

1  
 M2 CHILLER DEMOLITION PLAN  
 SCALE: 1/2"=1'0"



| REV. | DATE |
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**AE Group**  
 Mechanical Engineers  
 838 East Front Street  
 Ventura, California 93001-2925  
 (805) 653-1722  
 hugh@aeagroupme.com

**MOORPARK COLLEGE**  
 7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021  
 VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF  
 MAINTENANCE & OPERATIONS  
 7075 CAMPUS RD.  
 MOORPARK, CA. 93021  
 PHONE: (805) 378-1454 FAX: (805) 378-1593

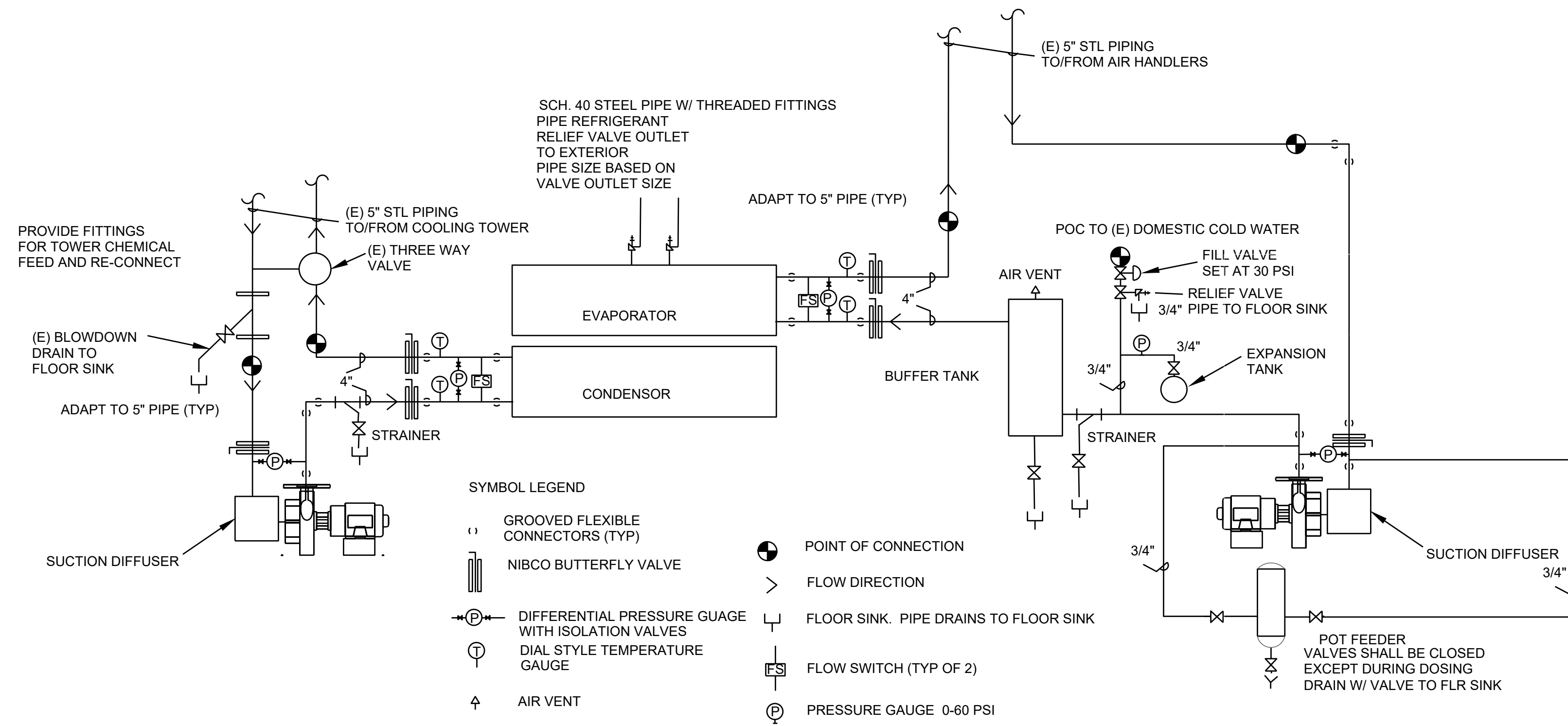
SCALE:  
 AS SHOWN  
 DATE:  
 7-20-22  
 BLDG. NO.:

PHYSICAL SCIENCE BUILDING  
 CHILLER REPLACEMENT

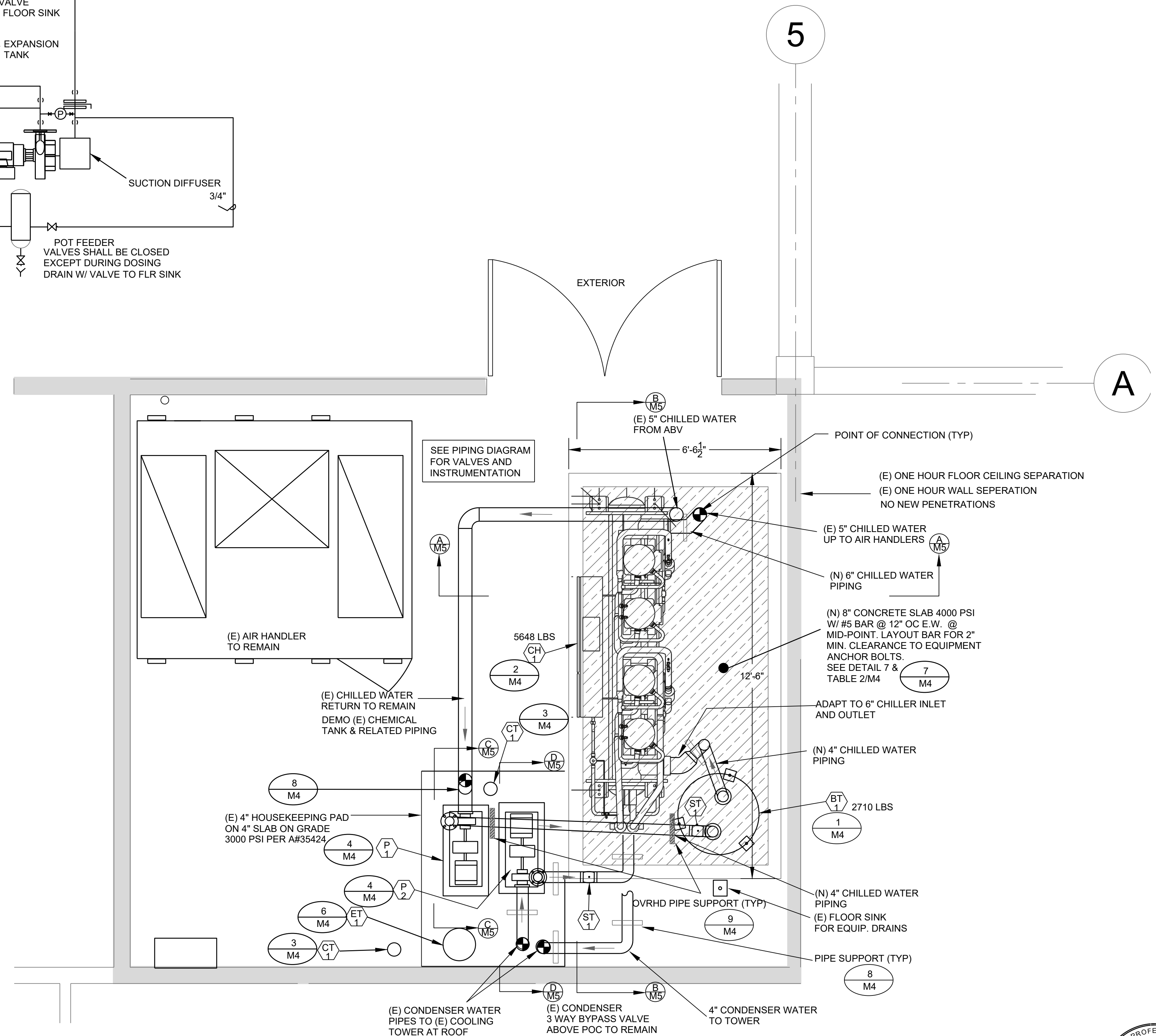
CHILLER  
 DEMOLITION PLAN

SHEET NO.  
**M2**  
 3 OF 9

BACK CHECK SUBMITTAL



2 PIPING DIAGRAM  
 M3 NO SCALE



1 CHILLER PLAN  
 M3 SCALE: 1/2"=1'0"

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND 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 SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVEABLE 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.
- TEMPORARY, MOVEABLE 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 A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH REFERENCES NOTED ABOVE. THESE 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 DIRECTION.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- 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 MECHANICAL, ELECTRICAL AND PLUMBING 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.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTIONS 1617A.1.24, 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 BRACE LOADS.

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

- MP  MD  PP  E  - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.  
 MP  MD  PP  E  - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # \_\_\_\_\_.



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 PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE:  
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 DATE:  
 7-20-22  
 BLDG. NO.:

PHYSICAL SCIENCE BUILDING  
 CHILLER REPLACEMENT  
 CHILLER  
 PLAN

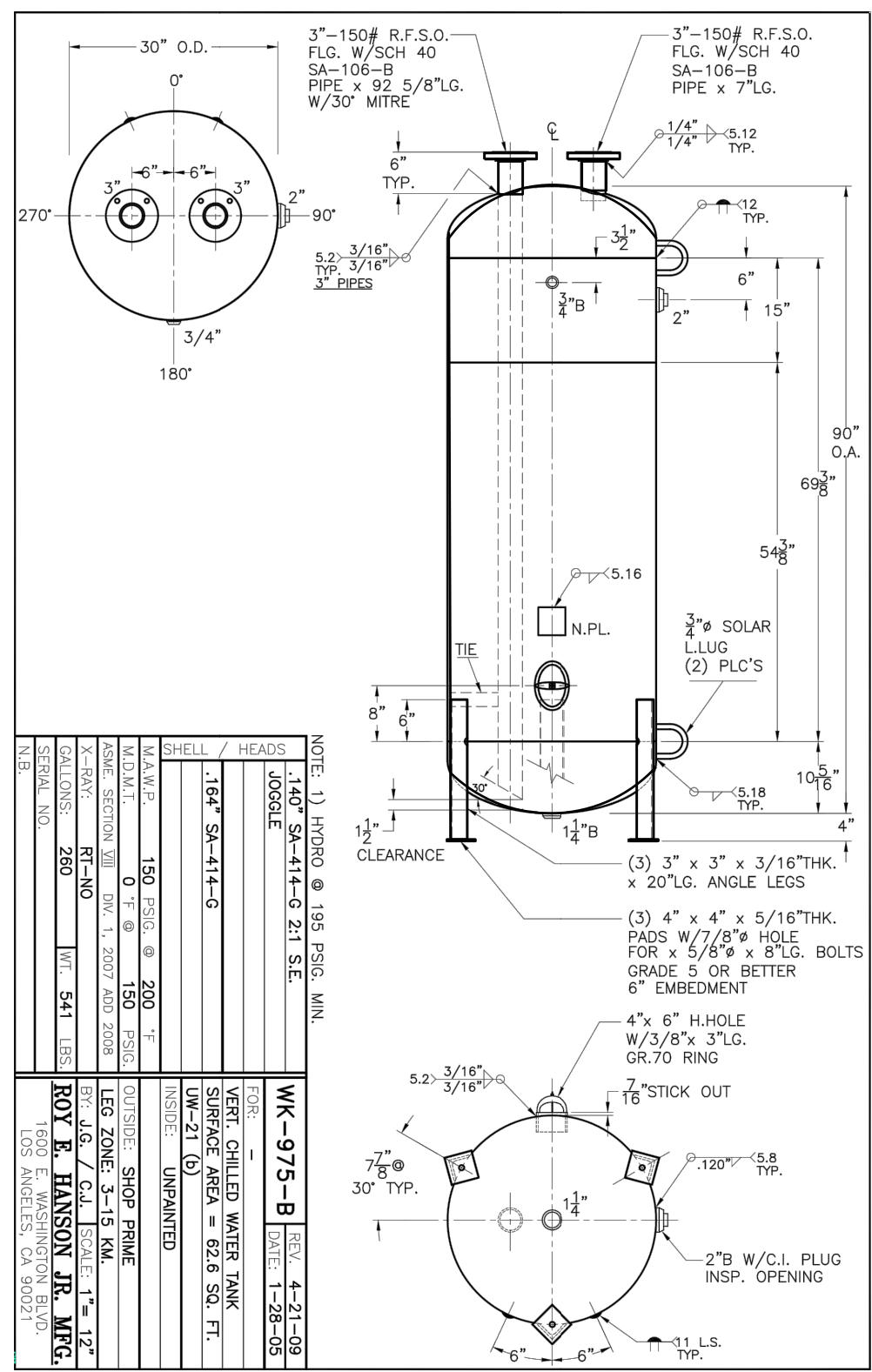
SHEET NO.  
**M3**  
 4 OF 9

BACK CHECK SUBMITTAL

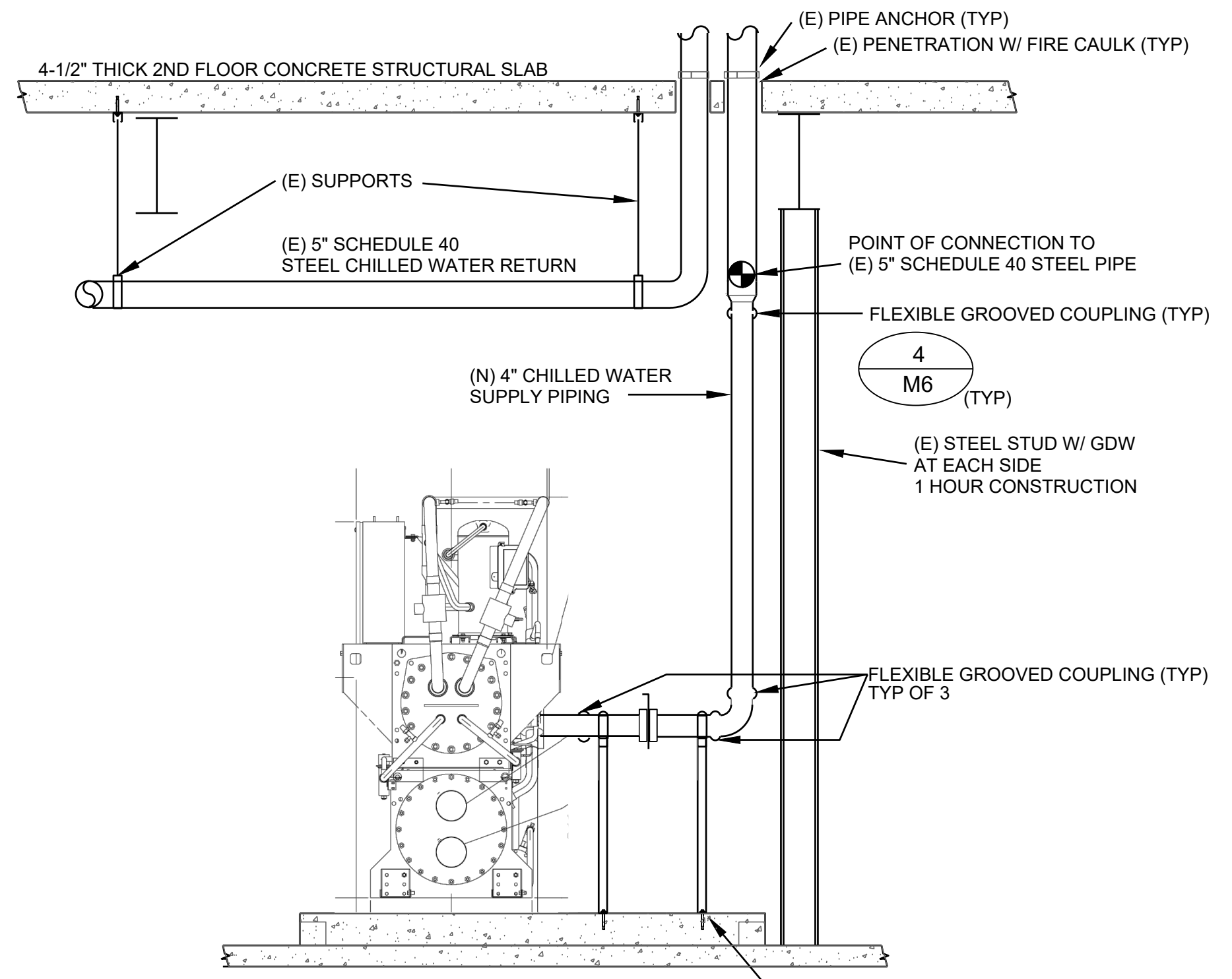


AGENCY APPROVAL

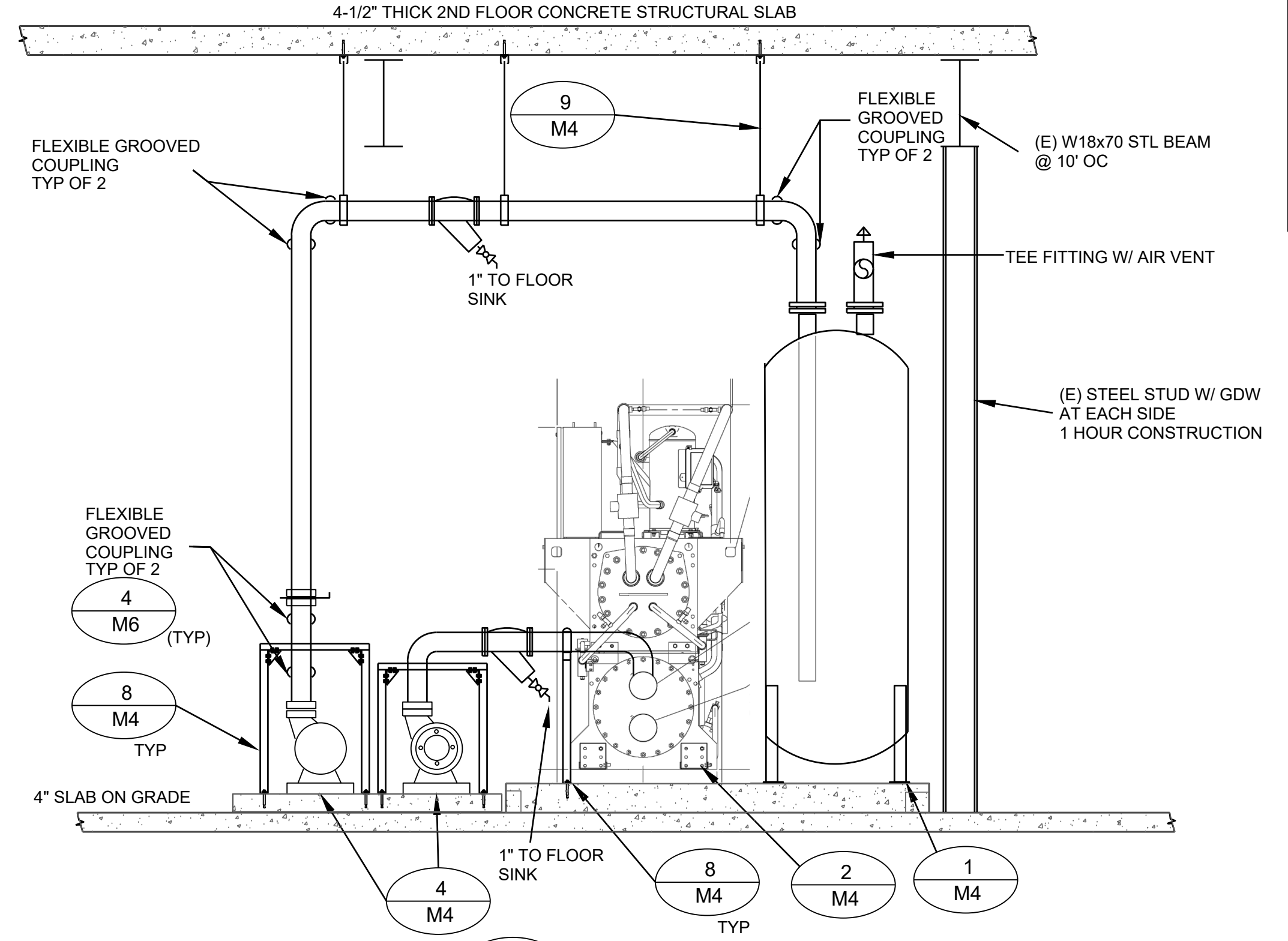
IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 03-122447 INC:  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 09/09/2022



1 BUFFER TANK INFORMATION  
 M5 NO SCALE



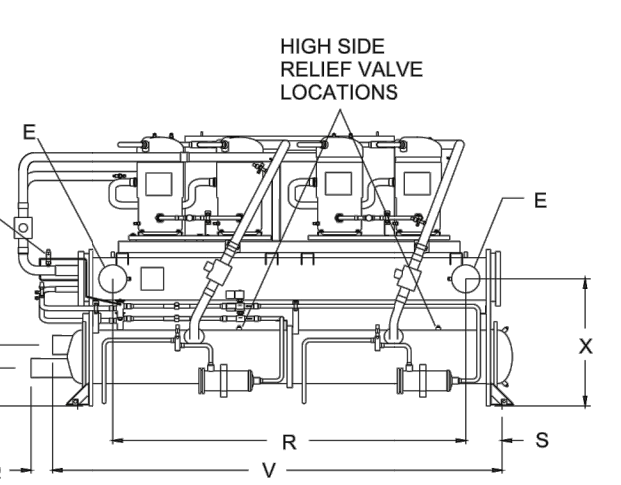
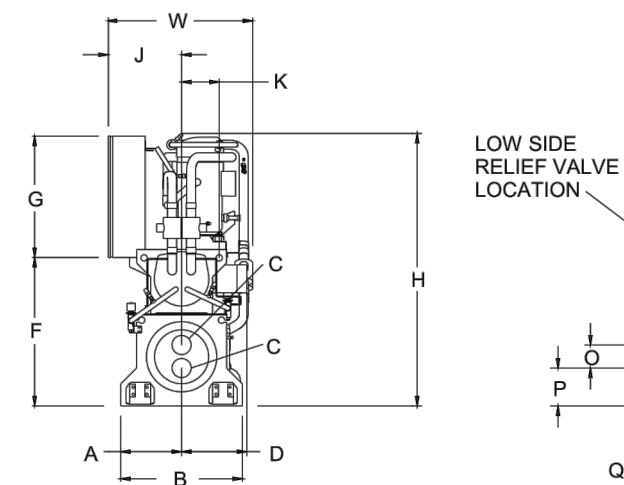
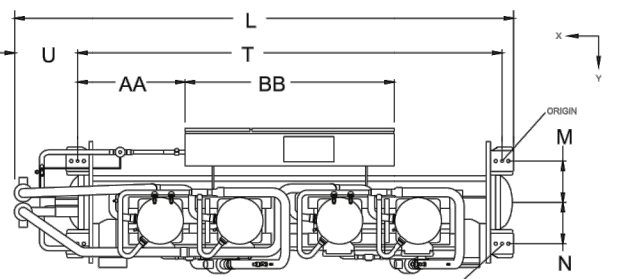
A-A SECTION  
 M5 SCALE 1/2"=1'0"



B-B SECTION  
 M5 SCALE 1/2"=1'0"

Unit Dimensions - Four Compressor (Cont'd)

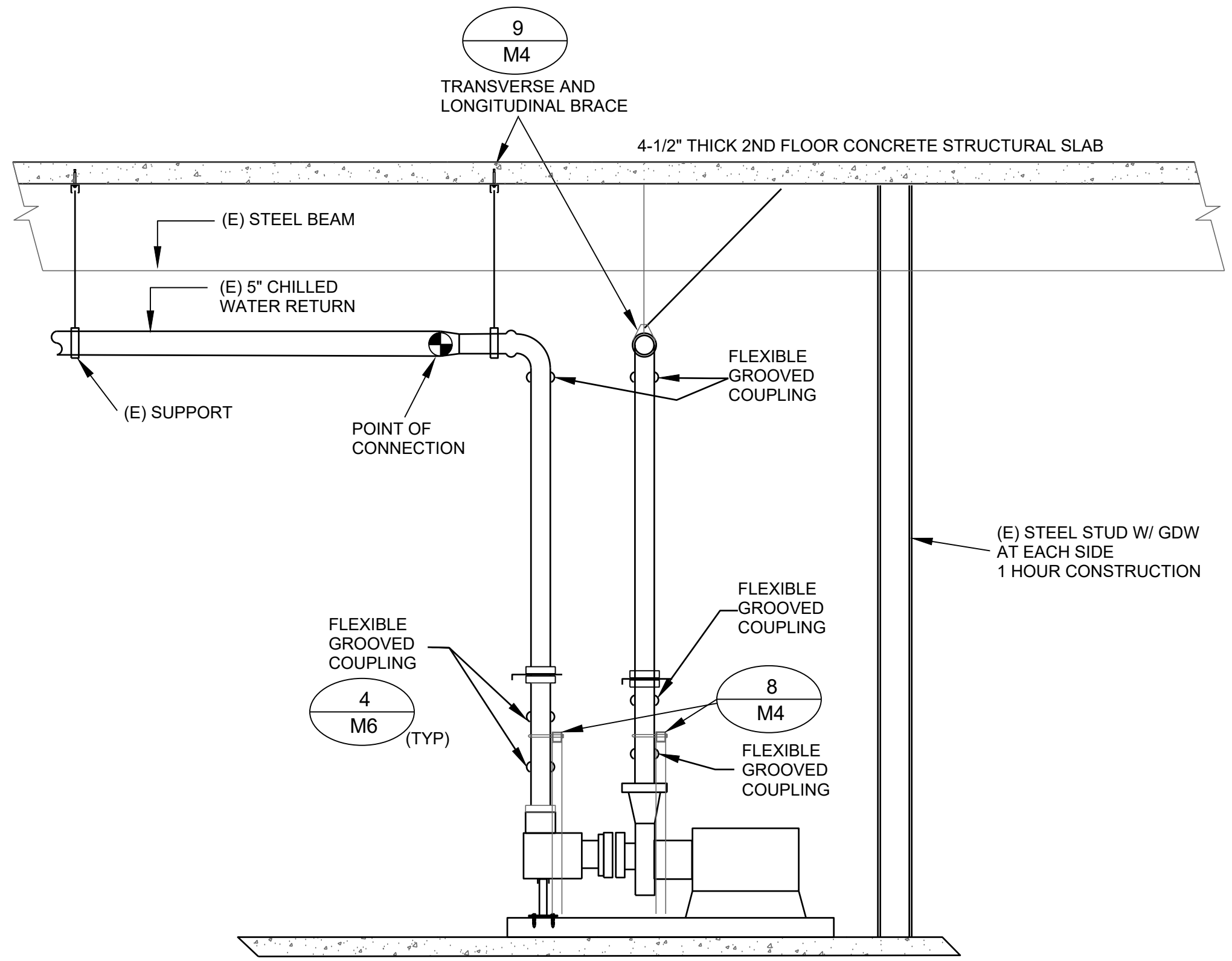
NOTES:  
 1. Recommended service clearances:  
 Rear to wall: 20" (508mm)  
 Front to wall: 36" (915mm)  
 Top: 43" (1092mm)  
 Tube cleaning and removal: 132" (3353mm) either end  
 2. Relief valve connection sizes:  
 Low side (suction line): 1/2" flare  
 High side (condenser): 5/8" NPTI



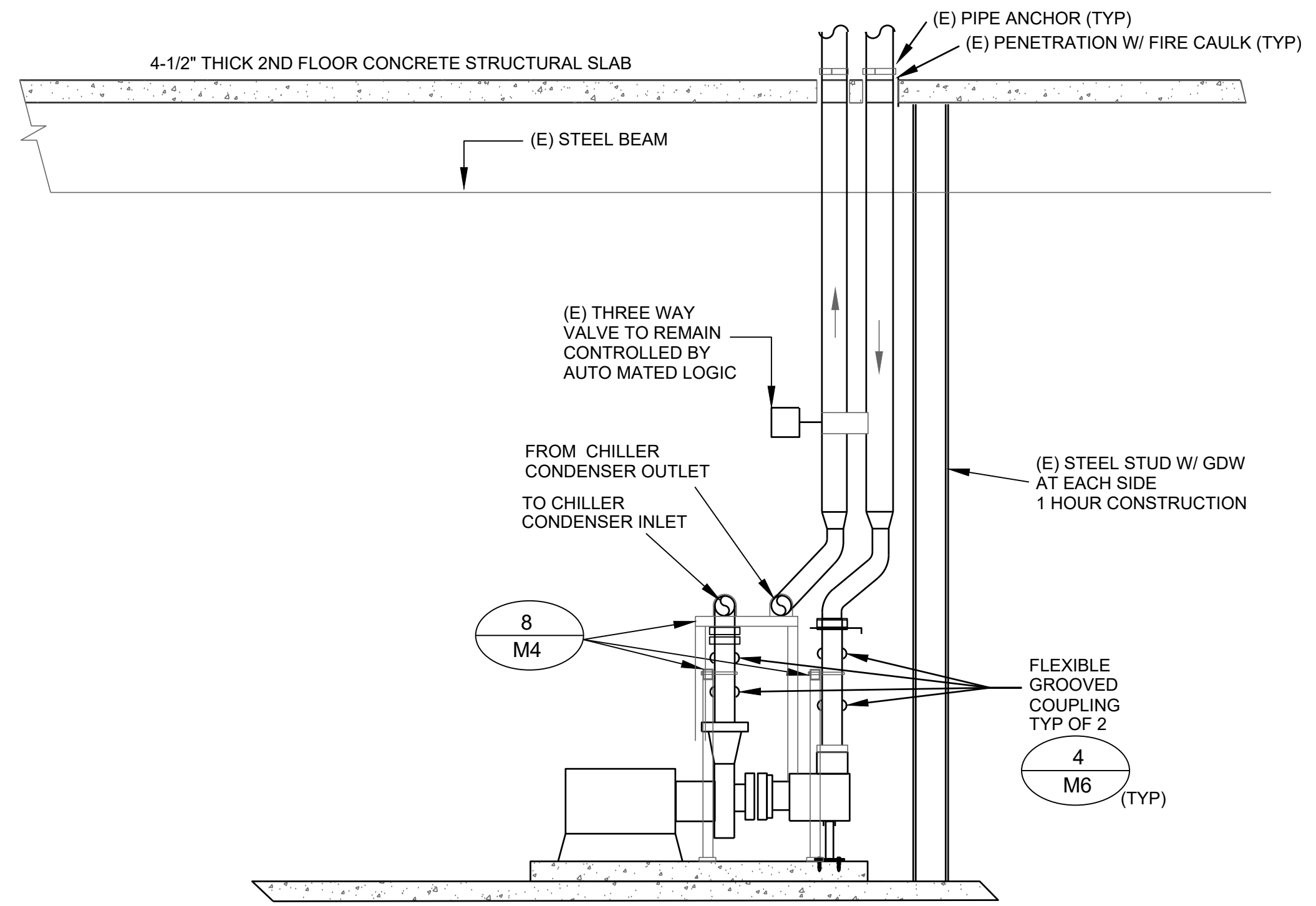
Unit Dimensions - Four Compressor

| YCWL | STANDARD EFFICIENCY (SE) |           |           |           |           |           |           |           |           |  |
|------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
|      | 0056SE                   | 0064SE    | 0074SE    | 0084SE    | 0094SE    | 0104SE    | 0118SE    | 0132SE    | 0157SE    |  |
| W    | 34 5/8                   | 34 5/8    | 33 13/16  | 33 13/16  | 33 13/16  | 33 13/16  | 33 13/16  | 33 13/16  | 34 13/16  |  |
| H    | 64 15/32                 | 64 15/32  | 68 29/32  | 68 29/32  | 72 9/32   | 71 25/32  | 71 25/32  | 74 1/2    | 76 17/32  |  |
| H**  |                          |           | 70 1/2    | 70 1/2    |           | 73 1/2    | 73 1/2    | 75        |           |  |
| L    | 119 5/8                  | 119 5/8   | 125 15/16 | 125 15/16 | 125 15/16 | 124 1/8   | 124 1/8   | 123 5/16  | 143 7/16  |  |
| A    | 14 1/2                   | 14 1/2    | 14 1/2    | 14 1/2    | 14 1/2    | 14 1/2    | 14 1/2    | 14 1/2    | 15        |  |
| B    | 29                       | 29        | 29        | 29        | 29        | 29        | 29        | 29        | 30        |  |
| C    | 4 1/2                    | 4 1/2     | 4 1/2     | 4 1/2     | 4 1/2     | 4 1/2     | 4 1/2     | 5 9/16    | 5 9/16    |  |
| D    | 15 17/32                 | 15 17/32  | 15 17/32  | 15 17/32  | 11 25/32  | 15 17/32  | 15 17/32  | 16 1/32   | 16 1/32   |  |
| E    | 6 5/8                    | 6 5/8     | 6 5/8     | 6 5/8     | 6 5/8     | 6 5/8     | 6 5/8     | 8 5/8     | 8 5/8     |  |
| F    | 35 15/32                 | 35 15/32  | 35 15/32  | 35 15/32  | 35 15/32  | 38 1/2    | 38 1/2    | 40        | 41        |  |
| G    | 29                       | 29        | 29        | 29        | 29        | 29        | 29        | 29        | 29        |  |
| J    | 17 11/16                 | 17 11/16  | 17 11/16  | 17 11/16  | 17 11/16  | 17 11/16  | 17 11/16  | 17 11/16  | 17 11/16  |  |
| K    | 8 15/16                  | 8 15/16   | 8 15/16   | 8 15/16   | 12 1/4    | 12 1/4    | 12 1/4    | 12 3/4    | 17 25/32  |  |
| M    | 9 7/8                    | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 10 3/8    |  |
| N    | 9 7/8                    | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 9 7/8     | 10 3/8    |  |
| O    | 5 1/2                    | 5 1/2     | 5 1/2     | 7 1/8     | 7 1/8     | 7 1/8     | 7 1/8     | 8 1/8     | 8 5/8     |  |
| P    | 9 1/8                    | 9 1/8     | 9 1/8     | 8 3/8     | 8 3/8     | 8 3/8     | 8 3/8     | 7 7/8     | 8 1/2     |  |
| Q    | 5 1/8                    | 5 1/8     | 5 1/8     | 5 1/8     | 5 1/8     | 5 1/8     | 5 1/8     | 5 7/32    | 5 3/16    |  |
| R    | 84 1/2                   | 84 1/2    | 84 1/2    | 84 1/2    | 85        | 85        | 85        | 83        | 102       |  |
| S    | 8 21/32                  | 8 21/32   | 8 21/32   | 8 21/32   | 8 13/32   | 8 13/32   | 8 13/32   | 9 13/32   | 11 29/32  |  |
| T    | 101 13/16                | 101 13/16 | 101 13/16 | 101 13/16 | 101 13/16 | 101 13/16 | 101 13/16 | 101 13/16 | 125 13/16 |  |
| U    | 15 11/16                 | 15 11/16  | 21 3/8    | 21 3/8    | 21 3/8    | 19 9/16   | 19 9/16   | 18 3/4    | 14 7/8    |  |
| V    | 107 25/32                | 107 25/32 | 107 25/32 | 107 25/32 | 107 25/32 | 107 25/32 | 107 25/32 | 108 7/32  | 132 23/32 |  |
| X    | 30 3/8                   | 30 3/8    | 30 3/8    | 30 3/8    | 32        | 32        | 32        | 33 1/4    | 36 1/4    |  |
| AA   | 25 29/32                 | 25 29/32  | 25 29/32  | 25 29/32  | 25 29/32  | 25 29/32  | 25 29/32  | 25 29/32  | 35 17/32  |  |
| BB   | 50                       | 50        | 50        | 50        | 50        | 50        | 50        | 50        | 50        |  |

2 CHILLER PRODUCT INFORMATION  
 M5 NO SCALE



C-C SECTION  
 M5 SCALE 1/2"=1'0"



D-D SECTION  
 M5 SCALE 1/2"=1'0"

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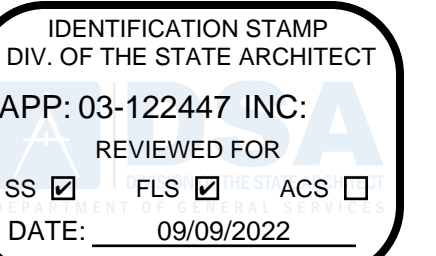
**MOORPARK COLLEGE**  
 7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021  
 VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

|  |                           |   |              |
|--|---------------------------|---|--------------|
| DEPARTMENT OF MAINTENANCE & OPERATIONS   | SCALE: AS SHOWN           | PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT | SHEET NO. M5 |
| 7075 CAMPUS RD. MOORPARK, CA. 93021<br>PHONE: (805) 378-1454 FAX: (805) 378-1593 | DATE: 7-20-22<br>BDC: NO. | CHILLER PRODUCT INFORMATION                   | 6 OF 9       |

BACK CHECK SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER  
 HUGH A. METERNIK  
 M030626  
 Ren. 6/30/2024  
 MECHANICAL  
 STATE OF CALIFORNIA





CERTIFICATE OF COMPLIANCE NRCC-MCH-E This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 1 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

Table with 4 columns: Item, Description, Value, and Unit. Includes rows for Project Location, Climate Zone, and Occupancy Types.

B. PROJECT SCOPE This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Table with 3 columns: 01 Air System(s), 02 Wet System Components, 03 Dry System Components. Includes checkboxes for Heating Air System, Cooling Air System, etc.

CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 2 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

Table with 9 columns: 01 System Summary, 02 Pumps, 03 Fans/Economizers, 04 System Controls, 05 Ventilation, 06 Terminal Box Controls, 07 Distribution, 08 Cooling Towers, 09 Compliance Results. Includes values for \$110.1, \$110.2, \$140.4(k), etc.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(c) or §141.0(b)2 for alterations.

Table with 10 columns: 01 Name or Item Tag, 02 Equipment Type, 03 Size Category, 04 Chiller Efficiency, 05 Rated Efficiencies, 06 Minimum Efficiencies, 07 Efficiency Unit, 08 Isolation Valve, 09 Temperature Reset, 10 Controls per §140.4(k). Includes row for QWC3100TSE.

CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 3 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

G. PUMPS This table is used to demonstrate compliance with Prescriptive hydronic system requirements found in §140.4(k) applicable to pumps < 5hp.

Table with 8 columns: 01 Name or Item Tag, 02 Equipment Type, 03 Qty, 04 HP, 05 Variable Flow, 06 Hydronic Heat Pump Isolation, 07 VSD on Pumps > 5HP, 08 Differential Pressure Sensor. Includes rows for CHW and CHW2.

H. FAN SYSTEMS & AIR ECONOMIZERS This section does not apply to this project.

I. SYSTEM CONTROLS This section does not apply to this project.

J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.

K. TERMINAL BOX CONTROLS This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING) This section does not apply to this project.

M. COOLING TOWERS This section does not apply to this project.

CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 4 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/

Table with 4 columns: Yes, No, Form/Title, Field Inspector (Pass/Fail). Includes row for NRCA-MCH-01-E.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/

Table with 4 columns: Yes, No, Form/Title, Systems To Be Field Verified. Includes rows for NRCA-MCH-02-A, NRCA-MCH-03-A, NRCA-MCH-04-A, etc.

CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 5 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/

Table with 4 columns: Yes, No, Form/Title, Field Inspector (Pass/Fail). Includes rows for NRCA-MCH-12-A, NRCA-MCH-13-A, NRCA-MCH-14-A, etc.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCA/

Table with 4 columns: Yes, No, Form/Title, Field Inspector (Pass/Fail). Includes rows for NRCV-MCH-04-H, NRCV-MCH-24, NRCV-MCH-27, etc.

CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: Moorpark College Physical Science Building Chiller Replacement Report Page: (Page 6 of 7) Project Address: 7075 Campus Road Date Prepared: 7/21/2022

Q. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

Table with 2 columns: 01 Compliance with Mandatory Measures, 02 Plan sheet or construction document location. Includes row for Mandatory Measures Note Block.

Table with 2 columns: REV, DATE. Includes revision history.



Table with 4 columns: DEPARTMENT OF MAINTENANCE & OPERATIONS, SCALE: AS SHOWN, PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT, ENERGY NOTES. Includes sheet number EN1.



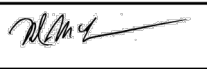


**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

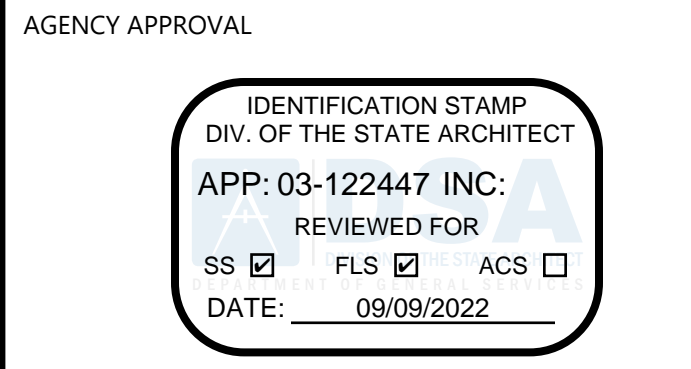
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|---|--|
| Documentation Author Name:<br>Jose Sanchez      | Documentation Author Signature:<br> |
| Company:<br>AE Group Mechanical Engineers, Inc. | Signature Date:<br>2022-07-21  |
| Address:<br>838 East Front Street               | CEA/ HERS Certification Identification (if applicable):  |
| City/State/Zip:<br>Ventura CA 93003             | Phone:<br>8056531722   |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

|   |  |
|---|--|
| Responsible Designer Name:<br>Hugh McTernan     | Responsible Designer Signature:<br> |
| Company:<br>AE Group Mechanical Engineers, Inc. | Date Signed:<br>2022-07-21   |
| Address:<br>838 E Front Street                  | License:<br>M030626  |
| City/State/Zip:<br>Ventura Ca 93001             | Phone:<br>805-653-1722   |

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance  
 Registration Date/Time: 2019.1.003  
 Registration Provider: Energysoft  
 Report Version: 2019.1.003  
 Schema Version: rev 20200601  
 Report Generated: 2022-07-21 10:48:32



| REV. | DATE |
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**M O O R P A R K C O L L E G E**  
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SCALE:  
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PHYSICAL SCIENCE BUILDING  
 CHILLER REPLACEMENT  
 ENERGY  
 NOTES

SHEET NO.  
**EN2**  
 9 OF 9

BACK CHECK SUBMITTAL