

Campus: UCSF
Building Name: Mission Bay Child
Care Center
CAAN ID: 3083
Auxiliary Building ID: NA



UNIVERSITY
OF
CALIFORNIA

Date: 8/16/2019

FORM 1
CERTIFICATE OF SEISMIC PERFORMANCE LEVEL

- UC-Designed & Constructed Facility**
 Campus-Acquired or Leased Facility

BUILDING DATA

Building Name: [Mission Bay Child Care Center](#)
Address: [727 Nelson Rising Lane](#)
Site location coordinates: Latitude [37.7689](#) Longitudinal [-122.3935](#)

UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): III

ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: [W1: Wood Light Frame \(modular\)](#)
- b. Transverse Direction: [W1: Wood Light Frame\(modular\)](#)

Gross Square Footage: [23,290](#)
Number of stories *above* grade: [1](#)
Number of basement stories *below* grade: [0](#)

Year Original Building was Constructed: [2018](#)
Original Building Design Code & Year: [CBC-2016](#)
Retrofit Building Design Code & Code (if applicable): [NA](#)

SITE INFORMATION

Site Class: [D](#) Basis:([Modspace, 5/3/2017, 2](#))

Geologic Hazards:

Fault Rupture: [No](#) Basis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)

Liquefaction: [No](#) Basis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)

Landslide: [No](#) Basis: UCSF Presumptive Buildings – Geotechnical Assessment, Egan (2019)

ATTACHMENT

Original Structural Drawings: ([Toddler/Preschool Building, R. Mark Steele, 9/21/2017, 2](#)) or

Seismic Evaluation: [NA](#)

Retrofit Structural Drawings: [NA](#)



CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT

I, [Maryann T. Phipps](#), a California-licensed structural engineer, am responsible for the completion of this certificate, and I have no ownership interest in the property identified above. My scope of review to support the completion of this certificate included both of the following ("No" responses must include an explanation):

- a) the review of structural drawings indicating that they are as-built or record drawings, or that they otherwise are the basis for the construction of the building: Yes No
- b) visiting the building to verify the observable existing conditions are reasonably consistent with those shown on the structural drawings: Yes No

Based on my review, I have verified that the UCOP Seismic Performance Level (SPL) is presumptively permitted by the following UC Seismic Program Guidebook provision (choose one of the following):

- 1) Contract documents indicate that the original design and construction of the aforementioned building is in accordance with the benchmark design code year (or later) building code seismic design provisions for UBC or IBC listed in Table 1 below.
- 2) The existing SPL rating is based on an acceptable basis of seismic evaluation completed in 2006 or later.
- 3) Contract documents indicate that a comprehensive¹ building seismic retrofit design was fully-constructed with an engineered design based on the 1997 UBC/1998 **or later** CBC, and (choose one of the following):
 - the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1E (or BSE-R) and BSE-2E (or BSE-C) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 CBC **or later** for EXISTING buildings, and is presumptively assigned an SPL rating of IV.
 - the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1 (or BSE-1N) and BSE-2 (or BSE-2N) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 **or later** CBC for NEW buildings, and is presumptively assigned an SPL rating of III.
 - the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned an SPL rating of IV.

¹ A comprehensive retrofit addresses the entire building structural system as indicated by the associated seismic evaluation, as opposed to addressing selective portions of the structural system.

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UNIVERSITY
OF
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Date: 8/16/2019

CERTIFICATION SIGNATURE

| | |
|--|---|
| <u>Maryann T. Phipps</u> Print Name | <u>President</u> Title |
| <u>S2995</u> CA Professional Registration No. | <u>6/30/2020</u> License Expiration Date |
| <u><i>Maryann T. Phipps</i></u> Signature | <u>8/16/2019</u> Date |

AFFIX SEAL HERE



Estructure, (510) 235-3116, 1144 65th St Suite A, Oakland
Firm Name, Phone Number, and Address



Table 1: Benchmark Building Codes and Standards

| Building Type ^{a,b} | Building Seismic Design Provisions | |
|---|------------------------------------|------|
| | UBC | IBC |
| Wood frame, wood shear panels (Types W1 and W2) | 1976 | 2000 |
| Wood frame, wood shear panels (Type W1a) | 1976 | 2000 |
| Steel moment-resisting frame (Types S1 and S1a) | 1997 | 2000 |
| Steel concentrically braced frame (Types S2 and S2a) | 1997 | 2000 |
| Steel eccentrically braced frame (Types S2 and S2a) | 1988 ^g | 2000 |
| Buckling-restrained braced frame (Types S2 and S2a) | f | 2006 |
| Metal building frames (Type S3) | f | 2000 |
| Steel frame with concrete shear walls (Type S4) | 1994 | 2000 |
| Steel frame with URM infill (Types S5 and S5a) | f | 2000 |
| Steel plate shear wall (Type S6) | f | 2006 |
| Cold-formed steel light-frame construction—shear wall system (Type CFS1) | 1997 ^h | 2000 |
| Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2) | f | 2003 |
| Reinforced concrete moment-resisting frame (Type C1) ⁱ | 1994 | 2000 |
| Reinforced concrete shear walls (Types C2 and C2a) | 1994 | 2000 |
| Concrete frame with URM infill (Types C3 and C3a) | f | f |
| Tilt-up concrete (Types PC1 and PC1a) | 1997 | 2000 |
| Precast concrete frame (Types PC2 and PC2a) | f | 2000 |
| Reinforced masonry (Type RM1) | 1997 | 2000 |
| Reinforced masonry (Type RM2) | 1994 | 2000 |
| Unreinforced masonry (Type URM) | f | f |
| Unreinforced masonry (Type URMa) | f | f |
| Seismic isolation or passive dissipation | 1991 | 2000 |

Note: This table has been adapted from ASCE 41-17 Table 3-2. Benchmark Building Codes and Standards for Life Safety Structural Performed at BSE-1E.

Note: UBC = Uniform Building Code. IBC = International Building Code.

^a Building type refers to one of the common building types defined in Table 3-1 of ASCE 41-17.

^b Buildings on hillside sites shall not be considered Benchmark Buildings.

^c not used

^d not used

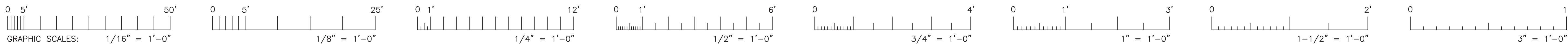
^e not used

^f No benchmark year; buildings shall be evaluated in accordance with Section III.J.

^g Steel eccentrically braced frames with links adjacent to columns shall comply with the 1994 UBC Emergency Provisions, published September/October 1994, or subsequent requirements.

^h Cold-formed steel shear walls with wood structural panels only.

ⁱ Flat slab concrete moment frames shall not be considered Benchmark Buildings.



IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT - SCALE ACCORDINGLY.

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

DRAWING PACKAGE: #3

MISSION BAY CAMPUS
727 NELSON RISING LANE
SAN FRANCISCO, CA 94158

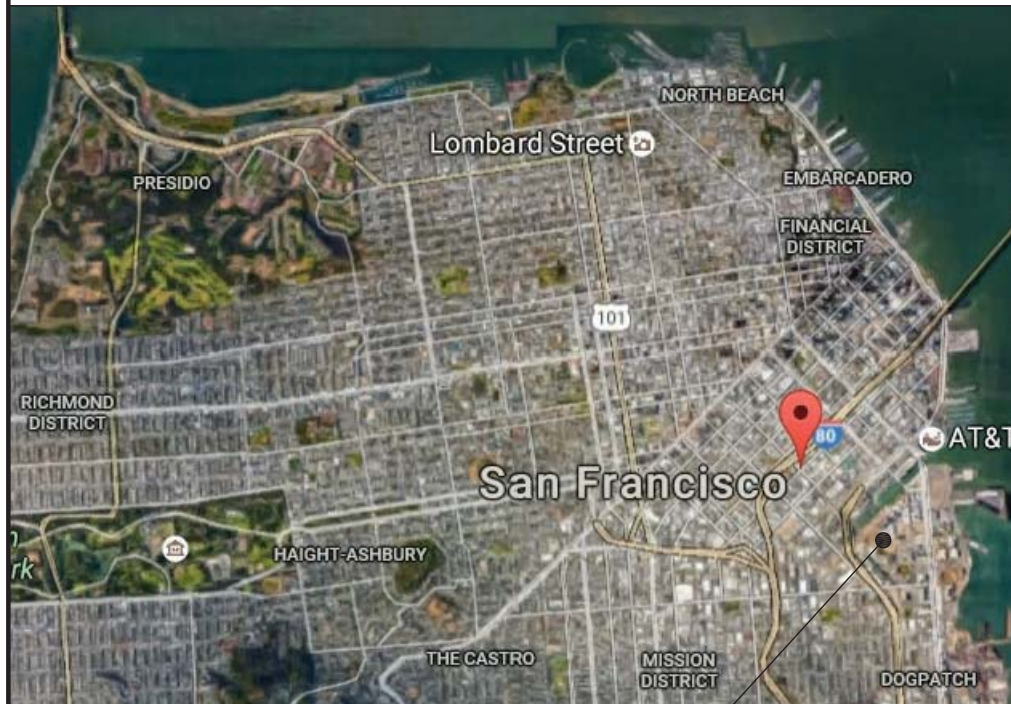
M4660 CHILDCARE CENTER RELOCATION
CSFM# PJ3124
DSA# 01-116433

MODULAR BUILDINGS + SITE EGRESS



University of California
San Francisco

LOCATION MAP

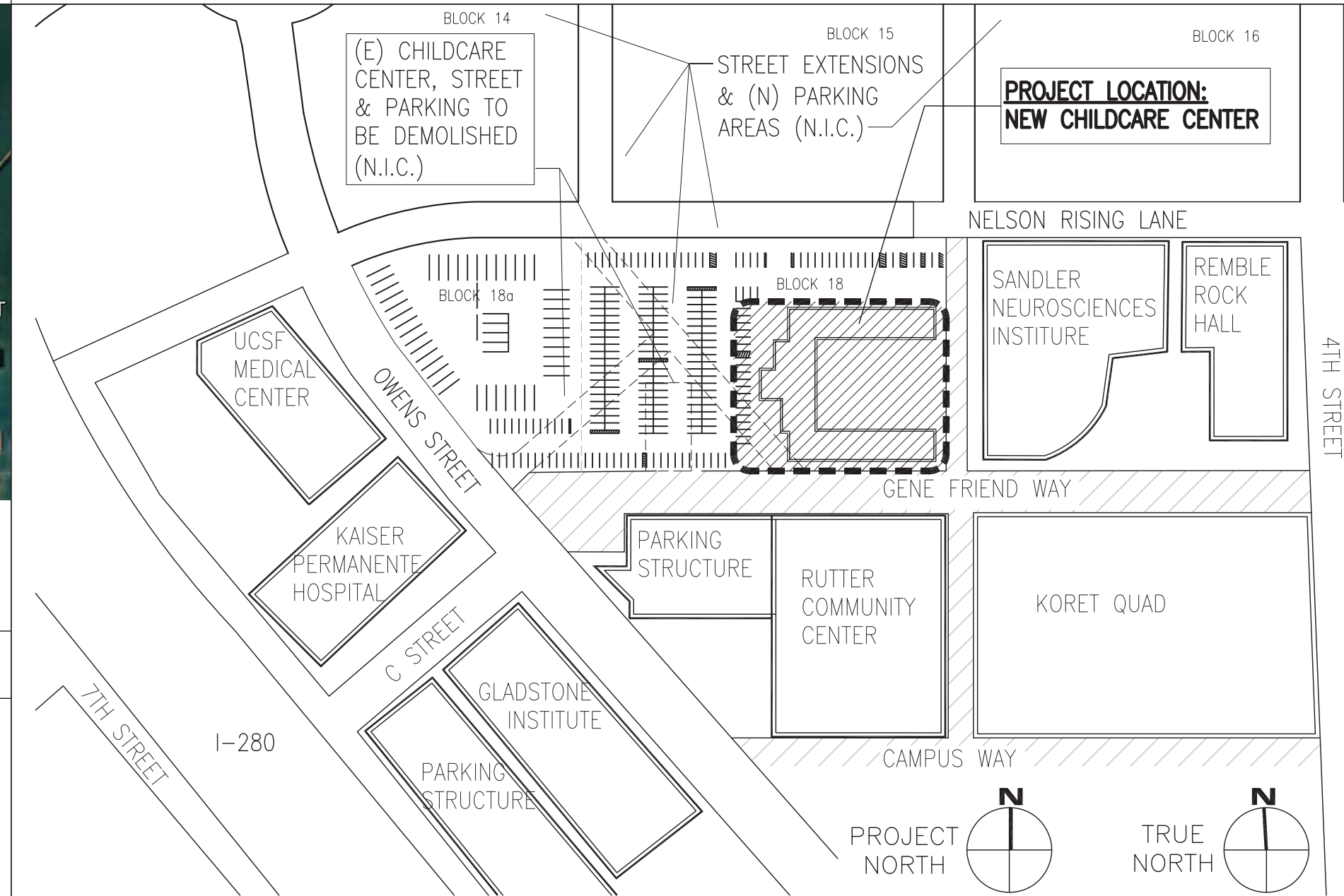


PROJECT LOCATION:
727 NELSON RISING LANE
SAN FRANCISCO, CA

SYMBOLS

| | | |
|---------------------|------------|----------------|
| ROOM NAME | ROOM LABEL | KEYNOTE SYMBOL |
| RM NO. | | |
| DRAWING REF. NUMBER | | |
| SHEET REF. NUMBER | | |

VICINITY MAP - UCSF MISSION BAY NORTH CAMPUS



SHEET INDEX

| | |
|-----------|--|
| APPROVED | |
| REVISED | |
| SUBMITTED | |
| PACKAGE | |

| SHEET INDEX | PRELIM SITE EGRESS | SFM PKG. 1 | SFM PKG. 2A | SFM PKG. 2C | SFM PKG. 2D | SFM PKG. 3 |
|---|--------------------|------------|------------------------------|-------------|-------------|------------|
| ARCHITECTURAL | | | | | | |
| A000 COVER SHEET | X | X | X | X | X | X |
| A101 SITE EGRESS PLAN | X | | | | | X |
| A102 EGRESS PLAN | X | | | | | X |
| CIVIL | | | | | | |
| C1.0 SITE GRADING PLAN | | X | | | | |
| C2.1 PLAYGROUND UTILITY PLAN | | | X | | | |
| C3.1 DETAILS | | | X | | | |
| ELECTRICAL | | | | | | |
| E0.5 DETAIL | | | | | X | |
| E1.1 ONE LINE DIAGRAM | | | | | X | |
| E1.3 ONE LINE DIAGRAM | | | | | X | |
| E2.5 ELECTRICAL SITE PLAN - PRIMARY SERVICE CONNECTIONS | | | | | X | |
| LANDSCAPE | | | | | | |
| L1.0 SHEET INDEX & EQUIPMENT LEGEND | | | | | X | |
| L1.1 LAYOUT PLAN | | | | | X | |
| L1.2 SURFACING PLAN | | | | | X | |
| L1.3 EGRESS PLAN | | | | | X | |
| L1.4 GRADING PLAN | | | X | | | |
| L2.0 PLAYGROUND IMAGES | | | X | | | |
| L2.1 PLAYGROUND IMAGES | | | X | | | |
| L2.2 DETAILS | | | X | | | |
| L2.3 DETAILS | | | X | | | |
| L2.4 DETAILS | | | X | | | |
| L3.0 PLANTING PLAN | | | | X | | |
| L4.0 IRRIGATION PLAN | | | | X | | |
| L4.1 PLANTING AND IRRIGATION DETAILS | | | | X | | |
| LANDSCAPE (FOR REFERENCE ONLY) | | | | | | |
| L1.0 SHEET INDEX & EQUIPMENT LEGEND | | | | X | | |
| L1.2 SURFACING PLAN | | | | X | | |
| L1.4 GRADING PLAN | | | | X | | |
| L2.0 DETAILS | | | X | | | |
| L2.3 DETAILS | | | X | | | |
| L2.4 DETAILS | | | X | | | |
| MODULAR BUILDING SHOP DRAWINGS (BY MODSPACE) | | | | | | |
| BUILDING: | | | | | | |
| NORTH | SOUTH | ADMIN. | | | | |
| 1.00 | 2.00 | 3.00 | CONSTRUCTION NOTES | | | X |
| 1.00A | 2.00A | 3.00A | DOOR & WINDOW SCHEDULE | | | X |
| 1.01 | 2.01 | - | KEY PLAN | | | X |
| 1.02 | 2.02 | 3.01 | FLOOR PLAN | | | X |
| 1.03 | 3.03 | 3.02 | ELECTRICAL PLAN | | | X |
| 1.04 | 2.04 | 3.03 | REFLECTED CEILING PLAN | | | X |
| 1.05 | 2.05 | 3.04 | MECHANICAL PLAN | | | X |
| 1.05A | 2.05A | 3.04A | MECHANICAL DETAILS/NOTES | | | X |
| 1.06 | 2.06 | 3.05 | ELEVATIONS & CROSS-SECTION | | | X |
| 1.07 | 2.07 | 3.06 | ELECTRICAL PANELS | | | X |
| 1.08 | 2.08 | 3.07 | PLUMBING ISOMETRICS | | | X |
| 1.09 | 2.09 | 3.08 | DETAILS | | | X |
| 1.10 | 2.10 | 3.09 | CABINET ELEVATIONS & DETAILS | | | X |
| 1.10A | 2.10A | 3.09A | CABINET ELEVATIONS & DETAILS | | | X |

PROJECT TEAM

OWNER'S REPRESENTATIVE
UCSF CAPITAL PROGRAMS
CHRISTINA BARNETTE, PROJ. MANAGER
JEREMY SNELL, JACOBS ENG.
ANDREW MITTLEMAN, JACOBS ENG.
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EMAIL Leonard@buildgc.com

MODULAR BUILDING MANUFACTURER
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JANINE LOVEJOY WILFORD
9 BROOKSIDE COURT
SAN ANSELMO, CA 94960
PH (415) 774-6776
EMAIL office@via-eng.com

| Revisions | | | | |
|-----------|-----------|----|------|-------|
| No. | Revisions | By | Date | Appr. |
| | | | | |

MATANOKANG ARCHITECTS
1204 Tenth Street Berkeley CA 94710
510.527.8800 TEL | 510.527.1124 FAX

GENERAL NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO RECONSTRUCT THE BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

ALL CHANGE ORDERS AND ADDENDA TO BE SIGNED BY THE OWNER, THE ARCHITECT AND THE RESPONSIBLE ENGINEER(S).

APPLICABLE CODES FOR NEW WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO ALL GOVERNING LOCAL, STATE AND FEDERAL CODES AND REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING STATE OF CALIFORNIA CODES:

- 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- 2016 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CCR BASED ON THE 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CCR BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEC)
- 2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4 TITLE 24, CCR BASED ON THE 2015 UNIFORM MECHANICAL CODE (UMC)
- 2016 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR BASED ON THE 2015 UNIFORM PLUMBING CODE (UPC)
- 2016 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC)
- 2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA-AG)

ADDITIONAL CODES INCLUDE STATE-MANDATED AMENDMENTS AND ENERGY CODES.

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OF REVISION IN FORCE ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT, AND THE MANDATORY PROVISIONS OF THE SUPPLEMENTARY CONDITIONS ARE PART OF THESE CONSTRUCTION DOCUMENTS AS IF INCLUDED AND ATTACHED HEREIN.

SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE FACILITY ADMINISTRATOR AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE FACILITY ADMINISTRATOR AND CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR SHALL COORDINATE HIS WORK SCHEDULE WITH THE OWNER ENSURE THAT THE SITE WILL BE AVAILABLE AT THE TIMES AND DAYS OF HIS SCHEDULE. CONTRACTOR SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, SATURDAYS, SUNDAYS, AND

HOLIDAYS, AND SHALL FURNISH SUCH ADDITIONAL FORCES, CONSTRUCTION PLANT AND EQUIPMENT AS REQUIRED TO MAINTAIN THE CONSTRUCTION SCHEDULE AND TO ENSURE THE COMPLETION OF THE WORK WITHIN THE SPECIFIED TIMEFRAME, ALL WITHOUT ADDITIONAL COST TO THE OWNER.

ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES.

CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AND DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA. BROOM-CLEAN ALL AREAS EACH DAY AND THROUGHOUT THE DAY AS NECESSARY TO MAINTAIN WORK AREA SAFE AND FULLY OPERATIONAL. KEEP DIRT AND DUST TO A MINIMUM.

WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND TO THE OCCUPANTS OF THE EXISTING BUILDING.

CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH THE APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.

COORDINATION WITH OTHER CONTRACTS:
WHEN ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE WITH AND INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. WORK OF OTHER CONTRACTORS INCLUDES BUT IS NOT LIMITED TO SECURITY, FIRE SPRINKLERS, SIGNAGE, AND FURNITURE. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.

VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.

VERIFY DIMENSIONS OF ALL OWNER-FURNISHED EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.

REPAIR/PATCH ALL RATED WALLS AND OPENINGS IN RATED WALLS WITHIN THE AREA OF THIS CONSTRUCTION TO MAINTAIN THE INTEGRITY OF THE RATED WALLS AND MAINTAIN PROPER RATED EXIT CORRIDORS.

CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.

THE ARCHITECT OF RECORD IS NOT RESPONSIBLE FOR ANY HAZARDOUS MATERIALS WORK OR ANY WORK ASSOCIATED WITH ITS REMOVAL, HANDLING, OR MODIFICATION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS INTENDED AS ASSOCIATED WITH ANY HAZARDOUS MATERIAL WORK. HAZARDOUS MATERIALS MAY INCLUDE BUT ARE NOT LIMITED TO LEAD PAINT AND ASBESTOS.

OVERALL PROJECT SCOPE

CONSTRUCT A NEW CHILD CARE CENTER COMPRISED OF MODULAR BUILDINGS TO ACCOMMODATE (272) CHILDREN (INFANTS THROUGH PRE-K). NEW LANDSCAPED PLAYGROUND AND ENTRANCE.

PACKAGE SCOPE: #3

DESCRIPTION OF WORK:

MODULAR BUILDINGS & SITE EGRESS

PACKAGE SCOPE LOG

PACKAGE #1: ROUGH SITE GRADING

PACKAGE #2A: PLAYGROUND GRADING AND DRAINAGE

PACKAGE #2B: SITE GRADING AND UTILITIES

PACKAGE #2C: PLAYGROUND EQUIPMENT & LANDSCAPE

PACKAGE #2D: ELECTRICAL TRANSFORMER & SWITCHBOARD

PACKAGE #3: MODULAR BUILDINGS & SITE EGRESS

PACKAGE #4A: FIRE SPRINKLER

PACKAGE #4B: FIRE ALARM

CODE DATA

NEW CHILDCARE BUILDING INFORMATION

| | |
|-----------------------------------|---|
| CONSTRUCTION TYPE: | TYPE V-B |
| OCCUPANCY CLASSIFICATION: | MIXED OCCUPANCY NON-SEPARATED GROUPS I-4, E, B, S |
| SPRINKLER SYSTEM: | YES |
| FIRE ALARM: | YES |
| AREA OF BUILDING: | 23,940 SF |
| AREA OF EXTERIOR PLAYGROUND: | 18,000 SF |
| TOTAL NUMBER OF OCCUPANTS: | 445 |
| EXITS REQUIRED FDR (3) BUILDINGS: | 5 |
| NUMBER OF STORIES: | 1 |
| BUILDING HEIGHT: | 20'-0" MAX. |

ABBREVIATIONS

| | | | |
|---------|---------------|--------|------------------------|
| ALT. | ALTERNATE | F.R.O. | FOR REFERENCE ONLY |
| ALUM. | ALUMINUM | EQ. | EQUIPMENT |
| APPROX. | APPROXIMATELY | GA. | GAUGE |
| @ | AT | CALV. | GALVANIZED |
| BD. | BOARD | GYP. | GYPSONUM |
| BLOG. | BUILDING | H.W. | HARDWARE |
| BLKG. | BLOCKING | MAX. | MAXIMUM |
| BTWN. | BETWEEN | MTL. | METAL |
| C.J. | CONTROL JOINT | MIN. | MINIMUM |
| C.L. | CENTER LINE | (N) | NEW |
| CLNG. | CEILING | N.I.C. | NOT IN CONTRACT |
| CLR. | CLEAR | N.T.S. | NOT TO SCALE |
| CONC. | CONCRETE | O.C. | ON CENTER |
| CONST. | CONSTRUCTION | PLYWD. | PLYWOOD |
| CONT. | CONTINUOUS | POC | POINT OF CONNECTION |
| CTR. | CENTER | REF. | REFERENCE |
| DEMO. | DEMOLISH | REQ'D. | REQUIRED |
| DET. | DETAIL | SIM. | SIMILAR |
| DIA. | DIAMETER | STD. | STANDARD |
| DN. | DOWN | THK. | THICK |
| (E) | EXISTING | TYP. | TYPICAL |
| EA. | EACH | U.O.N. | UNLESS OTHERWISE NOTED |
| ELEC. | ELECTRICAL | V.I.F. | VERIFY IN FIELD |
| EQ. | EQUAL | W/ | WITH |
| FLR. | FLOOR | WD. | WOOD |

Facility
UNIVERSITY OF CALIFORNIA SAN FRANCISCO
MISSION BAY CAMPUS
1555 SIXTH STREET
SAN FRANCISCO, CA 94158

Project
M4660 UCSF MISSION BAY
CHILDCARE CENTER RELOCATION

Sheet Title
COVER SHEET

Fac No: Bldg No: Flr Lev: Section:

Scale AS NOTED PA No.

Drawn By BU

Chckd By DM

Issue Date 7/1/17

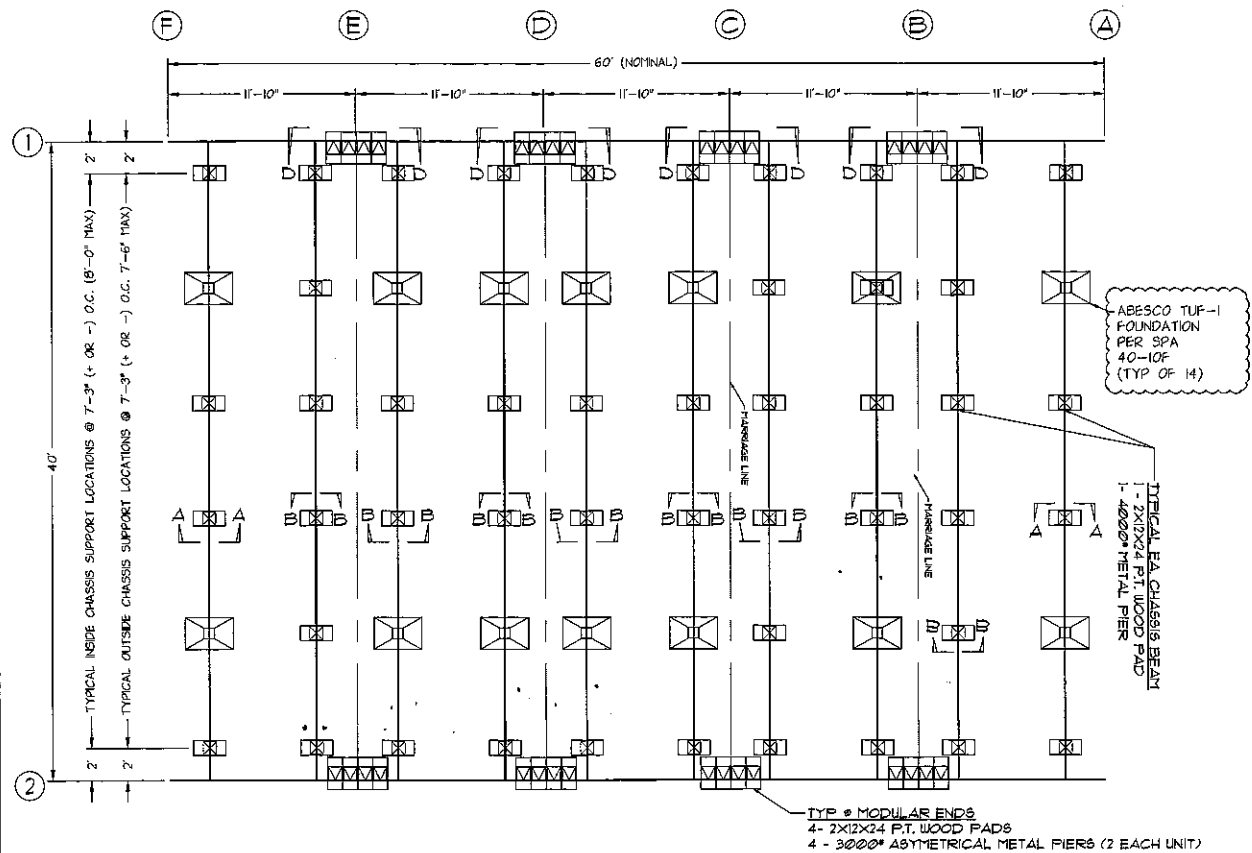
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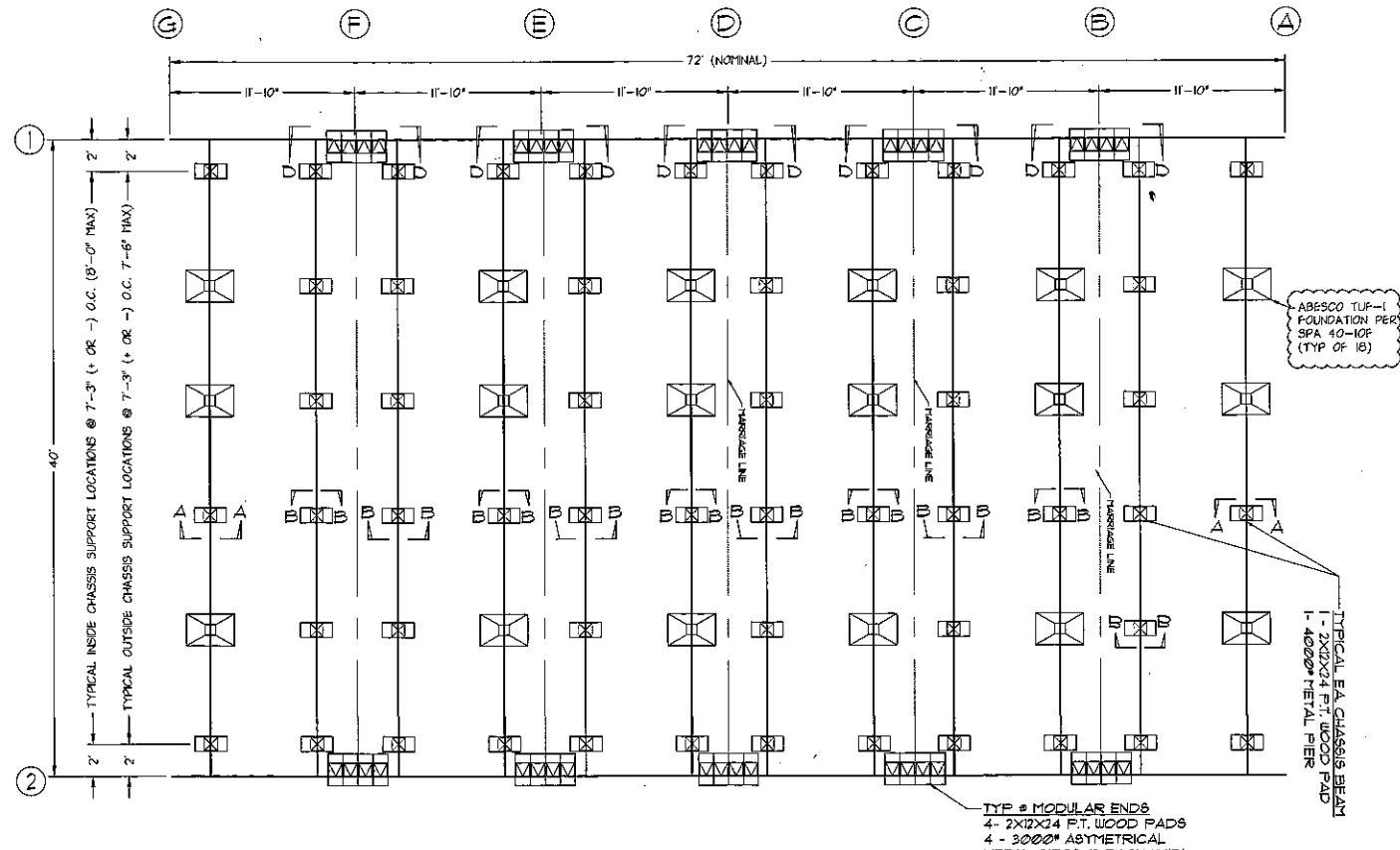
SFM PACKAGE 3: MODULAR BUILDINGS + SITE EGRESS





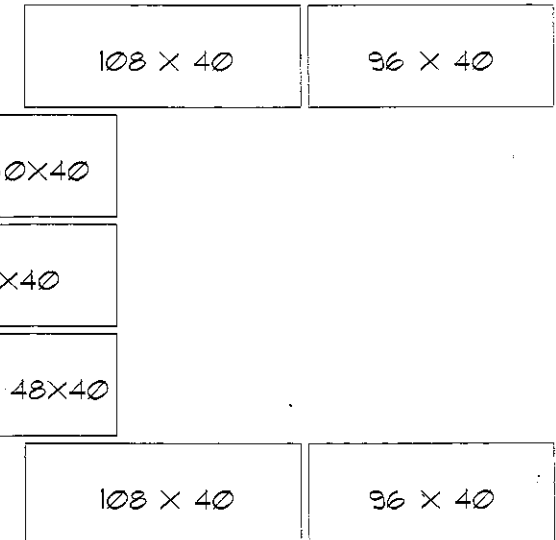
60' x 40' VERTICAL AND LATERAL SUPPORT PLAN

SCALE 3/8" = 1'



72' x 40' VERTICAL AND LATERAL SUPPORT PLAN

SCALE 3/8" = 1'



BUILDING LAYOUT PLAN

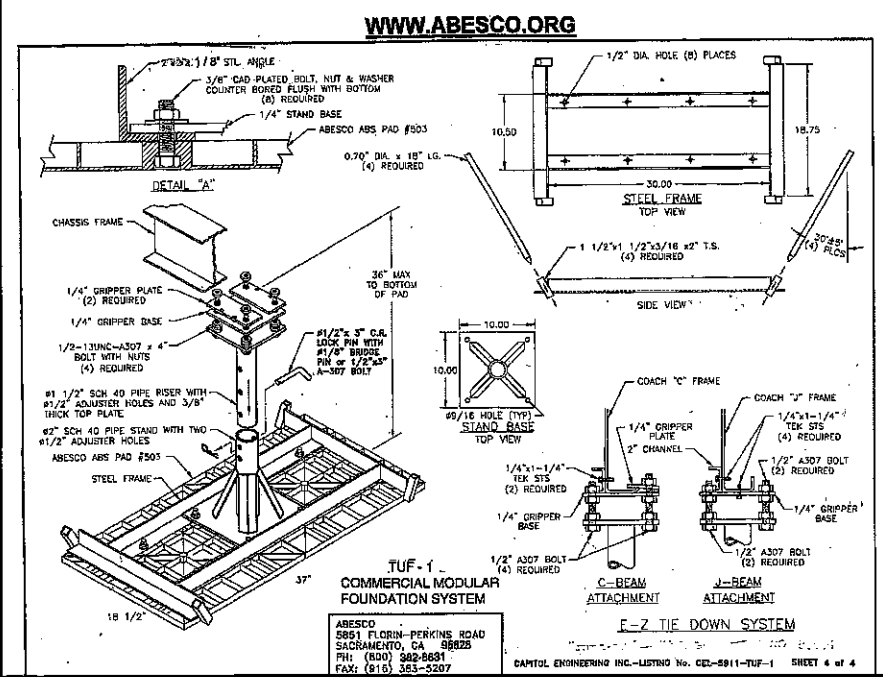
NOT TO SCALE

NOTE - TYPICAL:
AT THE AXLE AREAS, IF THE PRESCRIBED CHASSIS SUPPORT SPACING CANNOT BE MAINTAINED, PLACE 2 SUPPORTS AT THE FRONT AND BACK OF THE AXEL SPRING SHACKLES.

PLANS AND DETAILS FOR FOUNDATIONS FOR THE MODULAR BUILDINGS SPECIFY PRESSURE TREATED WOOD PADS FOR THE CHASSIS BEAM AND RIDGE BEAM SUPPORTS. APPROVED PLASTIC BEARING PADS CAN BE USED IN PLACE OF THE WOOD PADS. THE GROUND FOOT PRINT OF THE PLASTIC BEARING PAD, OR ASSEMBLY OF PADS MUST BE EQUAL TO THE GROUND FOOT PRINT OF THE SPECIFIED WOOD PADS.
EXAMPLE: SPECIFIED WOOD PADS: 2-2"x12"x24" P.T. BASE PADS WITH 1-2"x12"x24" CROSS PAD. EQUIVALENT APPROVED PLASTIC PAD IS: 1-24"x24" PAD OR 2-12"x24" BASE PADS WITH 1-12"x24" CROSS PAD.
SUPPORTS ON THE PLASTIC PADS CAN BE STEEL PIERS OR MASONRY BLOCKS.

GENERAL NOTES:

- DESIGN CRITERIA:
CODE: 2016 CBC
ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 50 PSF
WIND LOAD: $V_{100} = 110$ MPH, EXP. C -- 1.6 S PSF
SEISMIC: Base Shear = 0.2 G, SITE CLASS D
- TIE DOWN STRAPS MUST MEET ASTM-D-3953-97 AND BE AT LEAST 1/4"x0.038" HOT DIP GALVANIZED STEEL.
- MINIMUM DISTANCE FROM THE GROUND TO THE CHASSIS IS 12" AND 18" TO THE BOTTOM OF THE FLOOR JOIST.
- ANCHORING EQUIPMENT SHALL BE CAPABLE OF MINIMUM ALLOWABLE WORKING LOADS OF 3150 LBS AND CAPABLE OF WITHSTANDING A 50% OVERLOAD
- WOOD PADS FOR VERTICAL SUPPORTS SHALL BE PLACED ON CONCRETE, ASPHALT, OR STABLE SOIL WITH A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.

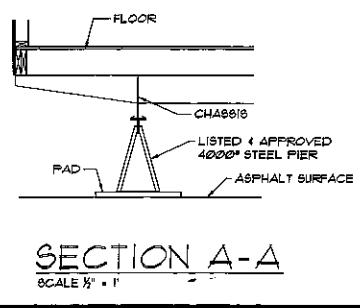
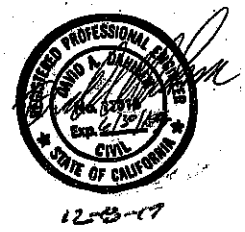


WWW.ABESCO.ORG

TUF-1
COMMERCIAL MODULAR
FOUNDATION SYSTEM

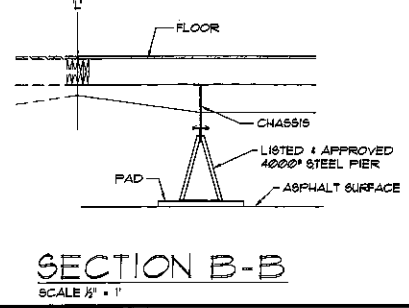
ABESCO
5551 FLOREN-PERKINS ROAD
SACRAMENTO, CA 95825
PH: (916) 382-8681
FAX: (916) 383-3207

CAPITOL ENGINEERING INC.-LISTING No. CEI-5911-TUF-1 SHEET 4 of 4



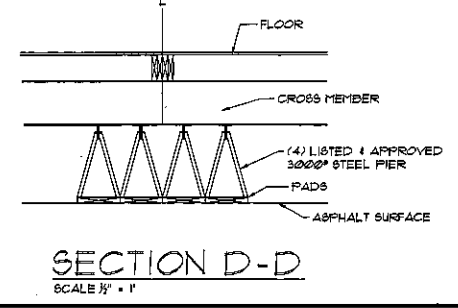
SECTION A-A

SCALE 1/2" = 1'



SECTION B-B

SCALE 1/2" = 1'



SECTION D-D

SCALE 1/2" = 1'

| REVISIONS | BY |
|----------------------|--------|
| REV PER P.C. 12-4-17 | D.A.D. |
| REV PER P.C. 12-8-17 | D.A.D. |

Pacific Consulting Engineers
2150 BELL AVENUE, SUITE 145
SACRAMENTO, CA 95833
(916) 564-6028, (916) 564-0829 (FAX)

MODSPACE
21201 CABOT BLVD
HAYWARD, CA 94945

UCSF MISSION BAY DAYCARE
11725 SUNSET BLVD.
SAN FRANCISCO, CA

60X40, 72X40 COMMERCIAL MODULAR
FOUNDATION PLANS AND DETAILS

| | |
|----------|----------|
| DRAWN | 1 |
| CHECKED | 2 |
| D.DAHMEN | |
| DATE | 4-27-17 |
| SCALE | AS NOTED |
| JOB NO. | 17-387 |
| SHEET | 1 |
| OF | 2 |

ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|--------------|-------------------------------|
| (E) | EXISTING |
| AB | ANCHOR BOLT |
| ADDL | ADDITIONAL |
| AR | ANCHOR ROD |
| BLKG | BLOCKING |
| BM | BEAM |
| BTWN | BETWEEN |
| CL | CENTER LINE |
| CLR | CLEAR OR CLEARANCE |
| CMU | CONCRETE MANSORY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION(S) |
| CONT | CONTINUOUS |
| CTR | CENTER |
| CTRSK | COUNTERSINK |
| db | DIAMETER OF BOLT OR REBAR |
| DEMO | DEMOLISH |
| DF | DOUGLAS FIR |
| DIA | DIAMETER |
| DIM(S) | DIMENSION(S) |
| DWG(S) | DRAWING(S) |
| EA | EACH |
| EF | EACH FACE |
| EMBED | EMBEDMENT |
| EN | EDGE NAIL |
| EQ | EQUAL |
| EXP | EXPANSION |
| FN | FIELD NAILING |
| FND | FOUNDATION |
| FTG | FOOTING |
| GA | GAGE, GAUGE |
| GALV | GALVANIZED |
| GEN | GENERAL |
| HDR | HEADER |
| HGR | HANGER |
| HK | HOOK |
| HORIZ | HORIZONTAL |
| INFO | INFORMATION |
| LONG | LONGITUDINAL |
| LVL | LAMINATED VENEER LUMBER |
| MAX | MAXIMUM |
| MB | UNFINISHED MACHINE BOLT |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MTL | METAL |
| N/A | NOT APPLICABLE |
| NO | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OH | OPPOSITE HAND |
| OPNG(S) | OPENING(S) |
| PL | PLATE |
| PLY | PLYWOOD |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| REINF | REINFORCE(D) (ING) OR (MENT) |
| REQD | REQUIRED |
| REV | REVISION |
| SCHED | SCHEDULE |
| SEOR | STRUCTURAL ENGINEER OF RECORD |
| SIM | SIMILAR |
| SOG | SLAB ON GRADE |
| SQ | SQUARE |
| STAGG'D | STAGGERED |
| STD | STANDARD |
| T&B | TOP AND BOTTOM |
| T&G | TONGUE AND GROOVE |
| TO | TOP OF |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| WF | WIDE FLANGE |

I. GENERAL REQUIREMENTS

A. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE SEOR.

F. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE SEOR.

G. WHERE MEMBER LOCATIONS ARE NOT DIMENSIONED, MEMBERS SHALL BE LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED. CENTERLINES OF COLUMNS, WALLS, FRAMING MEMBERS, AND FOUNDATIONS COINCIDE WITH GRIDLINES, UNLESS OTHERWISE NOTED.

H. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

I. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

J. CONTRACTOR SHALL COORDINATE SEWER AND UTILITY LINE LOCATIONS WITH THE FOUNDATION LOCATIONS AND SIZES SHOWN ON THE STRUCTURAL DRAWINGS. ANY INTERFERENCE BETWEEN SEWER/UTILITY LINES AND FOUNDATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE SEOR BEFORE PROCEEDING WITH THE WORK.

K. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. EXISTING CONSTRUCTION

A. WORK SHOWN IS NEW UNLESS OTHERWISE NOTED AS EXISTING, (E).

B. EXISTING CONSTRUCTION SHOWN IN THESE DRAWINGS WAS OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE SEOR OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE SEOR SHALL BE NOTIFIED IMMEDIATELY. APPROVAL SHALL BE OBTAINED PRIOR TO REMOVAL OF THE EXISTING MEMBERS.

D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

E. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.

F. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.

G. THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL WHERE EXISTING CONCRETE IS TO BE CUT, CORED OR SAWN. LOCATION SHALL BE DONE USING A NON-DESTRUCTIVE METHOD. DO NOT DAMAGE EXISTING REINFORCING WITHOUT NOTIFYING THE SEOR.

III. BASIS OF DESIGN

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2016 CALIFORNIA BUILDING CODE (CBC).

B. RISK CATEGORY = II

C. LIVE LOADS:
1. WALKWAYS = 50 PSF
2. CANOPY ROOF = 5 PSF

D. SEISMIC DESIGN DATA:
1. I = 1.0
2. SDS = 1.000
3. SD1 = 0.603
4. SITE CLASS = D
5. SEISMIC DESIGN CATEGORY = D

E. WIND DESIGN DATA
1. V = 110 MPH
2. Kzt = 1.0
3. EXPOSURE CATEGORY = C

IV. FOUNDATION DESIGN

1. THE FOUNDATION DESIGN IS BASED ON ALLOWABLE BEARING PRESSURES FROM 2016 CBC TABLE 1806.2

2. FOOTINGS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE BEARING PRESSURE OF 1500 PSF.

V. WOOD

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH. GRADE SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
1. JOISTS = NO. 2
2. BEAMS = NO. 2
3. POSTS = NO. 2
4. BLOCKING AND MISCELLANEOUS = NO. 2

C. ALL LUMBER IN CONTACT WITH CONCRETE 0'-8" OR LESS ABOVE THE GROUND AND/ OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

D. MAXIMUM MOISTURE CONTENT SHALL BE 15% AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS. ALL OTHER MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF FRAMING. REFER TO ARCHITECTURAL DRAWINGS, PROJECT SPECIFICATIONS AND CLADDING MANUFACTURERS' INFORMATION FOR MORE STRINGENT MOISTURE CONTENT REQUIREMENTS.

E. STRUCTURAL SHEATHING SHALL BE AS FOLLOWS (MIN THICKNESS AND MIN APA RATING):

1. WALLS = 1/2", SPAN RATING = 32/16, STRUCTURAL 1, EXPOSURE 1
2. FLOORS = 3/4", SPAN RATING = 32/16, STRUCTURAL 1, EXPOSURE 1

F. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.

G. NAILS SHALL BE COMMON WIRE GAGE, UNLESS OTHERWISE NOTED AND CONFORM TO CBC TABLE 2304.9.1.

H. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

I. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

J. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

K. TREX FRAMING SHALL BE AS MANUFACTURED BY TREX COMPANY, INC. INSTALL PER MANUFACTURER'S REQUIREMENTS AND APPLICABLE ICC-ES REPORT.

PROJECT:

**CHILD CARE CENTER
RELOCATION**

OWNER:
**UNIVERSITY OF
CALIFORNIA, SAN
FRANCISCO MISSION
BAY CAMPUS
727 NELSON RISING LN
SAN FRANCISCO, CA
94158**

| NO. | ISSUE: | DATE: |
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**BASE
DESIGN**

582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office: (415) 466-2997
www.BASEdesigninc.com



| DATE: | SCALE: | DRAWN: |
|------------|----------|--------|
| 12/11/2017 | AS NOTED | TTD |

**ABBREVIATIONS AND
GENERAL NOTES**

BASE DESIGN PROJECT NO.: 17185

S1.0