTRO-MECHANICAL LOCKING MECHANISMS (MAGNETIC LOCKS), A REQUEST-TO-EXIT DEVICE MAY HAVE TO UNLOCK THE DOOR, RELEASING THE ELECTRICAL MECHANISM FOR THE PROGRAMMED DURATION. REFER TO THE DRAWINGS AND DETAILS FOR DIRECTION.

#### SYMBOL LEGEND ABBREVIATIONS

NOTES TO SHEET CABLE TYPE | MOUNTING/HEIGHT DESCRIPTION ROUGH-IN 1/SE5.01 FOR PERIMETER DOORS PROVIDE CABLE SEE DETAIL CM CARD READER-MULLION MULLION/40" ON TYPES A&B AND DPDT CONTACT(S)

TYPICAL SYMBOLS

		CABLE LEGEN	D
CABLE SET	DEVICE	BELDEN PART # OR EQUIVILENT	DESCRIPTION
Α	PROXIMITY CARD READER	658AFS	PLENUM RATED 22/6 READER,22/2 DC, 22/4 REX,18/4 LOCK COMPOSITE CABLE
В	DEVICE CONTACT, LOCKDOWN BUTTON, MOTION DETECTOR, DOOR RELEASE	6502FE	PLENUM RATED 22/4 SHIELDED CABLE
С	ARMING READER, KEYPAD/ARMING KEYPAD	WINDY CITY WIRE 004351	PLENUM RATED 22/6 SHIELDED CABLE
D	DATA OUTLET, ACCESS CONTROL PANEL INTRUSION PANEL	PER SPECIFICATIONS	PER DIV 27 SPECIFICATIONS
Е	POWER SUPPLY	BY ELECTRICAL CONTRACTOR	120 VAC HARDWIRED CONNECTION. SEE DETAIL SE5.01 FOR MORE INFORMATION.

(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GROUND LEVEL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BLDG	BUILDING
B.P.	BOTTOM PLATE
0	CONDUIT
C	CONDUIT
C.E.	CONTROLLER ELECTRONICS
CKT	CIRCUIT
CLG	CEILING
CONC.	CONCRETE
CONT.	CONTINUATION
DIA	DIAMETER
DIM.	DIMENSION
DPDT	DOUBLE POLE DOUBLE THROW
DWG.	DRAWING
B 11 0.	Brownie
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
FIN.	FINISHED
FLR.	FLOOR
	1 200K
GRD	GROUND
Hz	HERTZ
N	NOT IN THE CONTENT OF
N.I.C.	NOT IN THE CONTRACT
NO.	NUMBER
O.C.	ON CENTER
	PHASE (ELECTRICAL)
PH	
PH PNL	PANEL
	PANEL PAN TILT ZOOM
PNL	
PNL PTZ	PAN TILT ZOOM
PNL PTZ	PAN TILT ZOOM
PNL PTZ PWR	PAN TILT ZOOM POWER
PNL PTZ PWR RM	PAN TILT ZOOM POWER ROOM
PNL PTZ PWR RM	PAN TILT ZOOM POWER ROOM
PNL PTZ PWR  RM RSC	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT
PNL PTZ PWR  RM RSC	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET
PNL PTZ PWR  RM RSC	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET
PNL PTZ PWR  RM RSC SHT SER	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM
PNL PTZ PWR  RM RSC SHT SER	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM  TYPICAL  UNLESS OTHERWISE NOTED
PNL PTZ PWR  RM RSC SHT SER  TYP U.O.N.	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM  TYPICAL  UNLESS OTHERWISE NOTED  VOLTS
PNL PTZ PWR  RM RSC SHT SER  TYP	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM  TYPICAL  UNLESS OTHERWISE NOTED  VOLTS
PNL PTZ PWR  RM RSC SHT SER  TYP U.O.N.	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM  TYPICAL  UNLESS OTHERWISE NOTED
PNL PTZ PWR  RM RSC SHT SER  TYP  U.O.N.	PAN TILT ZOOM POWER  ROOM RIGID STEEL CONDUIT  SHEET SECURITY EQUIPMENT ROOM  TYPICAL  UNLESS OTHERWISE NOTED  VOLTS VOLTS ALTERNATING CURRENT

#### SHEET INDEX

SHEET	DESCRIPTION
SE0.00	SECURITY GENERAL INFORMATION AND SYMBOL LEGEND
SE1.02	SECURITY PROPOSED SITE PLAN
SE2.10	SECURITY FLOOR PLAN
SE5.01	SECURITY DETAILS
SE6.01	SECURITY RISER DIAGRAM

# RESPONSIBILITY MATRIX

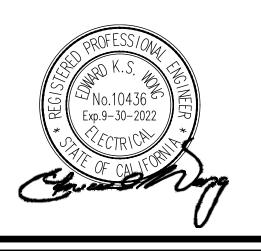
ITEM	RESPONSIBLE PARTY
ENSURE ACCESS CONTROL DOORS ARE CORED FOR WIRING AND PREPARED TO RECEIVE ACCESS CONTROL HARDWARE SPECIFIED	GENERAL CONTRACTOR
ALL NON-ELECTRIFIED DOOR HARDWARE - INCLUDING NON-TRANSFER HINGES ON ELECTRIFIED DOORS	GENERAL CONTRACTOR
ALL ROLL UP GATE HARDWARE AND MOTOR CONTROL DEVICES	GENERAL CONTRACTOR
NETWORK DATA CABLING, PATCH PANELS AND BISCUTS REQUIRED FOR SECURITY AND ACCESS CONTROL SYSTEM COMMUNICATION	GENERAL CONTRACTOR
FIRE RATED BACK BOARD FOR SECURITY/INTRUSION AND ACCESS CONTROL PANELS	ELECTRICAL CONTRACTOR
WIRE TRAYS, GUTTER BOXES, JUNCTION BOXES AND CONDUIT, WALL PENETRATIONS. PULL STRINGS TO BE INCLUDED IN ALL CONDUITS.	ELECTRICAL CONTRACTOR
WALL PENETRATIONS	ELECTRICAL CONTRACTOR
CONDUIT INTO DOOR FRAME WITH PULL STRING EXITING POWER TRANSFER HINGE AND DOOR CONTACT LOCATIONS.	ELECTRICAL CONTRACTOR
120VAC ELECTRICAL CIRCUITS AND HARDWIRING TO ALL SECURITY/INTRUSION AND ACCESS CONTROL POWER SUPPLIES AND PANELS.	ELECTRICAL CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL SECURITY/INTRUSION AND ACCESS CONTROL CABLING VIA CABLE HANGERS, J-HOOKS AND PLENUM CABLE FASTNERS AS REQUIRED	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TEMINATE ALL SECURITY/INTRUSION AND ACCESS CONTROL DEVICES, PANELS AND SUBASSEMBLIES	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL WIRING BETWEEN ELECTRIFIED LOCK AND TRANSFER HINGE.	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL ELECTRIFIED ACCESS CONTROL LOCK HARDWARE, TRASFER HINGES AND MANUFACTURER RECCOMENDED LOCK POWER SUPPLIES	SECURITY CONTRACTOR
ALL SYSTEM PROGRAMMING, TESTING, COMMISSIONING AND TRAINING	SECURITY CONTRACTOR
FIRE ALARM DROP OUT RELAY FOR ACCESS CONTROL DOORS AND POWER SUPPLIES AS NEEDED. FA VENDOR TO PROVIDE SEPARATE, ISOLATED RELAY THAT DROPS POWER TO ANY REQUIRED "FAIL SAFE" ELECTRIFIED DOOR HARDWARE UPON ACTIVATION OF FIRE ALARM.	FIRE ALARM CONTRACTOR AND SECURITY CONTRACTOR

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CONSULTANTS



PROJECT TITLE

SAN ELIJO B400 - GREEN HOUSE 3333 MANCHESTER AVENUE, CARDIFF, CA 92007

		ISSUED
#	DATE	DESCRIPTION
	02/05/2020	DSA SUBMITTAL
30	DJECT IDE	NTIFICATION
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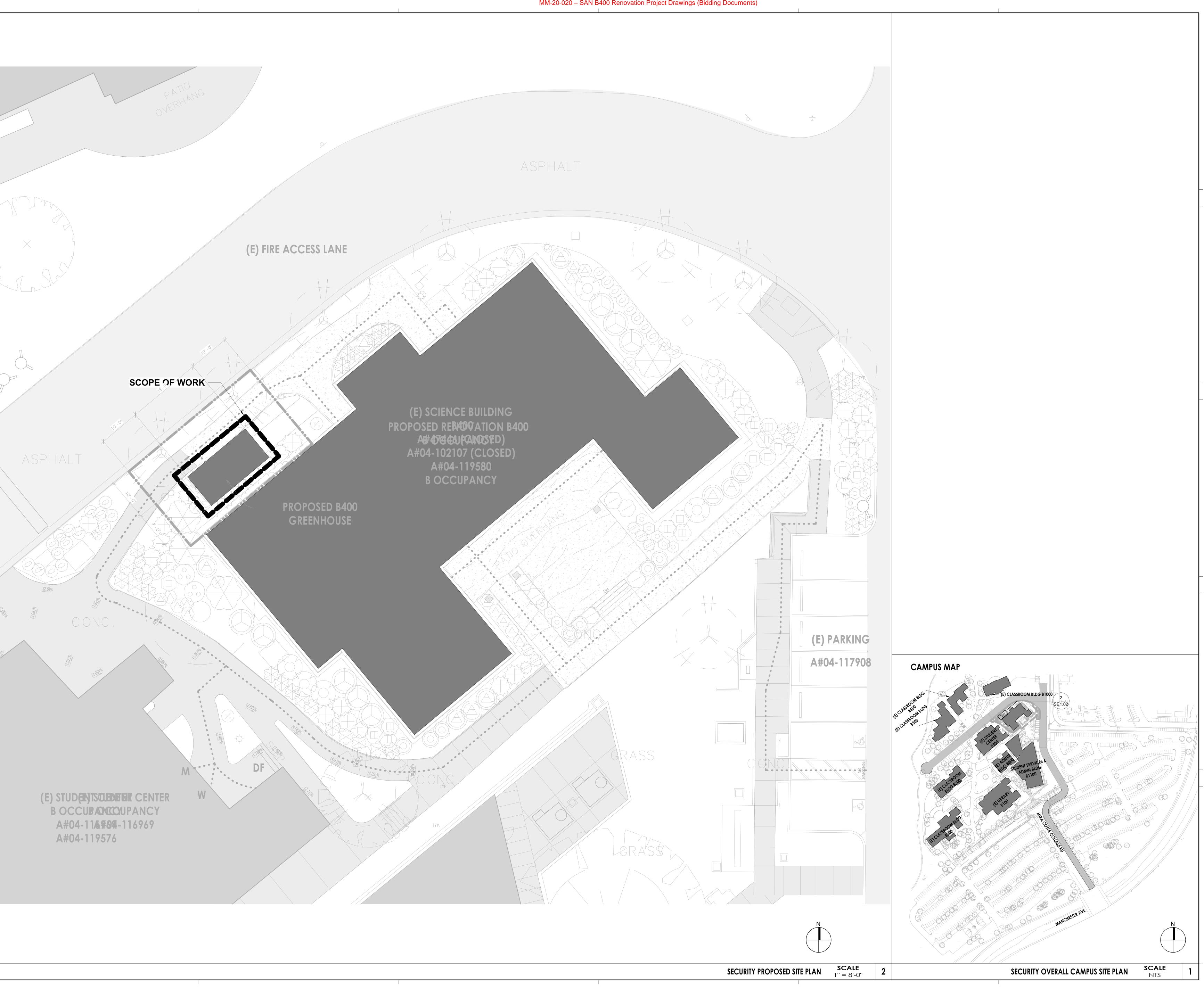
THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

SECURITY GENERAL INFORMATION AND SYMBOL LEGEND

SHEET NUMBER

SE0.00

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SECURITY PROPOSED SITE PLAN

SHEET NUMBER

SE1.02

DSA SUBMITTAL PRELIMINARY DRAWINGS

(1) 1" CONDUIT TO SECURITY JUNCTION BOX ABOVE DOOR GREENHOUSE (XA) -(XA)(E) 1" UG CONDUIT (XB) 4.4.4. XB.1-

SECURITY FLOOR PLAN

SCALE

1/4" = 1'-0"

B. SECURITY CONTRACTOR SHALL COORDINATE FULL HEIGHT WALL PENETRATION LOCATIONS WITH ELECTRICAL CONTRACTOR VIA SHOP DRAWING SUBMITTAL. ELECTRICAL CONTRACTOR SHALL INSTALL FIRE PENETRATIONS AS REQUIRED FOR SECURITY CABLING. PENETRATION ASSEMBLY SHALL MATCH THE RATING OF THE WALL BEING PENETRATED.

C. ANY SECURITY CABLING THAT ORIGINATES OR PASSES THROUGH HARD LID CEILING OR ELECTRICAL OR MECHANICAL SPACES SHALL BE IN CONDUIT.

D. ALL CABLING WITHIN THE GREENHOUSE SHALL BE WITHIN CONDUIT.

#### SHEET NOTES:

DETAILS 2 & 3/SE5.01.

1 UTILIZE CONDUIT SHOWN AS EXISTING ON PLAN. BRING CONDUIT INTO GREENHOUSE FROM HAND OFF POINT FROM BUILDING PROJECT.

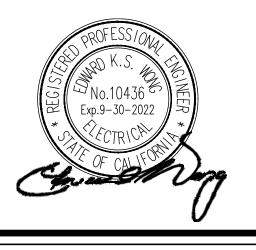
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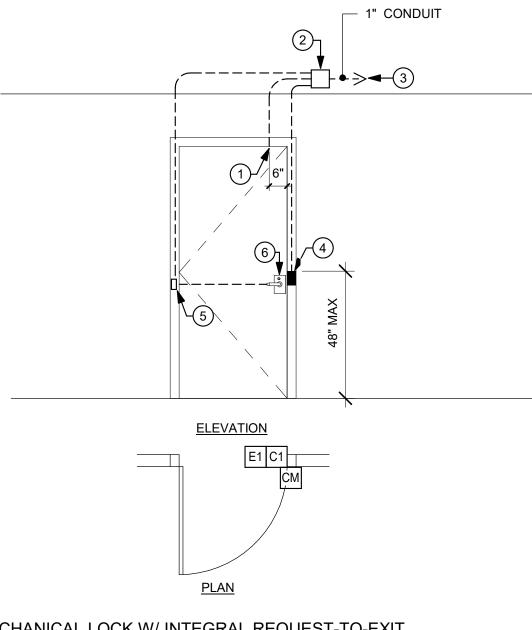
SECURITY FLOOR PLAN

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DSA SUBMITTAL PRELIMINARY DRAWINGS

NOTES TO DETAIL:

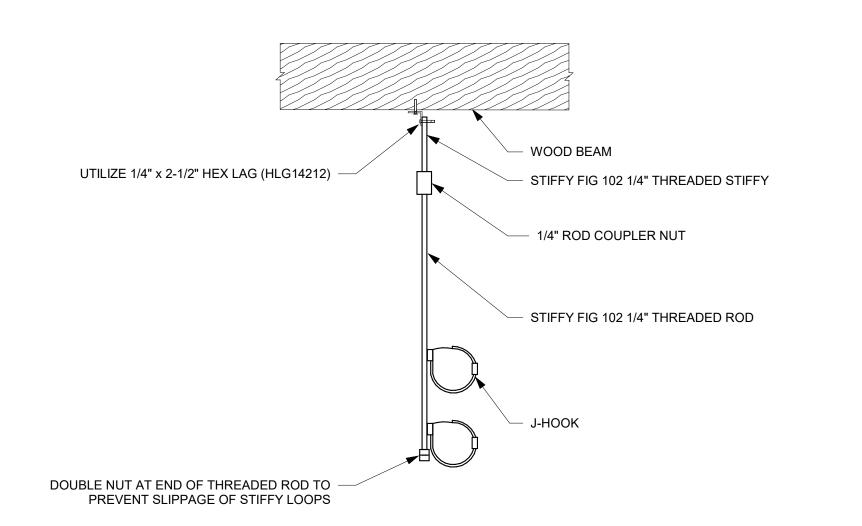
- CONCEALED DOOR POSITION SWITCH-STUB CONDUIT INTO HEAD OF DOOR FRAME. DPDT CONTACT REQUIRED AT EVERY EXTERIOR PERIMETER DOOR. SEPERATE CONNECTION TO IDS AND ACS.
- JUNCTION BOX-10"x10"x6" (HXWXD) NEMA 1 ENCLOSURE HOFFMAN A-10N10ALP WITH A 10N10MP MOUNTED ABOVE ACCESSIBLE CEILING OR CONNECT CONDUIT TO JUNCTION BOX ABOVE DOOR ON SECURE SIDE (UNLESS NOTES OTHERWISE). SECURE HINGE COVER WITH TAMPER RESISTANT SCREWS.
- CONDUIT-ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
- (4) CARD READER MULLION MOUNTED.
- CONDUIT STUB DOWN INTO DOOR FRAME WITH PULL STRING ROUTED TO ELECTRIFIED HINGE LOCATION.
- (6) ELECTROMECHANICAL LOCKSET.



DOOR ROUGH-IN DETAIL - CARD READER-MULLION/ ELECTROMECHANICAL LOCK W/ INTEGRAL REQUEST-TO-EXIT NTS

#### GENERAL NOTES:

- A. MAX. WEIGHT PER HANGER = 20 LBS.
- B. MAX. SUPPORT SPACING = 5'-0" O.C.

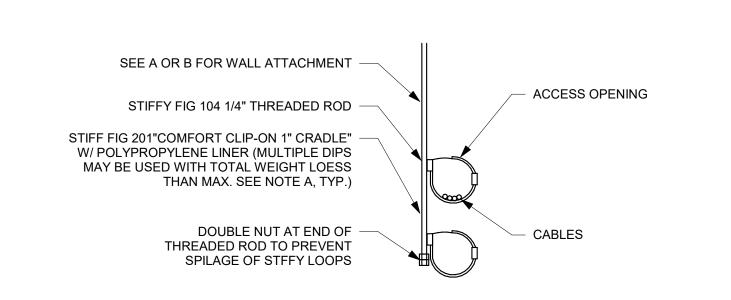


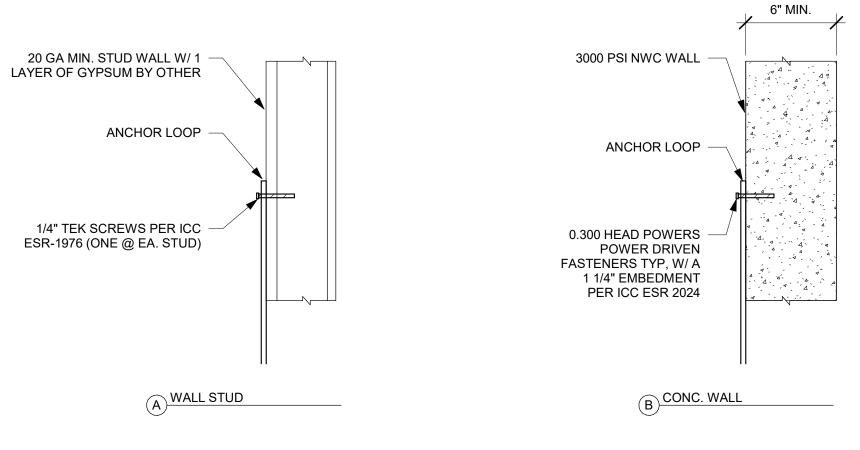
2 CEILING MOUNTED J-HOOK SUPPORTS
NTS

#### GENERAL NOTES:

- A. MAX. WEIGHT PER HANGER = 20 LBS.
- B. MAX. SUPPORT SPACING = 5'-0" O.C.

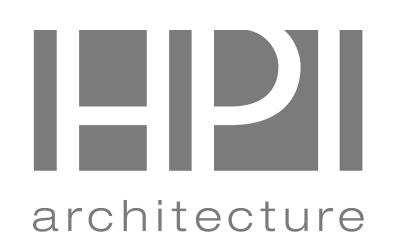
WALL MOUNTED J-HOOK DETAIL NTS





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SECURITY DETAILS

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SE5.01

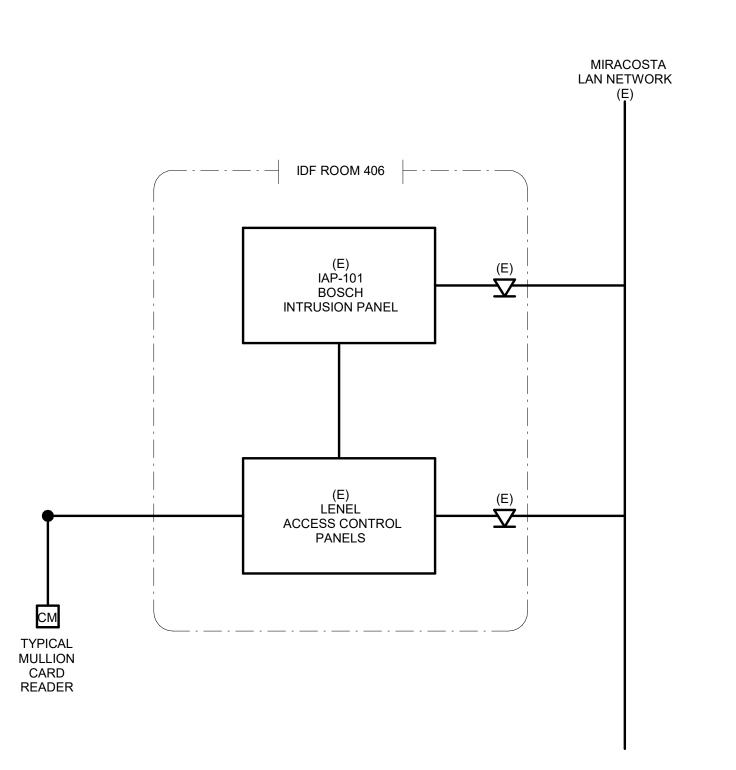
**DSA SUBMITTAL**PRELIMINARY DRAWINGS

MM-20-020 – SAN B400 Renovation Project Drawings (Bidding Documents)

			(	SECURITY D	EVICE SCH	EDULE	
WT	DEVICE ID	DESCRIPTION	MOUNTING	CABLE TYPE	DETAIL	TERMINATION	NOTES
CM	CM-101	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A/B	1/SE5.01	IDF-406	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S)

### GENERAL NOTE

A. SECURITY CONTRACTOR SHALL PROVIDE ADDITIONAL LNL-1300 SERIES READER BOARDS, LNL-1100 INPUT BOARDS, AND LNL-1200 OUTPUT BOARDS AS REQUIRED FOR A COMPLETE WORKING SYSTEM.



1 SECURITY RISER DIAGRAM NTS

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SECURITY RISER DIAGRAM

SHEET NUMBER

SE6.01

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