

Compton Community College District 1111 E. Artesia Blvd. Compton, CA 90221

DATE:September 5, 2023TO:All BiddersPROJECT:RFQ CCC-080
Administration Building Renovation Re-Bid

SUBJECT: ADDENDUM #2

The following changes, omissions, and/or additions to the Project Documents shall apply to bids made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum.

Respondent shall acknowledge receipt of this Addendum in the bid documents. Failure to do so may subject Respondent to disqualification.

1. General Information:

1.1 This project was originally bid as RFQ CCC-078 Administration Building Renovation. Due to budget restraints, there has been significant value engineering to the project and significant scope has been deleted from the original project. This Addendum #2 reflects that deletion of scope.

2. Changes to Specifications:

2.1 Replace the previously issued Section 01 01 00 Scope of Work with the attached revised Section 01 01 00 Scope of Work including District Resolution 06-27-2022J for Johnson Controls and District Resolution 06-27-2022F for Stanley Security.

3. Changes to Drawings:

4.1 Replace the previously issued drawings with the Addendum #2 drawings attached including sheets T-1, T-2, T-3, AS-1, AS-2, A0.1, A0.2, A0.3, A1.1, A2.1, A3.1, A4.1, A5.1, A7.1, A8.1, A8.2, A11.1, 4.01, 5.01, 6.01, 6.02, 7.01, 7.02, 8.00, 8.01, 8.02, 8.03, 9.01, 9.02, 9.11, 11.01, 11.02, S0.1, S1.1, S1.2, S1.3, S1.4, S1.5, S2.1, S3.1, S4.1, M0.1, M0.2, M0.3, MD-1, MD-3, M-1, M-3, M-4, M-5, P-0.1, P0.2, PD-1, P-1, P-3, P-4, E0.1, E0.2, E0.3, E0.4, E0.5, E0.6, ES-1, ES-2, ED-1, E1-1, E2-1, E2-2, EF-1, EF-2, EF-3, ET-1 and ET-2.

Attachments:

Section 01 01 00 Scope of Work ADD #2 District Resolution 06-27-2022J for Johnson Controls District Resolution 06-27-2022F for Stanley Security Addendum #2 Drawings

END OF ADDENDUM #2

Compton Community College District RFQ CCC-080 Administration Renovation Re-Bid

SECTION 01 01 00 SCOPE OF WORK RFQ CCC-080 Administration Renovation Re-Bid Addendum #2 09-05-2023

PART 1 - GENERAL

1.01 SECTION INCLUDES:

- A. All work Covered by Contract Documents
- B. Contractor Use of Premises

1.02 WORK COVERED BY CONTRACT DOCUMENTS:

- A. **Work Included:** The work to be performed by contractor shall conform to the requirements of all of Division 00 and Division 01 as well as the General Conditions, Special Conditions, Specifications, <u>all sheets in Drawings</u> and other related documents (Environmental Report, Addenda), and includes the furnishing of all supervision, labor, materials, tools, equipment, transportation, plan and services necessary therefore and incidental thereto to complete the project. If reference is not made to a specific specification section, it does not relieve the prime contractor of his obligation for all specification sections. The work shall consist of, but not be limited to, the following project procedures / scope:
 - 1. All scope of work described herein as depicted within the drawings for DSA Application 03-119689.
 - 2. District Standards are a minimum requirement of this contract;
 - A. The District has passed District Resolution No. 06-27-2022F for Stanley Building Security Systems Services and products for building security alarm, surveillance cameras, motion detection devices and electronic door access. NO substitutions for materials, systems or services for security systems will be accepted by the District for these products.
 - B. The District has passed District Resolution No. 06-27-2022J for Johnson Controls Fire Protection LP for all materials, equipment and systems related to fire alarms. NO substitutions for materials, systems or services for fire alarm systems will be accepted by the District for these products.
 - 3. Contractor is to accurately locate and provide, or assign through subcontract, all materials and work for the entire project including but not necessarily limited to the following work: Temporary Project Sign, Demolition Work, Site Concrete Paving, Plain Concrete Paving, Concrete Formwork, Concrete Reinforcement, Cast-In-Place Concrete,

Concrete Finishing, Anchors and Fasteners, Expansion Joint Cover Assemblies, Rough Carpentry, Coring and Saw Cutting, Mortar, Grout, Metal Fabrications, Finish Carpentry, Sheet Metal, Light Gage Metal Framing, Signage, Fire Stopping & Fire Proofing, Sealants, Access Panels, Light Gauge Metal Framing, Suspended Framing and Furring, Plaster, Acoustical Ceilings, Painting, and all other required materials, equipment and labor not identified, but necessary to complete project scope of work.

- 4. Contractor shall not scale drawings. All measurements shall be field verified.
- 5. **Provide a \$150,000 Allowance to be used at the discretion of the District through the Construction Manager**. All work pertaining to the allowance must be approved by the Construction Manager. If work authorized is less than the Allowance, then a Deductive Change Order will be issued. Work to be directed by the Construction Manager. The allowance shall be listed as a separate line item on the contractor's schedule of values.
- 6. Add Alternate, Section 01 23 00: Contractor will provide an Add Alternate price for all work associated with Room 117 Conference Room. This includes but is not limited to all required framing, drywall, painting, insulation, flooring, ceiling and all required mechanical and electrical including ductwork pathways and low voltage. This amount will not be part of the base bid and will appear on the bid proposal as a separate line item for Add Alternate No. 1.
- 7. This contractor is aware and will have sole responsibility of coordinating contractors performing work incidental to this project, such as moving operations, electronic installations and furniture installation for which the District school contractors will be required on an as necessary basis.
- 8. Demolition and Environmental Abatement:
 - A. This contractor will comply and provide all Lead and asbestos abatement as specified within the consulting Report:

Comprehensive Asbestos and lead based paint XRF survey report: Bainbridge Project # 18016255.12 Dated: January 18, 2018

- B. Provided within the documents and included in the bid. All required certifications will be provided by this contractor.
- C. This contractor will coordinate and sequence the abatement and demolition contractor to ensure that the demolition is not delayed by the abatement contractor as shown in the schedule.
- D. All roof and exterior abatement are not part of this contract. The contractor will abate all interior lead and asbestos per the report.
- 9. This contractor understands that this contract and construction will be conducted under the Occupied Site Protocol. All

activities outside of the work area: i.e. Deliveries, Flagmen, Parking, Staging, outside of the designated work area must be scheduled and approved by the District two weeks prior. This will allow the District ample time to provide a notification to the Students and Staff. Any damage to the District's property outside of the work area will be the contractor's responsibility to repair or replace immediately.

- A. The contractor will include a two-week notification and request for the connection to the high voltage switch (PMS2) to ensure no impact of shutdown is experienced by the rest of the campus. This includes the possibility of working after hours and/or weekends to avoid interruptions to the campus curriculum.
- 10. Specific Scope of Work outside Limits of Work to be included within this Bid Package: Laydown Yard Restoration. Remove and dispose of all remaining debris. Remove all temp fence. Remove construction trailer etc. Reinstall any disturbed ground cover and return all areas to an undisturbed state. Complete wash down and make sure all existing irrigation is still fully functional. This contractor is responsible for all damage occurring to the irrigation and will repair to achieve full functionality. This contractor is responsible for all damages occurring as a result of this contract.
- 11. The Contractor understands and will allow a minimum period of five days after demolition for a pest control evaluation through the building. The contractor has the sole responsibility of notifying the district and/or district representative of the demolition ending period one week in advance to coordinate the pest control evaluation.
- 12. The Contractor has the sole responsibility to x-ray the concrete slab prior to concrete saw cutting in the areas where demo of the concrete slab is required and shown within the plans.
- 13. The Contractor shall confirm and coordinate with the plumber and electrician to trace out all of the underground utilities pertaining to but not limited to water, sewer, gas lines, and electrical lines under the concrete slab.
- 14. The Contractor understands the scheduling requirements and has included within its base bid all weekend and overtime work necessary to meet the construction schedule. This is to include sufficient manpower, materials and equipment to meet each portion of the construction schedule. All submittals are to be completed and turned in for review to allow for proper review and approval, material procurement, material manufacturing and material delivery in

accordance with the construction schedule and submittal schedule shown below.

This Contractor is to adhere to the following submittal schedule shown as Calendar Days.

1.	Executed contract.	Five (5) Days from the District's issuance of a Notice to Proceed.
2.	Submittal	Fifteen (15) Days from the District's issuance of a Notice to Proceed
3.	Shop Drawing Schedule	Fifteen (15) Days from the District's issuance of a Notice to Proceed
4.	Procurement schedule with all copies of purchase orders and subcontractor agreements.	Fifteen (15) Days from the District's issuance of a Notice to Proceed
5.	Manufacturing schedule with all long lead and special inspection requirements.	Fifteen (15) Days from the District's issuance of a Notice to Proceed
6.	Delivery schedule.	Fifteen (15) Days from the District's issuance of a Notice to Proceed
7.	Detailed construction schedule.	Fifteen (15) Days from the District's issuance of a Notice to Proceed
8.	Commissioning, Warranty, Closeout and punch list schedule.	Fifteen (15) Days from the District's issuance of a Notice to Proceed.

15. Provide all Concrete Forming scope of work per plans and spec section 03 10 00.

16. Provide all Concrete Reinforcing scope of work per plans and spec section 03 20 00.

- 17. Provide all Cast In Place Concrete scope of work per plans and spec Section 03 30 00.
- 18. Provide all Concrete Floor Finishes scope of work for this bid package, per plans and specs. Section 03 35 11
- 19. Provide all Post-Installed Concrete Anchors per plans and spec section 05 05 19.
- 20. Provide all Metal fabrications per plans and specification Section 05 50 00.

- 21. Provide all rough carpentry scope of work for this bid package, per plans and specifications. 06 10 00.
- 22. Provide all Finish Carpentry scope of work for this bid package, per plans and specifications. 06 20 00.
- 23. Provide all Fire and Smoke Assembly Identification scope of work per plans and specs. 07 05 53
- 24. Provide all Thermal Insulation scope of work per plans and specs. 07 21 00.
- 25. Furnish and Install all Fire Stopping per Specification Section 07 84 00.
- 26. Furnish and Install all Joint Sealants per Specification Section 07 92 00.
- 27. Furnish and Install all Door Hardware Schedule per Specification Section 08 06 71.
- 28. Furnish and Install all Hollow Metal Doors and Frames per Specification Section 08 11 13.
- 29. Furnish and Install all Flush Wood Doors per Specification Section 08 14 16.
- 30. Furnish and Install all Access Doors and Panels per Specification Section 08 31 00.
- 31. Furnish and Install all Automatic Entrances per Specification Section 08 42 29.
- 32. Furnish and Install all Door Hardware per Specification Section 08 71 00.
- 33. Furnish and Install all Glazing per Specification Section 08 80 00.
- 34. Furnish and Install Common Work Results for Flooring Preparation all per Specification Section 09 05 61.
- 35. Furnish and Install Gypsum Board Assemblies all per Specification Section 09 21 16.
- 36. Furnish and Install Lath all per Specification Section 09 22 36.
- 37. Furnish and Install Cement Plastering all per Specification Section 09 24 00.
- 38. Furnish and Install Tiling all per Specification Section 09 30 00.
- 39. Furnish and Install Suspended Acoustical Ceilings all per Specification Section 09 51 00.
- 40. Furnish and Install Resilient Flooring all per Specification Section 09 65 00.
- 41. Furnish and Install Tile Carpeting all per Specification Section 09 68 12.
- 42. Furnish and Install Interior Painting all per Specification Section 09 91 23.
- 43. Furnish and Install Signage all per Specification Section 10 14 00.
- 44. Furnish and Install Traffic and Parking Signage all per Specification Section 10 14 53.

- 45. Furnish and Install Phenolic Toilet Compartments all per Specification Section 10 21 13.17
- 46. Furnish and Install toilet Accessories all per Specification Section 10 28 00.
- 47. Furnish and Install Fire Protection Specialties all per Specification Section 10 44 00.
- 48. Furnish and Install Window Shades all per Specification Section 12 24 00.
- 49. Furnish and install Plumbing all per specifications Division 22.
- 50. Provide all Fire stopping scope of work for Section 22 (Plumbing) scope of work per plans and specifications; excluding fire stopping items specifically listed in other Specification Sections scopes of work.
- 51. Furnish and install Heating, Ventilating, and Air-Conditioning all per plans and Specifications, Division 23. This contractor will ensure that all thermostats, duct work, and existing HVAC equipment will be protected in place during the course of construction and modified only per plans and specifications.
- 52. Provide all Fire stopping scope of work for Section 23 (HVAC) scope of work per plans and specifications; excluding fire stopping items specifically listed in other Specification Sections scopes of work.
- 53. Provide all Joint Protection scope of work for Section 23 (HVAC) scope of work per plans and specifications; excluding joint sealer items specifically listed in other Specification Sections scopes of work. All costs for repairs due to this bid package's negligence shall be borne by this Bid Package, and completed without impact to the approved construction schedule and without additional cost to the District.
- 54. Furnish and install Electrical per plans and Specifications, Division 26:
- 55. Provide all Fire stopping scope of work for Section 26 (Electrical) scope of work per plans and specifications; excluding fire stopping items specifically listed in other Specification Sections scopes of work.

56. Provide all Joint Protection scope of work for Section 26 (Electrical) scope of work per plans and specifications; excluding joint sealer items specifically listed in other Specification Sections scopes of work. All costs for repairs due to this bid package's negligence shall be borne by this Bid Package, and completed without impact to the approved construction schedule and without additional cost to the District.

- 57. Furnish and install Electrical (Communications) per plans and Specifications, Division 27.
- 58. Provide all Fire stopping scope of work for Section 27 (Electrical) scope of work per plans and specifications; excluding fire stopping items specifically listed in other Specification Sections scopes of work.
- 59. Provide all Joint Protection scope of work for Section 27 (Electrical) scope of work per plans and specifications; excluding joint sealer items specifically listed in other Specification Sections scopes of work. All costs

for repairs due to this bid package's negligence shall be borne by this Bid Package, and completed without impact to the approved construction schedule and without additional cost to the District.

- 60. Furnish and install Electrical (Electronic Safety and Security) per plans and Specifications, Division 28.
- 61. Provide all Fire stopping scope of work for Section 28 (Electrical) scope of work per plans and specifications; excluding fire stopping items specifically listed in other Specification Sections scopes of work.
- 62. Provide all Joint Protection scope of work for Section 28 (Electrical) scope of work per plans and specifications; excluding joint sealer items specifically listed in other Specification Sections scopes of work. All costs for repairs due to this bid package's negligence shall be borne by this Bid Package, and completed without impact to the approved construction schedule and without additional cost to the District.
- 63. Provide all the required Earthwork per plans and Specifications, Division 31:
 - A. 31 23 16.13 Trenching
- 64. Provide all the required Exterior Improvements per plans and Specifications, Division 32:
 - A. 32 01 17 Asphalt Pavement Repair
 - B. 32 13 13 Concrete Paving
 - C. 32 17 23.13 Painted Pavement Markings
 - D. 32 17 26 Tactile Warning Surfacing
- 65. Provide all attic stock and turnover items to District as part of project each specification section completion.
- 66. Contractor agrees to provide a minimum of one competent English speaking, skilled foreman or superintendent for each major trade, who shall be present at all times during execution of the Contractor's work. Failure to provide adequate Superintending shall result in an assessment of Construction Management costs levied to have the Construction Manager coordinate and manage prime contractors / subcontractor's work. In no event shall the Construction Manager or the District be liable for any costs associated with the Contractors lack of supervision. This Contractor agrees to use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods need for proper performance of the work.
- 67. Provide all shop drawings and submittals so as to not cause any delays to any portion of the construction schedule in this bid package or any other bid package included in this project.
- 68. This contractor if responsible for all temporary site construction fencing with windscreen for the entire project, and is required to monitor, maintain, and reconfigure fencing on a daily basis as described in Division 01,

Section 01 50 00, Temporary Facilities or as directed by the Construction Manager/District.

- 69. Temporary Facilities: This Contractor will have sole responsibility to provide all required temporary services of toilets, water, safety, and construction access. These temporary facilities include but are not limited to: self-contained toilet units / sanitary facilities, temporary roads and paved areas, rumble plates, maintaining fire lane access at all times during construction, facilities for dewatering (from any source of water) and drains, project identification and temporary construction signage, trash disposal facilities, and environmental protection, pest control, barricades, traffic control flagman/flagmen with phone/radios (daily at all points of delivery and/or exiting of materials, waste, etc. as required), security, warning signs and lights, temporary enclosures, temporary fire protection and fire extinguishers.
- 70. Provide additional temporary lights not provided by electrical, heating, cooling, ventilation and humidity control as necessary for safety and completion of work.
- 71. Provide temporary project signs as described in the plans and/or specifications.
- 72. This Contractor to provide a fully equipped field office including a conference area/table to accommodate a minimum of 8 persons.
- 73. Provide all temporary access as required for the entire scope of work.

This includes, but is not limited to, trench plates, scaffolding, catwalks, scissor lifts, petti bones, rigging, cranes, gang ways, rumble plates at entrance, etc.

- A. Provide all fall protection scope of work, as necessary, throughout duration of construction.
- B. If this contractor finds dissimilarities or conflict between the Specification and the information found within the plans, plan notes, the schedules within the plans and/or the governing agencies, this contractor will include in this base bid the most stringent and most costly solutions.
- C. Record Drawings This Contractor shall maintain and update all changes in the work on the Construction Manager's record drawing set in the field office. All entries must be reviewed by the Construction Manager. Monthly progress payments will be withheld until this requirement is complied with.
- D. Daily Reports By 10:00 a.m. the following business day, Trade Contractor's shall submit a Daily Report to the Construction Manager for the previous day's work. Daily Reports shall be prepared on forms approved by the District, together with applicable delivery tickets, listing all labor, materials, and equipment involved for that day. The Construction Manager reserves the right to note inconsistencies or inaccuracies in the Daily Reports. In such cases, pertinent notes shall be entered by

each party to explain points which cannot be resolved that day. Reports by Subcontractors or others shall be submitted through General Contractor. Monthly progress payments will be withheld until this requirement is complied with.

- E. This Contractor shall coordinate his work with that of other prime contractors and/or work by the District. All potential space conflicts are to be identified during the bidding and field investigation process. If a field space conflict is encountered, it shall be reworked or rerouted at no additional cost and only a scope change by the Architect will be considered for contract price adjustment.
- F. Provide all white glove clean up scope of work for all interior and exterior buildings for the entire project, including but not necessarily limited to cleaning, mopping, waxing, vacuuming carpet, cleaning all rest rooms, dusting, window cleaning and removal of all residual trash after all other bid packages have completed final clean up. All final white glove clean up must have the districts final approval through the Construction Manager.
- G. Provide all dewatering and control of site rainwater.

H. This bid package shall provide maximum protection to all existing and/or finished construction throughout the course of the work. The District will not accept any claim for repair or replacement of this bid packages material or installed work due to vandalism, malicious mischief, construction traffic, theft, etc. inflicted by unidentifiable parties. Any such replacement or repairs shall be at this bid packages cost.

- I. Provide scheduling for all base, asphalt and concrete deliveries to ensure all site work concrete flatwork pours, cast-in-place pours are continuous and without authorized cold joints and/or defects.
- J. Request for Information This Prime Contractor shall make requests for information in writing to the construction manager as they relate to issues regarding interpretation and clarification of the plans and specifications. Construction Manager will forward to Architect/District for response. All requests shall be made in a timely manner allowing for a five (5) calendar day response time so as not to delay the work or overall schedule.
- K. Schedule shall be in accordance with District approved construction schedule and all subsequent revisions.
- L. Continuous housekeeping and daily cleanup is mandatory. Contractor shall put debris in own debris boxes and/or remove debris from site at contractor's own expense prior to the end of the work day or as directed by the Construction Manager. All debris boxes and containers shall be kept free of graffiti at all times. If Contractor fails to perform daily clean up, the Construction Manager shall order that clean up done at the Contractor's expense. In the event of trade trash disposal disputes, costs shall be divided up as a percentage of the project value and back

charged to the appropriate Prime Contractor. The Construction Manager will direct all cleaning in the event of a dispute.

- M. Weekly coordination meetings will occur throughout construction. Attendance by job superintendent and major subcontractors is required.
- N. Contractor will ensure to provide pre-construction meetings during the submittal process and schedule with all sub-contractors
- O. Provide punch list repairs/corrections for this scope of work.
- P. Punch list, final clean up, and closeout for this bid package per contract construction schedule. Parties agree that delays to punch list, final clean up, and closeout would constitute a delay in project completion and, therefore, entitles the District to withhold and retain potential liquidated damages per the Contract Documents from Contractor's progress payments.

i. **Existing Site Conditions:** <u>The Contractor shall make a thorough</u> <u>examination of the site to determine all existing conditions affecting the</u> <u>work prior to beginning any work under this bid package</u>. All conflicts within the contract documents and existing conditions are to be brought to the attention of the Construction Manager during the bidding process by way of the pre-bid clarification form issued at the job walk. Any claims for changes in scope or claims for additional compensation will not be considered for this contractor's failure to notify the construction manager of such conflicts/discrepancies.</u>

ii. Location of Site: The site is located at 1111 E. Artesia Blvd., Compton, California 90221

b. CONTRACT METHOD:

i. Construct the Work under a single Lump Sum Contract with a Schedule of Values.

c. CONTRACTOR USE OF PREMISES:

- i. Contractor shall have use of the premises for the execution of the work.
- ii. Coordinate use of the premises under the direction of the Construction Manager.
- iii. Assume full responsibility for the protection and safekeeping of products under this Contract that are stored on the site.
- iv. Move any stored products under Contractor's control that interferes with the operations of the Owner and/or any other bid package.
- v. Obtain and pay for the use of additional storage or work areas needed for operations.
- vi. Contractor shall assume all responsibility for parking his own and his subcontractor's vehicles at the direction of the Construction Manager. Contractor shall direct all material deliveries to the construction gate.

- vii. All contractors must comply with the District's policies regarding worker conduct and security.
- viii. All District property is tobacco free, drug free, alcohol free, weapons free and graffiti free. Contractor shall enforce these rules to his crew, subcontractors and suppliers.

ix. If any person working on the contract should engage in theft of money, property, supplies, equipment, food or any other item, whether from the District's personnel, students, facilities, employees, visitors, or from another of the Contractor's personnel or subcontractors, that person will be immediately and permanently dismissed from the site.

x. All contractors shall be required to provide **company logo attire** from their firm indicating employee identification while on District property. Contractor shall provide Department of Justice background checks for all full-time Superintendents and Foremen for the project and coordinate / provide all documentation necessary to the District through the Construction Manager. The Superintendent or Foreman shall be responsible for signing in all personnel under his/her authority every day and providing the sign-in sheet to the Construction Manager at the close of every business day.

This cost shall be included in the Contractor's bid.

END OF SECTION

COMPTON COMMUNITY COLLEGE DISTRICT RESOLUTION NO. 06-27-2022J

AUTHORIZATION TO CONTRACT WITH JOHNSON CONTROLS FIRE PROTECTION LP FOR FIRE ALARM PRODUCTS AND SERVICES

DESIGNATION OF JOHNSON CONTROLS FIRE PROTECTION LP EQUIPMENT AS DISTRICT STANDARD FIRE ALARM PRODUCTS

WHEREAS, all existing buildings on the Compton College campus are equipped with fire alarm equipment and systems ("Fire Alarms").

WHEREAS, continuous operation of the Fire Alarms is necessary, critical and essential for fire/life-safety protection to prevent injury to persons or damage to property.

WHEREAS, continuous operation of the Fire Alarms requires periodic maintenance, repairs, modifications, replacements, upgrades and other similar actions (collectively "Fire Alarm Services").

WHEREAS, the timely completion of Fire Alarm Services is necessary for maintaining public safety in Compton College buildings.

WHEREAS, in order to provide for centralized management and monitoring, all Fire Alarms in existing buildings and other improvements on the Compton College campus are manufactured by Johnson Controls Fire Protection LP ("Johnson Controls Fire Protection LP").

WHEREAS, the materials, products and equipment forming a part of the Fire Alarms are proprietary products of Johnson Controls Fire Protection LP; in order to ensure that Fire Alarm Services are completed by technicians with specific knowledge and skills, Fire Alarm Services can be completed only by the Johnson Controls Fire Protection LP.

WHEREAS, applicable law generally requires the District to engage in a competitive process to procure services such as the Fire Alarm Services.

WHEREAS, California courts recognize a legal exception to the competitive procurement process when a public agency determines that competitive selection would be futile, unavailing, undesirable, impractical, impossible, or would cause additional delay or costs. (*Meakin v. Steveland* (1977) 68 Cal.App.3d 490; *Los Angeles Dredging v. Long Beach* (1930) 210 Cal. 348);

WHEREAS, the District would realize no benefit from a competitive selection process for to procure Fire Alarm Services insofar as Johnson Controls Fire Protection LP has the sole authority to Fire Alarm Services.

WHEREAS, Public Contract Code \$3400(c) authorizes the District to designate a particular product, material or service by specific brand or trade name in specifications for the District's

public works projects if the designation is for purposes of matching other products in use in other District facilities.

WHEREAS, designating Johnson Controls Fire Protection LP products as the District standard Fire Alarm products in facilities and other improvements to be constructed on the Compton College campus will match the existing Fire Alarms currently in use in other facilities and improvements on the Compton College campus and is essential for fire detection and prevention.

NOW, THEREFORE, the Governing Board of the District hereby finds, determines, resolve as follows:

RESOLVED, the foregoing recitals and determinations are true, correct and incorporated herein by this reference.

FURTHER RESOLVED, that a competitive selection process for Fire Alarm Services would be undesirable, impractical and may impair public safety.

FURTHER RESOLVED, that it would cause an incongruity and not produce any advantage for the District to competitively procure Fire Alarm Services.

FURTHER RESOLVED, that pursuant to Education Code §81655, the Board delegates to the District's Vice-President, Administrative Services the authority to contract with Johnson Controls Fire Protection LP to provide the Fire Alarm Services as and when deemed necessary by District staff.

FURTHER RESOLVED, in accordance with the then current District Board Policies/Administrative Regulations, the District's Vice-President, Administrative Services shall present to the Board, for approval or ratification, any contract with Johnson Controls Fire Protection LP entered into pursuant to these Resolutions.

FURTHER RESOLVED, in accordance with Education Code §81655, any contract entered by the District's Vice-President, Administrative Services with Johnson Controls Fire Protection LP shall not be binding or enforceable against the District until the Board has approved or ratified such contract.

FURTHER RESOLVED, Johnson Controls Fire Protection LP Fire Alarm products, materials, equipment and services are designated as the District standard Fire Alarm products pursuant to Public Contract Code §3400(c).

FURTHER RESOLVED, that these Resolutions shall be effective as of the date of its adoption.

APPROVED AND ADOPTED by the Board of Trustees of the Compton Community College District of Los Angeles County, State of California, this 27th day of June 2022.

Domia Dol Sonia Lopez (Jun 28, 2022 20:17 PDT)

Sonia Lopez, President Compton Community College District Board of Trustees

I, Keith Curry, Secretary of the Board of Trustees of the Compton Community College District, do hereby certify that the foregoing Resolution was adopted by the Board of Trustees of said District at a meeting of said Board held on the 27th day of June 2022, and that it was so adopted by the following vote:

AYES: 5	
NOES:0	
ABSTAIN:0	
ABSENT:0	
Jun 29, 2022	hanco
Date:	Keith Curry, Ed

Keith Curry, Ed.D. Secretary to the Board of Trustees Compton Community College District

S iter I.

COMPTON COMMUNITY COLLEGE DISTRICT RESOLUTION NO. 06-27-2022F

AUTHORIZATION TO CONTRACT WITH STANLEY CONVERGENT SECURITY SOLUTIONS, INC FOR BUILDING SECURITY PRODUCTS AND SERVICES

DESIGNATION OF STANLEY CONVERGENT SECURITY SOLUTIONS, INC EQUIPMENT AS DISTRICT STANDARD BUILDING SECURITY PRODUCTS

WHEREAS, existing buildings on the Compton College campus are equipped with building security equipment and systems including building security alarms, surveillance cameras, motion detection devices and electronic door access ("Building Security Systems").

WHEREAS, continuous operation of the Building Security Systems is necessary, critical and essential for safety of persons and property.

WHEREAS, continuous operation of the Building Security Systems requires periodic maintenance, repairs, modifications, replacements, upgrades and other similar actions (collectively "Building Security Systems Services").

WHEREAS, the timely completion of Building Security Systems Services is necessary for maintaining public safety in Compton College buildings.

WHEREAS, in order to provide for centralized management and monitoring, all Building Security Systems in existing buildings and other improvements on the Compton College campus are manufactured by Stanley Convergent Security Solutions, Inc.

WHEREAS, the materials, products and equipment forming a part of the Building Security Systems are proprietary products of Stanley Convergent Security Solutions, Inc; in order to ensure that Building Security Systems Services are completed by technicians with specific knowledge and skills, Building Security Systems Services can be completed only by the Stanley Convergent Security Solutions, Inc.

WHEREAS, applicable law generally requires the District to engage in a competitive process to procure services such as the Building Security Systems Services.

WHEREAS, California courts recognize a legal exception to the competitive procurement process when a public agency determines that competitive selection would be futile, unavailing, undesirable, impractical, impossible, or would cause additional delay or costs. (*Meakin v. Steveland* (1977) 68 Cal.App.3d 490; *Los Angeles Dredging v. Long Beach* (1930) 210 Cal. 348);

WHEREAS, the District would realize no benefit from a competitive selection process to procure Building Security Systems Services insofar as Stanley Convergent Security Solutions, Inc has the sole authority to perform Building Security Systems Services.

WHEREAS, Public Contract Code §3400(c) authorizes the District to designate a particular product, material or service by specific brand or trade name in specifications for the District's public works projects if the designation is for purposes of matching other products in use in other District facilities.

WHEREAS, designating Stanley Convergent Security Solutions, Inc products as the District standard Building Security Systems products in facilities and other improvements to be constructed on the Compton College campus will match the existing Building Security Systems currently in use in other facilities and improvements on the Compton College campus and is essential for safety and security of persons and property.

NOW, THEREFORE, the Governing Board of the District hereby finds, determines, resolve as follows:

RESOLVED, the foregoing recitals and determinations are true, correct and incorporated herein by this reference.

FURTHER RESOLVED, that a competitive selection process for Building Security Systems Services would be undesirable, impractical and may impair public safety.

FURTHER RESOLVED, that it would cause an incongruity and not produce any advantage for the District to competitively procure Building Security Systems Services.

FURTHER RESOLVED, that pursuant to Education Code §81655, the Board delegates to the District's Vice-President, Administrative Services the authority to contract with Stanley Convergent Security Solutions, Inc to provide the Building Security Systems Services as and when deemed necessary by District staff.

FURTHER RESOLVED, in accordance with the then current District Board Policies/Administrative Regulations, the District's Vice-President, Administrative Services shall present to the Board, for approval or ratification, any contract with Stanley Convergent Security Solutions, Inc entered into pursuant to these Resolutions.

FURTHER RESOLVED, in accordance with Education Code §81655, any contract entered by the District's Vice-President, Administrative Services with Stanley Convergent Security Solutions, Inc shall not be binding or enforceable against the District until the Board has approved or ratified such contract.

FURTHER RESOLVED, Stanley Convergent Security Solutions, Inc Building Security Systems products, materials, equipment and services are designated as the District standard Building Security Systems products pursuant to Public Contract Code §3400(c).

FURTHER RESOLVED, that these Resolutions shall be effective as of the date of its adoption.

APPROVED AND ADOPTED by the Board of Trustees of the Compton Community College District of Los Angeles County, State of California, this 27th day of June 2022.

Sonia Lopez, President Compton Community College District Board of Trustees

I, Keith Curry, Secretary of the Board of Trustees of the Compton Community College District, do hereby certify that the foregoing Resolution was adopted by the Board of Trustees of said District at a meeting of said Board held on the 27th day of June 2022, and that it was so adopted by the following vote:

AYES:		
NOES:	 	
ABSTAIN: _	 	
ABSENT:	 	
Date:	 	

Keith Curry, Ed.D. Secretary to the Board of Trustees Compton Community College District

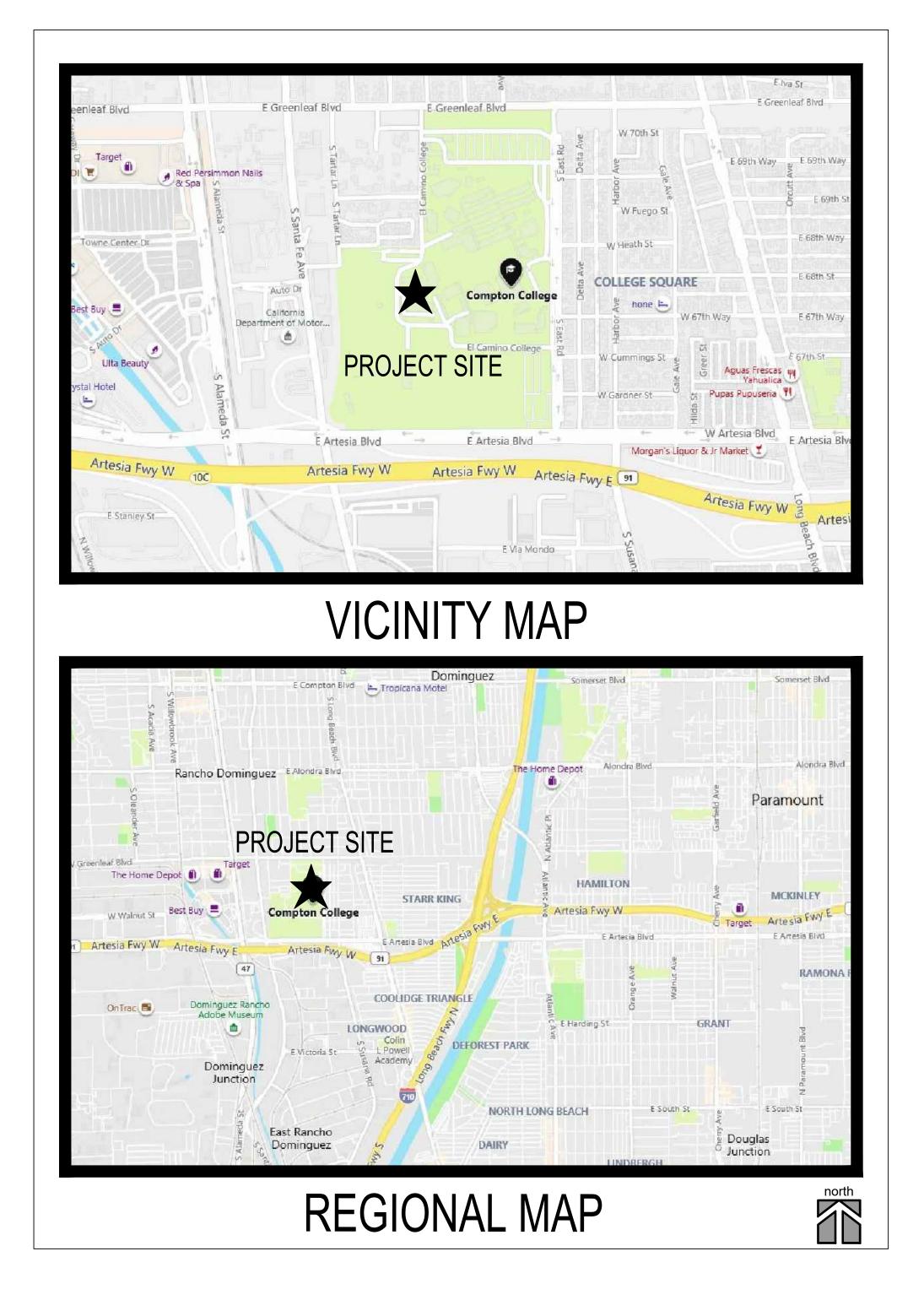
COMPTON COLLEGE ADMINISTRATION **BUILDING RENOVATION** COMPTON COMMUNITY COLLEGE DISTRICT 1111 E. ARTESIA BLVD., COMPTON, CA

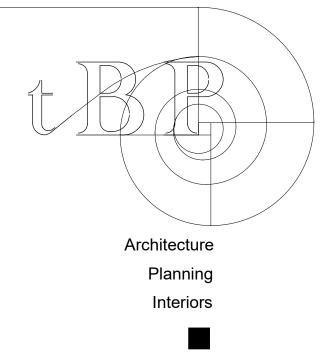
BID SET INCLUDES ADDENDUM 1 AND 2 08/30/23

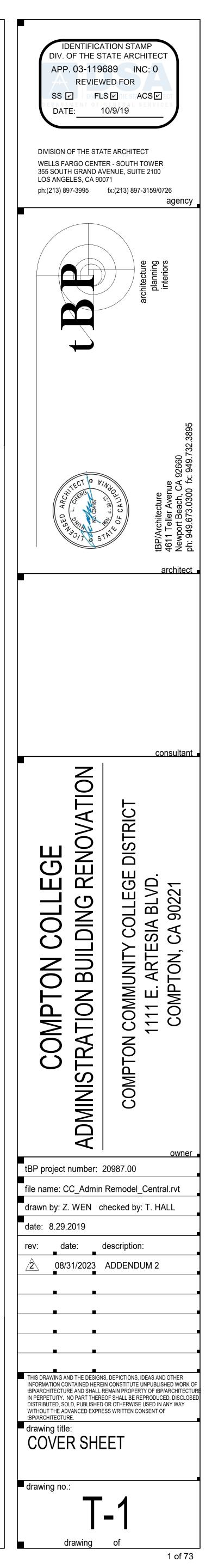
tBP / Architecture

4611 Teller Avenue - Newport Beach - California - 92660 http://www.tbparchitecture.com ph: 949.673.0300 - fx: 949.732.3895









ABBREVIATIONS

ELEC

ELEV.

EMER

ENCL

FNG

E.W.C.

FWH

EXP.

FIN. FLR.

FLASH.

FLUOR.

FLR.

F.O.

F.O.C.

F.O.F.

F.O.S.

FDD

FRA

F.R.P.

FURR

FXTR

G.F.R.C.

GLU.LAM

GND.

G.R.G.

סעב

H.B.

HCN

HDBD

HDR

IDWD

ITWR

HTWS

HVAC

EXIST., (E

& ≺_	AND ANGLE
@ £	AT CENTERLINE
Þ Ó	DIAMETER OR ROUND
¥	NUMBER
٨B	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
	ACOUSTICAL TILE ACOUSTICAL
40000 4D	AREA DRAIN
ADH	ADHESIVE
ADJ AESS	
4200	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
١FF	ABOVE FINISH FLOOR
	ACCORDIAN FOLDING PARTITION
AGGR ALT	AGGREGATE ALTERNATE
ALUM	ALUMINUM
	AMPERE
	ANODIZED APPROXIMATELY
	ARCHITECT
ASB	ASBESTOS
ASSY	ASSEMBLY
BAT	BATTERY
3BD 3D	BULLETIN BOARD BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLO BLR	BLOWER BOILER
BLK BLW	BELOW
BM	BEAM
30	BOTTOM OF
BRKR BUR	BREAKER BUILT UP ROOF
BTU	BRITISH THERMAL UNIT
CAB	CABINET
CARP CAT	CARPET CATALOG
CB	CATCH BASIN
CEM	CEMENT
	CURB FACE CUBIC FEET PER MINUTE
CFM CHBD	CHALKBOARD
CHEM	CHEMICAL
CHWR	CHILLED WATER RETURN
CHWS Cl	CHILLED WATER SUPPLY CAST IRON
CIR	CIRCLE
CJ	CONTROL JOINT
CL CLG	CENTERLINE CEILING
CLO	CLOSET
CLRM	CLASSROOM
CMT	CERAMIC MOSAIC TILE
CMU CND	CONCRETE MASONRY UNIT CONDUIT
0	CLEANOUT
COL	COLUMN
COMM COMP	COMMUNICATION COMPOSITION
CONC	CONCRETE
CONF	CONFERENCE
CONN CONT	CONNECTION CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR COV	CORRIDOR COVER
CP	CONTROL PANEL
CR	CONDENSATE RETURN
CSWK	CASEWORK
CT CTV	CERAMIC TILE CABLE TELEVISION
CW	COLD WATER
OBL	DOUBLE
DEMO	DEMOLITION
DEPT DET	DEPARTMENT DETAIL
DE I DF	DETAIL DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP. DIST.	DISPENSER DISTANCE
DIV.	DIVISION
D.L.	DEAD LOAD
DN. DS.	DOWN DOWN SPOUT
DS. DWG.	DRAWING

	EACH
	EASEMENT LINE EXPANSION JOINT
	ELECTRICAL ELEVATION
	EMERGENCY
	ENCLOSURE ENGINEER
	ENERGY
	ENTRANCE EPOXY ENAMEL
	EPOXY PAINT GLOSS
	EPOXY PAINT SEMI-GLOSS EQUAL
	EQUIPMENT
	ESTIMATE ELECTRIC WATER COOLER
	ELECTRIC WATER HEATER
)	EXHAUST EXISTING
/	EXPANSION
	EXTERIOR
	FACTORY FINISH FIRE ALARM
	FOOTCANDLE
	FLOOR DRAIN FIRE DEPARTMENT CONNECTION
	FOUNDATION
	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET
	FOLDING FABRIC PARTITION
	FINISH GRADE FIRE HYDRANT
	FINISH
	FINISH FLOOR
	FLASHING FLOOR
	FLUORESCENT
	FACE OF FACE OF CONCRETE
	FACE OF FINISH
	FACE OF STUD FOLDING PANEL PARTITION
	FOLDING PANEL WOOD DOOR
	FIRE RATED ASSEMBLY
	FIBERGLASS REINFORCED PANEL FLOOR SINK
	FOOT OR FEET
	FOOTING FURRING
	FIXTURE
	GAGE
	GALVANIZED GRAB BAR
	GLASS FIBER REINFORCED CEMENT
	GLASS GLUE LAMINATED
	GROUND
	GALLONS PER MINUTE GRADE
	GLASSFIBREFORCED GYPSUM
	GYPSUM
	HOSE BIB
	HOLLOW CORE NATURAL FINISH HOLLOW CORE PAINT FINISH
	HARDBOARD
	HEADER HARDWARE
	HARDWOOD
	HEIGHT HOLLOW METAL
	HORIZONTAL
	HORSEPOWER HOUR
	HUMIDISTAT
	HEATING HOT WATER RETURN
	HOT WATER SUPPLY
	HEATING, VENTILATING, AIR CONDITIONING
	HEAVY
	HOT WATER
	INSIDE DIAMETER
	INSULATION
	IRRIGATION WATER
	JANITOR
	JUNCTION JOINT
	KIP (1000 LB)
	KITCHEN
	KNOCKOUT KILOVOLT AMPERE

REFERENCE SYMBOLS

4

4 103 ² A3-2

4 NUM	CTION REFERENCE BER ABOVE - SECTION NUMBER BER BELOW - SHEET NUMBER	13	ACCESSORY IDENTIFICATION DENOTES TOILET ROOM ACCESSORIES
4 NUM	EVATION REFERENCE BER ABOVE - ELEVATION NUMBER BER BELOW - SHEET NUMBER	HEIGHT 34 102 48 L	CASEWORK IDENTIFICATIO
3 NUM	ETAIL REFERENCE BER ABOVE - DETAIL NUMBER BER BELOW - SHEET NUMBER	001	DOOR IDENTIFICATION REFER TO DOOR SCHEDULE
$\begin{array}{c c} 1 \\ \hline 103 \\ \hline 2 \\ \hline \end{array}$	OOM IDENTIFICATION SPACE NUMBER INTERIOR ELEVATION NUMBER SHEET NUMBER OF INTERIOR ELEVATION	10	WINDOW IDENTIFICATION REFER TO WINDOW DETAILS
106 2 <	TERIOR ELEVATION IDENTIFICATION WALL VIEWED SPACE NUMBER	LP-1	COLOR REFERENCE REFER TO COLOR SCHEDULE SHEET 9.00

LABORATORY LAVATORY	S S.B.	SEALER SPLASH BLOCK
POUND	З.Б. S.C.	SOLID CORE
	SCN	SOLID CORE
LIVE LOAD LIGHT	S.C. SCHED.	SOLID CORE SCHEDULE
LIGHTING	S.C.	SOLID CORE
LEVEL	S.C.	SOLID CORE
LOUVER	S.D. SECT.	STORM DRAIN SECTION
METER	SF	STAIN FINISH
MAINTENANCE MANUAL	SFL	
MASONRY	SFV SHT.	SHEET
MATERIAL	SIM.	SIMILAR
MAXIMUM MEDICINE CABINET	SPEC.	SPECIFICATIONS
MOTOR CONTROL CENTER	SPLY SQ.	SUPPLY SQUARE
MECHANICAL	SR	STEAM RETURN
MEDIUM MEZZANINE	SS	STEAM SUPPLY
MANUFACTURER	S.SK. SST.	SERVICE SINK STAINLESS STEEL
MANHOLE	ST	STREET
MINIMUM MIRROR	STAG	STAGGERED
MISCELLANEOUS	STC STD.	STANDARD
MARKER	STL.	STEEL
METAL MOUNTED	STM	STEAM
MULLION	STOR STRUCT.	STORAGE STRUCTURAL
MOVABLE	SURF	SURFACE
NORTH	SUSP.	SUSPENDED
NATURAL	SWBD	SWITCHBOARD
NEGATIVE	SWGR SWR	SWITCHGEAR SEWER
NOT IN CONTRACT NUMBER	SYM.	SYMBOL
NOMINAL	SYS	SYSTEM
NOT TO SCALE	Т.	THERMOSTAT
OVERALL	T. & B.	TOP AND BOTTOM
OBSCURE	T. & G. T.C.	TONGUE AND GRO
ON CENTER OUTSIDE DIAMETER	TCN	TOP OF CONCRET
OVERFLOW DRAIN	TG	TOP OF GRATE
OWNER FURNISHED-CONTRACTOR	TW	TOP OF WALL
INSTALLED	TD	TRENCH DRAIN
OWNER FURNISHED-OWNER	TECH TEL.	TECHNICAL TELEPHONE
INSTALLED	IEL.	TELEPHONE
OPENING OPPOSITE	TEMP.	TEMPERATURE
OVERHEAD	THK	THICK
	THRES. THRU	THRESHOLD THROUGH
PARTITION PULL BOX	TKBD	TACKBOARD
PARTICLEBOARD	T.O.	TOP OF
PORTLAND CEMENT	T.O.C.	TOP OF CONCRET
	T.O.S. TOT	TOP OF STEEL TOTAL
PERFORATED PERPENDICULAR	TR.	TREAD
PAINT EGGSHELL	TRNSF.	TRANSFORMER
PAINT FLAT	TYP.	TYPICAL
PAINT GLOSS PHASE	U	
POST INDICATOR VALVE	UGND	UNDERGROUND
PROPERTY LINE	UNFIN. U.N.O.	UNFINISHED
PLASTER PLATFORM	U.O.S.	
PLUMBING	UPG	
POUNDS PER LINEAR FOOT	UPSG UR.	URINAL
PLYWOOD	UTIL	UTILITY
PANEL POSITIVE	V	VOLT
PORTABLE PARTITION	VAC	VACUUM
PAIR	VAV	VARIABLE AIR VOL
PREFABRICATED PREFINISHED	V.C.T. V.I.F.	VERIFY IN FIELD
PRELIMINARY	V.I.F. VERT.	
PROJECT	VEST.	VESTIBULE
POUNDS PER SQUARE FOOT	W	WATT
PAINT SEMI-GLOSS POUNDS PER SQUARE INCH	W/	WITH
POLYVINYL CHLORIDE	W.C.	WATER CLOSET
QUARRY TILE	WD. WDW.	WOOD WINDOW
QUANTITY	WDW.	WAREHOUSE
	WL	WIND LOAD
THERMAL RESISTANCE RADIUS	WLD	WELDED
ROOF DRAIN	WP WPG	WORKING POINT WATERPROOFING
REDWOOD	WR	WATER RESISTAN
REFERENCE	WSCT.	WAINSCOT
REFRIGERATOR REGISTER	WT W W E	WEIGHT
REINFORCING	W.W.F.	WELDED WIRE FAI
REQUIRED	XFMR	TRANSFORMER
RESILIENT		
RETURN REVERSE		
ROOFING		
ROOM		
ROUGH OPENING		

ASH BLOCK D CORE D CORE D CORE DULE O CORE D CORE RM DRAIN **V FINISH**

LAB.

LAV

LD

LT(

LVL

LVR

MAINT

MAN

MAT

MAX

MCC

MECH.

MED

MEZ

MFF

MIF

MISC

MK

MTI

MTD

MUI

NAT

NEG

N.I.C

NO

NOM

N.T.S.

O.A

OBS.

0.0

0.D.

0.F

OFF

OFOI

OPNG

OPP.

OVHD

PLAS

PI A

PLBG

PLYWD

PREFAB

PREFIN

PRELIN

PRO.

QTY

RD

RDWD.

RFFF

RFIN

REQU

RESI

ACCESSORY IDENTIFICATION

CASEWORK IDENTIFICATION

PI F

OFCI

MVBL

M SUPPLY ICE SINK **ILESS STEEL** GERED

DARD CTURAL ENDED

CHGEAR RMOSTAT AND BOTTOM

GUE AND GROOVE OF CURB OF CONCRETE OF GRATE OF WALL

INICAL PHONE PERATURE SHOLD DUGH

OF CONCRETE OF STEEL

ISFORMER ERGROUND

IABLE AIR VOLUME

IBULE

KING POINT RPROOFING ER RESISTANT SCOT

DED WIRE FABRIC SFORMER

WALL

MASONRY WALL

WOOD STUD PARTITION WALL

WHEELCHAIR IDENTIFICATION

30" x 48" CLR. FLOOR SPACE 34" MAX. A.F.F. COUNTERTOP 30"W X 27"H X 19"D CLR. KNEE SPACE MIN.

 $\underline{\qquad}$ PROJECT DESCRIPTION

INTERIOR RENOVATION OF APPROXIMATELY 5,026 S.F ON 1ST FLOOR WITH LESS THAN 10% EXISTING SHEAR WALL LENGTH BEING AFFECTED. DEMOLITION AND RENOVATION OF RESTROOMS, OFFICE PARTITIONS, CEILINGS, FINISHES, LIGHT FIXTURES, POWER, DATA, FIRE ALARM, AND MECHANICAL DUCTWORK AND REGISTERS.

RE-CONFIGURATION OF ACCESSIBLE PARKING STALLS RE-WORK (E) ACCESSIBLE PATH OF TRAVEL

GENERAL NOTES

ALL WORK TO CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1 TITLE 24, CCR.

A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 CCR). INSPECTOR SHALL HAVE CLASS (3) CERTIFICATION, MINIMUM.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

GRADING PLANS, DRAINING IMPROVEMENTS, ROAD AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. THE PROVISIONS OF CFC AND CBC CH. 33 SHALL BE ENFORCED ON THIS PROJECT.

APPLICABLE CODES

APPLIC	CABLE CODES AS OF JANUARY 1, 2017:
2016	BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016	CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
2016	CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
2016	CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
2016	CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
2016	CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.
2016	CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
2016	CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
2016	CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
2016	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2016	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
	TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

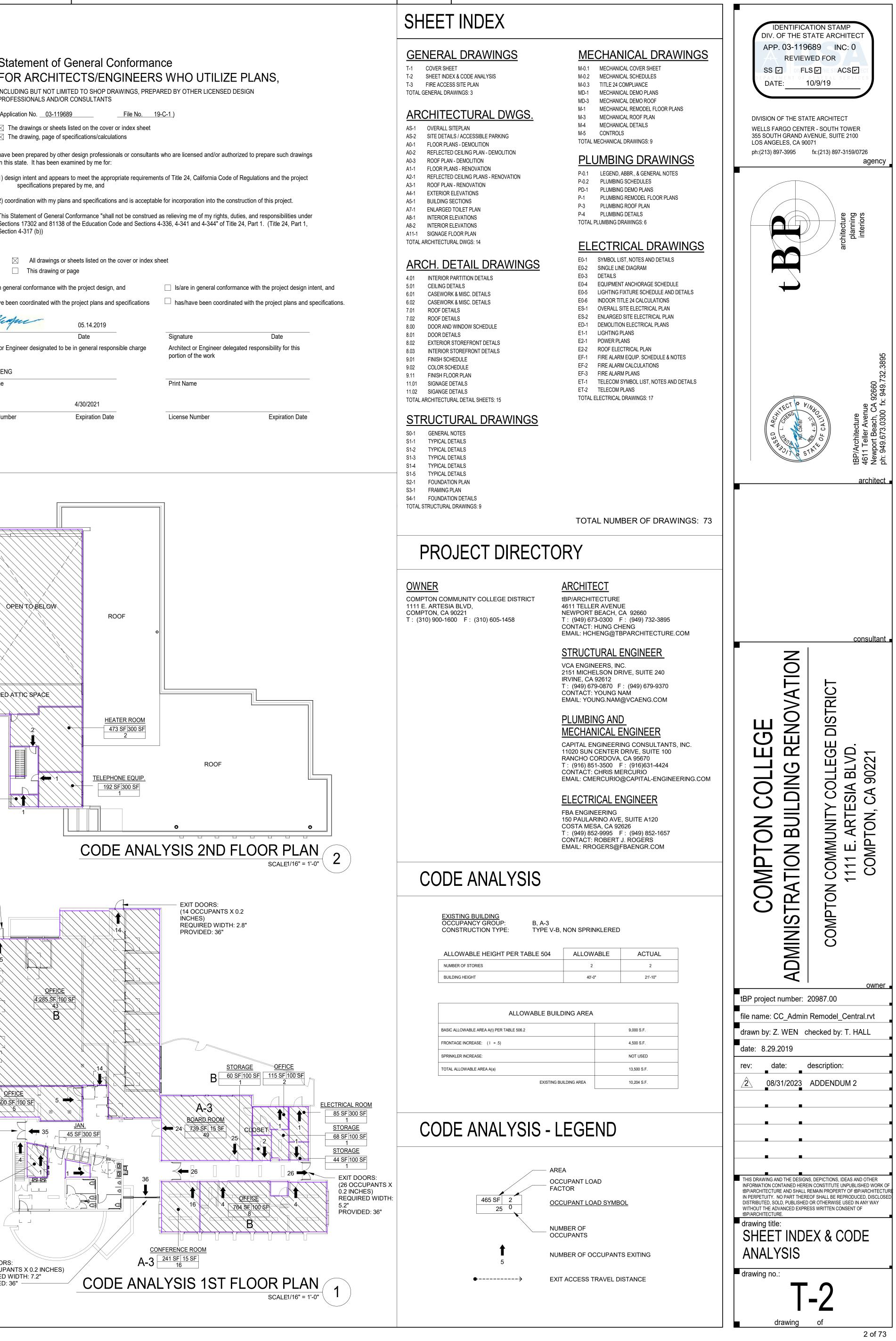
PARTIAL LIST OF APPLICABLE STANDARDS

AMENDED)

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

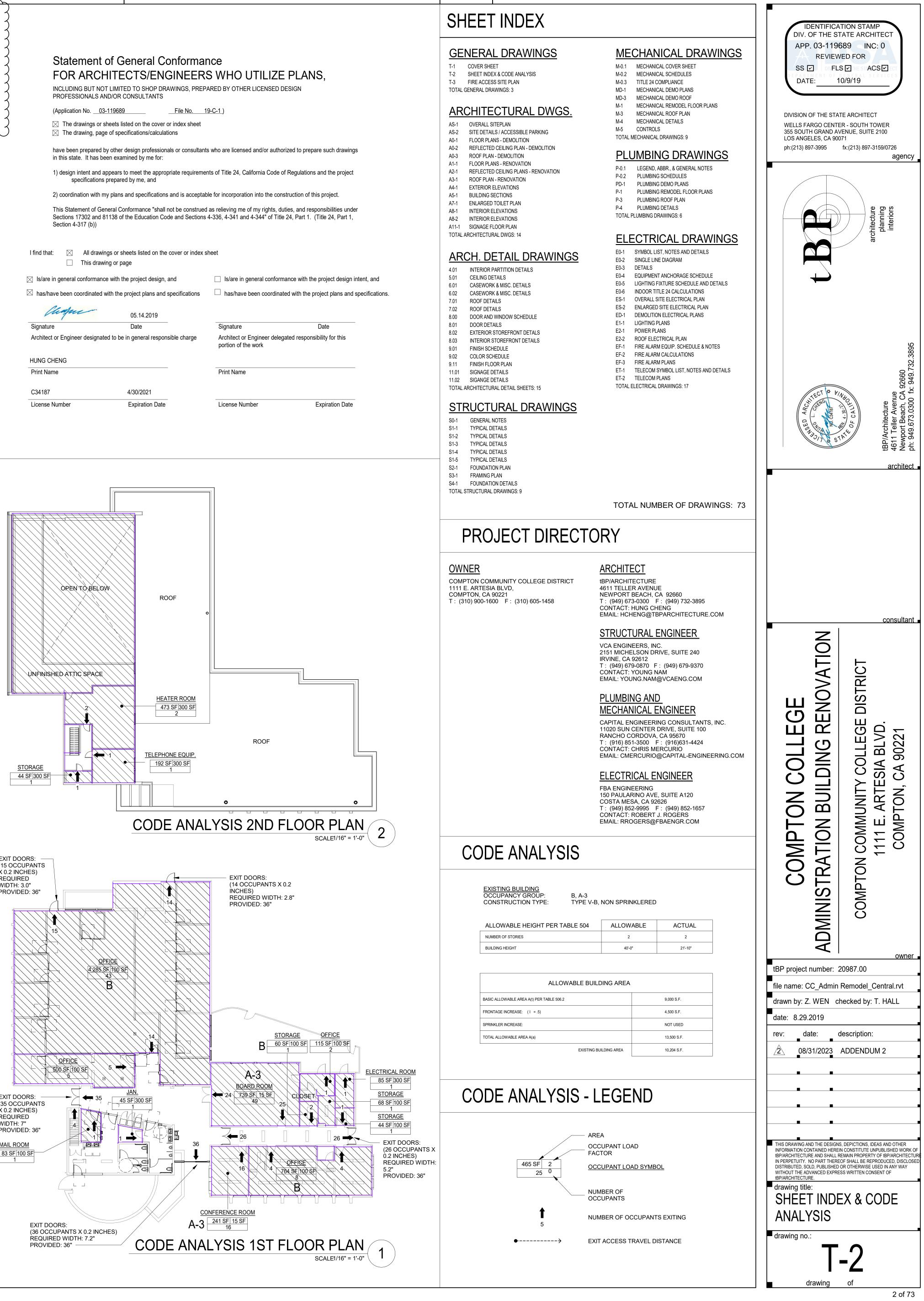
NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS 2016 EDITION	
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA	2016 EDITION
	AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL	
	DEVICES")	
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA	2015 EDITION

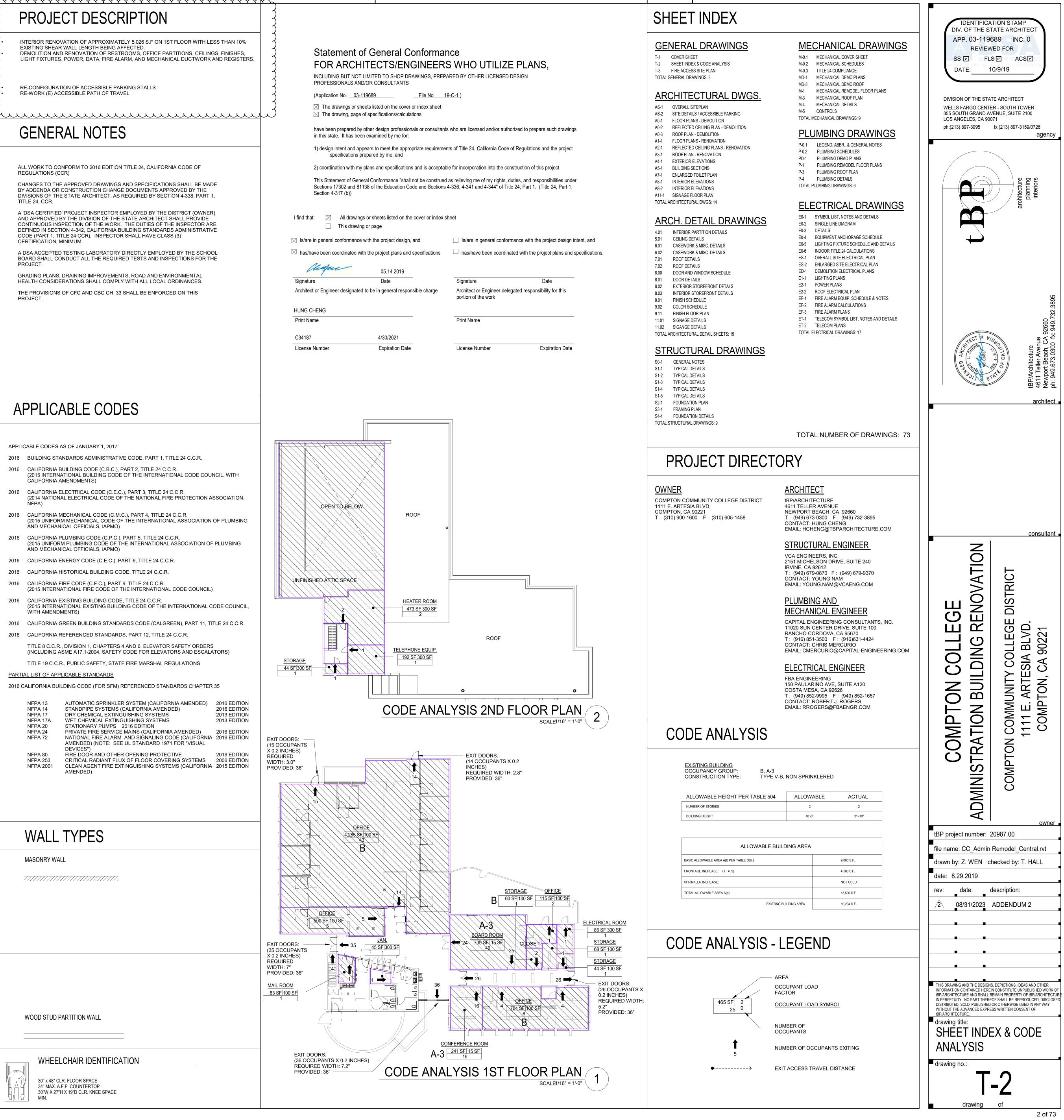
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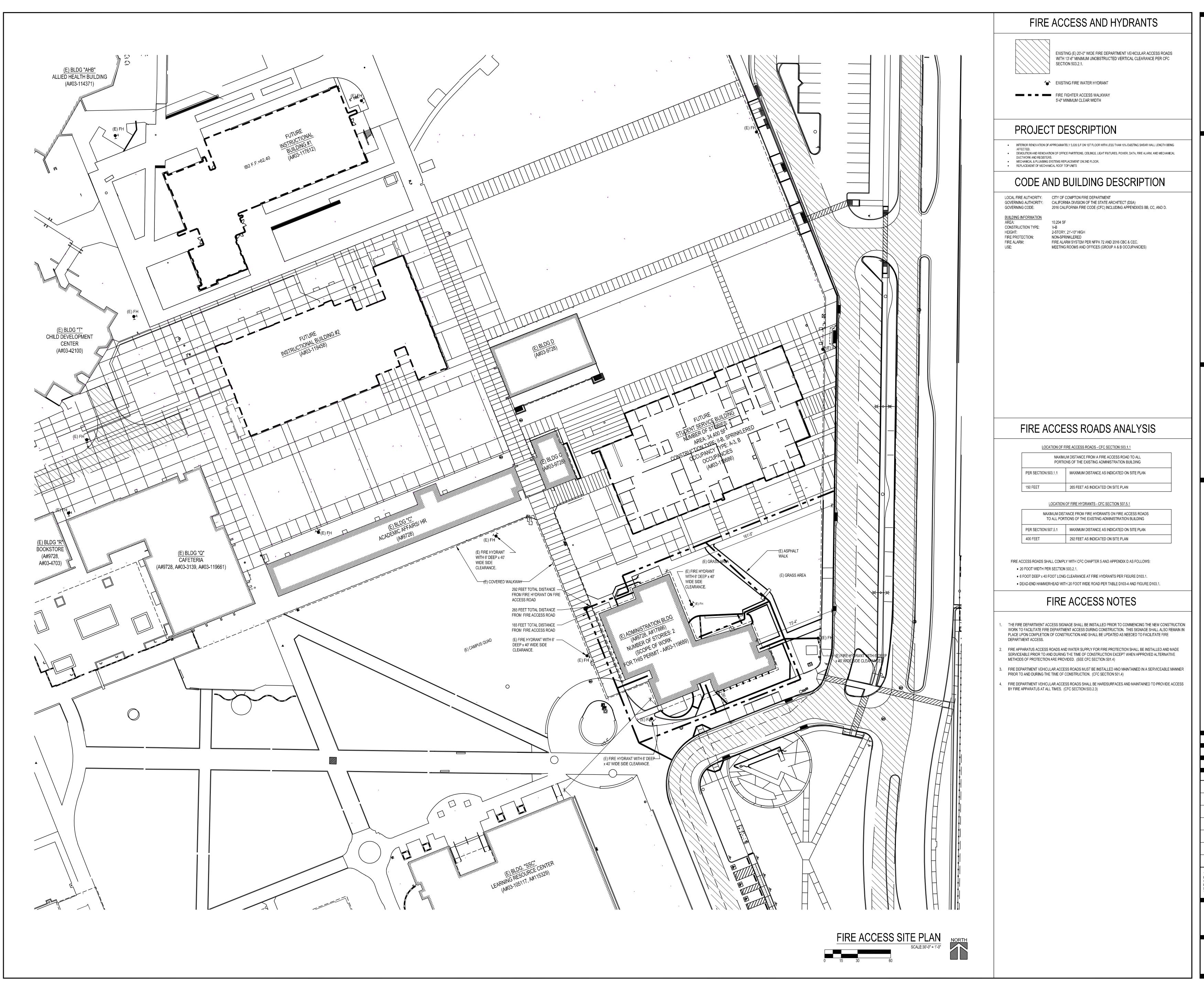


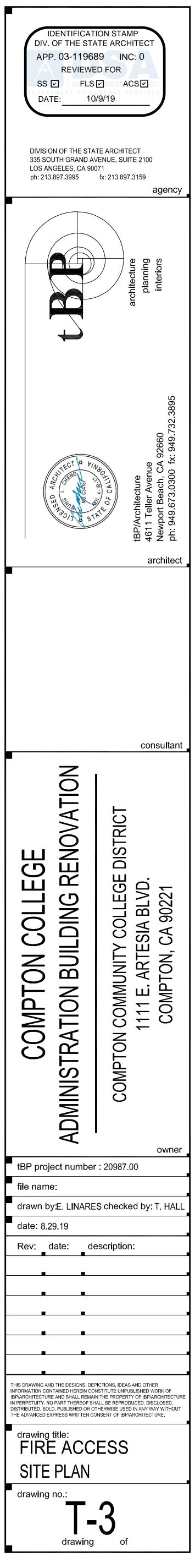
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Signatur	re		Da	te	

4/30/2021
Expiration Date

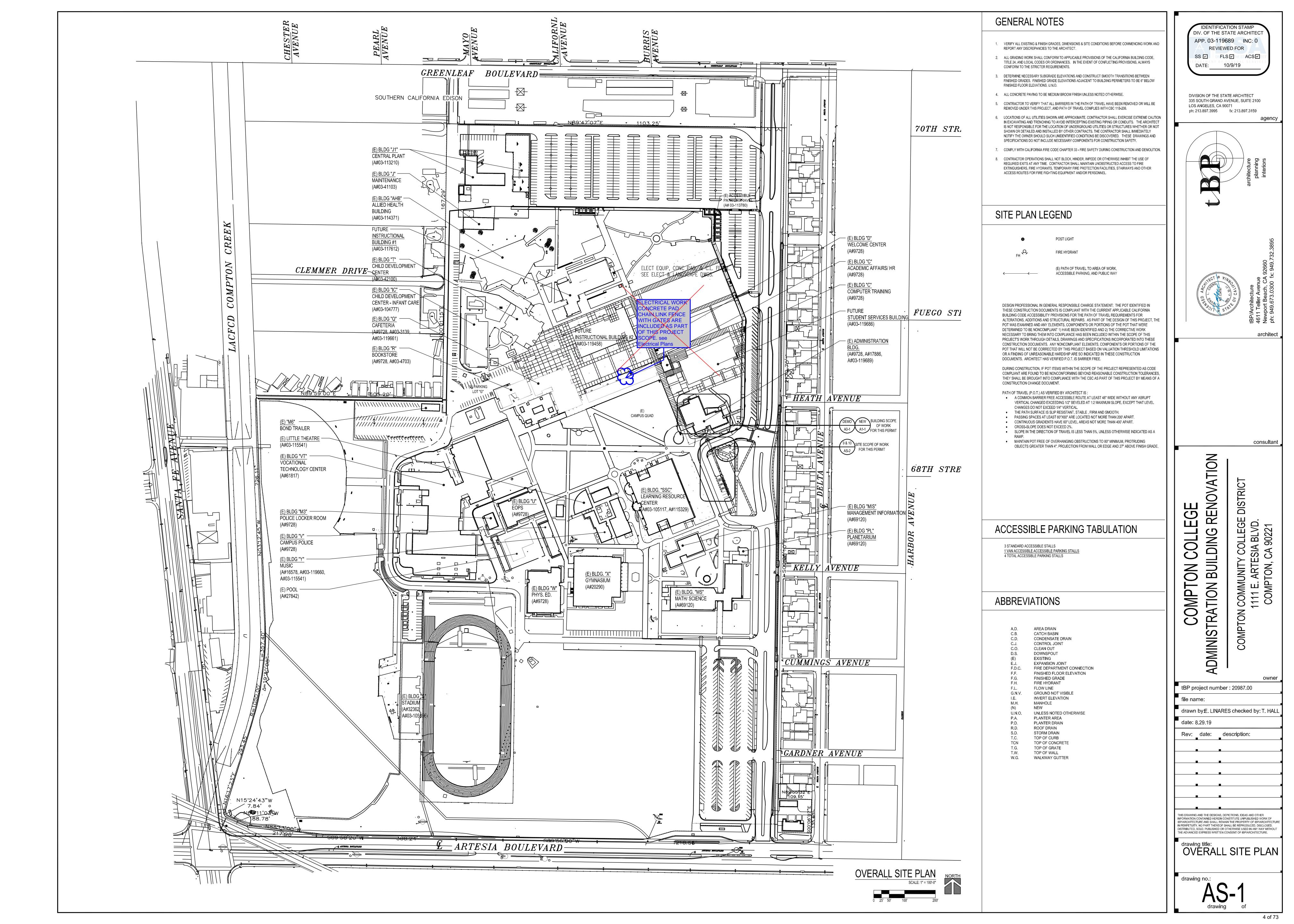


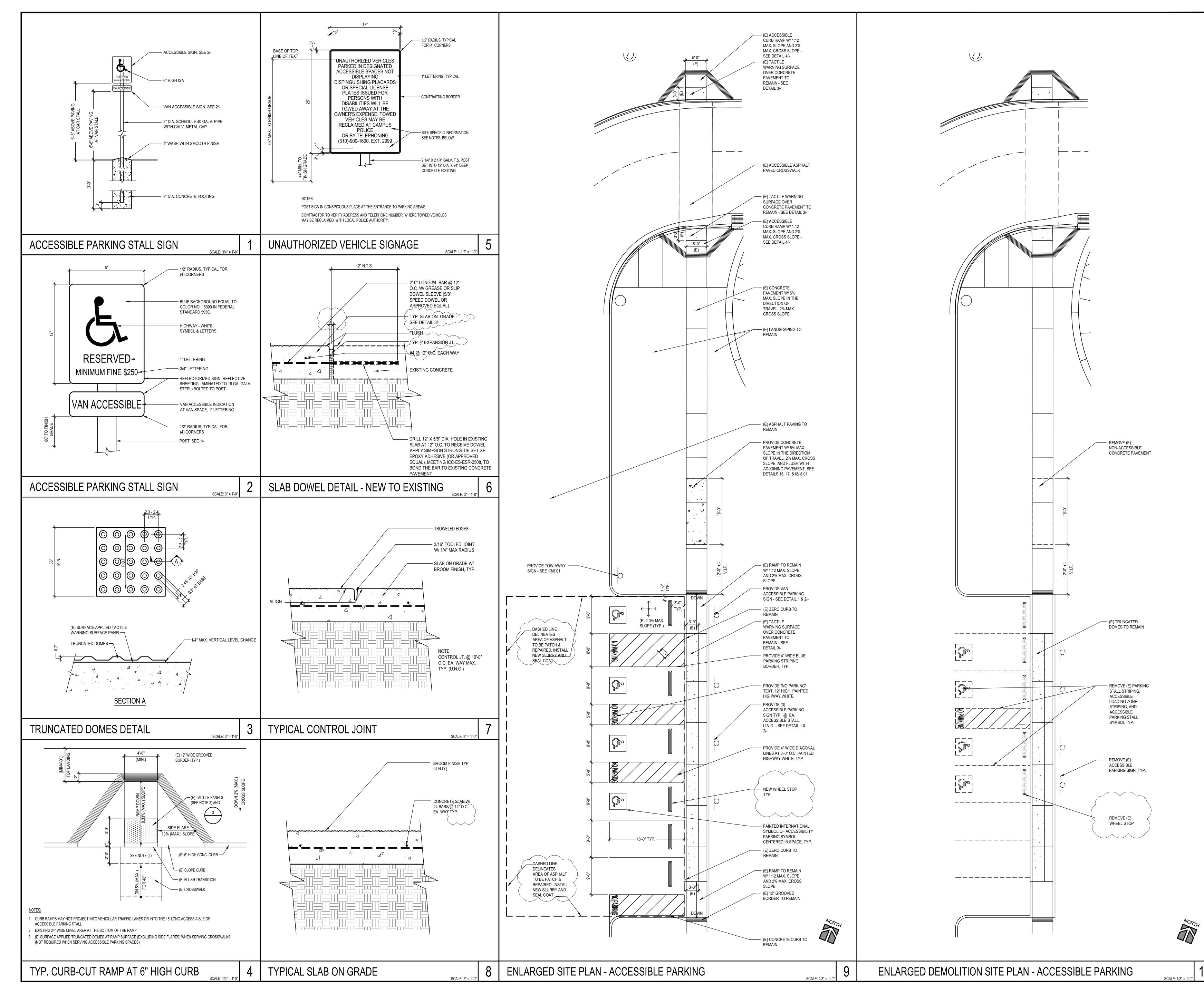


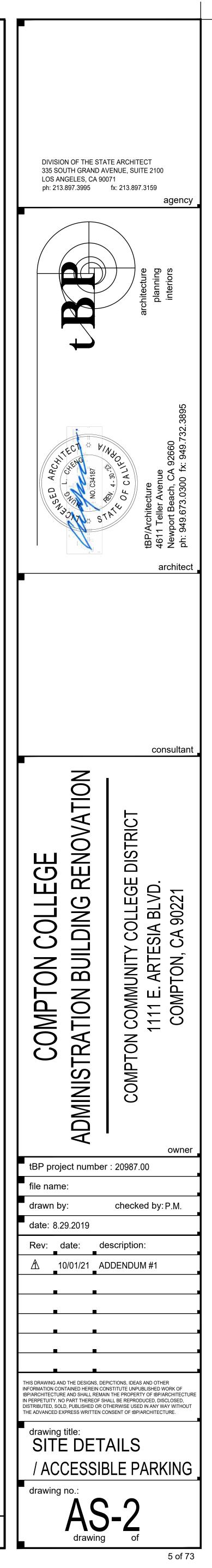


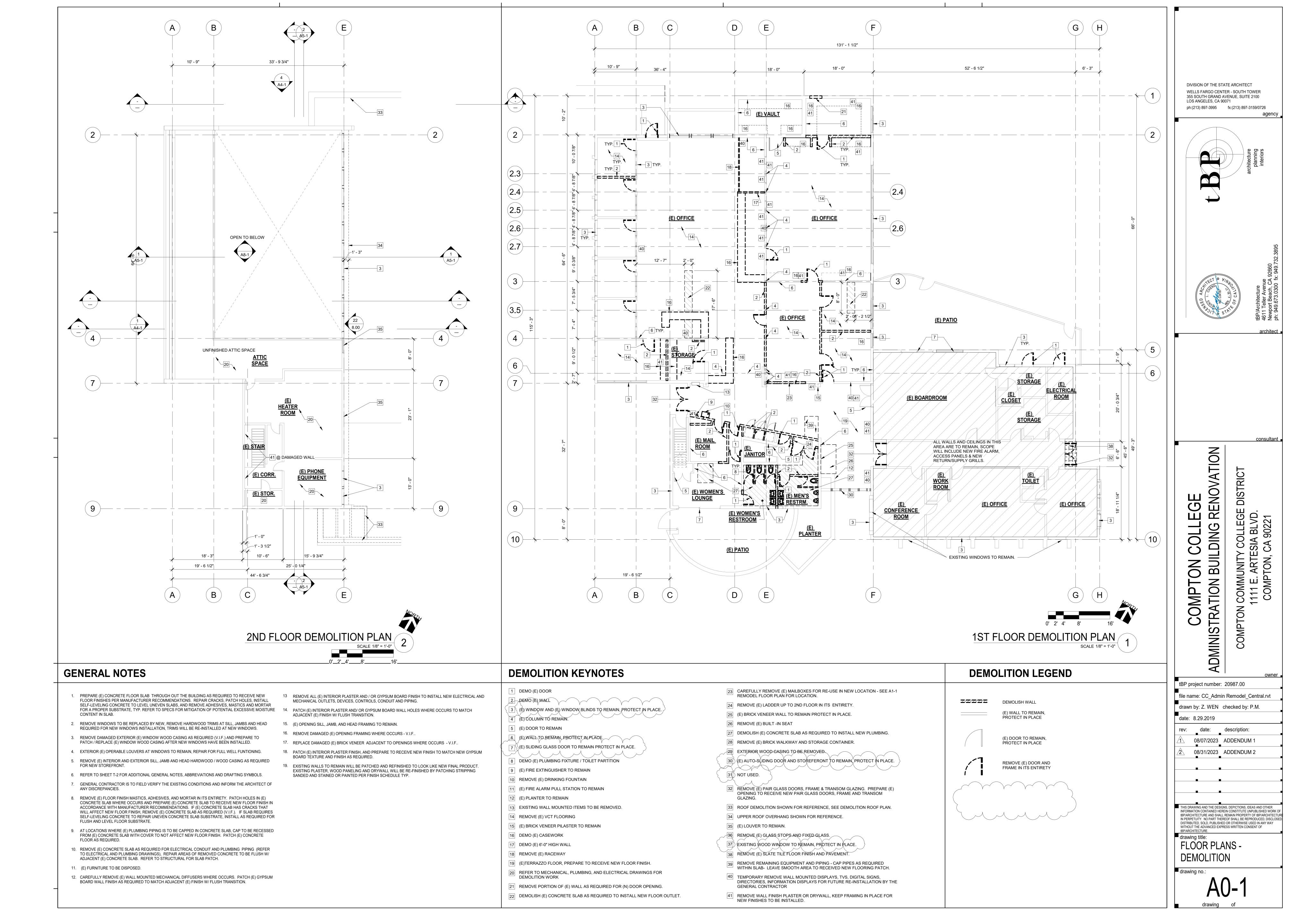


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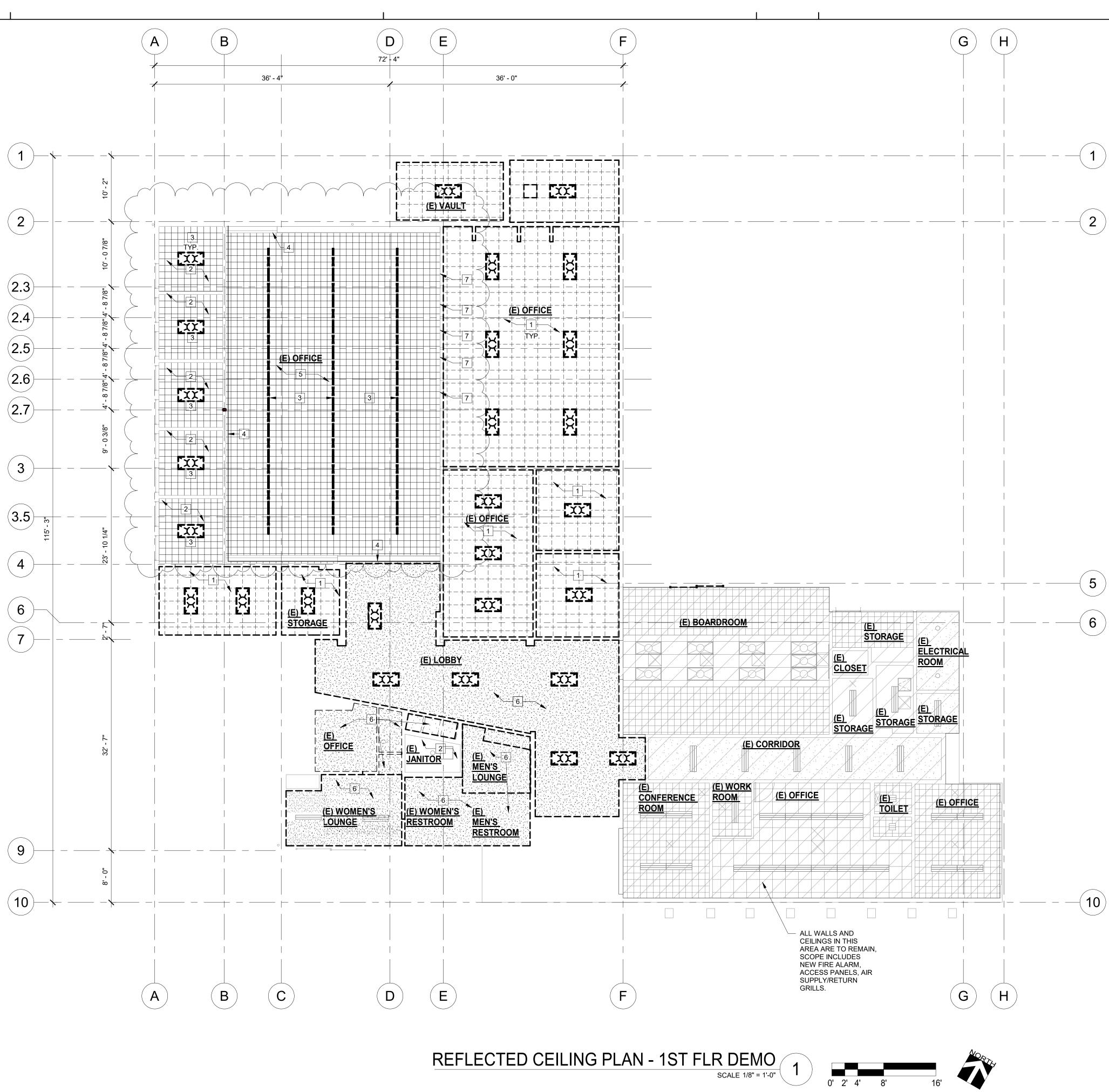






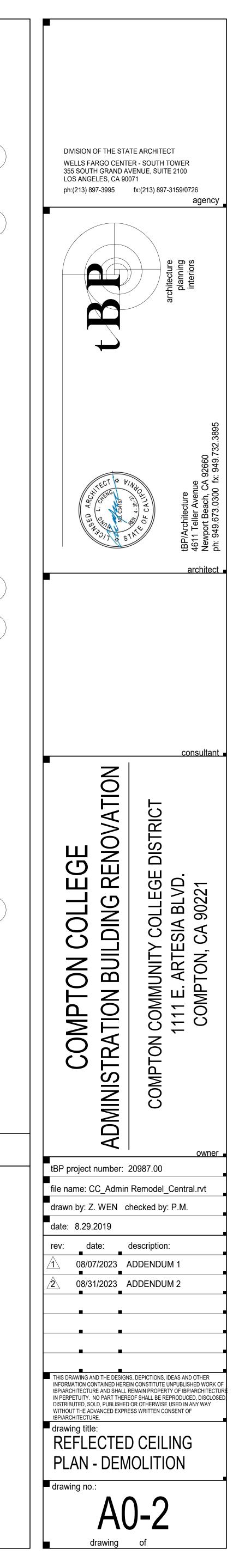


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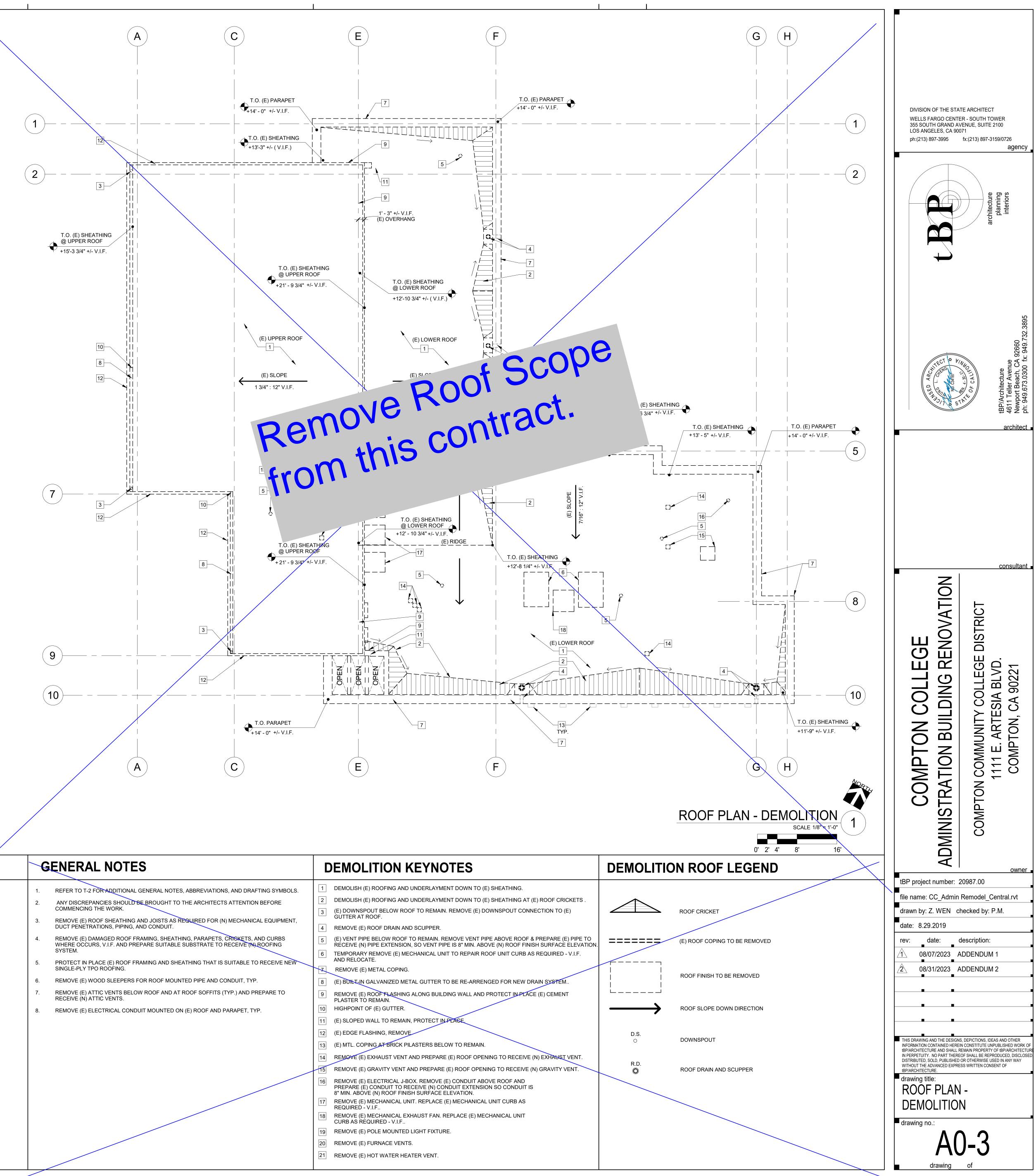


GENERAL NOTES
1. REFER TO ELECTRICAL AND MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.

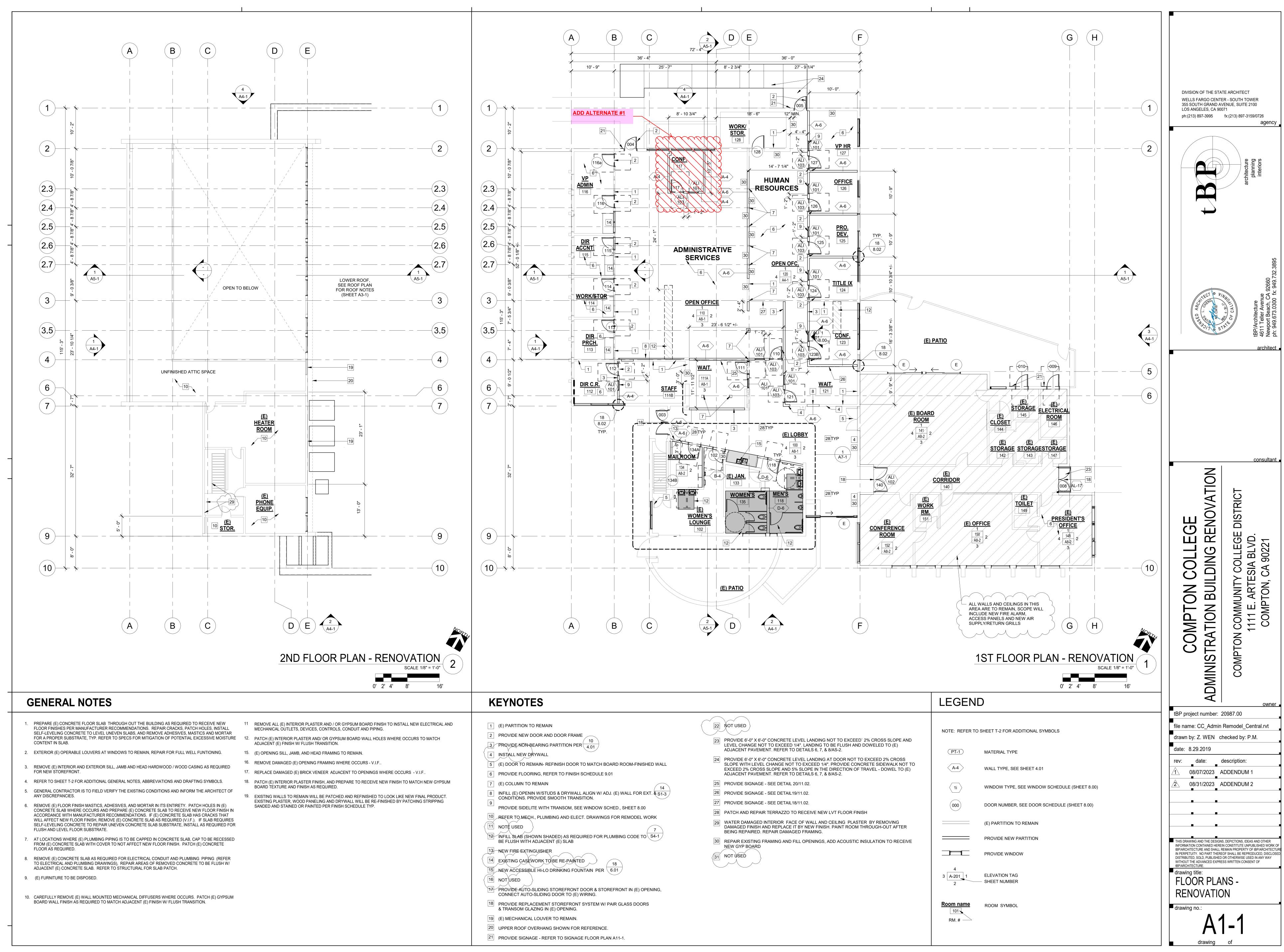
1 DEMOLISH (E) ACOUSTICAL TILE CEILING AND LIGHT FIXTURES IN ITS ENTIRETY (E) TILE CEILING TO BE DEMOLISHED 2 (E) CEILING TO REMAIN (E) TILE CEILING TO REMAIN 3 REMOVE (E) LIGHT FIXTURE (E) 12"X12" MINERAL TILE O/ GYP. BD. TO REMAIN 4 DEMOLISH (E) WOOD SOFFIT/ TRIM (E) 12"X12" MINERAL TILE O/ GYP. BD. TO REMAIN 5 (E) SLOPING ACOUSTICAL TILE CEILING TO REMAIN. REMOVE SUSPENDED LIGHT FIXTURES IN ITS ENTIRETY (E) 24"X24" MINERAL TILE O/ GYP. BD. TO REMAIN 6 DEMOLISH (E) PLASTER FINISH CEILING IN ITS ENTIRETY (E) 24"X24" MINERAL TILE O/ GYP. BD. TO REMAIN 7 REMOVE INTERIOR WINDOWS (E) SUPENDED 2' x 4' ACOUSTIC CEILING TILE TO REMAIN	DEMO KEYNOTES	LEGEND
(E) GYPSUM BOARD CEILING TO REMAIN Image: Constraint of the second sec	 ITS ENTIRETY 2 (E) CEILING TO REMAIN 3 REMOVE (E) LIGHT FIXTURE 4 DEMOLISH (E) WOOD SOFFIT/ TRIM 5 (E) SLOPING ACOUSTICAL TILE CEILING TO REMAIN. REMOVE SUSPENDED LIGHT FIXTURES IN ITS ENTIRETY 6 DEMOLISH (E) PLASTER FINISH CEILING IN ITS ENTIRETY 	Image: Constraint of the second se

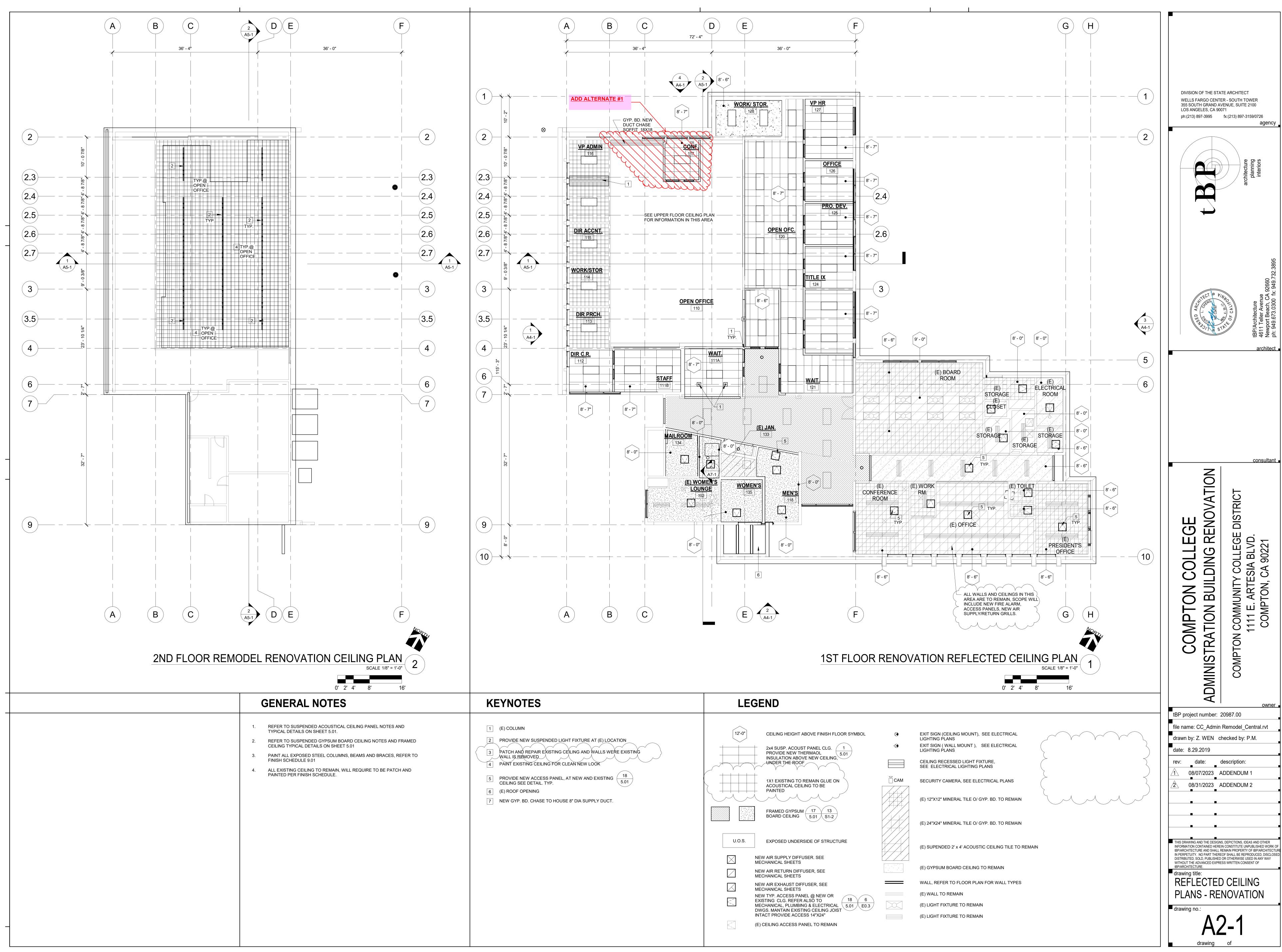


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GENERAL NOTES	
1. REFER TO T-2 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND DRAFTING SYMBOLS.	1 DEMOLISH (E) RO
2. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ARCHITECTS ATTENTION BEFORE COMMENCING THE WORK.	2 DEMOLISH (E) RO 3 (E) DOWNSPOUT
3. REMOVE (E) ROOF SHEATHING AND JOISTS AS REQUIRED FOR (N) MECHANICAL EQUIPMENT, DUCT PENETRATIONS, PIPING, AND CONDUIT.	GUTTER AT ROOF 4 REMOVE (E) ROOF
 REMOVE (E) DAMAGED ROOF FRAMING, SHEATHING, PARAPETS, CRICKETS, AND CURBS WHERE OCCURS, V.I.F. AND PREPARE SUITABLE SUBSTRATE TO RECEIVE (N) ROOFING SYSTEM 	5 (E) VENT PIPE BEL RECEIVE (N) PIPE
5. PROTECT IN PLACE (E) ROOF FRAMING AND SHEATHING THAT IS SUITABLE TO RECEIVE NEW	6 TEMPORARY REM AND RELOCATE. 7 REMOVE (E) MET
6. REMOVE (E) WOOD SLEEPERS FOR ROOF MOUNTED PIPE AND CONDUIT, TYP.	8 (E) BUILT-IN GALV
7. REMOVE (E) ATTIC VENTS BELOW ROOF AND AT ROOF SOFFITS (TYP.) AND PREPARE TO RECEIVE (N) ATTIC VENTS.	9 REMOVE (E) ROO PLASTER TO REM
8. REMOVE (E) ELECTRICAL CONDUIT MOUNTED ON (E) ROOF AND PARAPET, TYP.	10 HIGHPOINT OF (E)
	11 (E) SLOPED WALL
	12 (E) EDGE FLASHIN 13 (E) MTL. COPING
	13 (E) MTL. COPING A
	15 REMOVE (E) GRAV
	16 REMOVE (E) ELEC PREPARE (E) CON 8" MIN. ABOVE (N)
	17 REMOVE (E) MECI REQUIRED - V.I.F.
	18 REMOVE (E) MECH CURB AS REQUIR
	19 REMOVE (E) POLE
	20REMOVE (E) FURM21REMOVE (E) HOT
	 ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ARCHITECTS ATTENTION BEFORE COMMENCING THE WORK. REMOVE (E) ROOF SHEATHING AND JOISTS AS REQUIRED FOR (N) MECHANICAL EQUIPMENT, DUCT PENETRATIONS, PIPING, AND CONDUIT. REMOVE (E) DAMAGED ROOF FRAMING, SHEATHING, PARAPETS, CRICKETS, AND CURBS WHERE OCCURS, V.I.F. AND PREPARE SUITABLE SUBSTRATE TO RECEIVE (N) ROOFING SYSTEM. PROTECT IN PLACE (E) ROOF FRAMING AND SHEATHING THAT IS SUITABLE TO RECEIVE NEW SINGLE-PLY TPO ROOFING. REMOVE (E) WOOD SLEEPERS FOR ROOF MOUNTED PIPE AND CONDUIT, TYP. REMOVE (E) ATTIC VENTS BELOW ROOF AND AT ROOF SOFFITS (TYP.) AND PREPARE TO RECEIVE (N) ATTIC VENTS.

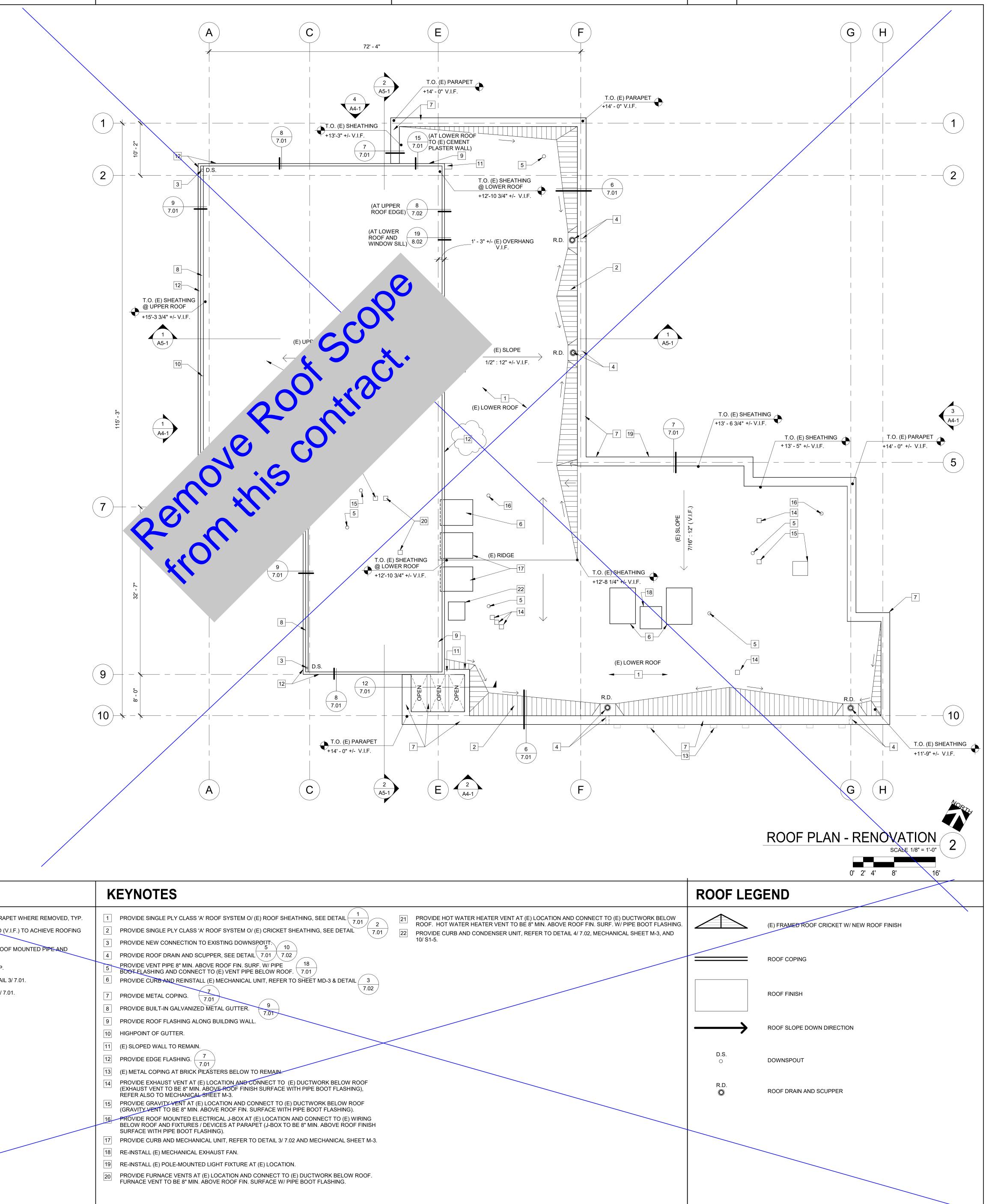




CEILING HEIGHT ABOVE FINISH FLOC	DR SYMBOL	•
		•
1X1 EXISTING TO REMAIN GLUE ON ACOUSTICAL CEILING TO BE PAINTED		AM
FRAMED GYPSUM BOARD CEILING 5.01 S1-2		
EXPOSED UNDERSIDE OF STRUCTUR	RE	
NEW AIR SUPPLY DIFFUSER. SEE MECHANICAL SHEETS		
NEW AIR RETURN DIFFUSER, SEE MECHANICAL SHEETS		<u> </u>
NEW AIR EXHAUST DIFFUSER, SEE MECHANICAL SHEETS NEW TYP. ACCESS PANEL @ NEW OR EXISTING CLG. REFER ALSO TO MECHANICAL, PLUMBING & ELECTRICAL DWGS. MANTAIN EXISTING CEILING JOIST INTACT PROVIDE ACCESS 14"X24"	18 6 5.01 E0.3	

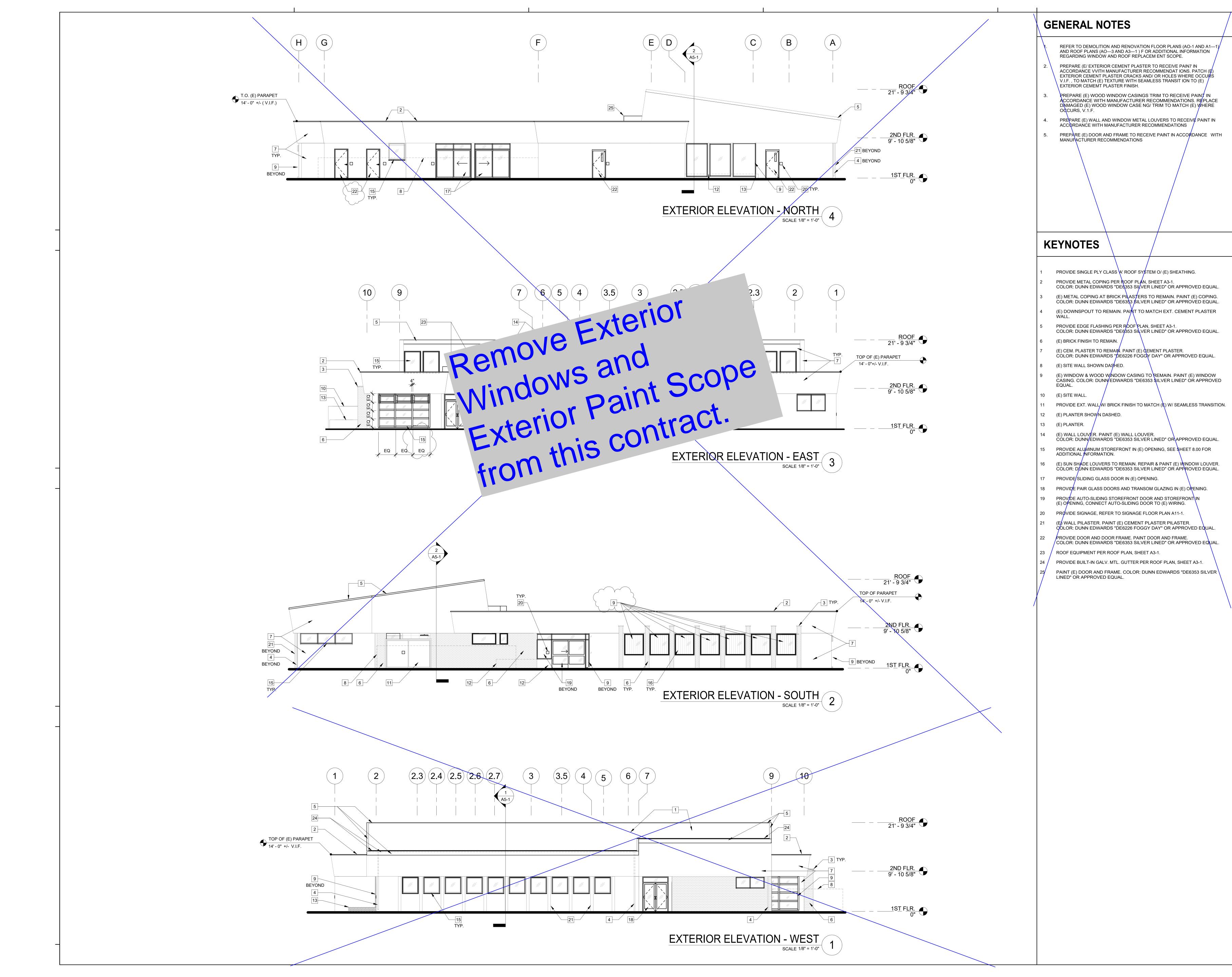
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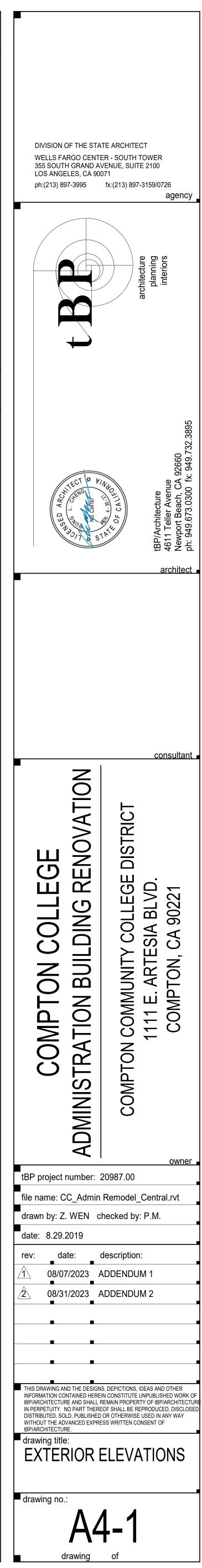
(GENERAL NOTES
1.	PROVIDE ELECTRICAL CONDUIT MOUNTED ON
2.	PROVIDE SHEATHING, ROOF FRAMING AND CU MANUFACTURER'S WARRANTY REQUIREMEN
3.	PROVIDE DURABLOCK (OR APPROVED EQUAL CONDUIT, TYP. SEE DETAIL 9/7.02
4.	PROVIDE ATTIC VENTS BELOW ROOF AND AT
5.	PROVIDE REINFORCED MEMBRANE ON ALL PA
6.	FOR TYPICAL CLEARANCES FOR MULTIPLE PIF
7.	FOR TYPICAL PIPE PENETRATION, SEE DETAIL
8.	FOR TYPICAL VENT PIPE, SEE DETAIL 18/ 7.01.
9.	FOR TYPICAL DUCT PENETRATION CURB, SEE
10.	FOR TYPICAL EXHAUST FAN CURB, SEE DETAI

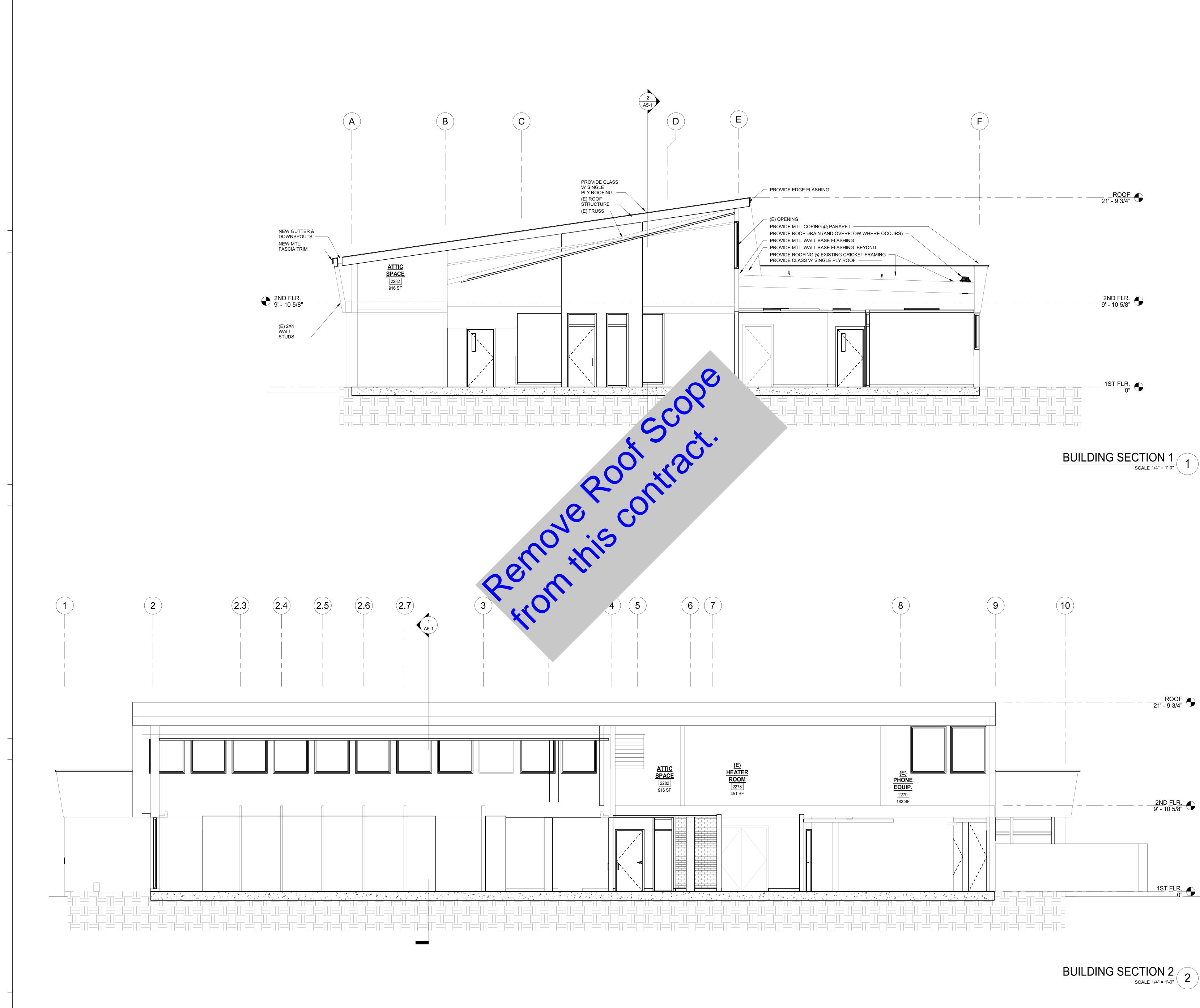


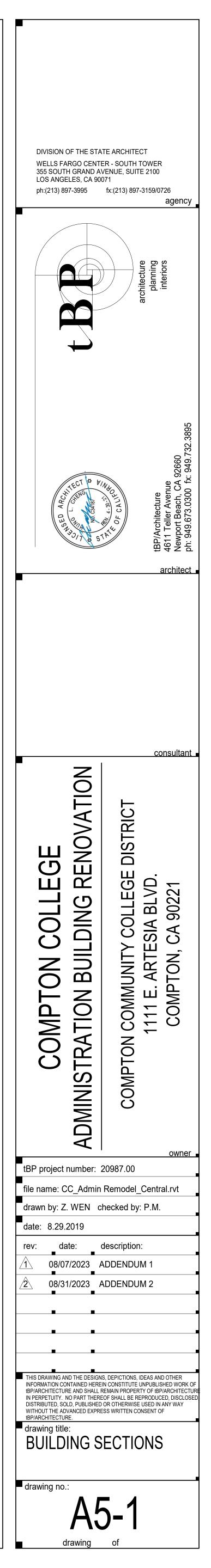
	KEYNOTES
D ON (E) ROOF AND PARAPET WHERE REMOVED, TYP.	1 PROVIDE SINGLE PLY CLASS 'A' ROOF SYSTEM O/ (E) ROOF SHEATHING, SEE DETAIL 1 PROVIDE HOT WA
ID CURBS AS REQUIRED (V.I.F.) TO ACHIEVE ROOFING MENTS.	2 PROVIDE SINGLE PLY CLASS 'A' ROOF SYSTEM O/ (E) CRICKET SHEATHING, SEE DETAIL 7.01 22 PROVIDE CURB
QUAL) SLEEPERS FOR ROOF MOUNTED PIPE AND	3 PROVIDE NEW CONNECTION TO EXISTING DOWNSPOILT. 10/ S1-5. 4 PROVIDE ROOF DRAIN AND SCUPPER, SEE DETAIL 7.01
D AT ROOF SOFFITS, TYP.	5 PROVIDE VENT PIPE 8" MIN. ABOVE ROOF FIN. SURF. W/ PIPE 5 BOOT ELASHING AND CONNECT TO (E) VENT PIPE BELOW ROOF. 7.01
LL PARAPETS, SEE DETAIL 3/ 7.01.	6 PROVIDE CURB AND REINSTALL (E) MECHANICAL UNIT, REFER TO SHEET MD-3 & DETAIL 3
E PIPES, SEE DETAIL 16/ 7.01.	7 PROVIDE METAL COPING. 7.02
ETAIL 17/ 7.01.	8 PROVIDE BUILT-IN GALVANIZED METAL GUTTER. 9 7.01
7.01.	9 PROVIDE ROOF FLASHING ALONG BUILDING WALL.
SEE DETAIL 19/ 7.01.	10 HIGHPOINT OF GUTTER.
ETAIL 20/ 7.01.	11 (E) SLOPED WALL TO REMAIN.
	12 PROVIDE EDGE FLASHING. $\begin{pmatrix} 7\\ 7.01 \end{pmatrix}$
	13 (E) METAL COPING AT BRICK PILASTERS BELOW TO REMAIN.
	14 PROVIDE EXHAUST VENT AT (E) LOCATION AND CONNECT TO (E) DUCTWORK BELOW ROOF (EXHAUST VENT TO BE 8" MIN. ABOVE ROOF FINISH SURFACE WITH PIPE BOOT FLASHING), REFER ALSO TO MECHANICAL SHEET M-3.
	15 PROVIDE GRAVITY VENT AT (E) LOCATION AND CONNECT TO (E) DUCTWORK BELOW ROOF (GRAVITY VENT TO BE 8" MIN. ABOVE ROOF FIN. SURFACE WITH PIPE BOOT FLASHING).
	16 PROVIDE ROOF MOUNTED ELECTRICAL J-BOX AT (E) LOCATION AND CONNECT TO (E) WIRING BELOW ROOF AND FIXTURES / DEVICES AT PARAPET (J-BOX TO BE 8" MIN. ABOVE ROOF FINISH SURFACE WITH PIPE BOOT FLASHING).
	17 PROVIDE CURB AND MECHANICAL UNIT, REFER TO DETAIL 3/ 7.02 AND MECHANICAL SHEET M-3.
	18 RE-INSTALL (E) MECHANICAL EXHAUST FAN.
	19 RE-INSTALL (E) POLE-MOUNTED LIGHT FIXTURE AT (E) LOCATION.
	20 PROVIDE FURNACE VENTS AT (E) LOCATION AND CONNECT TO (E) DUCTWORK BELOW ROOF. FURNACE VENT TO BE 8" MIN. ABOVE ROOF FIN. SURFACE W/ PIPE BOOT FLASHING.

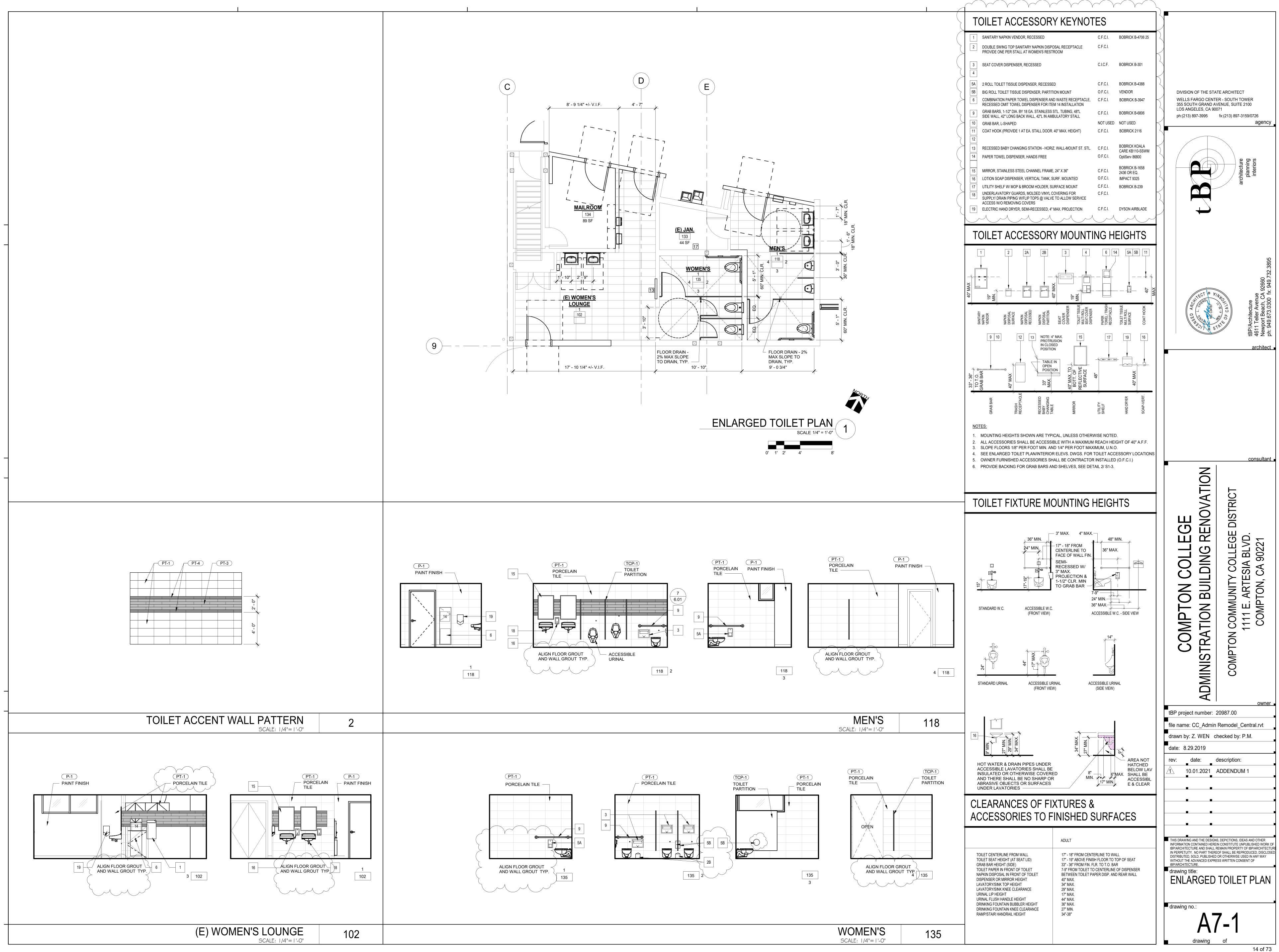
DIVISION OF THE STATE ARCHITECT WELLS FARGO CENTER - SOUTH TOWER 355 SOUTH GRAND AVENUE, SUITE 2100 LOS ANGELES, CA 90071 ph:(213) 897-3995 fx:(213) 897-3159/0726 agency tBP/Architecture 4611 Teller Avenue Newport Beach, CA 92660 ph: 949.673.0300 fx: 949.7 architect consultant RENOVATION RIC **—** DIS. В OLLEGE | A BLVD. 90221 Ш DING 0 C CA \odot COMPTON COMMUNITY 1111 E. ARTE COMPTON, C BUIL NO TRATION COMP **ADMINIS** owner tBP project number: 20987.00 file name: CC_Admin Remodel_Central.rvt drawn by: Z. WEN checked by: P.M. date: 8.29.2019 rev: date: description: 08/07/2023 ADDENDUM 1 08/31/2023 ADDENDUM 2 THIS DRAWING AND THE DESIGNS, DEPICTIONS, IDEAS AND OTHER INFORMATION CONTAINED HEREIN CONSTITUTE UNPUBLISHED WORK OF tBP/ARCHITECTURE AND SHALL REMAIN PROPERTY OF tBP/ARCHITECTURE IN PERPETUITY. NO PART THEREOF SHALL BE REPRODUCED, DISCLOSED DISTRIBUTED, SOLD, PUBLISHED OR OTHERWISE USED IN ANY WAY WITHOUT THE ADVANCED EXPRESS WRITTEN CONSENT OF tBP/ARCHITECTURE tBP/ARCHITECTURE. drawing title:
ROOF PLAN -RENOVATION drawing no.: ΛΩ drawing



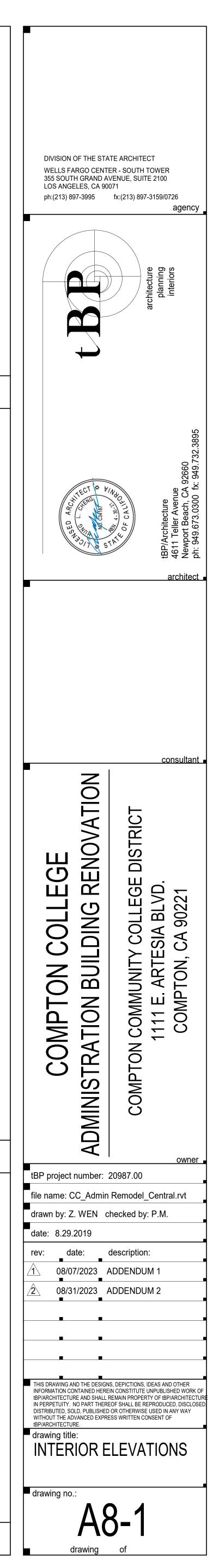


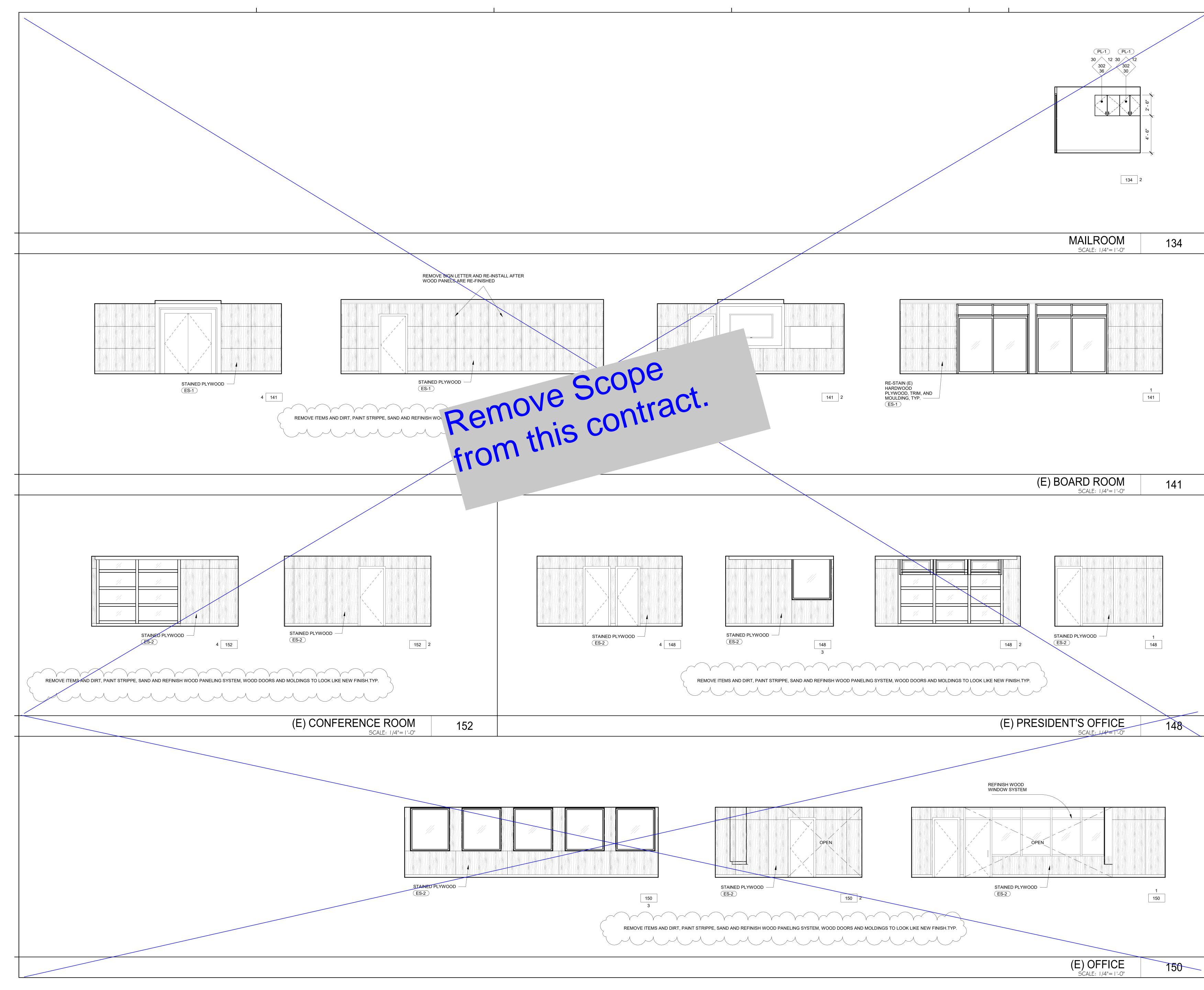


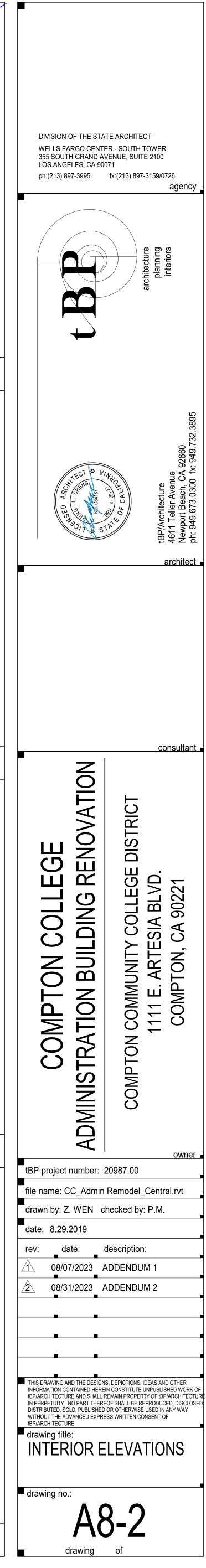


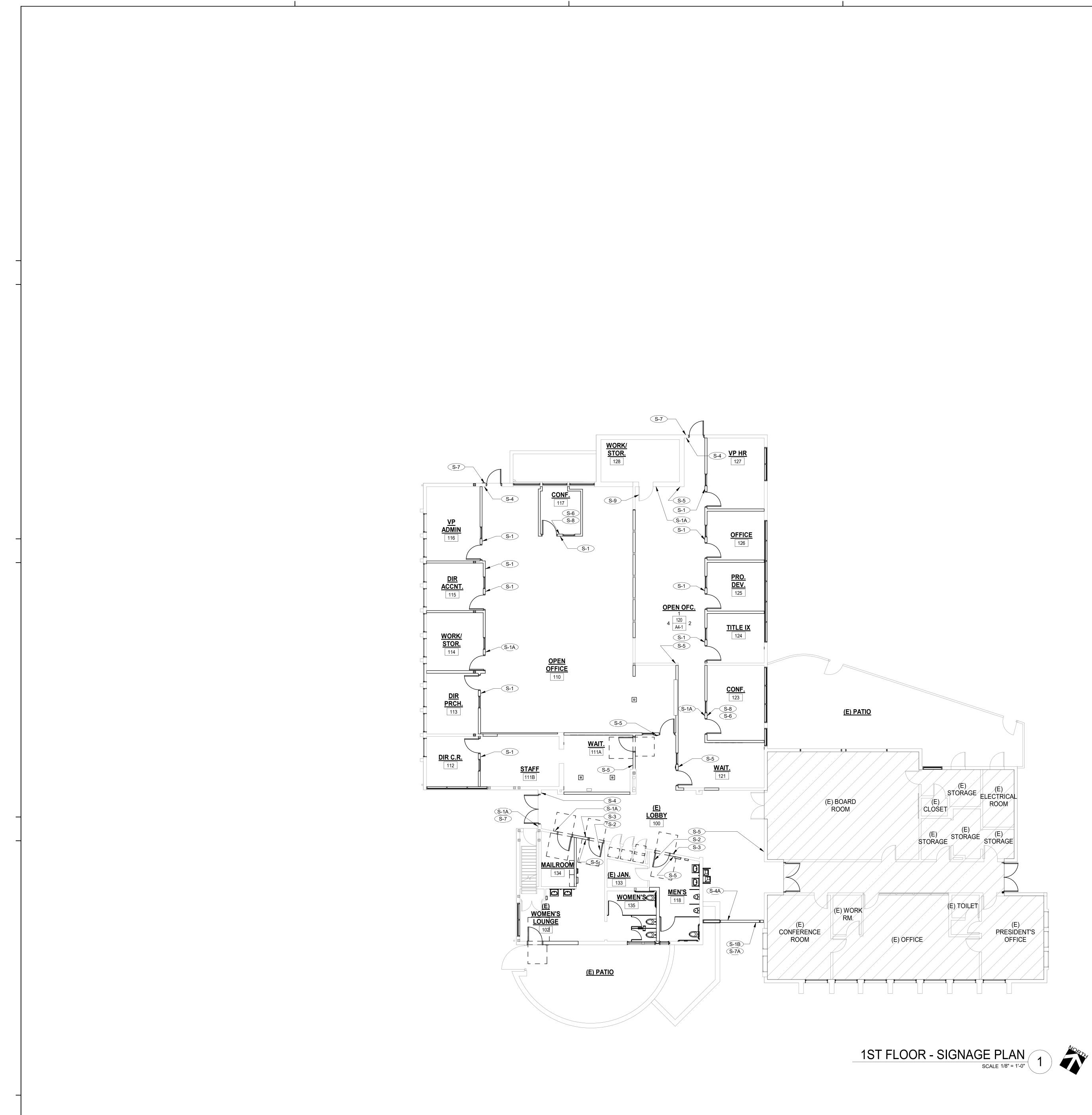










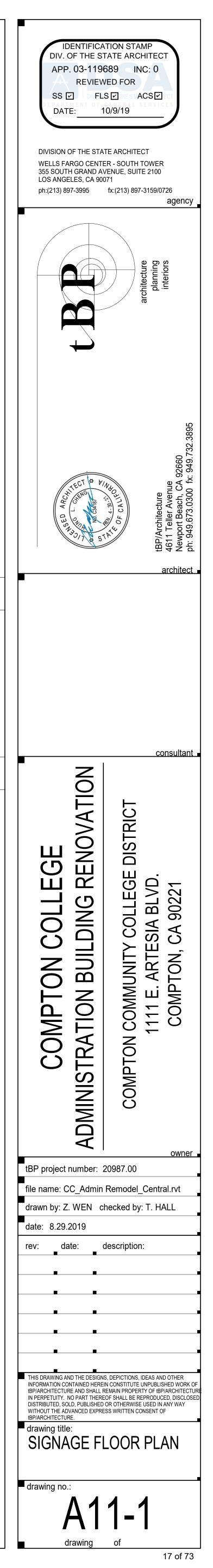




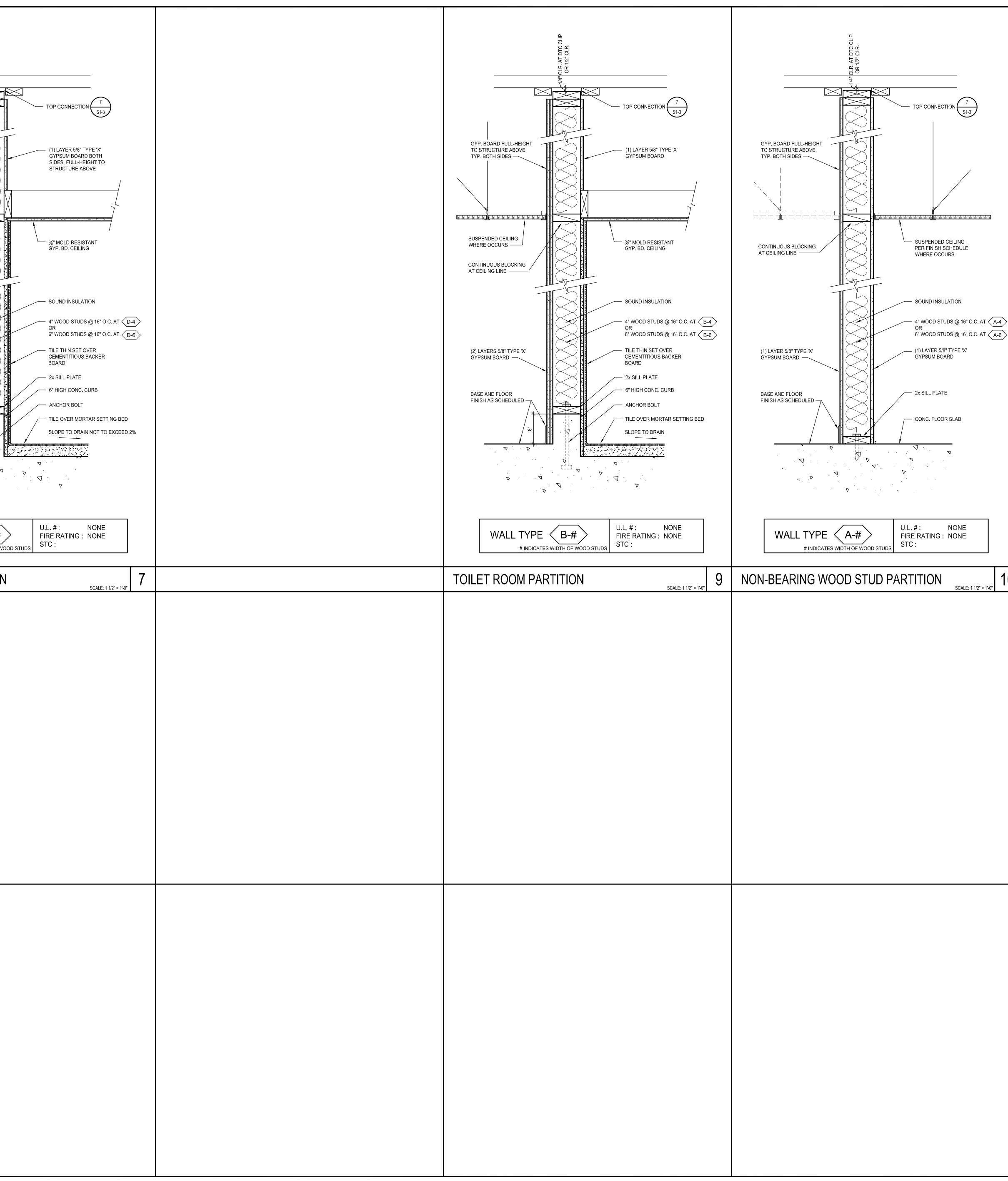
1. FOR SIGNAGE LOCATIONS AND MOUNTING HEIGHTS, SEE 5 11.01

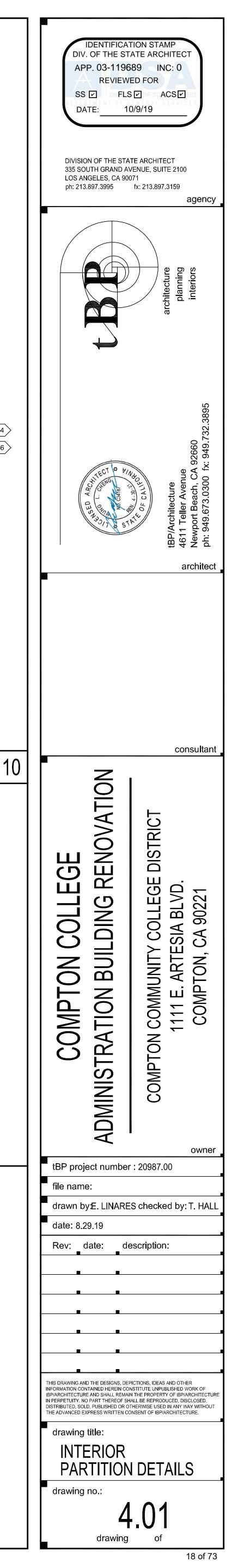
SIGNAGE LEGEND

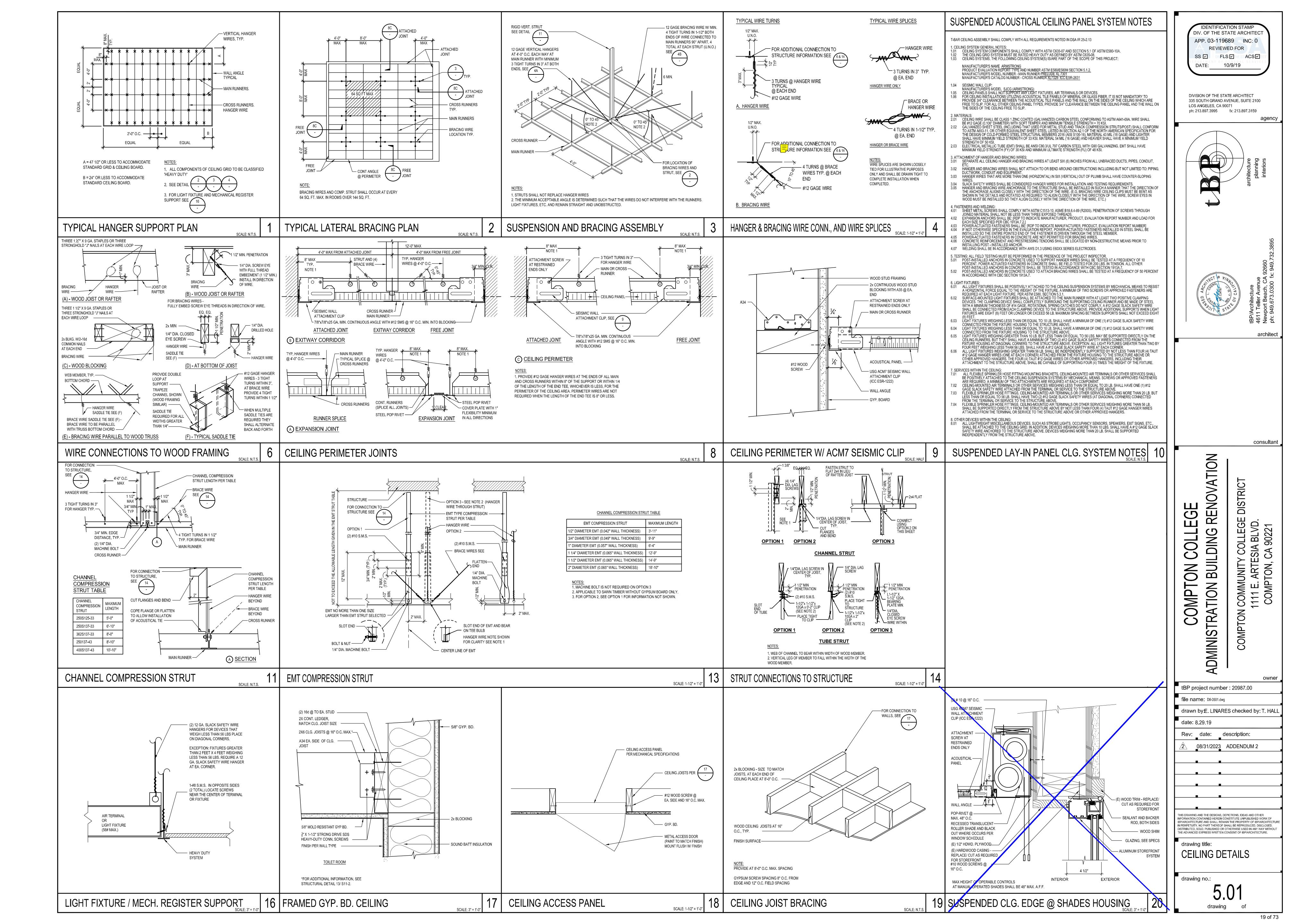
S-1	ROOM NAME/ NUMBER SIGN WITH INSERT (WALL-MOUNT), SEE DOOR SCHEDULE AND 11.01
(S-1A)	ROOM NAME/ NUMBER SIGN (WALL 11 MOUNT), SEE DOOR SCHEDULE AND 11.01
(S-1B)	ROOM NAME/ NUMBER SIGN (GLASS 11 MOUNT), SEE DOOR SCHEDULE AND 11.01
S-2	TOILET ROOM SYMBOL (DOOR MOUNT), SEE DOOR SCHEDULE AND DETAILS
S-3	TOILET ROOM SIGN (WALL MOUNT), SEE DOOR SCHEDULE AND DETAILS341411.0111.0111.0111.01
S-4	TACTILE "EXIT SIGN (INTERIOR) (WALL MOUNT), SEE
(S-4A)	TACTILE "EXIT SIGN (INTERIOR) (GLASS MOUNT), SEE
S-5	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE
S-6	"MAXIMUM OCCUPANCY" SIGN (INTERIOR WALL MOUNT), SEE
S-7	ACCESSIBLE ENTRANCE SIGN (EXTERIOR) (WALL MOUNT), SEE 14 11.01
(S-7A)	ACCESSIBLE ENTRANCE SIGN (EXTERIOR) (GLASS MOUNT), SEE 14 11.01
S-8	"ASSISTIVE LISTENING DEVICE" SIGN (INTERIOR WALL MOUNT), SEE
S-9	"FIRE ALARM CONTROL PANEL" SIGN (DOOR MOUNT), SEE 18 11.01

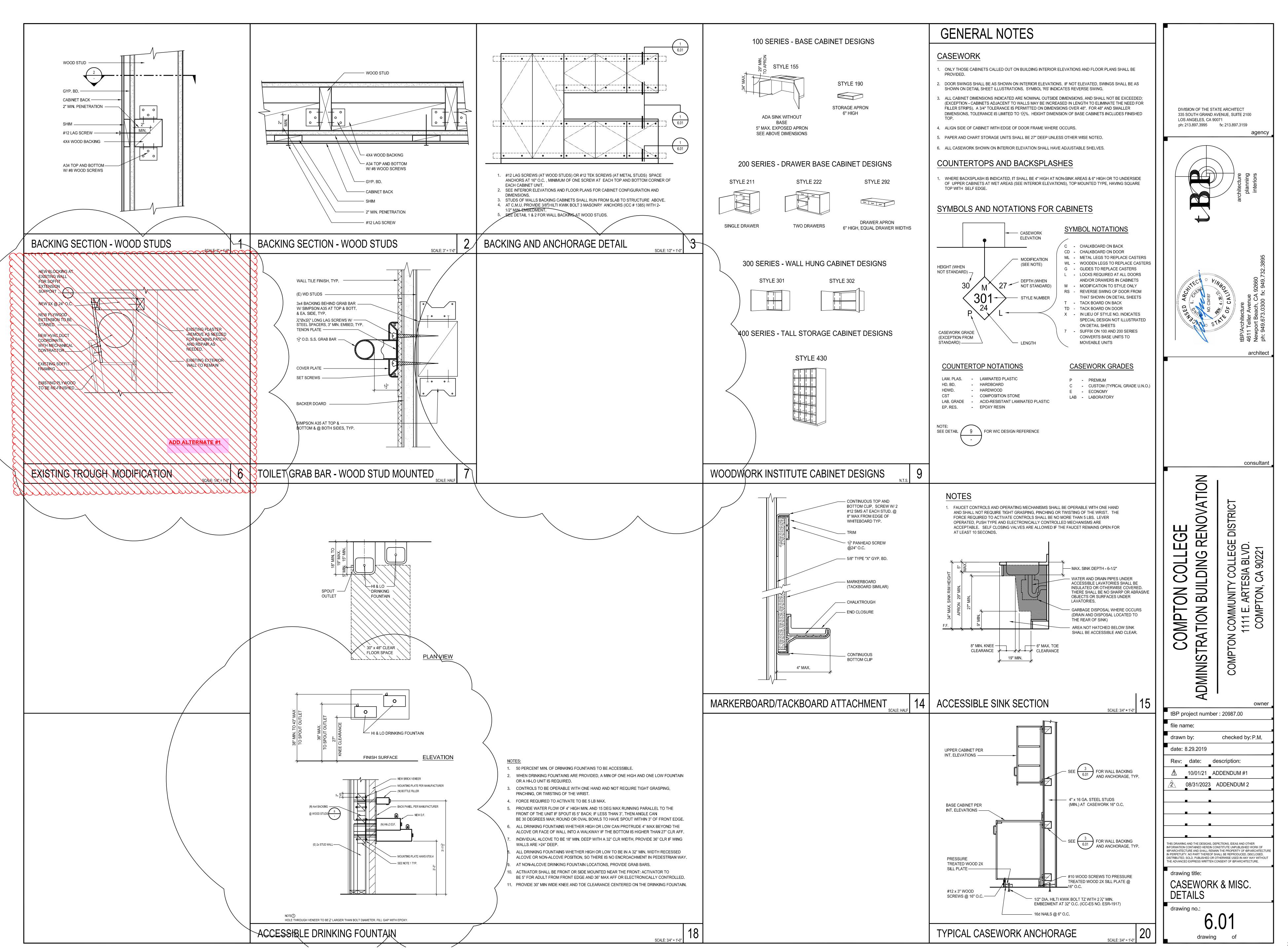


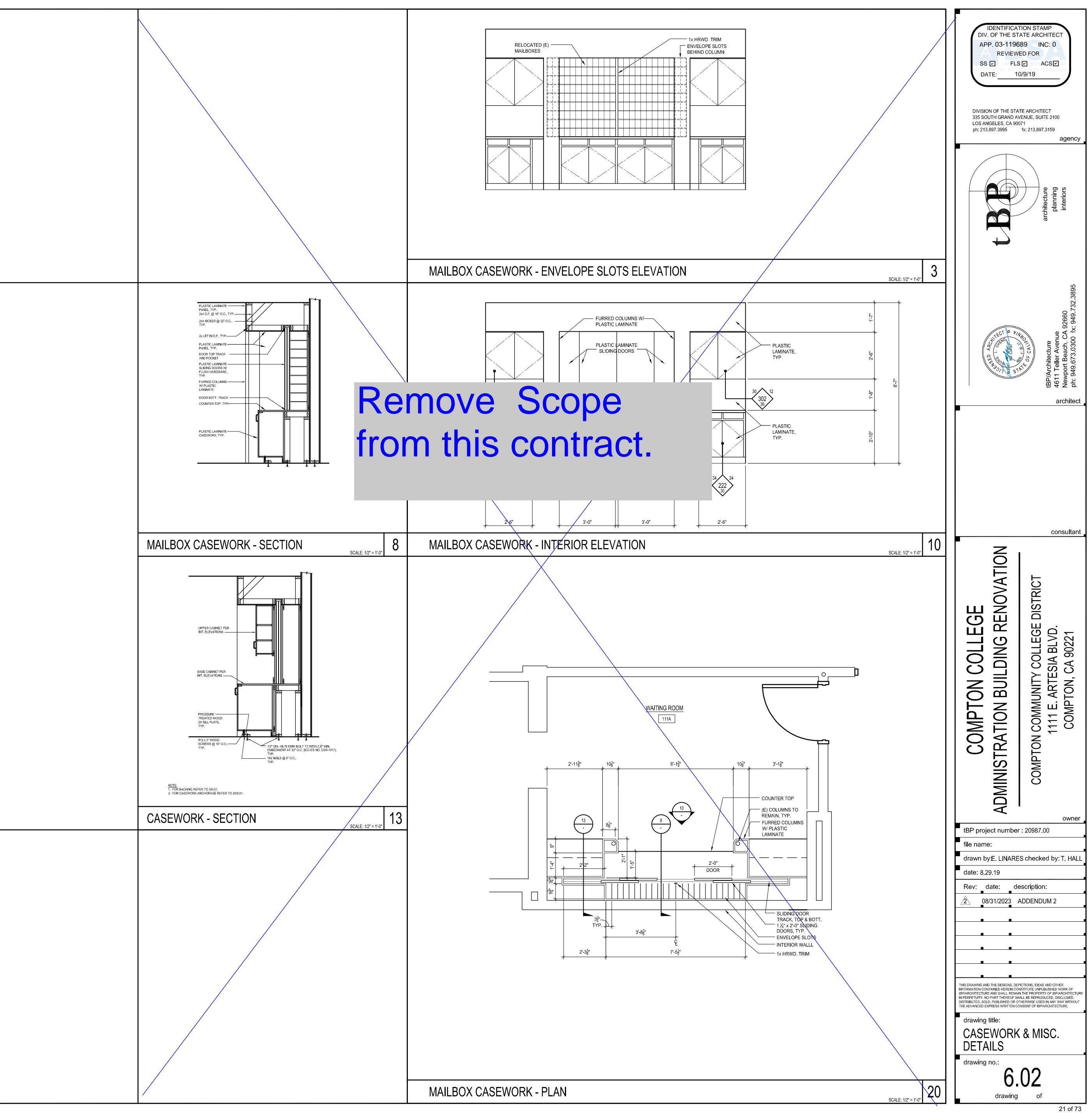
THE THIN SET OVER CEMENTITIOUS BLOCKING THE THIN SET OVER CEMENTITIOUS BLOCKING THE THIN SET OVER CEMENTITIOUS BLOCKING SLOPE TO DRAIN SLOPE

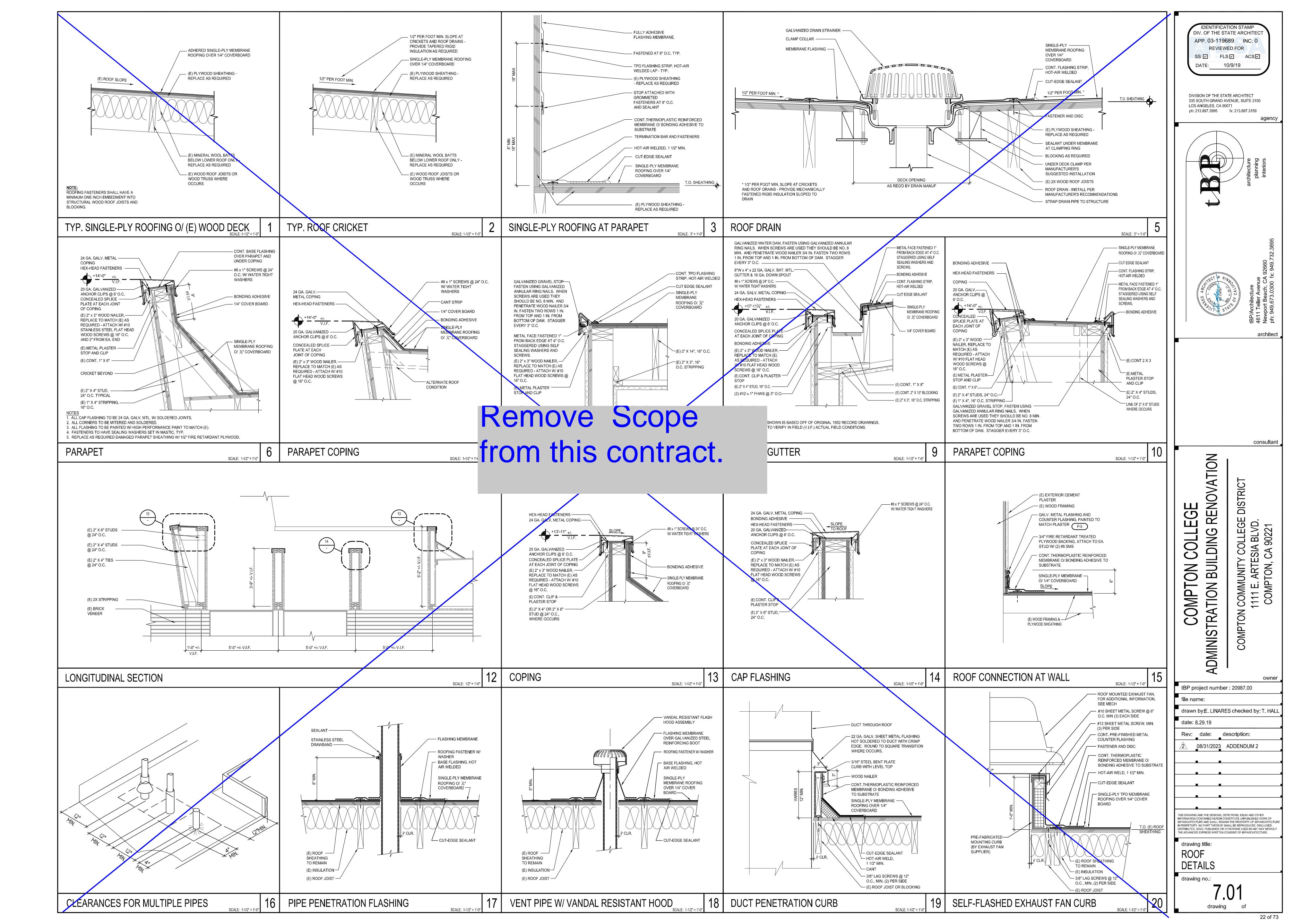


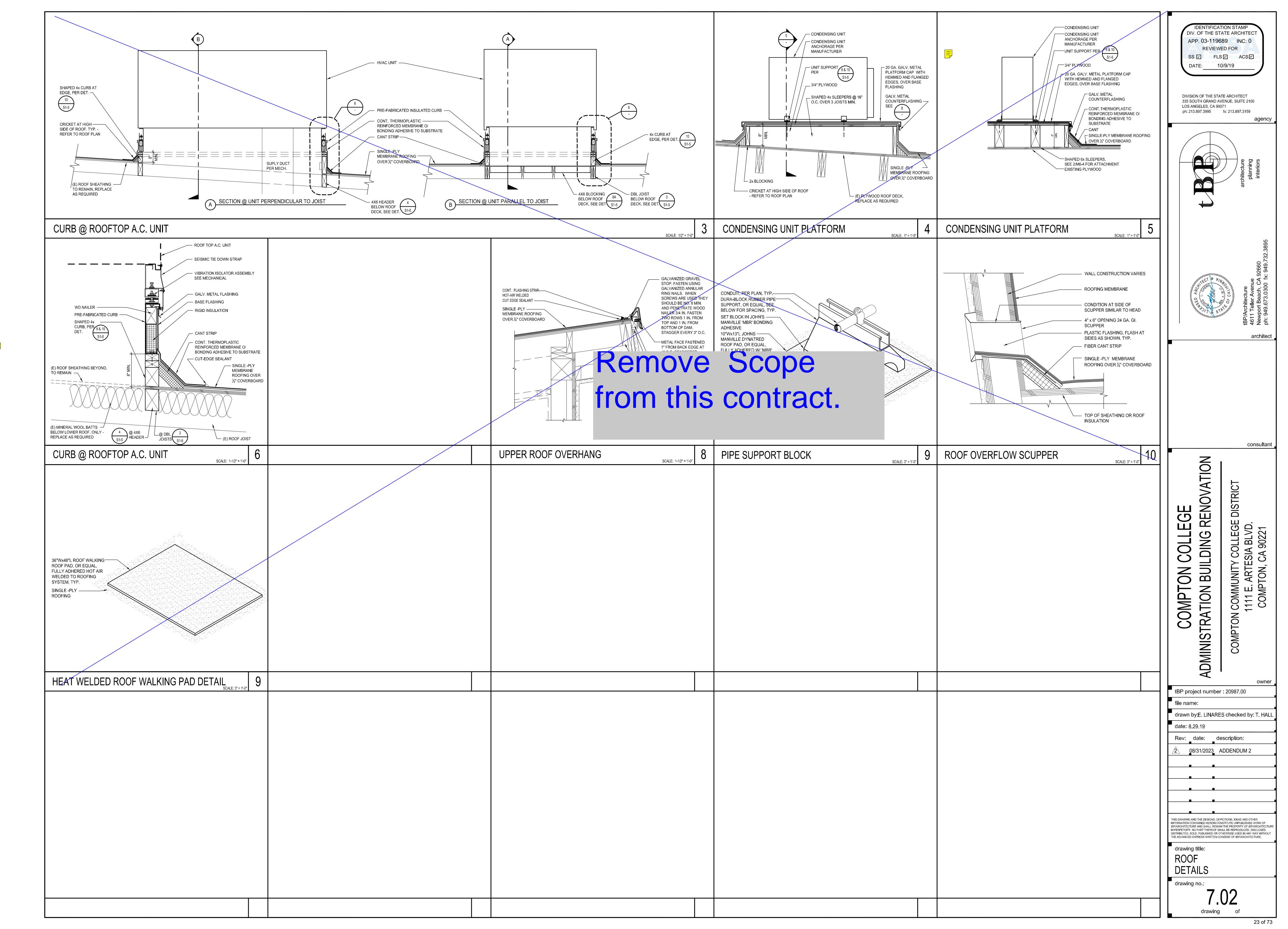


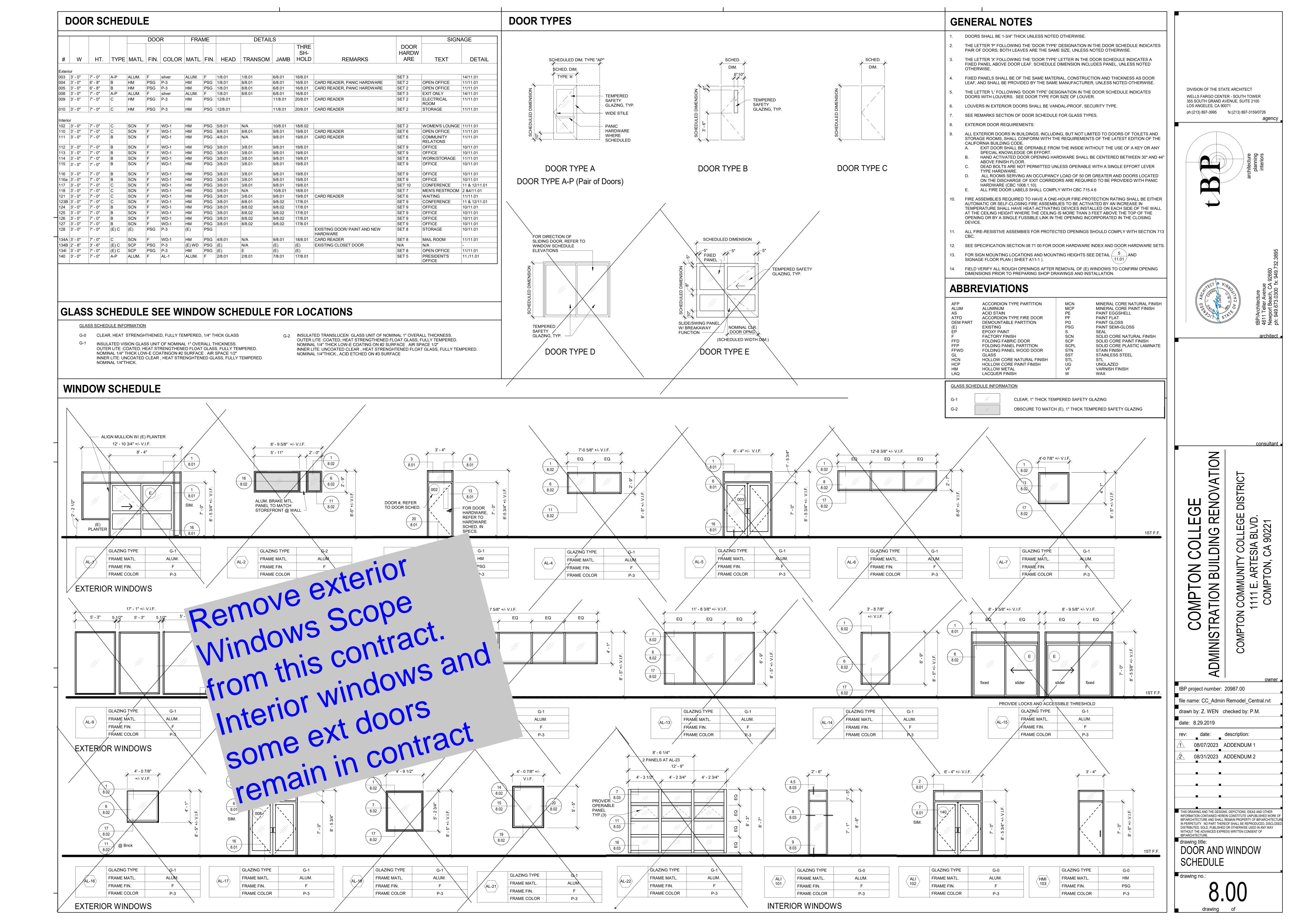


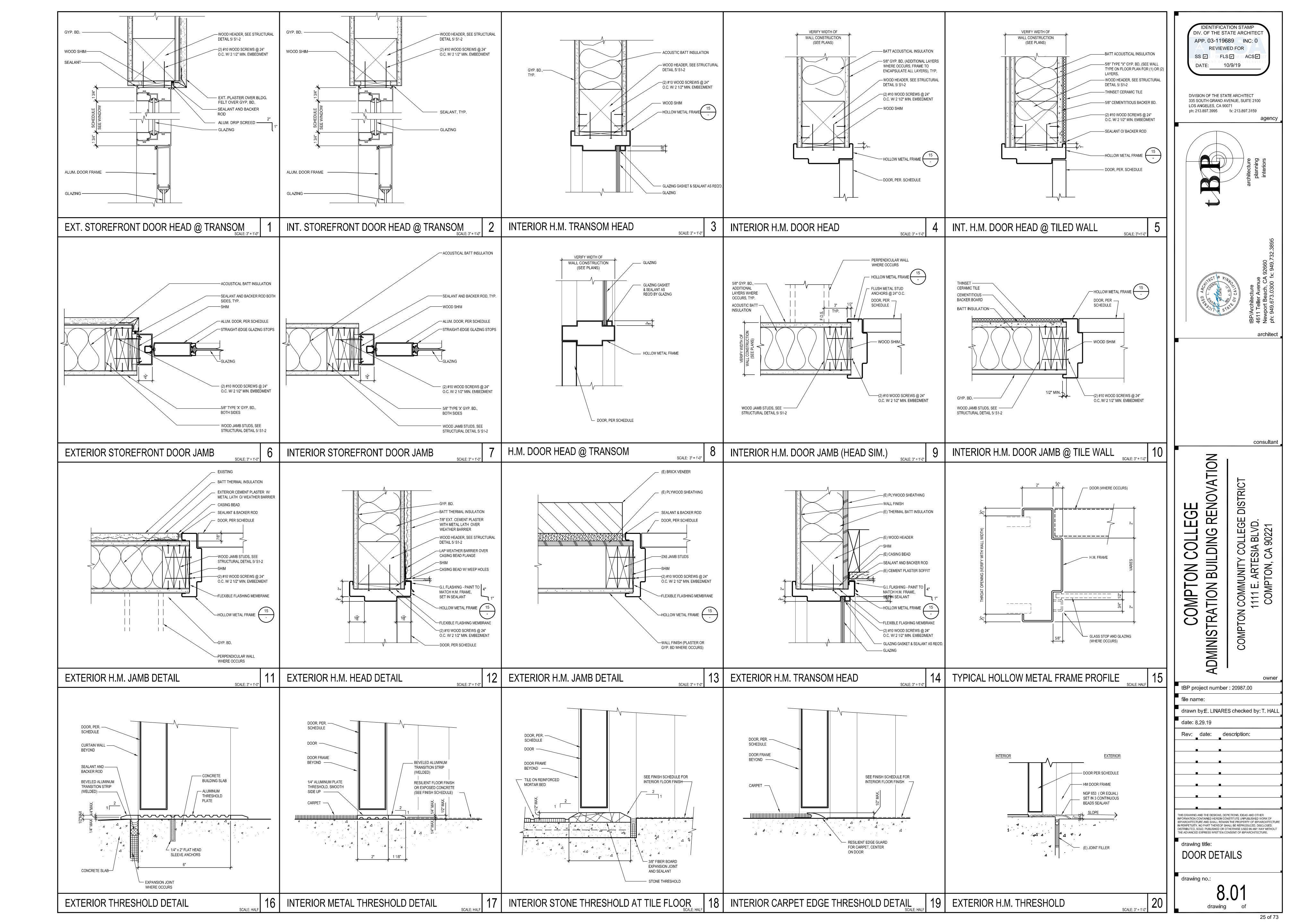


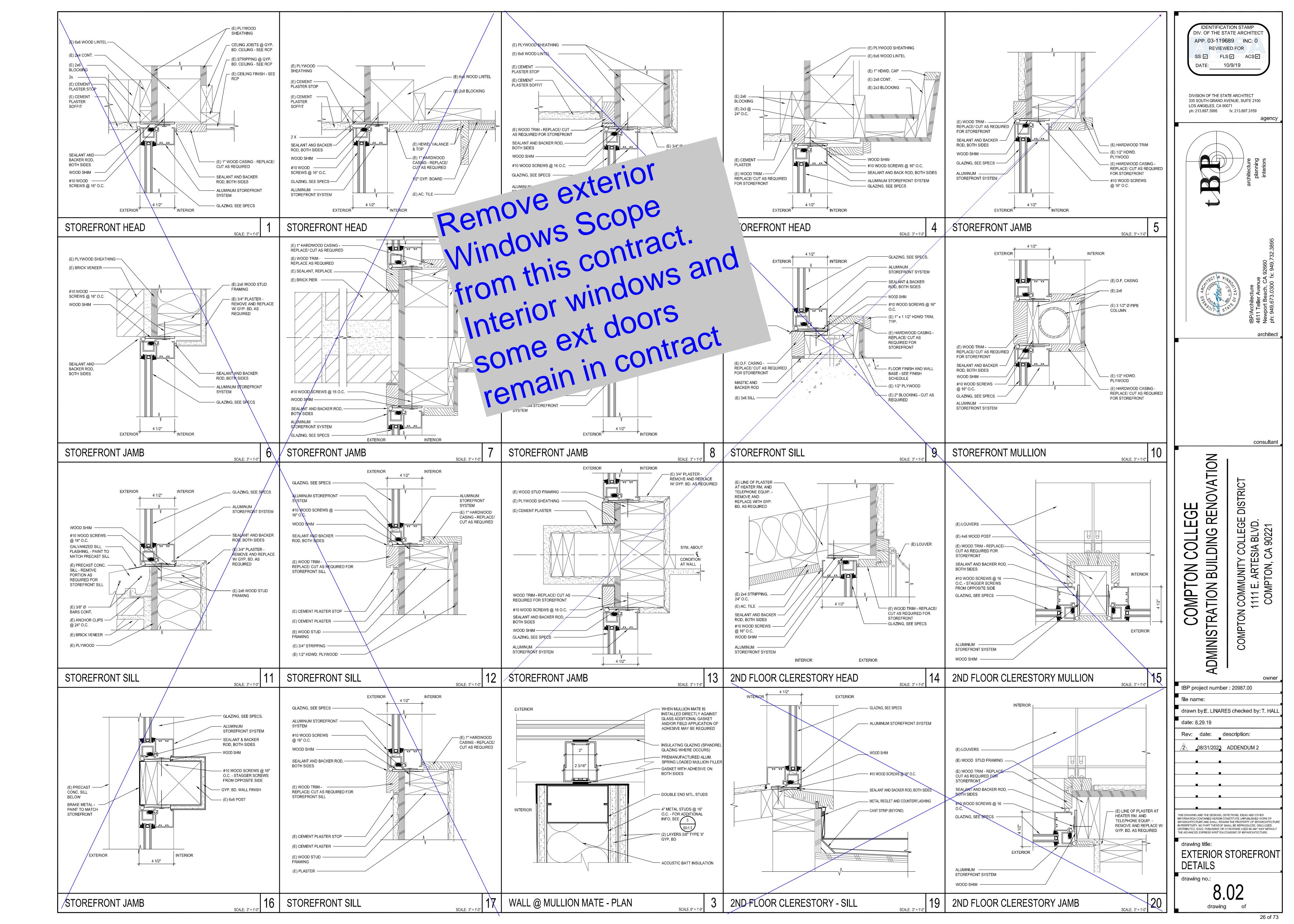


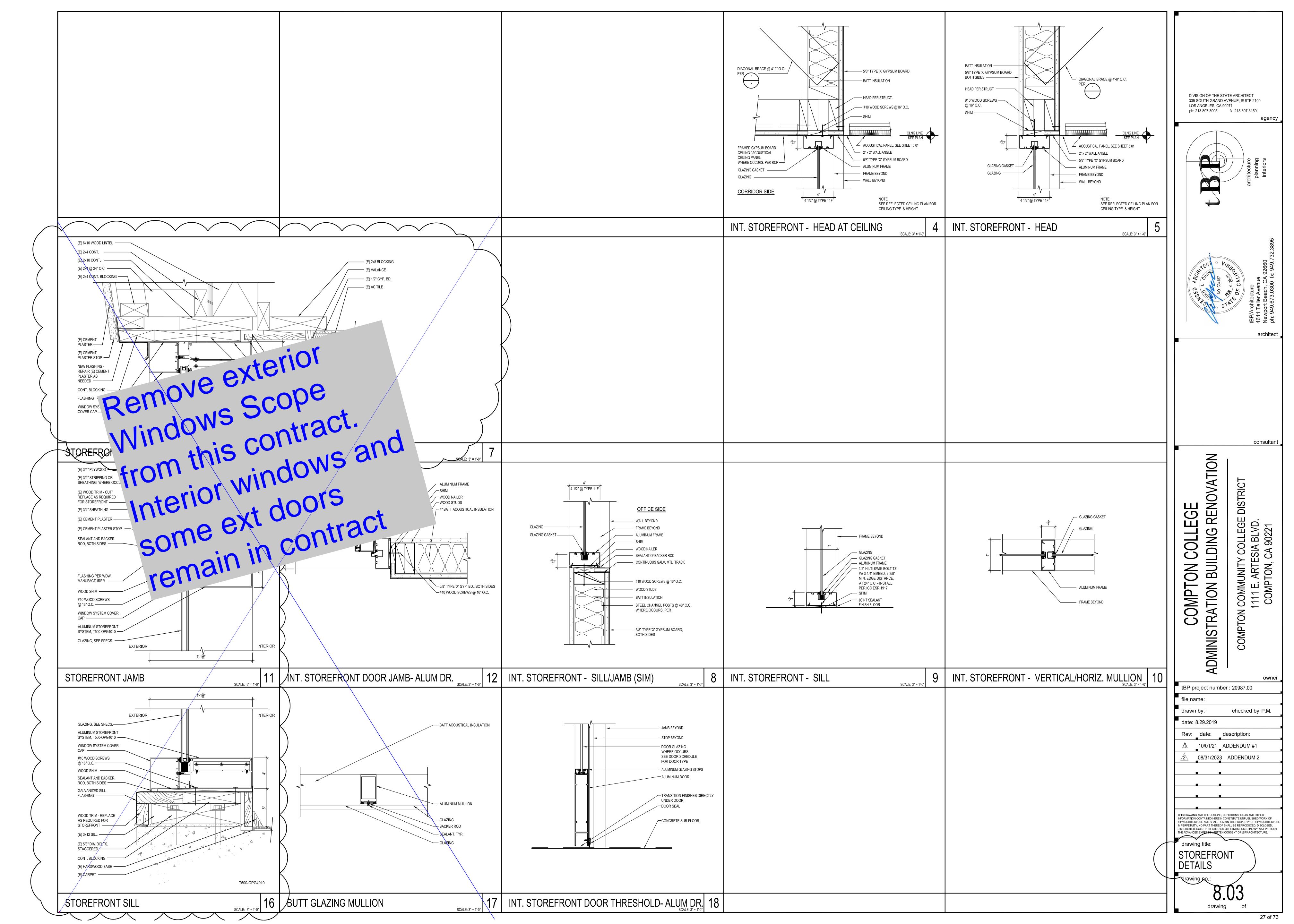












										ROOM FINISH SCHEDU	JLE								
	SPACE		FLOOR				BASE					WALLS			CEIL	INGS			
NUMBER	NAME	MATERIAL	TYPE	FINISH	COLOR	MATERIAL	HEIGHT	FINISH	COLOR	MATERIAL	TYPE	FINISH	COLOR	MATERIAL	TYPE	FINISH	COLOR	HEIGHT	REMARKS
ST FLR.																			
100	(E) LOBBY	LVT		-	LV-1/LV-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
02	(E) WOMEN'S LOUNGE	PORCELAIN TILE		F	PT-2	-	-	-	-	PORC. TILE	-		PT-1/PT-3/PT-4	GYP. BD.		GLOSS	P-1	8'-0"	
110	OPEN OFFICE	LVT		-	LV-1	RUBBER BASE	4"	F	RB-1	GYP. BD.		SATIN	P-1	(E)		SATIN	P-1	E	
111A	WAIT.	LVT		-	LV-1/LV-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
I11B	STAFF	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
112	DIR C.R.	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
113	DIR PRCH.	LVT			LV-1	RUBBER BASE	4"	F	RB-1	(EXISTING TO REMAIN))	SATIN	P-1	(E)		SATIN	P-1	8'-7"	
114	WORK/STOR	LVT			LV-1	RUBBER BASE	4"	F	RB-1	(EXISTING TO REMAIN))	SATIN	P-1	(E)		SATIN	P-1		
115	DIR ACCNT.	LVT			LV-1	RUBBER BASE	4"	F	RB-1	(EXISTING TO REMAIN))	SATIN	P-1	(E)		SATIN	P-1	8'-7"	
16	VP ADMIN	LVT			LV-1	RUBBER BASE	4"	F	RB-1	(EXISTING TO REMAIN))	SATIN	P-1	(E)		SATIN	P-1	8'-7"	
17	CONF.	LVT		-	LV-1/LV-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
118	MEN'S	PORCELAIN TILE		F	PT-2	-	-	-	-	PORC. TILE	-		PT-1/PT-3/PT-4	GYP. BD.		GLOSS	P-1	8'-0"	
120	OPEN OFC.	LVT		-	LV-1/LV-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
121	WAIT.	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
123	CONF.	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
124	TITLE IX	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
125	PRO. DEV.	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
126	OFFICE	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
27	VP HR	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-7"	
28	WORK/ STOR.	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-6"	
33	(E) JAN.	LVT		F	LV-1	RUBBER BASE	4"	F	RB-1	(EXISTING TO REMAIN))	GLOSS	P-1	(E)		GLOSS	P-1	8'-0"	
134	MAILROOM	LVT		-		RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4	F	ACP-1	8'-0"	
135	WOMEN'S	PORCELAIN TILE		F	PT-2	-	-	-	-	PORC. TILE	-		PT-1/PT-3/PT-4	GYP. BD.		GLOSS	P-1	8'-0"	

ABBREVIATIONS

ACP AGL BD CMT CMU CONC CT EPXY EXPSD F FRP GL GYP LTF MTL EP PE PF PG PF PG PNL PSG QT RESIL RTF SF SLR SV	ACOUSTICAL PANEL CEILING AGLOMMERATE TILE BOARD CERAMIC MOSAIC TILE CONCRETE MASONRY UNIT CONCRETE CERAMIC TILE EPOXY EXPOSED FACTORY FINISH FIBER REINFORCED PLASTIC PANEL GLASS GYPSUM LINOLEUM TILE FLOORING METAL EPOXY PAINT PAINT EGGSHELL PAINT FLAT PAINT GLOSS PANEL PAINT SEMI GLOSS QUARRY TILE RESILIENT RUBBER TILE FLOORING SATIN FINISH SEALER SHEET VINYL

GENERAL NOTES

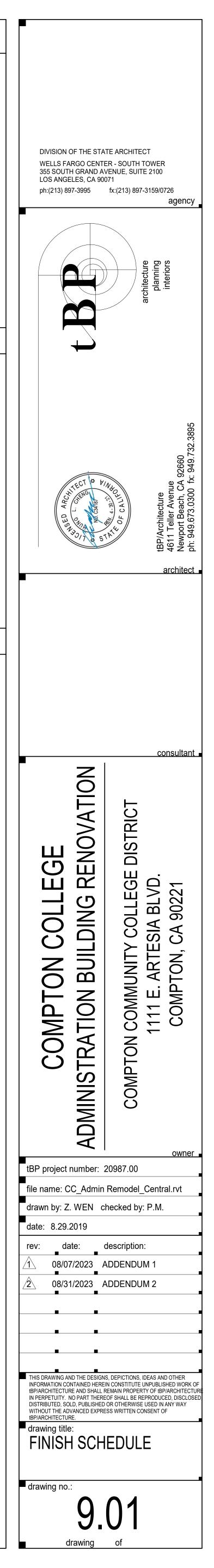
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME AND SMOKE-DEVELOPED INDEXES, REFER TO 803.1.1 (SEE EXCEPTION 803.1.2) AND CFC 803.1.

- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT PER SECTION 803.
 INTERIOR WALLS AND CEILING FINISHES SHALL BE CLASSIFIED BY OCCUPANCY PER
- TABLE 803.9 OR BE TESTED PER SECTION 803.1.2 (NFPA 286 CRITERIA).
 3. TEXTILE AND VINYL WALL COVERINGS SHALL BE TESTED PER 803.1.3 ACCEPTANCE CRITERIA OF NFPA 265, OR, PER 803.1.4 ACCEPTANCE CRITERIA TESTED TO ASTM E84 OR UL 723 CLASS A FLAME SPREAD INDEX AND PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM PER 903.1.1 OR 903.1.1.2.
- EXCEPTION: 803.2 MATERIALS LESS THAN 0.036" THICK APPLIED DIRECTLY NEED NOT BE TESTED.
- 4. INTERIOR FLOOR FINISHES SHALL COMPLY WITH SECTION 804.
- DECORATIVE TRIM & MATERIALS SHALL COMPLY WITH SECTION 806.
 THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH SECTION 719.

CALIFORNA REQUIRES ALL FABRIC USED IN PUBLIC PLACES TO BE REGISTERED WITH THE STATE FIRE MARSHAL AND COMPLY WITH TITLE 19 REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS.

FINISH SCHEDULE NOTES

- 1. EXISTING TERRAZZO FLOORING TO BE SANDED AND LEVELED TO RECEIVE NEW FLOOR FINISH. PATCH SMOOTH AND LEVEL SURFACE FOR A FINAL LIKE NEW FINISH TO RECEIVE LVT.
- 2. ALL EXISTING ITEMS ATTACHED TO WALLS MUST BE TEMPORARY REMOVED FOR PROPER REFINISH OF WALLS. THESE ITEMS WILL BE RE-INSTALLED ON WALLS BY THE GENERAL CONTRACTOR. PERMANENTLY REMOVE UNCONNECTED OR ABANDONED WIRE MOLDS FROM WALLS. PATCH AND EVEN SURFACE FOR FINAL LIKE NEW FINISH.
- 3. ALL WOOD DOORS WITHIN THE EXISTING OFFICE EAST SIDE OF THE BUILDIMG AREAS ARE TO REMAIN PROTECT IN PLACE



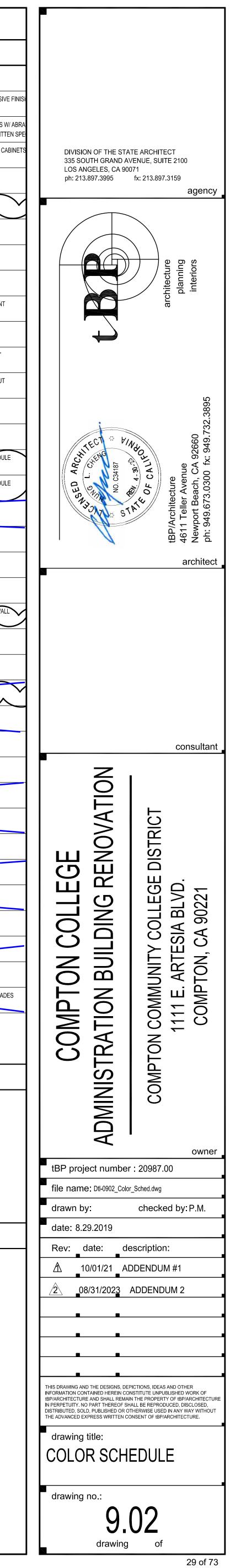


SPEC. SECTION	MATERIAL	DESIGNATION	MANUFACTURER	COLOR NO.	COLOR NAME	REMARKS
03 10 00 CONCRETE FORMS	ARCHITECTURAL CONCRETE	AC-1				
03 30 00 CAST-IN-PLACE CONCRETE	CONCRETE FLOORS - POLISHED	<u>C-1</u>				INT-CONCRETE FLOORS W/ ABRASIVE
	CONCRETE FLOORS - EXPOSED/NATL.	C-2				INT-CONCRETE TREADS/LANDINGS W/ FINISH & BROOM FINISH. SEE WRITTE!
06 41 16 ARCHITECTURAL CASEWORK	PLASTIC LAMINATE	PL-1	WILSONART	4941L-18	COSMIC STRANDZ	INT-CASEWORK, UPPER & LOWER CAB VERTICAL SURFACES
\sim	SOLID SURFACE	SSU-1	FORMICA SOLID SURFACING	775	LUNA STORM	INT-CASEWORK COUNTERTOPS
98 14 16 FLUSH WOOD DOORS		WD-1	SHERMIN WILLIAMS		MATCH FORMICA CHERRY BIRCH	
09 30 13 TILE	PORCELAIN TILE	PT-1	DALTILE FABRIQUE	P685	BLANC LINEN (12"X24")	INT-RESTROOM WALL TILE, FIELD
	PORCELAIN TILE	PT-2	DALTILE FABRIQUE	P690	GRIS LINEN (12"x24")	INT-RESTROOM FLOOR TILE
	PORCELAIN TILE	PT-3	DALTILE FABRIQUE	P685	GRIS LINEN (6"X24")	INT-RESTROOM WALL TILE, FIELD
	PORCELAIN TILE	PT-4	DALTILE FABRIQUE	P689	NOIR LINEN (6"x24")	INT-RESTROOM WALL TILE, ACCENT
	ALUMINUM COVE TRIM	ACT-1	SCHLUTER SYSTEMS DILEX AHK	-	SATIN ANODIZED ALUMINUM	INT-RESTROOM
	GROUT	G-1	MAPEI	103	COBBLESTONE	INT-RESTROOM WALL TILE GROUT LOBBY FLOOR TILE GROUT
	GROUT	G-2	MAPEI	19	PEARL GRAY	INT-RESTROOM FLOOR TILE GROUT
09 51 13	ACOUSTICAL CEILING PANELS	(ACP-1)	ARMSTRONG		WHITE	INT-LOBBY/ OFFICE AREAS
ACOUSTICAL CEILING PANELS 09 65 13	RUBBER BASE	(RB-1)	CIRRUS SECOND LOOK JOHNSONITE	20	CHARCOAL	SEE WRITTEN SPECIFICATIONS
DESILIENT BASE	LVT	LVT-1	TRADITIONAL WALL BASE Collection: ID Latitude. Style: PLST		Hearthstone. Emboss: QU 18x18.	OFFICE AREAS SEE FINIS SCHEDULE
			Latitude Stone. Collection: ID Latitude. Style: PLST	1242		OFFICE AREAS SEE FINISH SCHEDULE
	\sim \sim		Latitude Stone.		\wedge	$\wedge \wedge$
09 68 13 TILE CARPETING			TANDUS ISO 04536	48201	WIRED	INT-OFFICE CARPET VERTICAL ASHLAR INSTALLATION
09 90 00 PAINT	PAINT	P-1	DUNN EDWARDS	DE6232	ABSTRACT WHITE	INT-WALLS (FIELD)
	PAINT	P-2	DUNN EDWARDS	DE6226	FOGGY DAY	EXT-WALLS
		P-3	DUNN EDWARDS	DE6353	SILVER LINED	WINDOW FRAME
	PAINT		DUNN EDWARDS	DEA152	DEEP CRIMSON	MITERIOR SIGN LETTER ON THE WALL
09 93 00 STAINING & TRANSPARENT FINIS	WOOD STAIN	<u>S-2</u>	SHERWIN WILLIAM MINWAX	SW 3127	CULINARY CREAM	SEE WRITTEN SPECIFICATIONS
	WOOD STAIN	S-1	SHERWIN WILLIAM	MW232	RED CHESTNUT	SEE WRITTEN SPECIFICATIONS
	WOOD STAIN	ES-1	SHERWIN WILLIAM MINWAX	-	MATCH BOARD ROOM	SEF WRITTEN SPECIFICATIONS
			SHERWIN WILLIAM			SEE WRITTEN SPECIFICATIONS
09 96 00	EXTER. HIGH PERFORMANCE COATING	ES-2	TNEMEC			SEE WRITTEN SPECIFICATIONS
HIGH PERFORMANCE COATINGS		(HP-1)		41 MT	SILVER	
10.44.00	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES					SEE WRITTEN SPECIFICATIONS
10 11 00 visual display units	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD		CLARIDGE CONCEPT	No. 100	I CS WHITE	INT
	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES	HP-2	CLARIDGE	No. 100 1113	LCS WHITE STEEL GRAY	
	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD	HP-2 MB-1	CLARIDGE CONCEPT CLARIDGE			INT
VISUAL DISPLAY UNITS	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED	(HP-2) (MB-1) (TB-1)	CLARIDGE CONCEPT CLARIDGE CONCEPT		STEEL GRAY	INT
VISUAL DISPLAY UNITS 10 12 00 DISPLAY CASES 10 14 19	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED DISPLAY CASE DIMENSIONAL CHARACTERS	HP-2 MB-1 TB-1 DC-1	CLARIDGE CONCEPT CLARIDGE CONCEPT		STEEL GRAY CHAMPAGNE	INT INT SEE WRITTEN SPECIFICATIONS
VISUAL DISPLAY UNITS 10 12 00 DISPLAY CASES 10 14 19	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED DISPLAY CASE DIMENSIONAL CHARACTERS STAINLESS STEEL DIMENSIONAL LETTER SIGNAGE ALUMINUM TOILET COMPARTMENTS	HP-2 MB-1 TB-1 DC-1	CLARIDGE CONCEPT CLARIDGE CONCEPT		STEEL GRAY CHAMPAGNE	INT INT SEE WRITTEN SPECIFICATIONS SEE WRITTEN SPECIFICATIONS
VISUAL DISPLAY UNITS 10 12 00 DISPLAY CASES 10 14 19 DIMENSIONAL LETTER SIGNAGE 10 21 13.17	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED DISPLAY CASE DIMENSIONAL CHARACTERS STAINLESS STEEL DIMENSIONAL LETTER SIGNAGE ALUMINUM TOILET COMPARTMENTS	HP-2 MB-1 TB-1 DC-1 -	CLARIDGE CONCEPT CLARIDGE CONCEPT WADDELL FURNITURE BOBRICK	1113	STEEL GRAY CHAMPAGNE STAINI ESS STEEL, NO. 4	INT INT SEE WRITTEN SPECIFICATIONS SEE WRITTEN SPECIFICATIONS SEE WRITTEN SPECFICATIONS
VISUAL DISPLAY UNITS 10 12 00 DISPLAY CASES 10 14 19 DIMENSIONAL LETTER SIGNAGE 10 21 13.17 PHENOLIC CORE TOILET COMPARTMENT 11 52 13 PROJECTION SCREENS 12 24 00	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED DISPLAY CASE DIMENSIONAL CHARACTERS STAINLESS STEEL DIMENSIONAL LETTER SIGNAGE ALUMINUM TOILET COMPARTMENTS	HP-2 MB-1 TB-1 DC-1 - - TC-1	CLARIDGE CONCEPT CLARIDGE CONCEPT WADDELL FURNITURE BOBRICK SIERRA SERIES 1092G.67P	1113	STEEL GRAY CHAMPAGNE STAINI ESS STEEL, NO. 4	INT INT SEE WRITTEN SPECIFICATIONS SEE WRITTEN SPECIFICATIONS INT
VISUAL DISPLAY UNITS 10 12 00 DISPLAY CASES 10 14 19 DIMENSIONAL LETTER SIGNAGE 10 21 13.17 PHENOLIC CORE TOILET COMPARTMENT 11 52 13 PROJECTION SCREENS	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES MARKER BOARD TACKBOARDS ALUMINUM SURFACE MOUNTED DISPLAY CASE DIMENSIONAL CHARACTERS STAINLESS STEEL DIMENSIONAL LETTER SIGNAGE ALUMINUM TOILET COMPARTMENTS PROJECTION SCREENS	HP-2 MB-1 (TB-1) (DC-1) (D	CLARIDGE CONCEPT CLARIDGE CONCEPT WADDELL FURNITURE BOBRICK SIERRA SERIES 1092G.67P	1113	STEEL GRAY CHAMPAGNE STAINI ESS STEEL, NO. 4 FOREST GREEN	INT INT SEE WRITTEN SPECIFICATIONS SEE WRITTEN SPECIFICATIONS INT INT -

TYPICAL FINISH NOTES

1. SUBMIT MANUFACTURER'S STANDARD COLORS FOR COLOR SELECTION

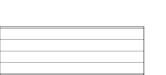
2. ALL INTERIOR FINISHES SHALL COMPLY W/ THE FLAME SPREAD AND SANITATION REQUIREMENTS OF CHAPTER 8, C.B.C.







PORCELAIN TILE: PT-2

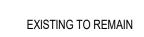


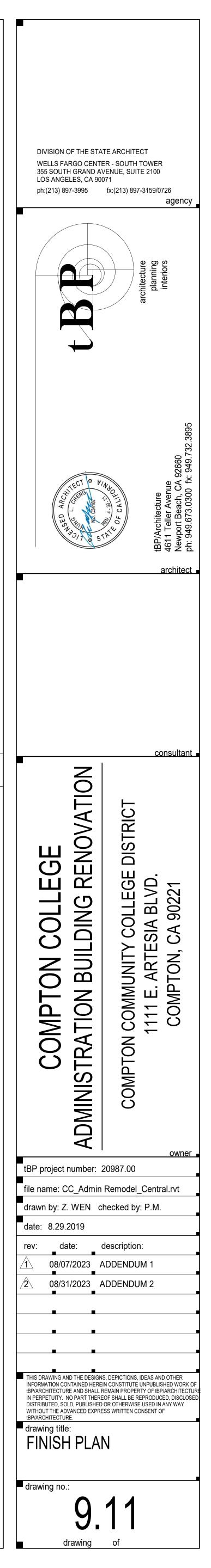


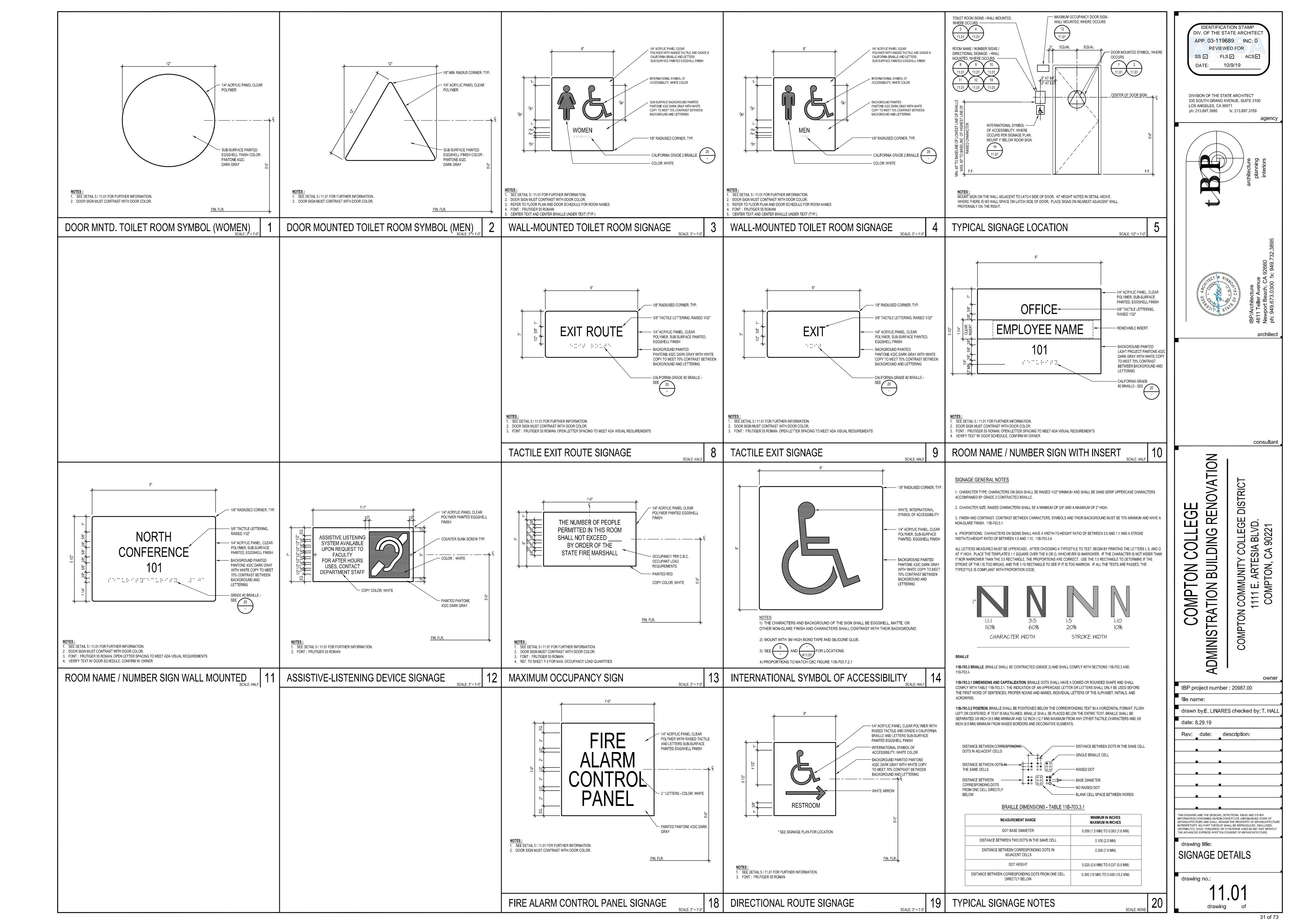


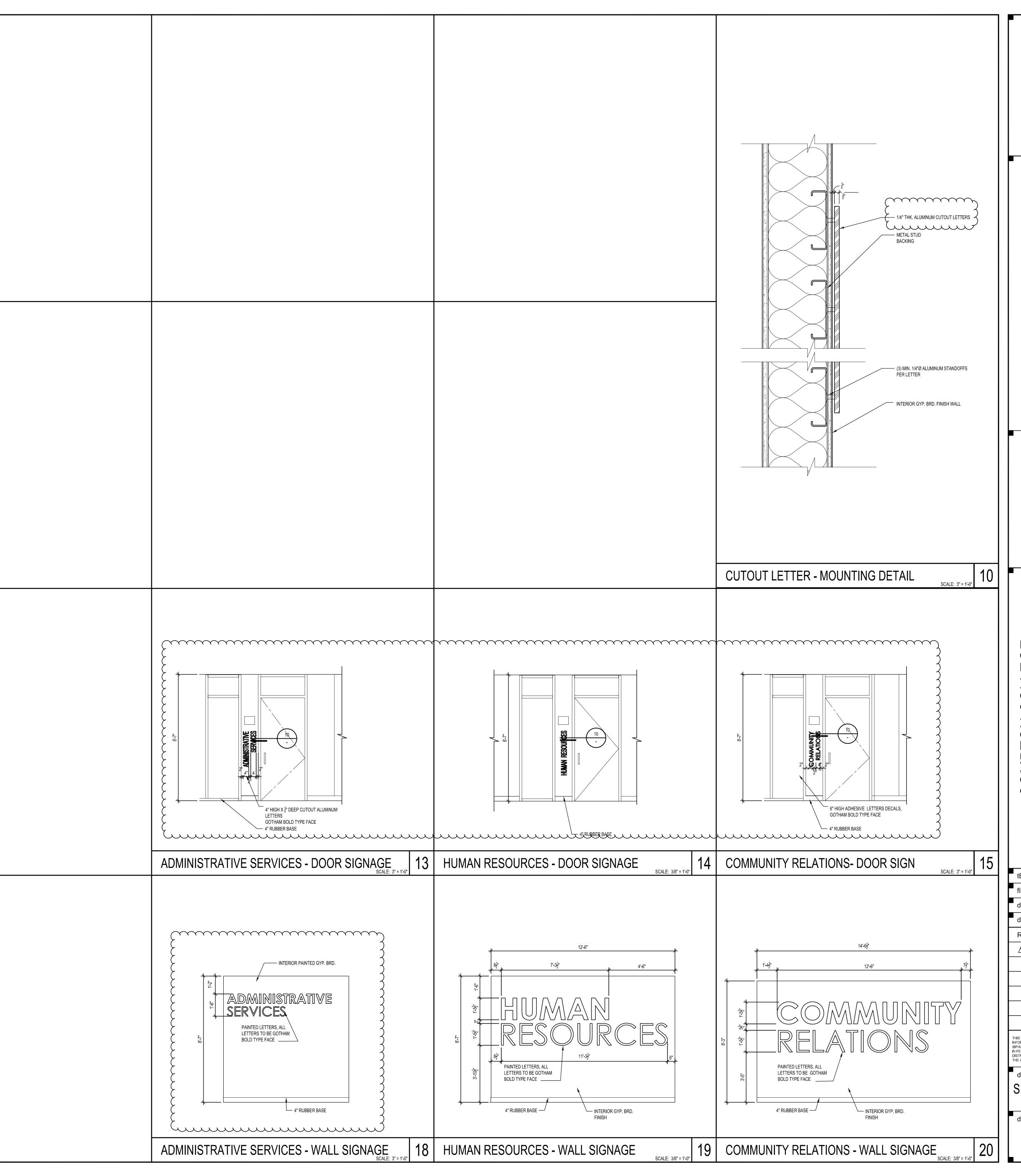
LVT-2

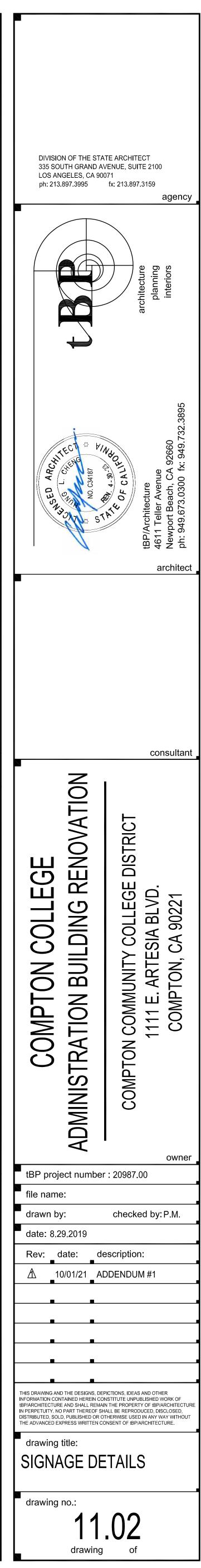
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GENERAL NOTES

- DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
- CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
- REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS.
- 4. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR STRUCTURAL ENGINEER OF RECORD (SEOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS: OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
- SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION

STRUCTURAL DESIGN CRITERIA:

- 1. CODES: ALL WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2016 EDITION, INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 2. SEISMIC DESIGN INFORMATION: I = 1.25 OCCUPANCY CAT. III SITE CLASS D DESIGN PROCEDURE: EQUIVALENT LATERAL FORCE PRICEDURE $S_s = 1.674$ $S_1 = 0.611$ $S_{DS} = 1.116$ $S_{D1} = 0.611$ SEISMIC DESIGN CATEGORY = D 3. WIND DESIGN INFORMATION:

OCCUPANCY CAT. III BASIC WIND SPEED V_{fm} = 115 MPH (3 SEC GUST) EXPOSURE C INTERNAL PRESSURE COEFF. = +/- 0.18

EXISTING CONDITIONS NOTES

- . FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
- 2. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
- 3. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED.
- 4. ALL EXISTING (E) CONNECTIONS AT ELEMENTS TO BE REPLACED SHALL BE REPLACED OR RE-ATTACHED TO MATCH EXISTING CONDITIONS. 5. VERIFY LOCATION OF EXISTING (E) REBAR BEFORE FABRICATION USING
- NON-DESTRUCTIVE TESTING. 6. SPECIAL INSPECTION IS REQUIRED FOR ALL WORK.
- 7. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING DESIGN FOR ITEMS NOT SHOWN OR NOTED.
- 8. CORE DRILLS REQUIRED SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE IOR FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.

EXISTING UNDERGROUND UTILITY NOTES:

- THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

REINFORCING STEEL NOTES: 1. REINFORCING GRADES FOR CONCRETE OR MASONRY:

- A. ALL BARS EXCEPT THOSE TO BE WELDED ... B. TIES AND STIRRUPS
- WELDED WIRE FABRIC D. ALL BARS TO BE WELDED .
- MAINTAIN MINIMUM CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

	ION					
CONCRETE POURED AGAINST EARTH						
CONCRETE POURED IN FORMS AND						
EXPOS	ED TO WEATHER OR EARTH					
	- #6 BARS AND LARGER					
	- #5 BARS AND SMALLER					
STRUCTURAL SLABS ON GRADE						
	- FROM BOTTOM OF SLAB					
	- FROM TOP OF SLAB					

OTHER CONCRETE NOT EXPOSED TO WEATHER OR EARTH FOR #11 BARS AND SMALLER

PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE

- 3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24" OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS.
- 4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS. WALL FOOTINGS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
- 5. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.
- 6. BEND REINFORCING BARS COLD.
- 7. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST. 8. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME
- GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.
- 9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
- 10. CHAIRS OR SPACERS FOR REINFORCING SHALL BE NON-FERROUS OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES

STRUCTURAL CONCRETE NOTES: 1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, 2014 EDITION, AND PROJECT SPECIFICATIONS.

- 2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
- CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING CONCRETE. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL BY THE EOR PRIOR TO PLACING ANY CONCRETE.

•	STRUCTURAL CONCRETE S	HALL MEET T	HE FOLL	OWING DES	IGN CRIT	ERIA:
	LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE ^ª	MAX AGGR. SIZE	MAX W/C RATIO	MAX SLUMP [♭]
	FOUNDATION	4000 PSI	NWC	1"	0.45	4"
	SLAB ON GRADE	4000 PSI	NWC	1"	0.45	4"
	ALL OTHER STRUCTURAL CONCRETE NOT NOTED	4000 PSI	NWC	1"	0.50	6"

- ABOVE a. MAXIMUM DRY WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 115 PCF. UNLESS APPROVED BY SEOR. b. SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS.
- c. USE TYPE II / TYPE V CEMENT. 5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LAB STAMPED AND SEALED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES
- SHALL CONSIST OF 5 SACK MINIMUM UNO. 6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
- 7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE SEOR.
- 8. PORTLAND CEMENT SHALL BE TYPE II FOR ALL CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
- 9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 5.3.
- 11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS

OF CEMENT PER CUBIC YARD OF CONCRETE.

- 12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2 TIMES THE SUPPORTING CONCRETE STRENGTH, AND SHALL BE OF MASTERFLOW 713, FIVE STAR GROUT, SIKA GROUT 212, EMBECO 636, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL
- 13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
- 14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.
- 15. FOR INTERIOR SLABS-ON-GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.45. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECIEVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
- 16. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR
- 17. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.
- 18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER, UNO.

.. ASTM A615, GRADE 60 ASTM A615, GRADE 60 ASTM A185 . ASTM A706, GRADE 60

COVER	
3"	
2"	
1 1/2"	
2"	
1 1/2"	
3/4"	

10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.

- FOUNDATION AND SLAB ON GRADE NOTES: ALLOWABLE SOIL PRESSURES FOR FOOTINGS (MIN.VALUES USED PER 2016 CBC): VERTICAL BEARING PRESSURE ... 1500 PSF (PAD)
- 1500 PSF (CONTINUOUS) CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING IS NOT PERMITTED.
- 4. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
- COMPACTED FILL SHALL HAVE IN-PLACE DRY DENSITY IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. THE COMPACTING SHALL BE VERIFIED BY SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705.6.

HIGH-STRENGTH BOLT NOTES

- 1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION. 2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- 3. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.
- 4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
- SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING.
- HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". SLIP CRITICAL BOLTS (SC) SHALL BE USED FOR ALL "LATERAL FORCE RESISTING SYSTEM" (LFRS) MEMBER STEEL-TO-STEEL CONNECTIONS. TIGHTEN SLIP CRITICAL BOLTS USING ONE OF THE FOLLOWING: TWIST-OFF BOLTS, TENSION CONTROL CALIBRATED WRENCH OR DIRECT TENSION INDICATORS. HIGH STRENGTH BOLTS NOT IN THE SLRS MAY BE INSTALLED SNUG TIGHT.

STRUCTURAL STEEL NOTES:

- DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE 14TH EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".
- ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.

PRC	PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:				
STI					
Α.	ALL WIDE FLANGE SECTIONS	ASTM A992			
В.	SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F _y =46 KSI)			
C.	ROUND HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F _y =42 KSI)			
D.	PIPES	ASTM A53 TYPE E OR S, GRADE B, (F _y =35 KSI)			
E.	PLATES, ANGLES, CHANNELS & TEES	ASTM A36			
F.	MOMENT FRAME BASE PLATES	ASTM 572, GRADE 50			
G.	MACHINE BOLTS (MB)	ASTM A307			
Н.	HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N, A490			
١.	WELDED HEADED STUDS	ASTM A108			
J.	THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 36			

- 1/8" THICK PLATES AND THICKER SHALL BE GAS CUT OR SAW CUT EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS. EXCEPT OTHERWISE NOTED, ALL BOLT HOLES SHALL BE STANDARD HOLES.
- 5. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY SEOR PRIOR TO FABRICATION.
- ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED (IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BY CERTIFIED WELDERS) SO AS TO FULLY DEVELOP THE TENSILE CAPACITY OF THE CONNECTOR.
- 7. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.
- 8. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR. 9. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT UNO. STAINLESS AND WEATHERING STEELS ARE EXCEPTED WHERE SPECIFIED.
- 10. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS. WHERE STEEL IS EMBEDDED IN CONCRETE OR MASONRY, PROVIDE HOLES AS REQUIRED FOR PASSAGE OF CONTINUOUS REINFORCING BARS WHERE INDICATED ON DRAWINGS. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT PRIOR APPROVAL OF SEOR.
- 11. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
- 12. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASE PLATES AND ALLOW TO CURE BEFORE APPLYING LOADS. 13. ALL OPEN HSS ENDS SHALL BE CAPPED. MIN. 1/4" STL CAP.

WELDING NOTES

WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1, D1.8 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

- ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
- PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE SEOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH AWS D1.1-D1.4 & D1.8 CURRENT EDITION.
- WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT -20°F AND 40 FT-LB AT 70°F. SEE AISC 341-10 SECTION A3.4B FOR ADDITIONAL REQUIREMENTS.
- ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS) SHALL CONFORM TO THE DETAILING, MATERIALS. WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS PER AWS D1.8 AND MUST HAVE A MIN. CVN TOUGHNESS OF 20 FT-LB @ 0°F PER AISC 341 A3.45B.
- WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 & D1.8 USING E70XX ELECTRODES UNLESS OTHERWISED NOTED. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AWS D1.4 USING
- E90XX ELECTRODES. WELDING OF METAL DECK AND LIGHT GAGE STEEL SHALL BE IN ACCORDANCE
- WITH AWS D1.3. 9. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1
- & AISC 341 J6.2. 10. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
- 11. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
- (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10. 12. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

COLD-FORMED STEEL FRAMING NOTES:

- DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". LATEST EDITION. INCLUDING ALL APPLICABLE AMENDMENTS.
- 2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
- 3. COLD-FORMED STEEL GRADES: A. 18 GA (43 MILS) OR THINNERASTM A1003 GRADE 33 (FY = 33 KSI)
- B. 16 GA (54 MILS) AND THICKERASTM A1003 GRADE 50 (FY = 50 KSI) 4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY
- SECTION D3 OF THE AISI SPECIFICATION.
- 5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE SEOR FOR REVIEW PRIOR TO FABRICATION.
- 6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS.
- 7. ALL HOLES FOR BOLTS SHOULD BE SHALL BE STANDARD HOLES.

ROUGH CARPENTRY/ WOOD NOTES:

- 1. ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED.
- 2. DOUGLAS FIR (DF) SHALL BE GRADED BY THE WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES, AND ASTM D245.
- 3. REDWOOD SHALL BE GRADED BY THE CALIFORNIA REDWOOD ASSOCIATION. REDWOOD INSPECTION SERVICE.
- 4. SILL PLATES SHALL BE PRESSURE-TREATED (PT) DOUGLAS FIR #2. REDWOOD IS PERMITTED WITH SEOR APPROVAL.
- 5. NON-LOAD BEARING STUDS, TOP PLATES, BLOCKING, F BRACING SHALL BE ... JOISTS, RAFTERS, PURLINS, BEAMS & POSTS SHALL BE LOAD BEARING STUDS SHALL BE ..
- 6. MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 18% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.
- 7. TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.
- 8. SILL PLATES SHALL BE PRESSURE-TREATED AND SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 32" OC MAX, UNO WITH A BOLT BETWEEN 6" TO 9" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OUT OVER ONE-THIRD OF CROSS-SECTION.
- 9. ANCHOR BOLTS FOR NON-STRUCTURAL WALLS SUPPORTED ON SLABS SHALL HAVE 3 1/2" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
- 10. ANCHOR BOLTS FOR STRUCTURAL WALLS SHALL HAVE 12" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
- 11. STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT WALL AND PARTITION INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
- 12. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".
- 13. ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB.
- 14. HOLES IN WOOD FOR LAG SCREW SHANK SHALL BE BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK, AND FOR THE THREADED PORTION BORED WITH A BIT NOT LARGER THAN THE BASE OF THREADS.
- 15. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED IN MAIN MEMBERS AND SIDE PLATES. BOLTS SHALL NOT BE FORCIBLY DRIVEN.
- 16. METAL FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY (CURRENT CATALOG), OR "USP" WITH EQUIVALENT ICC PUBLISHED VALUES AND SHALL BE INSTALLED PER SPECIFICATIONS, NO EXCEPTIONS.
- 17. INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACE AT THE HEAD CONDITION.
- 18. STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. STANDARD CUT WASHERS MAY BE USED IN ALL CASES EXCEPT SILL PLATES AND WOOD LEDGERS AGAINST CONCRETE OR MASONRY. NOTE, WASHERS UNDER CARRIAGE BOLT HEADS SHALL BE LARGE ENOUGH TO ALLOW FOR SQUARE SHOULDERS.

19. FOR PLATE WASHERS AT SILL PLATES SEE DETAIL BELOW. HOLES IN PLATE WASHERS SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4" GIVEN THAT A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.

BOLT DIAMETE	R AT 2x4 WALL	AT 2x6 WALL
1/2"	2 1/2" x 2 1/2" x 1/4"	4 1/2" x 3" x1/4
5/8"	2 1/2" x 2 1/2" x 1/4"	4 1/2" x 3" x 1/4"
3/4"	2 1/2" x 2 1/2" x 5/16"	4 1/2" x 3" x 5/16"
7/8"	2 1/2" x 2 1/2" x 3/8"	4 1/2" x 3" x 3/8"
1"	2 1/2" x 2 1/2" x 3/8"	4 1/2" x 3" x 3/8"

STATEMENT OF SPECIAL INSPECTIONS:

- 1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE DSA AND SEOR (VIA DSA FORM 5PI), FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 2. NOT USED.

7. NOT USED.

- 3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR. THE FINAL
- REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. 5. IT IS SOLELY THE I.O.R. AND THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
- 6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.

URRING AND
DF #2
DF #1 (UNO)

...DF #1

8. REFER TO DSA 103 SPECIAL INSPECTION FORM FOR ALL TEST AND INSPECTION REQUIRED. AS WELL AS CALIFORNIA BUILDING CODE CHAPTER 17A.

NAILING SCHEDULE

(UNLESS OTHERWISE NOTED ON PLANS) NAIL SPACING TO BE NOT LESS THAN REQUIRED PENETRATION. EDGE AND END DISTANCES SHALL BE NOT LESS THAN HALF THIS SPACING. ALL SPACING AND EDGE AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS. COMMON OR BOX NAILS MAY BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (U.N.O.). FOR ALL CONNECTIONS OTHERWISE NOTED OR DETAILED ON PLANS, COMMON NAILS SHALL BE USED (SEE SCHEDULE BELOW).

NAIL SCHEDULE (COMMON NAILS)

SIZE	DIAMETER (IN)	LENGTH (IN)					
8d	0.131	$2\frac{1}{2}$					
10d	0.148	3					
12d	0.148	3 1/4					
16d	0.162	3 1/2					
20d	0.192	4					

SHORTENED 10d COMMON NAILS MAY BE USED TO FASTEN WOOD STRUCTURAL PANELS UNO. USE THE FOLLOWING MINIMUM LENGTHS: 10d x 2 $\frac{1}{4}$ " FOR $\frac{15}{32}$ " OR THINNER PANELS, 10d x 2 %" FOR $1\%_2$ " PANELS, AND FULL LENGTH FOR %" OR THICKER PANELS

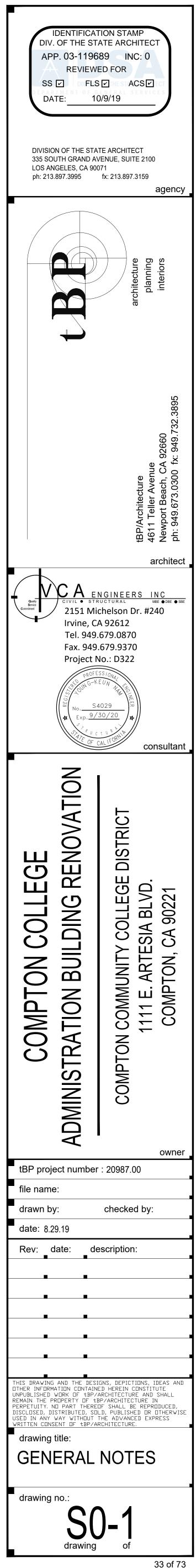
	TABLE 2304.10.1 FASTENING SCHEDULE		
	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	WALL		
1	STUD TO STUD (NOT A BRACED WALL PANELS)	16d	24" O.C. FACE NAIL
2	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d	16" O.C. FACE NAIL
3	BUILT-UP HEADER (2" TO 2"HEADER)	16d	16" O.C. EACH EDGE, FACE NAIL
4	CONTINUOUS HEADER TO STUD	(4) 8d	TOENAIL
5	TOP PLATE TO TOP PLATE	16d	16" O.C. FACE NAIL
6	TOP PLATE TO TOP PLATE, AT END JOINTS	(8) 16d	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
7	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d	16" O.C. FACE NAIL
8	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2) 16d	16" O.C. FACE NAIL
0		(4) 8d	TOENAIL
9	STUD TO TOP OR BOTTOM PLATE	(2) 16d	END NAIL
10	TOP OR BOTTOM PLATE TO STUD	(2) 16d	END NAIL
11	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2) 16d	FACE NAIL
12	1" BRACE TO EACH STUD AND PLATE	(2) 8d	FACE NAIL
13	1"x6" SHEATHING TO EACH BEARING	(2) 8d	FACE NAIL
14	1"x8" AND WIDER SHEATHING TO EACH BEARING	(3) 8d	FACE NAIL

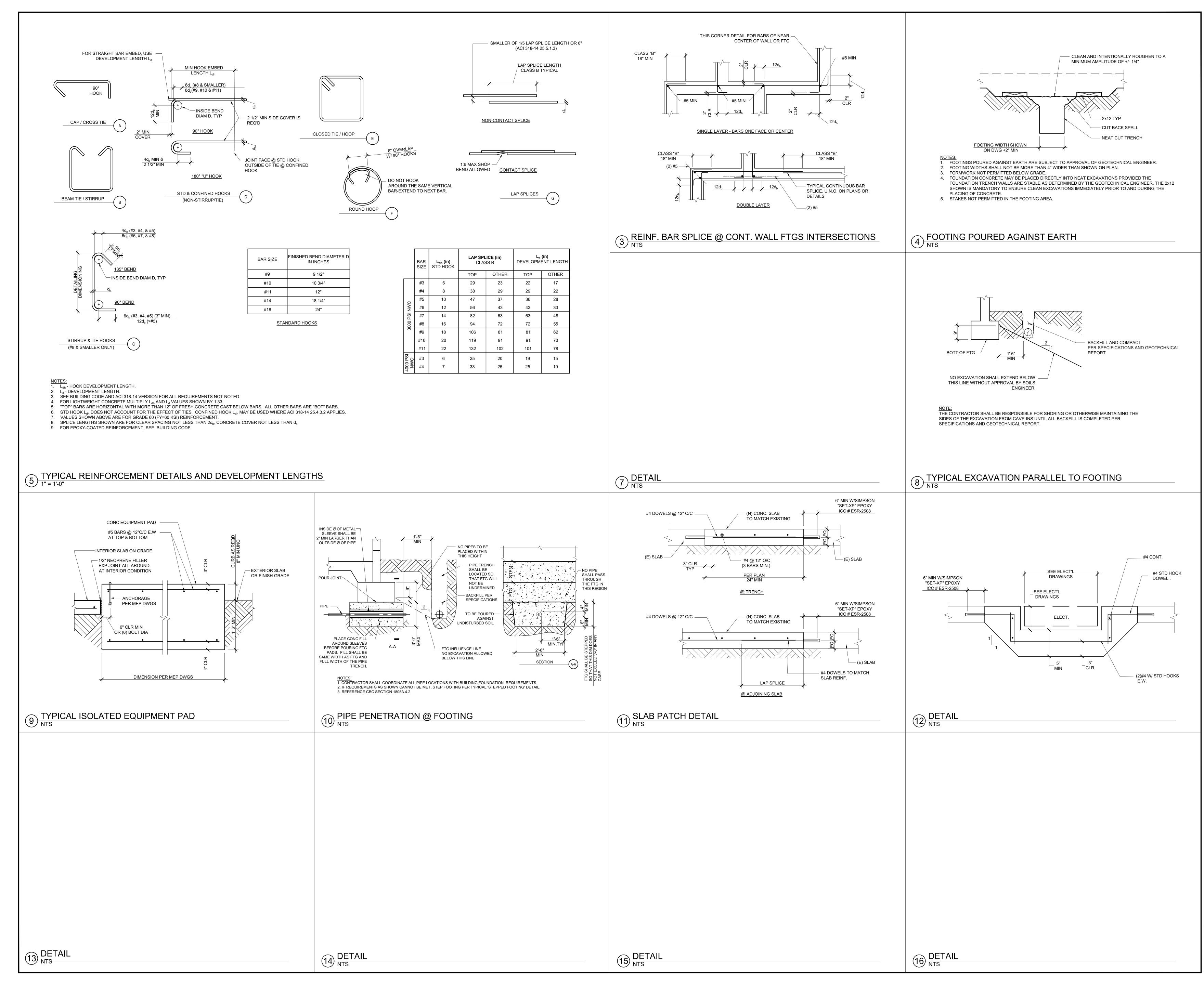
a, NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE, FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING

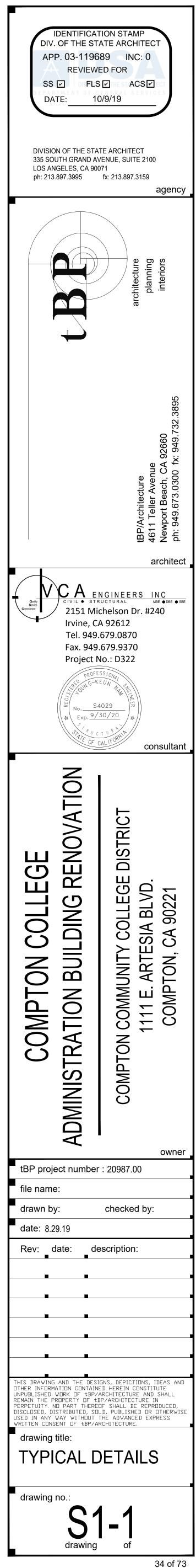
b. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL UNLESS OTHERWISE MARKED).

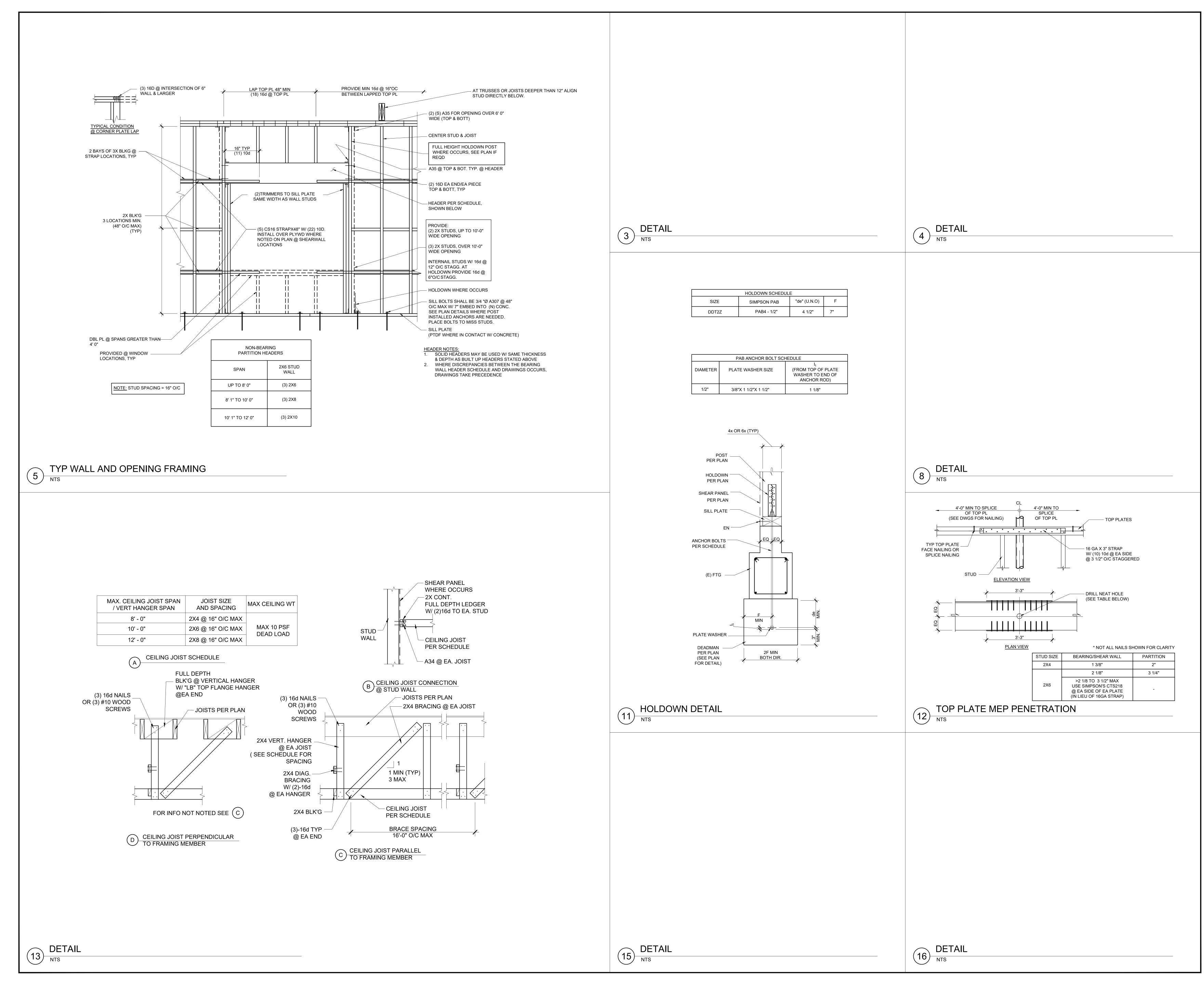
c. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE NUMBER OF TOENALS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

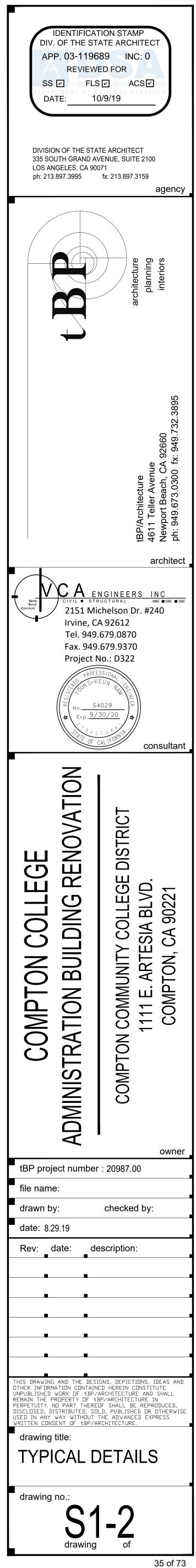
T	YPICAL ABBR	EVIA	TIONS
AB	ANCHOR BOLT	INT	INTERIOR
ABV	ABOVE	JST	JOIST
ADD I'L ADJ	ADDITIONAL ADJACENT	KLF KSL	KIPS PER LINEAR FOOT KIPS PER SQUARE FOOT
ADJ		KSL	KIPS PER SQUARE FOOT
ALT		L	ANGLE
ARCH		LFRS	LATERAL FORCE
BLDG	BUILDING		RESISTING SYSTEM
BLKG	BLOCKING	LLH	LONG LEG HORIZONTAL
BLW BM	BELOW BEAM	LLV	LONG LEG VERTICAL
BN	BOUNDARY NAILING	LP LWC	LOW POINT LIGHTWEIGHT
B.O.	BOTTOM OF	LIVO	CONCRETE
BOTT	BOTTOM	MAX	MAXIMUM
BRG	BEARING	MB	MACHINE BOLT
BS	BOTH SIDES	MECH	MECHANICAL
BTWN C	BETWEEN CAMBER	MFR MIN	MANUFACTURER MINIMUM
CIP	CAST IN PLACE	MTL	METAL
CJ	CONTROL/	(N)	NEW
	CONSTRUCTION JOINT	ŇŚ	NEAR SIDE OR
CL	CENTERLINE		NON-SHRINK
CLR	CLEAR	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY	NWC	NORMAL WEIGHT CONCRETE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	0.F.	OUTSIDE FACE
CONN		ОН	OPPOSITE HAND
CONT	CONTINUOUS	OPNG	OPENING
CP	COMPLETE	PDF	POWDER DRIVEN
CSK	PENETRATION COUNTERSINK	PJ	FASTENER PANEL JOIST
	CENTER(ED)	PJ PL	PLATE
D_{B}	BAR OR BOLT DIAMETER	PLC(S)	PLACE(S)
DBL	DOUBLE	PLF	POUND PER LINEAR
DEMO	DEMOLITION		FOOT
DET	DETAIL	PLYWD	PLYWOOD
DIA DIAG	DIAMETER DIAGONAL	PREFAB PSF	PREFABRICATED POUND PER SQUARE
DIM	DIMENSION	FOI	FOOT
DO	DITTO	PSI	POUND PER SQUARE
	DRAWING		INCH
()	EXISTING	PT	PRESSURE TREATED OR
EA EF	EACH EACH FACE	OTV	POST TENSION
EF	EXPANSION JOIST	QTY RAD, R	QUANTITY RADIUS
	EMBEDMENT	REF	REFERENCE
ELEC	ELECTRICAL	REINF	REINFORCING
ELEV	ELEVATION		REQUIRED
	EDGE NAILING	SB	SILL BOLT
	EDGE OF ENGINEER OF RECORD	SC	SAW CUT OR SLIP CRITICAL
EQ	EQUAL	SCHED	SCHEDULE
	EQUIPMENT	SEOR	STRUCTURAL ENGINEER
ES	EACH SIDE OR EDGE		ON RECORD
	SCREW	SHTG	SHEATHING
EW	EACH WAY	SIM	SIMILAR
	EXPANSION EXTERIOR	SMS SN	SHEET METAL SCREW SILL NAIL
FIN	FINISH	SOG	SLAB ON GRADE
FLR	FLOOR	SQ	SQUARE
FN	FIELD NAILING	SS	STAINLESS STEEL
FND	FOUNDATION	STD	STANDARD
F.O. FS	FACE OF FAR SIDE OR FIELD	STGRD	STAGGERED STIFFENER
гJ	SCREW	STL	STEEL
FRMG	FRAMING		STRUCTURAL
FT	FOOT OR FEET		TOP AND BOTTOM
FTG	FOOTING	THK	THICK
G	GIRDER	T.O.	TOP OF
GALV	GAGE GALVANIZED	TOM TOS	TOP OF MASONRY TOP OF STEEL
HAB	HEADED ANCHOR BOLT	TYP	TYPICAL
HD	HOLDDOWN	UNO	UNLESS NOTED
HDR	HEADER		OTHERWISE
HGR	HANGER	VERT	VERTICAL
	HOOK	W/	WITHOUT
HORIZ HP	HORIZONTAL HIGH POINT	W/O WF	WITHOUT WIDE FLANGE
HS	HIGH STRENGTH	WLD	WELDED
HSS	HOLLOW STRUCTURAL	WO	WHERE OCCURS
	STEEL	WP	WORK POINT
HT	HEIGHT	WT	
IN Ø = DIAI	INCH		WELDED WIRE FABRIC ATION OR WORK POINT
υ – DIAI			

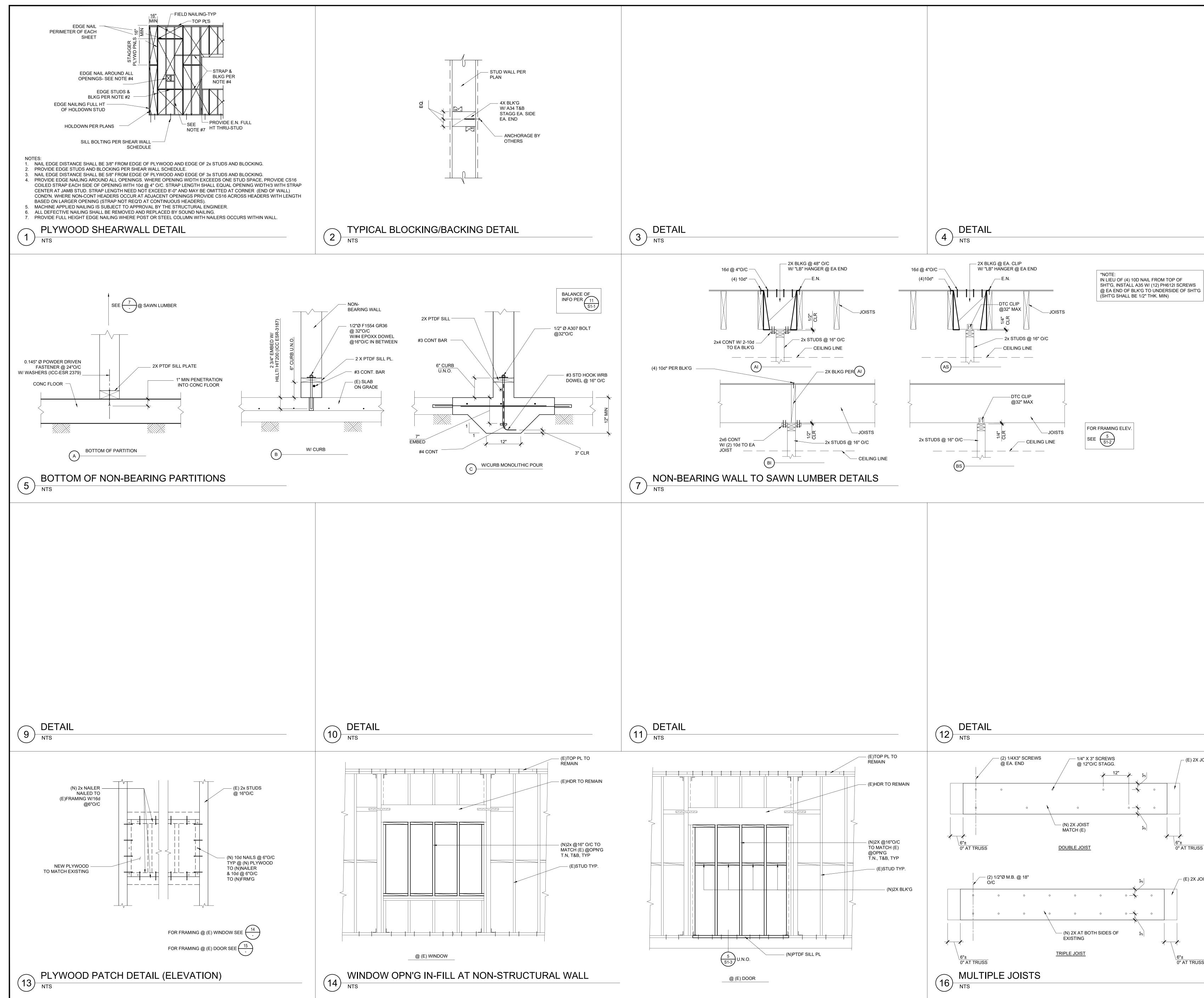


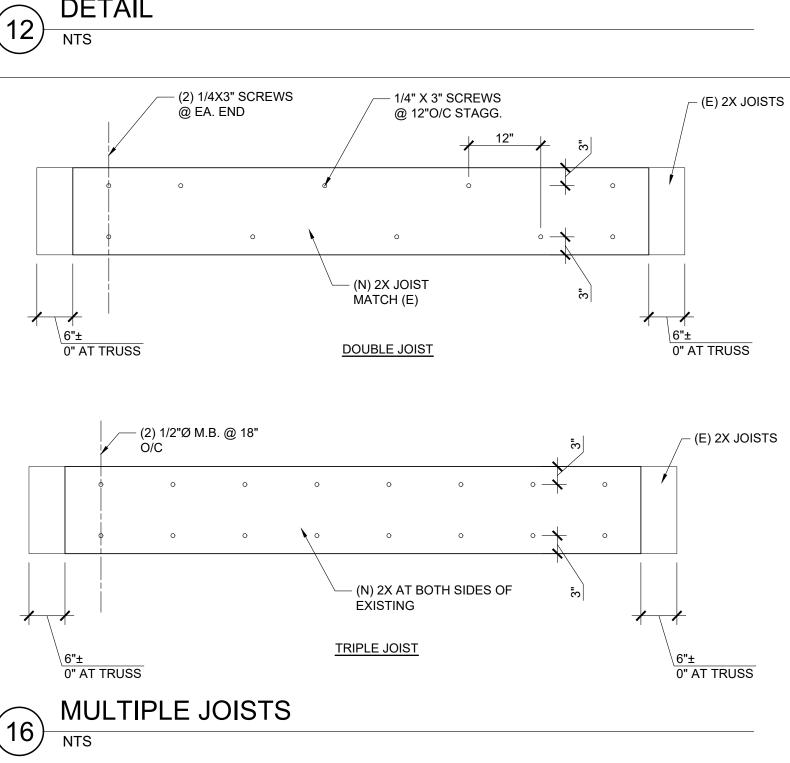


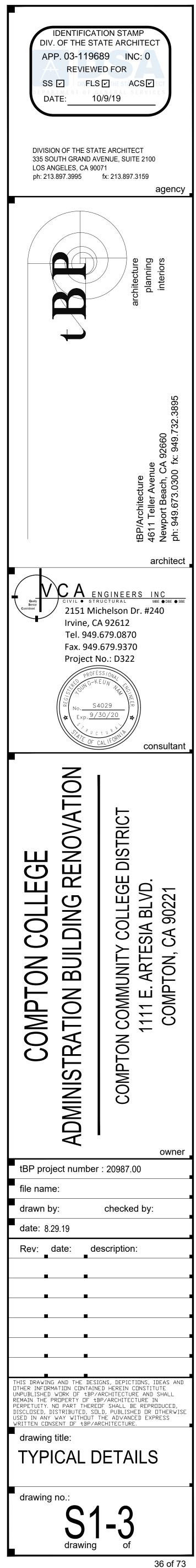


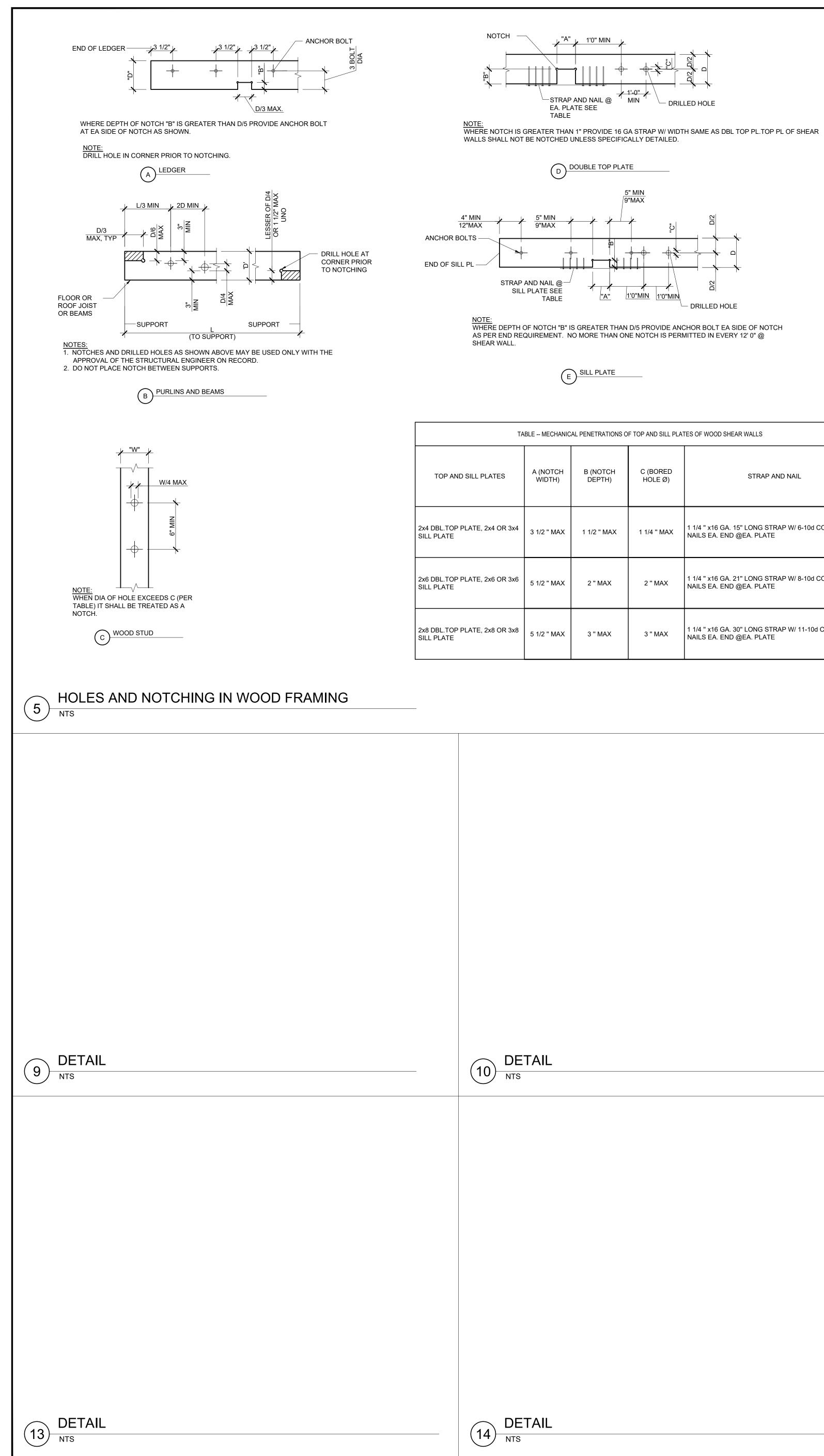




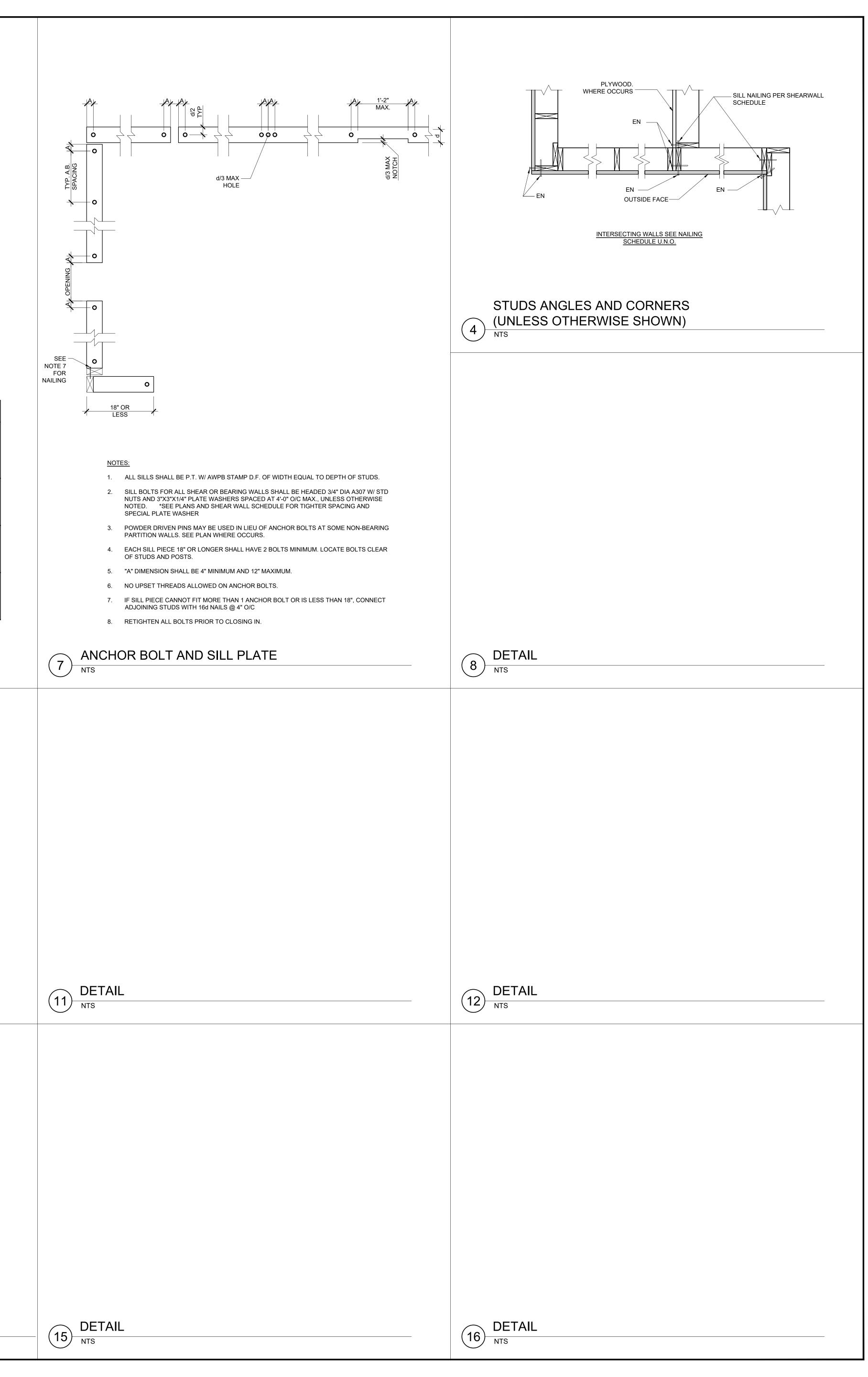


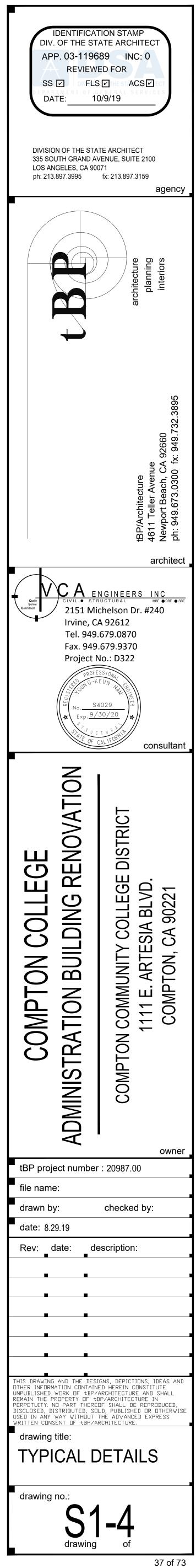


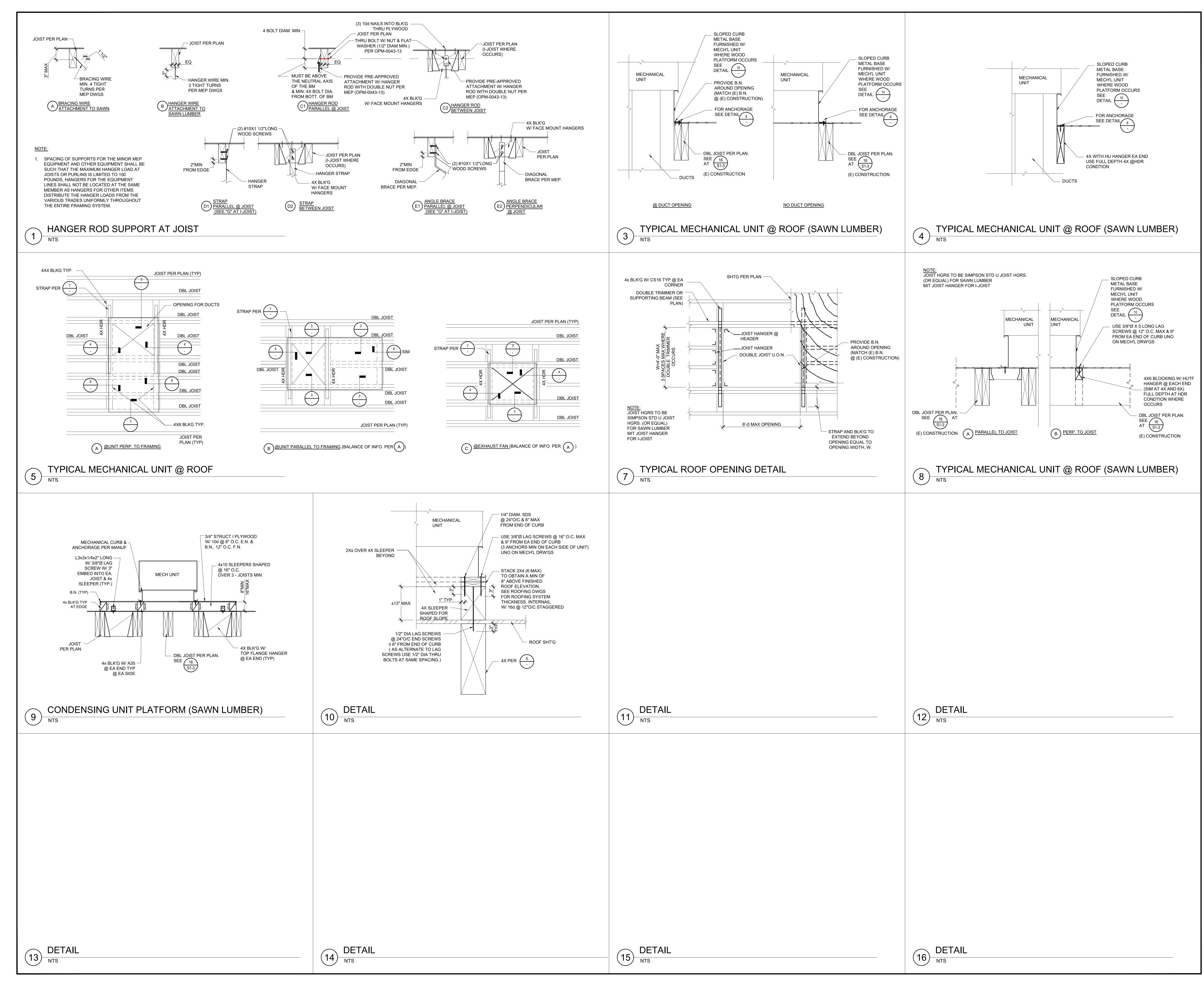


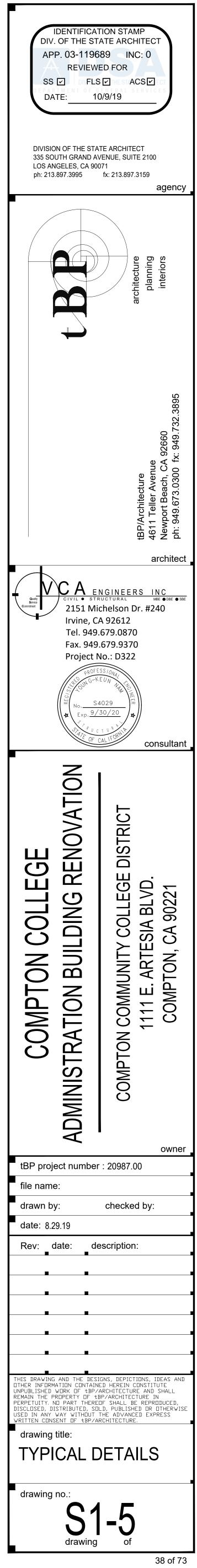


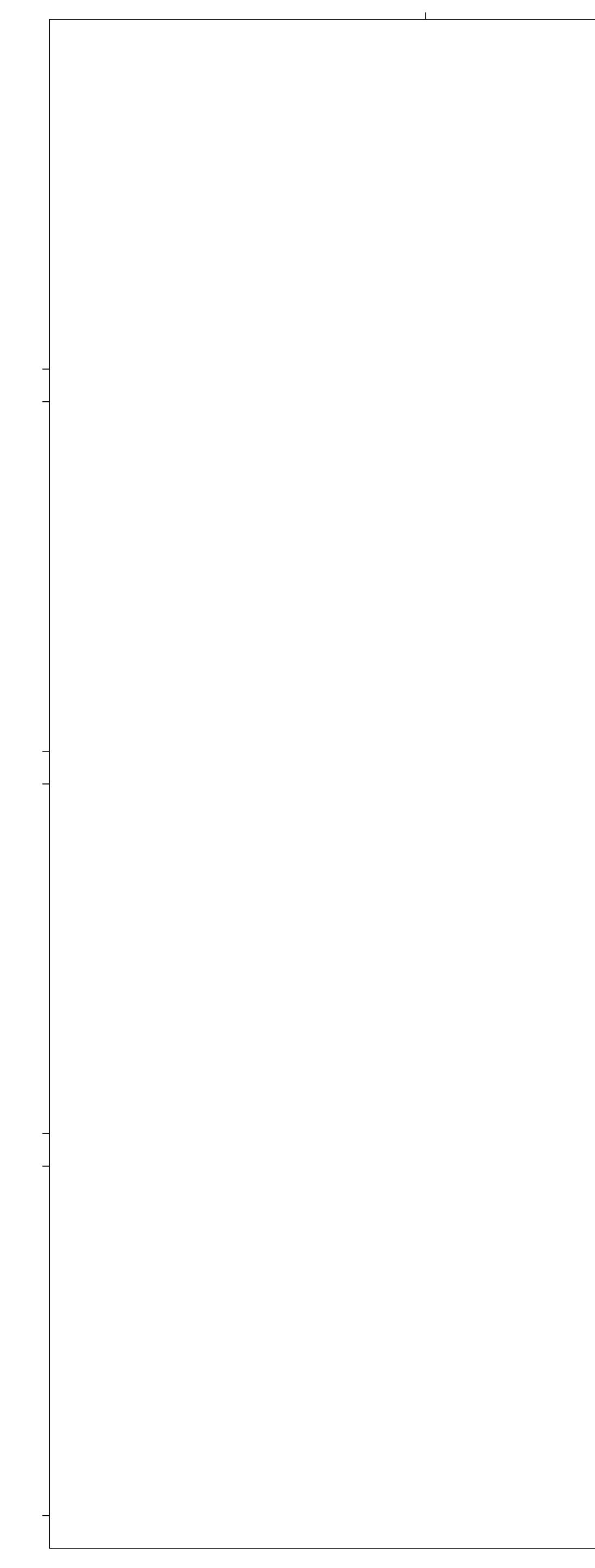
E MECHANIC	AL PENETRATIONS O	F TOP AND SILL PLAT	TES OF WOOD SHEAR WALLS
A (NOTCH WIDTH)	B (NOTCH DEPTH)	C (BORED HOLE Ø)	STRAP AND NAIL
1/2 " MAX	1 1/2 " MAX	1 1/4 " MAX	1 1/4 " x16 GA. 15" LONG STRAP W/ 6-10d COMMON NAILS EA. END @EA. PLATE
1/2 " MAX	2 " MAX	2 " MAX	1 1/4 " x16 GA. 21" LONG STRAP W/ 8-10d COMMON NAILS EA. END @EA. PLATE
1/2 " MAX	3 " MAX	3 " MAX	1 1/4 " x16 GA. 30" LONG STRAP W/ 11-10d COMMON NAILS EA. END @EA. PLATE

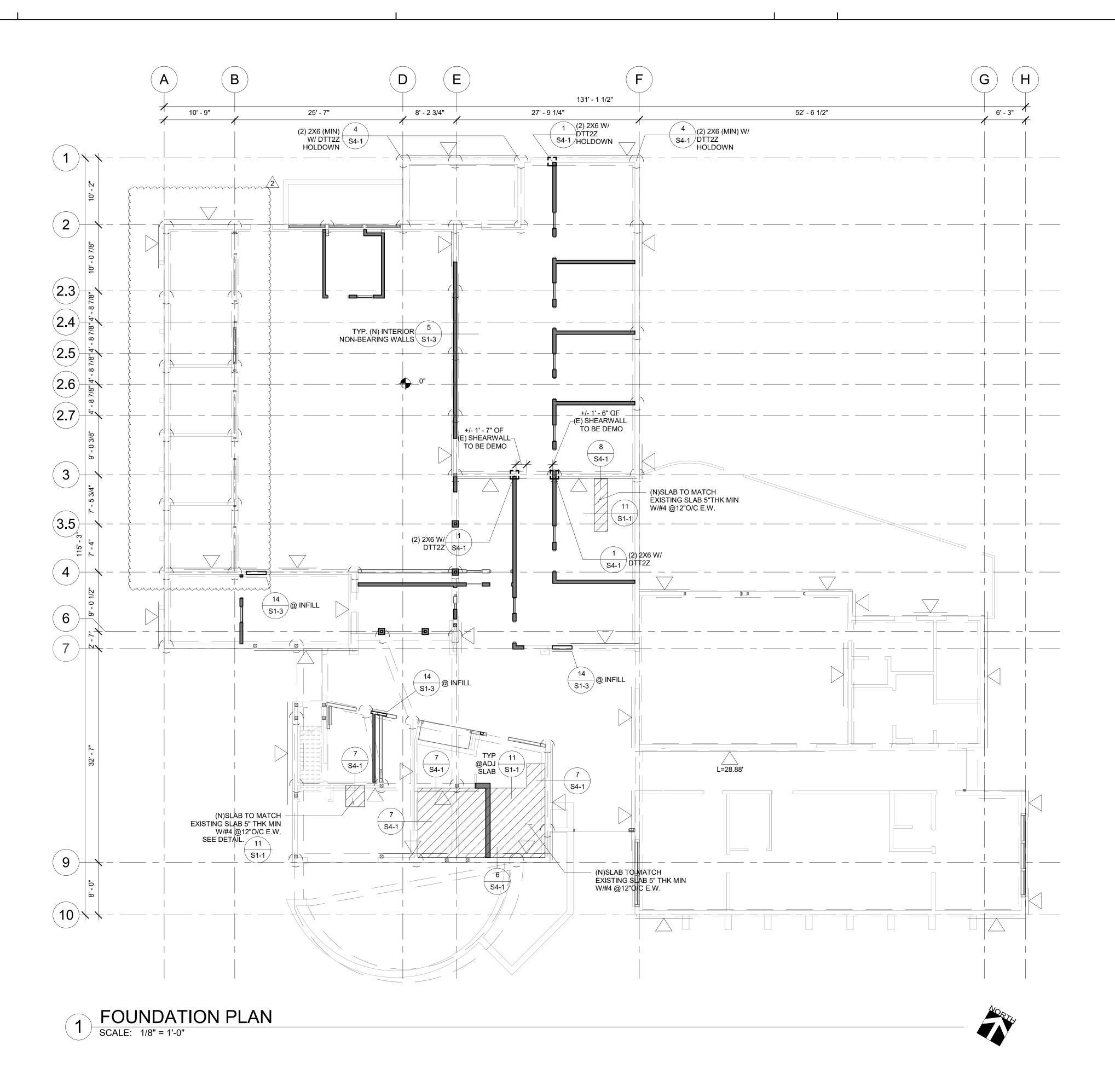






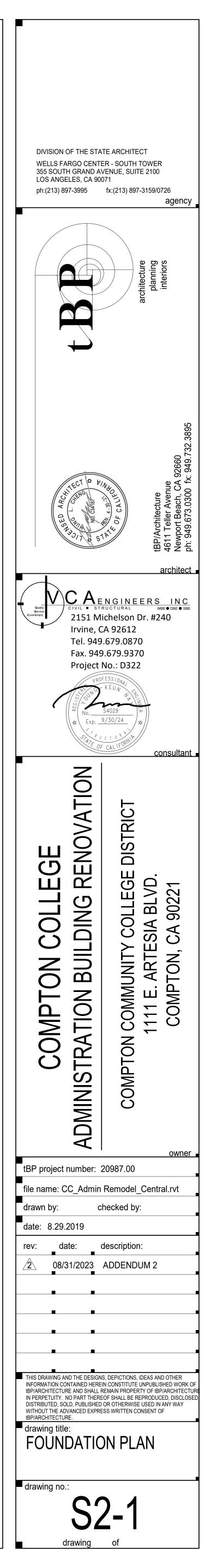


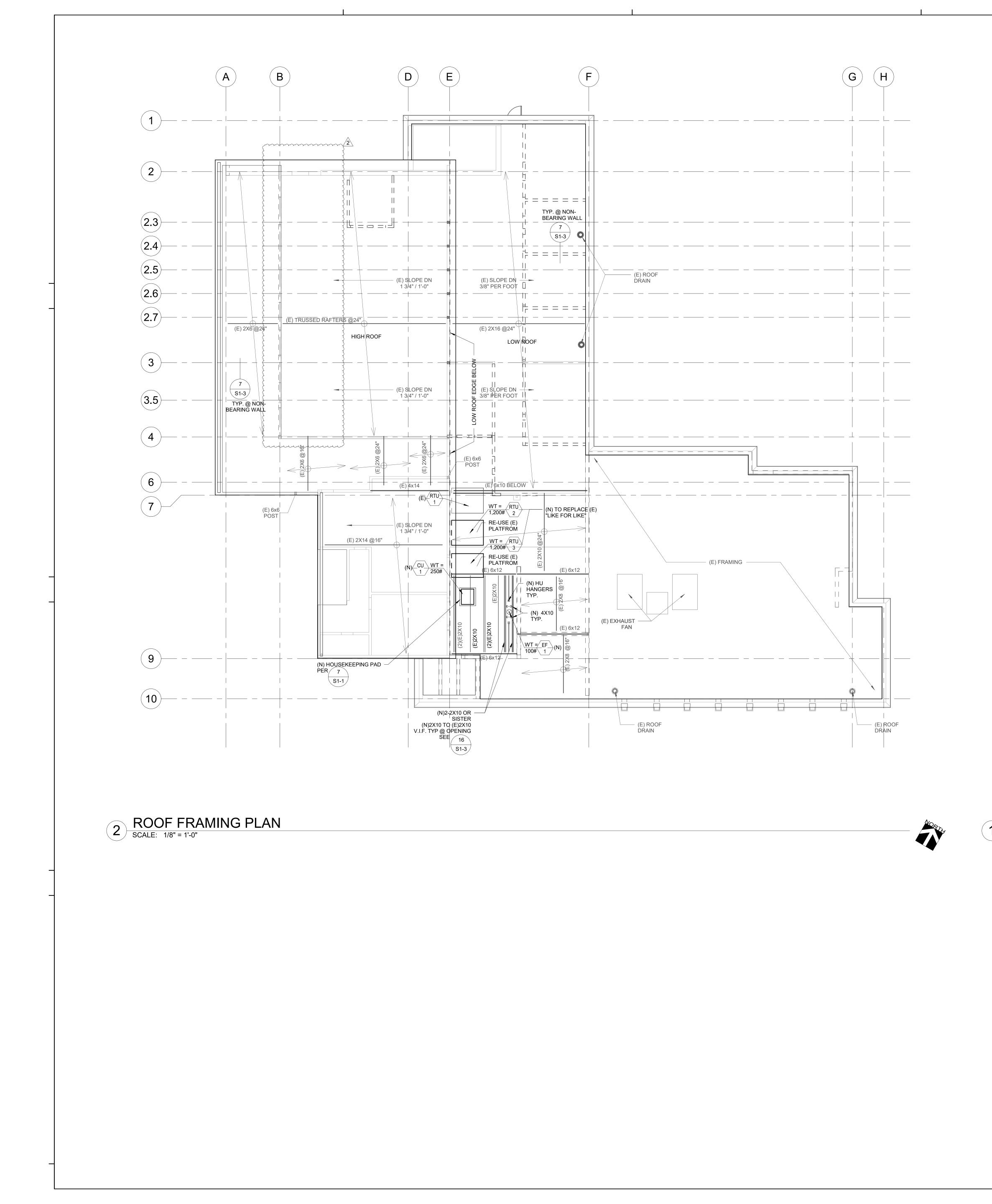


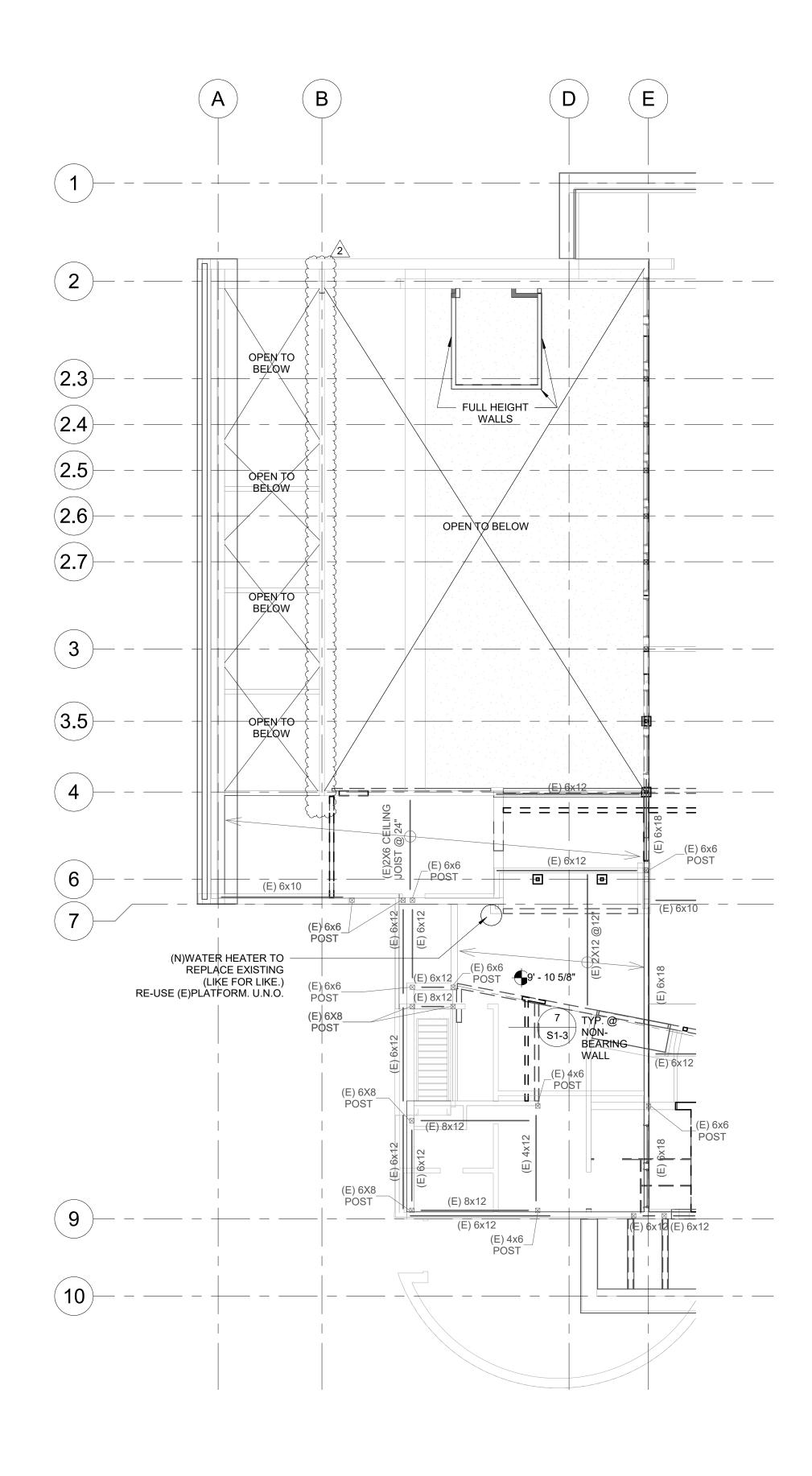


SHEET NOTES:

- 1. FOR GENERAL NOTES, SEE S-0.00 SERIES.
- 2. FOR TYPICAL DETAILS, SEE S-1.00 SERIES.
- 3. ALL CONSTRUCTION IS (E) UNLESS NOTED OTHERWISE.
- 4. DENOTES (N) 2X4 OR 2X6 @ 16" O/C NON-BEARING WALL PER ARCHITECTURAL DWGS.
- . _____ DENOTES (E) SHEARWALL
- 6. INFILL (E) OPENING AS SHOWN ON ARCHITECTURAL DRAWINGS PER 14/S1-3



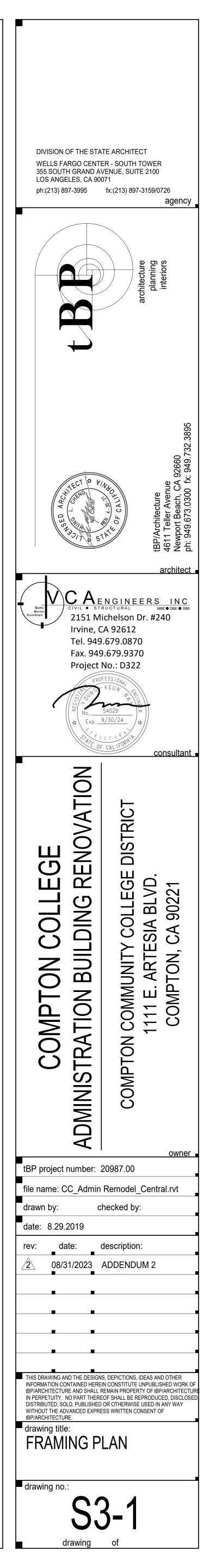


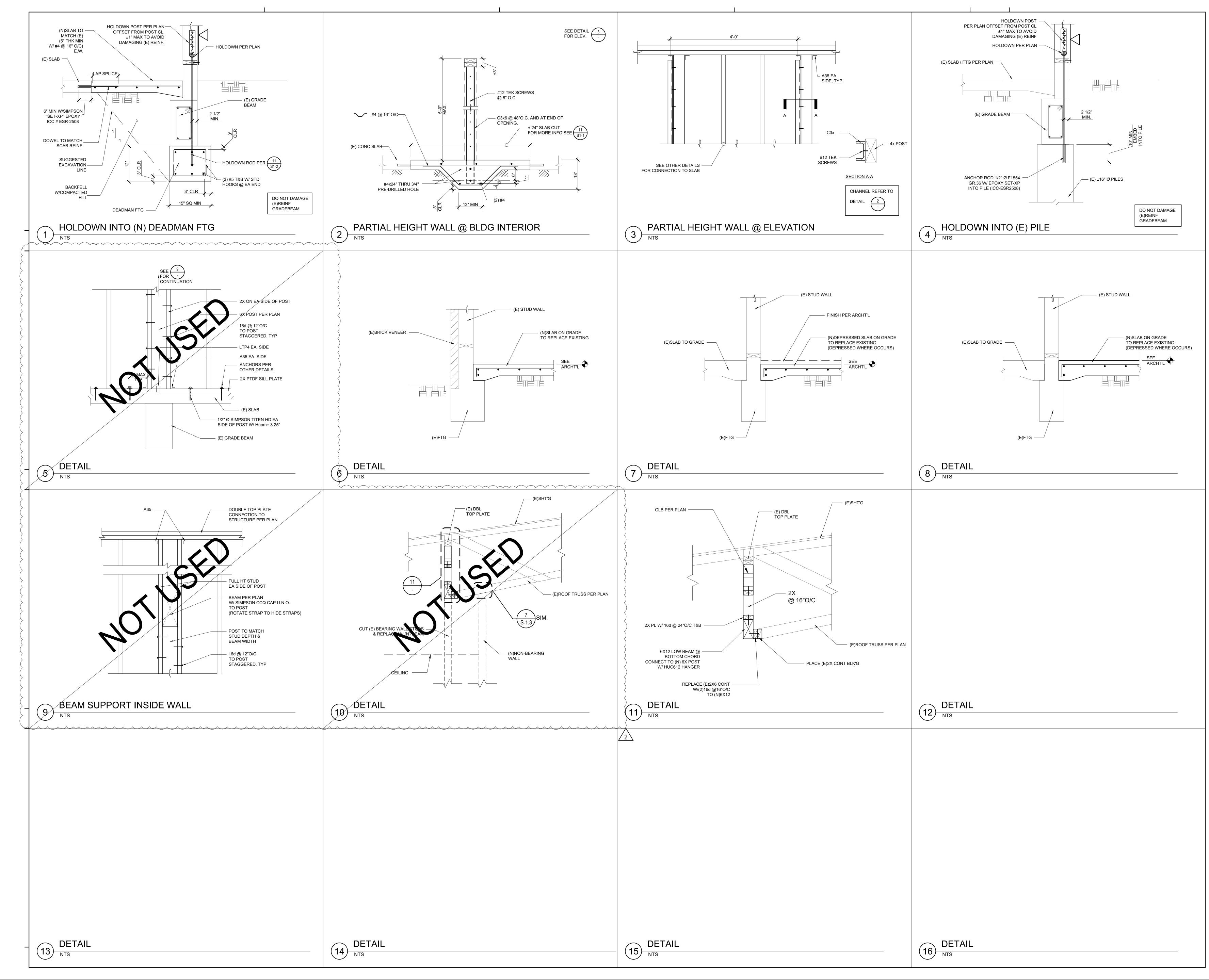


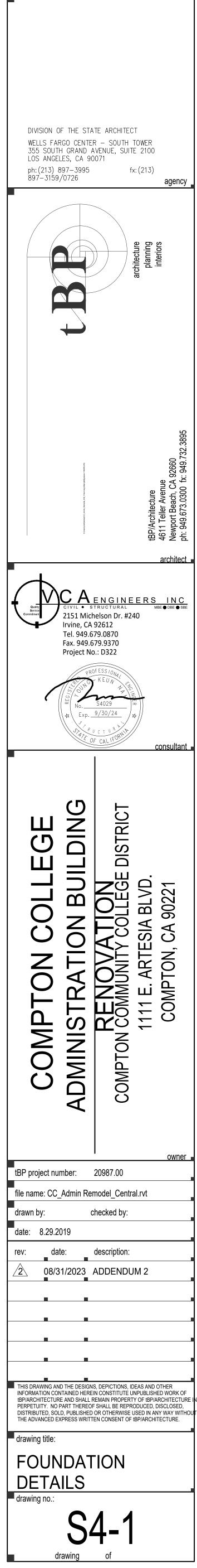
1 2ND FLOOR FRAMING PLAN SCALE: 1/8" = 1'-0"

SHEET NOTES:

- FOR GENERAL NOTES, SEE S-0.00 SERIES. 1
- FOR TYPICAL DETAILS, SEE S-1.00 SERIES.
- ALL CONSTRUCTION IS (E) UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT THAT ARE (N) TO REPLACE (E) "LIKE FOR LIKE" SHALL WEIGHT EQUAL TO OR LESS THAN THE UNIT BEING REPLACED. 4





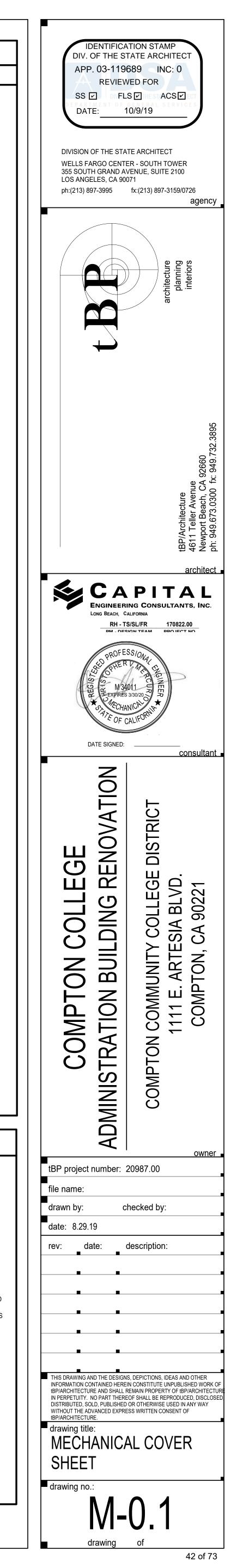


GENERAL NOTES			MEC	CHANICAL LE
1. ALL PRODUCTS AND EXECUTION OF WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON PLANS. 2. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS. THE MOST STRINGENT SHALL GOVERN.	SINGLE DOUBLE LINE SYMBOL DESCRIPTION 24x12 RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW)	SYMBOL	ABBREVIATION	DESCRIPTION
3. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING FIRE, BUILDING, MECHANICAL, PLUMBING, AND ELECTRICAL CODES.	• 24x12 • KECTANGOLAR DOCT • WIDTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)		ABC	ABOVE CEILING ABOVE FLOOR
4. PRIOR TO SUBMISSION OF ANY BID, THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE EXISTING SITE CONDITIONS AND FEATURES. ANY SITE CONDITIONS WHICH MAY CAUSE SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO SUBMISSION OF THE CONTRACTOR'S BID. VERIFY DIMENSIONS OF ALL PRODUCTS INCLUDING OWNER FURNISHED EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION. CONTRACTOR SHALL BEAR ALL COSTS FOR	26x14L ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE		AFF AFG	ABOVE FINISHED FL ABOVE FINISHED GF
RELOCATION OF EQUIPMENT, PIPE, DUCTS, ETC. FROM FAILURE TO ADVISE OF CONFLICT IN WRITING PRIOR TO SUBMISSION OF ANY BID, AND/OR FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS OF SYSTEMS.			AD , AP AC	ACCESS DOOR , AC
5. IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE OWNER ANY DEFECTS IN SUCH OTHER WORK THAT RENDERS IT UNSUITABLE TO PERFORM THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF	R OR D RISE OR DROP RISE OR DROP DUCT IN DIRECTION OF AIR FLOW		AHU APD AB	AIR HANDLING UNIT AIR PRESSURE DRC ANCHOR BOLT
THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK. 6. MECHANICAL CONTRACTOR SHALL BE COGNIZANT WITH BUILDING STRUCTURE AND CEILING SPACE ALLOWED FOR INSTALLATION OF EQUIPMENT	RECTANGULAR TO RECTANGULAR TRANSISTION , MAX. SLOPE OF 1:3	주 [⊢] +	ANV	ANGLE VALVE AUTOMATIC AIR VEI
PRIOR TO BID, INCLUDE IN THE BID ADDITIONAL OFFSETS OF DUCTS AND PIPING THAT ARE NOT SHOWN ON DRAWING. 7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ARCHITECT AND GC AND PROVIDING ALL CEILING ACCESS. PATCHING AND	RECTANGULAR TO ROUND TRANSITION , MAX. SLOPE OF 1:3		BV BDD	BALL VALVE BACK DRAFT DAMP
REPAIR REQUIRED IN THE IMMEDIATE AREA OF THE WORK AND ANY ACCESS OUTSIDE THE IMMEDIATE AREA OF THE WORK REQUIRED TO PROVIDE COMPLETE ACCESSIBLE AND PROPERLY FUNCTIONING SYSTEMS. 8. DUCT PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS SHALL BE PROVIDED WITH PROPER CODE REQUIRED PROTECTION. ADVISE OWNER'S	ELBOW, RECTANGULAR, SMOOTH RADIUS,		BFP BF BHP	BACKFLOW PREVEN BELOW FLOOR BRAKE HORSE POW
REPRESENTATIVE IN WRITING IN EVENT OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS PRIOR TO BID. CONTRACTOR SHALL BEAR ALL COSTS FOR ADDITIONAL DAMPERS FROM FAILURE TO ADVISE DISCREPANCIES PRIOR TO BID.	$\frac{1}{W} = 1.5$ WITHOUT TURNING VANES	——————————————————————————————————————	BTU(H) BFV	BRITISH THERMAL U BUTTERFLY VALVE
9. ALL DUCT DIMENSIONS ARE SHOWN IN INCHES. ALL DIMENSIONS ARE CLEAR INSIDE SIZES. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.	CONVERGING OR DIVERGING TEE, 45" ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF	BPT KX	BPT CBV	BYPASS TIMER CALIBRATED BALAN
 ALL DUCTWORK AND PIPING SHOWN ON PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION. EXACT LOCATION SHALL BE COORDINATED BY THE CONTRACTOR AND DIMENSIONED ON THE SHOP DRAWINGS. CERTAIN VERTICAL AND HORIZONTAL DIMENSIONS ARE SHOWN IN DUCTS TO INDICATE THEIR GENERAL POSITION IN RELATIONSHIP TO THE 	OR ENTRY BRANCH TO BE FLAT, OTHER SIDES		CC CLG	CENTER TO CENTER CEILING
SYSTEMS WITHIN THE SPACE AVAILABLE FOR SYSTEM INSTALLATION, PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED, AND COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS AT NO ADDITIONAL COST TO OWNER.	CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-		CEF CKV CHWS	CEILING EXHAUST F CHECK VALVE CHILLED WATER SU
12. IN LIEU OF RECTANGULAR DUCT AS SHOWN ON PLAN, CONTRACTOR HAS OPTION TO USE ROUND OR OVAL DUCTWORK WHERE SPACE PERMITS, SIZING SHALL BE BASED ON EQUAL FRICTION METHOD. FOR DUCTWORK ABOVE EXPOSED CEILINGS, REVISIONS SHALL BE APPROVED BY THE ARCHITECT.	W/DAMPER AND SCOOP		CHWS CHWR CP	CHILLED WATER SU CHILLED WATER RE CIRCULATING PUMP
13. COORDINATE REGISTER, DIFFUSER AND GRILLE LOCATIONS WITH CEILING SUPPORT MEMBERS AND LIGHTING FIXTURES. FINISHED CEILING CONFIGURATION SHALL FORM A FULLY INTEGRATED INSTALLATION IN EACH FINISHED SPACE; REFER TO ARCHITECTURAL REFLECTED CEILING	ROUND DUCT TAKE OFF FROM RECTANGULAR VIA		CLR CONC	CLEAR
PLANS FOR REQUIRED COORDINATED LAYOUT. 14. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL, FRAMING, STRUCTURAL MEMBERS. AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS AND INSTALLATION WORK OF OTHER TRADES PRIOR TO PLACING	ROUND DUCT CONVERGING BELL MOUTH		CD	CONCENTRIC REDU CONDENSATE DRAI
SLEEVES IN FLOORS OR WALLS. 15. INSTALL ALL DUCTWORK CONCEALED IN FURRED WALL AND CEILING UNLESS OTHERWISE NOTED.			COND CONN CONT	CONDENSER CONNECT OR CONN CONTINUATION
16. TOTAL AIR STATIC PRESSURE NOTED IN SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. IT DOES NOT INCLUDE INTERNAL CASING LOSS OR SYSTEM EFFECT UNLESS OTHERWISE NOTED. TOTAL AIR STATIC PRESSURE DOES NOT INCLUDE CONTRACTOR'S	3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP	f	CONTR	CONTRACTOR CUBIC FEET OF AIR F
DEVIATIONS FROM CONTRACT DOCUMENT. 17. SCHEDULE ALL WORK WITH THE FACILITY INCLUDING CONSTRUCTION ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE PROCEDURE		°F	DPR	DAMPER DEGREES FAHRENH
SHALL BE APPROVED BY THE FACILITY PRIOR TO THE START OF CONSTRUCTION. 18. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM	FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNITING DIFFUSER	-	DIA DL	DIAMETER , PHASE DOOR LOUVER
CLEAN ALL AREAS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM. 19. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF THE FACILITY.	TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.		DN DR	
20. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT	SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP		DB DS	DRY BULB (DEGREES DYNAMIC SENSOR ECCENTRIC REDUCE
PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA AND OSHA. 21. SECURELY FASTEN ALL PIPING AND DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS,			EP EL	ELECTRICAL PANEL ELEVATION
GUIDE ANCHORS, AND SWAY BRACE SEISMIC RESTRAINTS TO MAINTAIN ALIGNMENT. TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN DUE TO MOVEMENT UNDER OPERATING CONDITIONS. COORDINATE ANCHORING POINTS TO ASSURE STRUCTURAL INTEGRITY DURING NORMAL OPERATION AND SEISMIC EVENTS.			ENT EDB	ENTERING ENTERING DRY BULE
22. PIPE SUPPORTS SHALL BE DESIGNED TO INCLUDE THE WEIGHT OF THE PIPE, FITTINGS, VALVES, AND WEIGHT OF THE CONTENTS OF THE PIPE.	EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP		EW EWT	ENTERING WATER ENTERING WATER T
ADA. OTHERWISE, COORDINATE INSTALLATION LOCATION AND HEIGHT WITH ALL TRADES PRIOR TO THERMOSTAT ROUGH-IN. 24. PROVIDE FLEXIBLE CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND AS INDICATED ON FLOW DIAGRAMS, DETAILS, AND AS OTHERWISE	FLEXIBLE DUCT (ROUND)		EWB EVAP	ENTERING WET BULI EVAPORATOR EVAPORATIVE COOL
SPECIFIED. 25. PROVIDE A TIGHT SEAL OF INCOMBUSTIBLE MATERIAL (U.L. APPROVED) AROUND ALL DUCTWORK AND PIPING WHICH PENETRATE FIRE SEPARATIONS.	FLEXIBLE DUCT (FABRIC)		EA EAD	EXHAUST AIR EXHAUST AIR EXHAUST AIR DAMPE
26. COORDINATE THE LOCATION AND QUANTITY OF ALL ACCESS PANELS. PANELS ARE REQUIRED IN CEILINGS FOR ALL TERMINAL BOXES, DAMPERS, VALVES, CONTROLS, AND OTHER ITEMS REQUIRING ROUTINE MAINTENANCE OR ADJUSTMENT, AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS, WHERE ACCESS PANELS ARE NOT SHOWN FOR VOLUME DAMPER ACCESS, PROVIDE CEILING			EF (E), EXIST	EXHAUST FAN EXISTING
27. PROVIDE PIPE SUPPORTS NOT MORE THAN 12 INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL	10"DIA. 10"DIA. 10"DIA. 45° REDUCING LATERAL FITTING	- × × ×	(E) ESP	EXISTING TO BE REN EXTERNAL STATIC P
AND VERTICAL PLANES. 28. PROVIDE OPERATING HANDLES FOR ALL VALVES AND COCKS SUPPLIED WITHOUT INTEGRAL OPERATORS.	MAD12"DIA12"DIA12"DIA.	F	FPM FIN FD	FEET PER MINUTE FINISH FIRE DAMPER
29. ALL PIPE SIZES ARE IN INCHES. PIPE SIZES NOT SHOWN ON PLAN SHALL BE SIZED NOT TO EXCEED 3-FEET OF HEAD PER 100-FEET LENGTH.	10"DIA. 18"DIA. 10"DIA.		FS FC	FIRE/SMOKE DAMPE FLEXIBLE CONNECTI
30. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED. 31. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.	MAD-12"DIA.		FLR	FLOOR FLOW IN DIRECTION
	$ \downarrow \downarrow \leftarrow$		FLV FA	FLOW LIMITING VALV FROM ABOVE
FIRE MARSHAL NOTES		ф	FB FLA GCK	FROM BELOW FULL LOAD AMPS GAGE COCK
1. FIRE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.		141	GPH GPM	GALLONS PER HOUR GALLONS PER MINU
2. AIR MOVING SYSTEMS SUPPLY AN EXCESS OF 2000 CUBIC FEET PER MINUTE (CFM) TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE IF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY-AIR DUCT SERVED BY SUCH EQUIPMENT. SEE EXCEPTION (609, CMC).	MEP COMPONENT ANCHORAGE NOTE		GV GLV	GATE VALVE GLOBE VALVE
3. WHEN THE AUTOMATIC ACTIVATION OF A FIRE/SMOKE DAMPER OCCURS, THE HVAC SYSTEM SERVING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN. THE HVAC SYSTEM SHALL NOT BE RESTARTED AGAIN UNTIL ALL SUCH DAMPERS ARE RESET AND FULLY OPENED.	ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR		GALV GI	GALVANIZED GALVANIZED IRON
4. COMPLIANCE WITH THE 2016 CMC REQUIREMENT 608 (PREVIOUSLY 609) SHALL BE MET FOR AIR HANDLING UNITS (AHU) / AIR MOVING SYSTEM GLOBAL / AGGREGATE SIMULTANEOUS SMOKE SHUTDOWN OF AREA SERVED PER CSFM INTERPRETATION # 02-024 & 08-065 UPON ACTIVATION OF ANY SINGLE DUCT SMOKE DETECTOR.	BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.		GA HTG	GAUGE HEATING
5. ALL AHU / HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE CONNECTED TO BUILDING FIRE ALARM PANEL TO INITIATE A SUPERVISORY SIGNAL UPON ACTIVATION, BE INTERCONNECTED AND SHALL ALL SHUT DOWN SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR.	 TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE 	——— HWS ———	HW HWS HWR	HOT WATER HOT WATER SUPPLY HOT WATER RETURN
6. ALL AHU / HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE TESTED BY MANOMETER TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCE SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURER'S DATA ON EACH DUCT-SMOKE DETECTOR INSTALLED WITHIN THE	REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.			
UNIT / DUCTWORK PER 2016 NFPA 72-17.7.4 & 2016 CMC 608.	STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	PIPING, E		RK & ELECTI
MECHANICAL SHEET LIST	A. 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.		SYSTE	M EMBRACI
SHEET NUMBER SHEET NAME M-0.1 MECHANICAL COVER SHEET	B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.			
M-0.2 MECHANCIAL SCHEDULES M-0.3 TITLE 24 COMPLIANCE M-1 MECHANICAL REMODEL FLOOR PLANS	FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE	AND DISPLACEME	NTS PRESCRIBED IN ASC	TRIBUTION SYSTEMS SHALL E CE 7-10 SECTION 13.3 AS DEFIN 16A.1.23, 1616A.1.24, 1616A.1.25
M-1 MECHANICAL REMODEL FLOOR FLANS M-3 MECHANICAL ROOF PLAN M-4 MECHANICAL DETAILS	BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	SYSTEM ARE AS N	OTED BELOW. WHEN BF	ATTACHMENTS TO THE STRU RACING AND ATTACHMENTS A
M-4 MECHANICAL DETAILS M-5 CONTROLS MD-1 MECHANICAL DEMO PLANS		OR MANUAL SHAL BRACING OF THE I	L BE AVAILABLE ON THE DISTRIBUTION SYSTEMS	SHPD OPM). COPIES OF THE B JOBSITE PRIOR TO THE STAR THE STRUCTURAL ENGINEEF ORT THE HANGER AND BRACE
MD-3 MECHANICAL DEMO ROOF	GREEN BUILDING CODE NOTES		NG (MP), MECHANICAL D	UCTS (MD), PLUMBING PIPING
	 A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPOROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INVIDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. AN OPERATING & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE 			ON 1: DETAILED ON THE APPR DETAILS
	TIME OF FINAL INSPECTION. 3. IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS	MP 🛛 MD 🕅 P		ON 2: SHALL COMPLY WITH TH M-0043-13
	IMEEDIATELY PRIOR TO OCCUPANCY.4. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENING SHALL BE COVERED WITH TAPE, PLASTIC, OR		EDITI	ON 3: SHALL COMPLY WITH TH ION (2009), INCLUDING ANY AD
	SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT.			SPECIFICALLY IDENTIFIED IN T

6. HVAC AND WATER SYSTEMS TO BE BALANCED PER AABBC STANDARDS.

SYSTEM DESCRIPTION: HVAC SYSTEM CONSIST OF MULTIPLE ZONE VARIABLE VOLUME & CONSTANT VOLUME AIR HANDLING SYSTEMS AND STAND ALONE SPLIT SYSTEM DX UNITS.

ICAL LEGEND			NICAL LEGEND cont'd
	SYMBOL		
ESCRIPTION		IE	DESCRIPTION INVERT ELEVATION
BOVE CEILING		KW KWH	KILOWATTS KILOWATT HOUR
BOVE FLOOR BOVE FINISHED FLOOR		КХА	KITCHEN EXHAUST AIR
BOVE FINISHED GRADE		LDB LWB	LEAVING DRY BULB IN DEGREES FAHRENHEIT LEAVING WET BULB IN DEGREES FAHRENHEIT
CCESS DOOR , ACCESS PANEL R CONDITIONING		LRA	LOCKED ROTOR AMPERES
R HANDLING UNIT R PRESSURE DROP, INCHES WATER COLUMN		LVR MA	LOUVER MAKE UP AIR
NCHOR BOLT		MAD, MD	MANUAL AIR DAMPER
NGLE VALVE UTOMATIC AIR VENT	ې	MAV MFR	MANUAL AIR VENT MANUFACTURER
		MAX	MAXIMUM
ACK DRAFT DAMPER ACKFLOW PREVENTER		MIN MCC	MINIMUM MOTOR CONTROL CENTER
ELOW FLOOR RAKE HORSE POWER		(N)	NEW
RITISH THERMAL UNITS (PER HOUR)		OC OSA	ON CENTER OUTSIDE AIR
UTTERFLY VALVE YPASS TIMER		OD	OUTSIDE DIAMETER
ALIBRATED BALANCE VALVE		OV OH	OUTLET VELOCITY OVERHEAD
ENTER TO CENTER EILING	T		PETE'S PLUG
EILING EXHAUST FAN	X		PIPE ANCHOR PIPE DROP
HECK VALVE HILLED WATER SUPPLY PIPING			PIPE GUIDE
HILLED WATER RETURN PIPING	<u> </u>		PIPE RISE PITCH DOWN IN DIRECTION OF FLOW
	\oplus	POC	POINT OF CONNECTION
LEAR ONCRETE		LBS PSI (G) (A)	POUNDS POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
		PD	PRESSURE DROP
ONDENSATE DRAIN ONDENSER	Ŷ ₽	PG PRV	PRESSURE GAUGE PRESSURE REDUCING VALVE
ONNECT OR CONNECTION ONTINUATION	RG	RG	REFRIGERANT GAS PIPING
ONTRACTOR	RS RL	RS RL	REFRIGERANT SUCTION PIPING REFRIGERANT LIQUID PIPING
JBIC FEET OF AIR FLOW PER MINUTE		RL RV or P&TRV	RELIEF VALVE OR PRESSURE &
GREES FAHRENHEIT	Т	D4	TEMPERATURE RELIEF VALVE
AMETER , PHASE DOR LOUVER		RA RAD	RETURN AIR RETURN AIR DAMPER
DWN		RPM	REVOLUTIONS PER MINUTE
RAIN RY BULB (DEGREES FAHRENHEIT)		RLA SB	RUNNING LOAD AMPERES SECURITY BARS
NAMIC SENSOR		SM	SHEET METAL
	SD	SWR SD	SIDE WALL REGISTER SMOKE DAMPER
ECTRICAL PANEL EVATION	SD	SKD	SMOKE DETECTOR
		SQFT, FT2``~~ SQIN, IN2`	SQUARE FEET SQUARE INCHES
ITERING DRY BULB ITERING WATER		SP	STATIC PRESSURE
ITERING WATER TEMPERATURE ITERING WET BULB		SPD STR	STATIC PRESSURE DROP STRAINER
APORATOR	*	SA	SUPPLY AIR
APORATIVE COOLER (HAUST AIR		SF TCP	SUPPLY FAN TEMPERATURE CONTROL PANEL
HAUST AIR DAMPER		TCV	TEMPERATURE CONTROL VALVE
	Ψ (τ5) _×		TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED THERMOMETER
IISTING IISTING TO BE REMOVED	Ōx	Т	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED
TERNAL STATIC PRESSURE		МВН ТА	THOUSAND BRITISH THERMAL UNITS PER HOUR TO ABOVE
ET PER MINUTE NISH		ТВ	TO BELOW
		TD TP	TRANSFER DUCT TOTAL PRESSURE
RE/SMOKE DAMPER EXIBLE CONNECTION		TSP	TOTAL STATIC PRESSURE
		TYP UG	TYPICAL UNDERGROUND
OW IN DIRECTION OF ARROW OW LIMITING VALVE		UCD	UNDER CUT DOOR
		UON VFD	UNLESS OTHERWISE NOTED VARIABLE FREQUENCY DRIVE
OM BELOW ILL LOAD AMPS		VLV	VALVE
AGE COCK	⊗		VALVE IN RISER (TYPE AS INDICATED OR NOTED) VALVE IN VALVE BOX
ALLONS PER HOUR ALLONS PER MINUTE	Ū	WPD	WATER PRESSURE DROP
		W WT	WATTS WEIGHT
OBE VALVE ALVANIZED		WB	WET BULB
		WMS WP	WIRE MESH SCREEN WORKING PRESSURE
AUGE EATING			2-WAY CONTROL VALVE
DT WATER	☆		3-WAY CONTROL VALVE
DT WATER SUPPLY PIPING DT WATER RETURN PIPING			
ELECTRICAL DISTRIBUTION			DSA NOTES
IBRACING NOTE			
	1. ALL WORK SHALL CONF	ORM TO 2016 EDITION TITLE 2	24, CALIFORNIA CODE OF REGULATIONS (CCR).
			PE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES	SPECIFICATIONS, AND E	NGINEERING CALCULATIONS	MITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY
TION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 6A.1.24, 1616A.1.25 AND 1616A.1.26.			PROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
NTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION			BY SECTION 4-338, PART 1, TITLE 24, CCR.
ATTACHMENTS ARE BASED ON PREAPPROVED COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE			BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS PECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
RIOR TO THE START OF AND DURING THE HANGING AND CTURAL ENGINEER OF RECORD SHALL VERIFY THE NGER AND BRACE LOADS.			EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND
PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION		DRAWINGS AND SPECIFICATIO	ONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING
	CONSTRUCTION BE DIS COMPLY WITH TITLE 24,	COVERED WHICH IS NOT COV CCR, A CONSTRUCTION CHAI	ERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT NGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS,
ED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES	DETAILING AND SPECIFY		HALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE
COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)			AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL
	6. GRADING PLANS, DRAIN COMPLY WITH ALL LOCA		
COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHP			
LY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD TAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES E DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD			
E DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD DNNECTION LEVEL <u>1</u> FOR THE PROJECT AND CONDITIONS.			



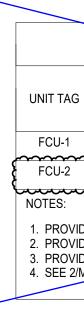
RTU-2 F	-		
NOTES: 1. RTUS TO HAVE SINGLE 2 2. PROVIDE MODULATING 3. UNIT TO INCLUDE DISCO 4. SINGLE POINT ELECTRIC 5. 7-DAY PROGRAMMED TH 6. CO2 SENSORS FOR OSA			
RTU-3 F NOTES: 1. RTUS TO HAVE SINGLE 2 2. PROVIDE MODULATING 3. UNIT TO INCLUDE DISCO 4. SINGLE POINT ELECTRIC 5. 7-DAY PROGRAMMED TH 6. CO2 SENSORS FOR OSA		UNIT	LO
NOTES: 1. RTUS TO HAVE SINGLE 2 2. PROVIDE MODULATING 3. UNIT TO INCLUDE DISCO 4. SINGLE POINT ELECTRIC 5. 7-DAY PROGRAMMED TH 6. CO2 SENSORS FOR OSA		RTU-2	F
1. RTUS TO HAVE SINGLE 2 2. PROVIDE MODULATING 3. UNIT TO INCLUDE DISCO 4. SINGLE POINT ELECTRIC 5. 7-DAY PROGRAMMED TH 6. CO2 SENSORS FOR OSA		RTU-3	F
 PROVIDE MODULATING UNIT TO INCLUDE DISCO SINGLE POINT ELECTRIC 7-DAY PROGRAMMED TH CO2 SENSORS FOR OSA 		NOTES:	
		 PROVIDE MO UNIT TO INC SINGLE POID 7-DAY PROCI CO2 SENSO 	DDULATING LUDE DISCO NT ELECTRIC GRAMMED TH RS FOR OSA

							PA	CKAGE ROOF TOP UNIT SCH	IEDULE							
UNIT LOCATION	MANUFACTURER	MODEL	UNIT DI SCHARGE ARRANGEMENT	NOM. TONS	ESP	CFM	V	ELECTRICAL PH HZ	MCA	МОСР	IEER	WEIGHT (LBS)	FILTER	MOUNTING DETAIL	CONTROLS DETAILS	REMARKS
ROOF	CARRIER	50HCQ09C	SIDE	5.0	1.4	3,500	208	3 60	38.4	50	12.2	1,200	MERV 8		SEE NOTES.	
ROOF	CARRIER	50HCQ09C	SIDE	5.0	1.4	3,500	208	3 60	38.4	50	12.2	1,200	MERV 8		SEE NOTES.	
.E ZONE VAV (FACTO IG POWER EXHAUST CONNECT, HINGED / RIC CONNECTION.) THERMOSTAT.)SA OVERRIDE. IOKE DETECTOR.	ORY OPTION) INSTALLED. ECONOMIZER, ENTHALPY CONT ACESS PANELS, CONVENIENCE (TROL. OUTLET, VFD ON MOTORS.														
											EXHAUST FA	NS SCHEDULE				

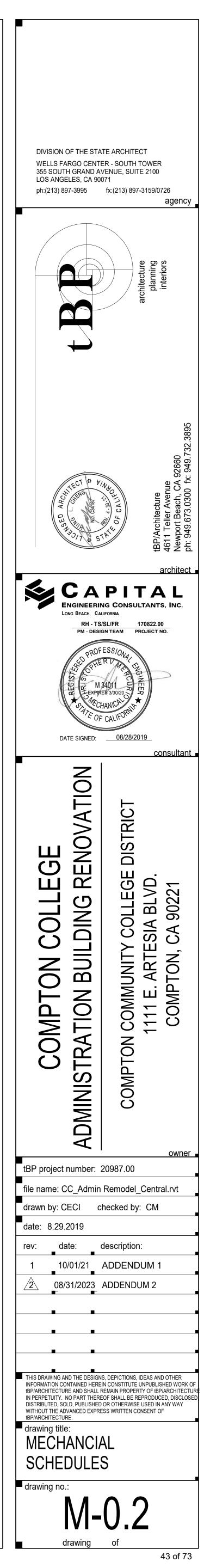
			EXHA	UST FANS SCHE	DULE					
UNIT TAG	LOCATION	AREA SERVED	MANUFACTURER	FAN TYPE	CFM	TOTAL SP	FAN MOTOR	ELECTRICAL	UNIT WEIGHT	REMARKS
						(IN WG)	(HP)	Volts/Phase/Hz	(LBS)	
EF-1	Admin Roof	Men's & Women's Restroom	Greenheck CUBE 101-4 Series	Upblast	620	0.6	0.25	120/1/60	100	
NOTES:										

PROVIDE FACTORY SUPPLIED ROOF CURB.
 DRAIN CONNECTIONS.
 BIRDSCREEN.

MOTOR STARTER.
 BACKDRAFT DAMPER.



_														
						SENS.	TOTAL		ELECTRICAL					
LOCA	TION MA	NUFACTURER	MODEL	AREA SERVED	SERVING	CAP.	CAP (BTUH)	CFM	V	PH	HZ	AMPS	WEIGHT (LBS)	Remarks
MEZZA		LG	ARNU363SVA4	IT ROOM	TER	-	35,500	920	208-230	1	60	3	100	1-4
ELEC. I	ROOM	LG	ARNU363SVA4	ELEC. ROOM		-	35,500	920	208-230	1	60	3	100	1-4
hum			······		turne the second	······	hun		hun	······	<u>Lunn</u>		turner and the second s	
E WITH CO	FILTER. ARY DRAIN PA NDENSATE PU J MOUNTING D	MP.												
E SECOND. E WITH CO	ARY DRAIN PA NDENSATE PU	MP.			SPLIT S	SYSTEM -	- CONDEN	ISING UN	IT SCHEDI	ЛЕ				
E SECOND. E WITH CO	ARY DRAIN PA NDENSATE PU	MP.			SPLIT	SYSTEM -	- CONDEN	ISING UN	IT SCHEDI		RICAL			
E SECOND. E WITH CO	ARY DRAIN PA NDENSATE PU	MP.	MODEL	AREA SERVI				ISING UN = CHARGE (LBS)	IT SCHEDI	JLE ELECTI PH	RICAL HZ	MCA	WEIGHT (LBS)	Remarks
E SECOND. E WITH CO 4 FOR FCI	ARY DRAIN PA NDENSATE PU J MOUNTING D	MP. DETAIL.	MODEL ARUN038GSS4	AREA SERVI IT ROOM		CITY AIR /H) C	RFLOW REI	- CHARGE		ELECTI		MCA 25.0		Remarks



STATE OF CALIFORNIA REQUIRED ACCEPTANCE TESTS CEC-NRCC-MCH-04-E (Revised 01/16)

CERTIFIC	ATE OF CON	IPLIANCE			NRCC-MCH-04
Required	Acceptance	Tests			Page of
Project Name:	Compton C	ollege Administration Building Renovation	on	Date Prepared: 2/21/2019	
		COMPLIANCE FORMS & WORI t is included)	(SHEETS		6
Note: The	e Enforceme	nt Agency may require all complianc	Standards compliance documents, refer to the 2016 No e documents to be incorporated onto the building plans. 2-E and NRCC-MCH-03-E for projects using only single zo Title	The NRCC-MCH-04-E and NRCC-	-MCH-05-E are alternative
•	0	NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when us	ed.	
•	0	NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans whe	n used.	
۲	0	NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on pla	ns when used.	
۲	0	NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for required on plans where applicable.	all submittals with service wate	r heating, pools or spas. It is

STATE OF CALIFORNIA REQUIRED ACCEPTANCE TESTS CEC-NRCC-MCH-04-E (Revised 01/16)

Designer:

CERTIFICA	ATE OF COMPLIANCE	
Required	Acceptance Tests	
Project Name:	Compton College Administration Building Renovation	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the ipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Enforcement Agency:

Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted all newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance compliance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

۱	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	
# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	Test Performed By:
1	✓				✓						INSTALLING CONTRACTOR
1											INSTALLING CONTRACTOR
1											INSTALLING CONTRACTOR
											INSTALLING CONTRACTOR
	# of Units	# of Outdoor Units Air 1	# of UnitsOutdoor AirSingle Zone Unitary1Image: Constraint of the second sec	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution Ducts1III1III1III1III	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer Controls1IIII1IIII1IIII1IIII	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)1IIIII1IIIII1IIIII1IIIII	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Supply Fan VAV1IIIIIII1IIIIIII1IIIIIII1IIIIIII	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Shed Control1 <t< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Supply Fan VAVFDD for Packaged DX Units1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1III<td< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Shed ControlFDD for Packaged DX UnitsDistributed Energy Storage DX AC Systems1 <t< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand VAVFDD for Packaged DX UnitsDistributed Energy Management Control System1IIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIIII1III</td></t<></td></td<></td></t<>	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Supply Fan VAVFDD for Packaged DX Units1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIIII1III <td< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Shed ControlFDD for Packaged DX UnitsDistributed Energy Storage DX AC Systems1 <t< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand VAVFDD for Packaged DX UnitsDistributed Energy Management Control System1IIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIIII1III</td></t<></td></td<>	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand Shed ControlFDD for Packaged DX UnitsDistributed Energy Storage DX AC Systems1 <t< td=""><td># of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand VAVFDD for Packaged DX UnitsDistributed Energy Management Control System1IIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIIII1III</td></t<>	# of UnitsOutdoor AirSingle Zone UnitaryAir Distribution DuctsEconomizer ControlsDemand Control Ventilation (DCV)Automatic Demand VAVFDD for Packaged DX UnitsDistributed Energy Management Control System1IIIIIIIIIIII1IIIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIII1IIIIIIIIIIIII1III

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance		January
STATE OF CALIFORNIA REQUIRED ACCEPTANCE TESTS CEC-NRCC-MCH-04-E (Revised 01/16)	CALIFORNIA	
CERTIFICATE OF COMPLIANCE		NRCC-MCH-0
Required Acceptance Tests		Page of
Project Name: Compton College Administration Building Renovation	Date Prepared: 2/21/2019	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and co Documentation Author Name: Jessica Hughey	Documentation Author Signature:	
Company: Capital Engineering Consultants, Inc.	Signature Date: 2/21/2019	
Address: 11020 Sun Center Drive, Suite 100	CEA/ HERS Certification Identification (if applicable):	
^{City/State/Zip:} Rancho Cordova, CA 95670	^{Phone:} (916) 851-3500	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
designer).		

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documen
worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. 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 t
building owner at occupancy.
Responsible Designer Name: Responsible Designer Signature:
Company : Capital Engineering Consultants, Inc.

Address: 11020 Sun Center Drive, Suite 100	License:
^{City/State/Zip:} Rancho Cordova, CA 95670	^{Fhone:} (916) 851-3500

CALIFORM			
	N	IRCC-MCH-	04-E
		Page of	
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e water he	ating, pools o	r spas. It is	

January 2016

NRCC-MCH-04-E Page of

CALIFORNIA ENERGY COMMISSION

Date Prepared: 2/21/2019

STATE OF CALIFORNIA REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS CEC-NRCC-MCH-05-E (Revised 01/16

Project Name: Compton College Administration Building Renovation

CERTIFICATE OF COMPLIANCE Requirements for Packaged Single-Zone Units CALIFORNIA ENERGY COMMISSION NRCC-MCH-05-E (Page 1 of 2)

Date Prepared: 2/21/2019

Equipment Tag(s) ¹		RTU-2	RTU-2		RTU-3		FCU-1	
MANDATORY MEASURES	T-24 Sections	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³	
Heating Equipment Efficiency ⁴	110.1 or 110.2(a)	80% TE	80% TE	80% TE	80% TE	80% TE	80% TE	
Cooling Equipment Efficiency ⁴	110.1 or 110.2(a)	13 SEER	12.2 IEER	13 SEER	12.2 IEER	14SEER,12.2EER	14SEER,12.2EE	
Thermostats ⁵	110.2(b), 110.2(c)	Setback	7 day program	Setback	7 day program	Setback	7 day program	
Furnace Standby Loss Control ⁶	110.2(d)	n/a		n/a		n/a		
Low Leakage AHU	110.2(f)	NR	No	NR	No	NR	no	
Ventilation ⁷	120.1(b)	0.15cfm/sqft	0.15cfm/sqft	0.15cfm/sqft	0.15cfm/sqft	0.15cfm/sqft	0.15cfm/sqft	
Demand Control Ventilation ⁸	120.1(c)4	Req	Yes	Req	Yes	NR	No	
Occupant Sensor Ventilation Control ⁸	120.1(c)5, 120.2(e)3	NR		NR		NR		
Shutoff and Reset Controls ⁹	120.2(e)	Req	program clock	Req	program clock	Req	program clock	
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	provided	Req	provided	n/a	n/a	
Automatic Demand Shed Controls	120.2(h)	Req	provided	Req	provided	NR	No/critical zon	
Economizer FDD	120.2(i)	Req	provided	Req	provided	NR	No	
Duct Insulation	120.4	R-4.2	R-4.2	R-4.2	R-4.2	n/a	n/a	
PRESCRIPTIVE MEASURES								
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Req	Yes	Req	Yes	Req	Yes	
Economizer	140.4(e)	Req	Yes	Req	Yes	Req	Yes	
Electric Resistance Heating ¹⁰	140.4(g)	No	No	No	No	No	No	
Duct Leakage Sealing and Testing. ¹¹	140.4(I)	NR	No	NR	No	NR	No	

1. Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together. Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).

For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified. Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).

In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.

If the unit has a furnace which is rated at ≥ 225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".

In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.

If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)

In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock). 10. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.

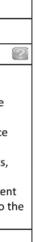
11. If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted. CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

REQUIREMENTS FOR PACKAGED SINGLE ZONE UN CEC-NRCC-MCH-05-E (Revised 01/16)	ITS	
CERTIFICATE OF COMPLIANCE		NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units		(Page 2 of 2)
Project Name: Compton College Administration Building Renovation		Date Prepared: 2/21/2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate and c	omplete.	
Documentation Author Name: Jessica Hughey	Documentation Author Signature:	
Company: Capital Engineering Consultants, Inc.	Signature Date: 2/21/2019	
Address: 11020 Sun Center Drive, Suite 100	CEA/ -HERS Certification Identification (if applicable):	
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
 I certify the following under penalty of perjury, under the laws of the State 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 designer). The energy features and performance specifications, materials, component conform to the requirements of Title 24, Part 1 and Part 6 of the California 4. The building design features or system design features identified on this Certificate of Compliance submitted to the enforce I will ensure that a completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that a completed signed building owner at occupancy. 	ect. t responsibility for the building design or system des s, and manufactured devices for the building design Code of Regulations. rtificate of Compliance are consistent with the inform ment agency for approval with this building permit a shall be made available with the building permit(s) is copy of this Certificate of Compliance is required to	or system design identified on this Certificate of Compliance mation provided on other applicable compliance documents, application. ssued for the building, and made available to the enforcement
Responsible Designer Name:	Responsible Designer Signature:	
Company: Capital Engineering Consultants, Inc.	Date Signed: 2/21/2019	
Address: 11020 Sun Center Drive, Suite 100	License:	
City/State/Zip: Rancho Cordova, CA 95670	Phone: (916) 851-3500	

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January 2016

CER	NRCC-PLB-01-E (Revised 01/16) TIFICATE OF COMPLIANCE		CALIFORNIA ENERGY	NRCC-PLB-01-E
	ter Heating System General Information			(Page 1 of 2)
	^{t Name:} Compton College Administration Building Remo	odel	Date Prepared: 2/21/2019	(10001012)
	compton conege Automistration building Kent	odei	2/21/2019	
A. G	ENERAL INFORMATION/SYSTEM INFORMATIO	DN		
01	Water Heater System Name:	GWH-1		
02	Water Heater System Configuration:			
03	Water Heater System Type:	Domestic Hot Water		
04	Building Type:	Nonresidential		
05	Total Number of Water Heaters in Systems:	1		
06	Central DHW Distribution Type:			
07	Dwelling Unit DHW Distribution Type:			
02	Fuel Type:	Gas		
01	Water Heater Type:	Large Storage - Gas		
03	Manufacture Name:	Lochinvar		
04	Model Number:	CLN 120 080		
05	Number of Identical Water Heaters:	1		
06	Installed Water Heater System Efficiency:	80% TE		
07	Required Minimum Efficiency:	80% TE		
	Standby Loss Percent or Standby Loss Total:			
08		120,000		
08 09	Rated Input:	120,000		
	Rated Input: Pilot Energy:	NA		
09		,		
09 10	Pilot Energy:	NA		
09 10 11	Pilot Energy: Water Heater Tank Storage Volume:	NA 81		
09 10 11 12	Pilot Energy: Water Heater Tank Storage Volume: Exterior Insulation on Water Heater:	NA 81 NA NA		

Check b	ox if wo	orksheet is included.	
		-	s and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: Th	e Enforc	ement Agency may requ	ire all compliance documents to be incorporated onto the building plans.
YES	NO	Doc/Worksheet #	Title
\odot	0	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
\odot	0	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
0	۲	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
0	ullet	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
0	۲	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
0	۲	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in hi rise residential, hotel/motel application.
0	\odot	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION

	B-01-E (Revised 01/16)		CALIFORNIA ENERGY COMMISSION
	E OF COMPLIANCE		NRCC-PLB-01-E
	ing System General Information		(Page 2 of 2)
Project Name: Co	mpton College Administration Building Remodel		Date Prepared: 2/21/2019
DOCUMENT	ATION AUTHOR'S DECLARATION STATEMENT		
1. I certify	that this Certificate of Compliance documentation is		
Documentation	Author Name: Jessica Hughey	Documentation Author Signa	iture:
	tal Engineering Consultants, Inc.	Signature Date: 2/21/201	9
Address: 11020	0 Sun Center Dr, Suite 100	CEA/ HERS Certification Ident	tification (if applicable):
City/State/Zip: F	Rancho Cordova CA 95670	Phone: (916) 851-3500	
	E PERSON'S DECLARATION STATEMENT	•	
I certify the	following under penalty of perjury, under the laws of	the State of California:	
1. The info	ormation provided on this Certificate of Compliance i	s true and correct.	
2. I am eli	gible under Division 3 of the Business and Profession	s Code to accept responsibi	ility for the building design or system design
identifi	ed on this Certificate of Compliance (responsible desi	gner).	
3. The end	ergy features and performance specifications, materi	als, components, and manu	ifactured devices for the building design or
system	design identified on this Certificate of Compliance co	nform to the requirements	s of Title 24, Part 1 and Part 6 of the
Califorr	nia Code of Regulations.		
4. The bui	ilding design features or system design features ident	ified on this Certificate of C	Compliance are consistent with the
	ation provided on other applicable compliance docun		ions, plans and specifications submitted to
	orcement agency for approval with this building pern		
	nsure that a completed signed copy of this Certificate	-	
	for the building, and made available to the enforcem		
signed	copy of this Certificate of Compliance is required to b	e included with the docum	entation the builder provides to the building
	at occupancy.		
Responsible Des	signer Name:	Responsible Designer Signate	ure:
Company : Cap	ital Engineering	Date Signed:	
	0 Sun Center Dr, Suite 100	License:	

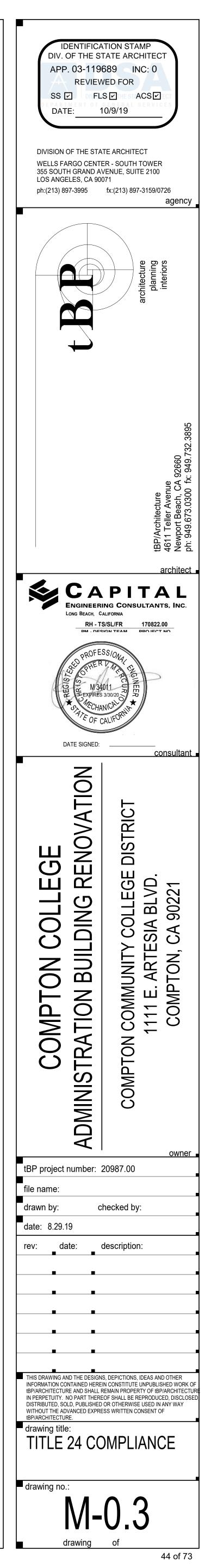
one: (916) 851-3500

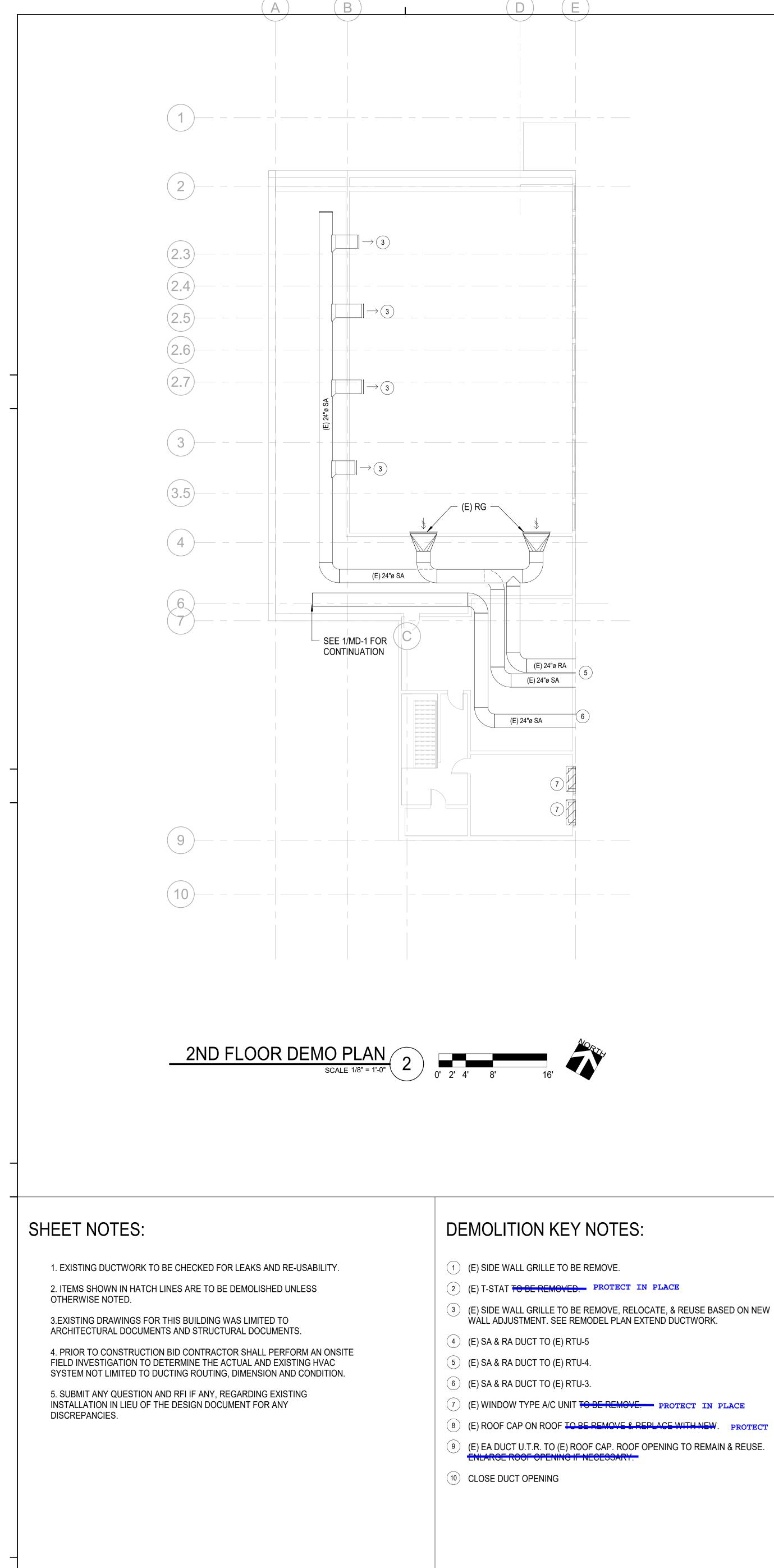
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
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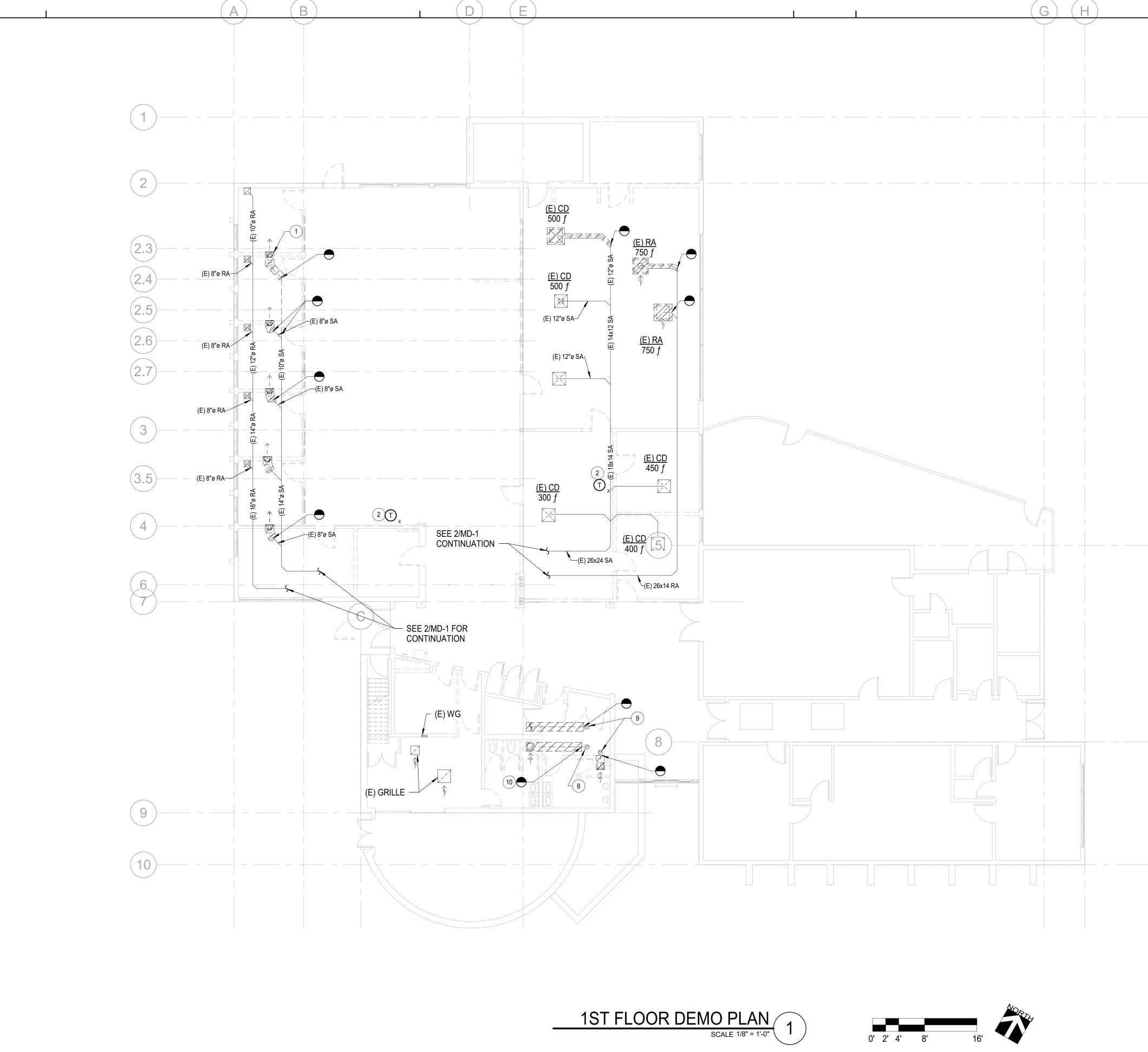
^{City/State/Zip:} Rancho Cordova CA 95670

January 2016

January 2016

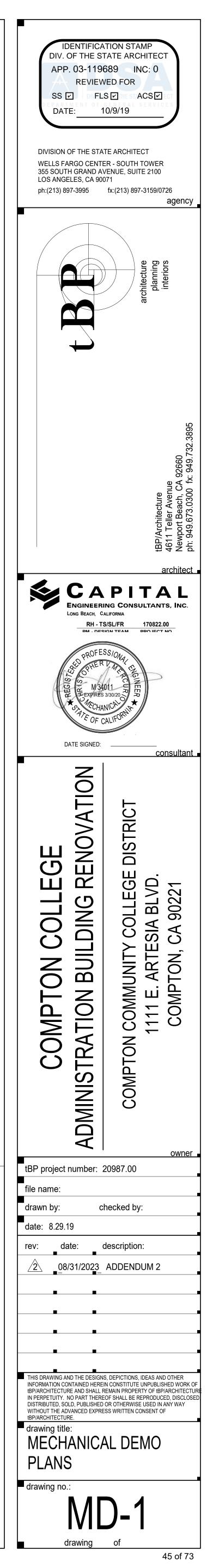


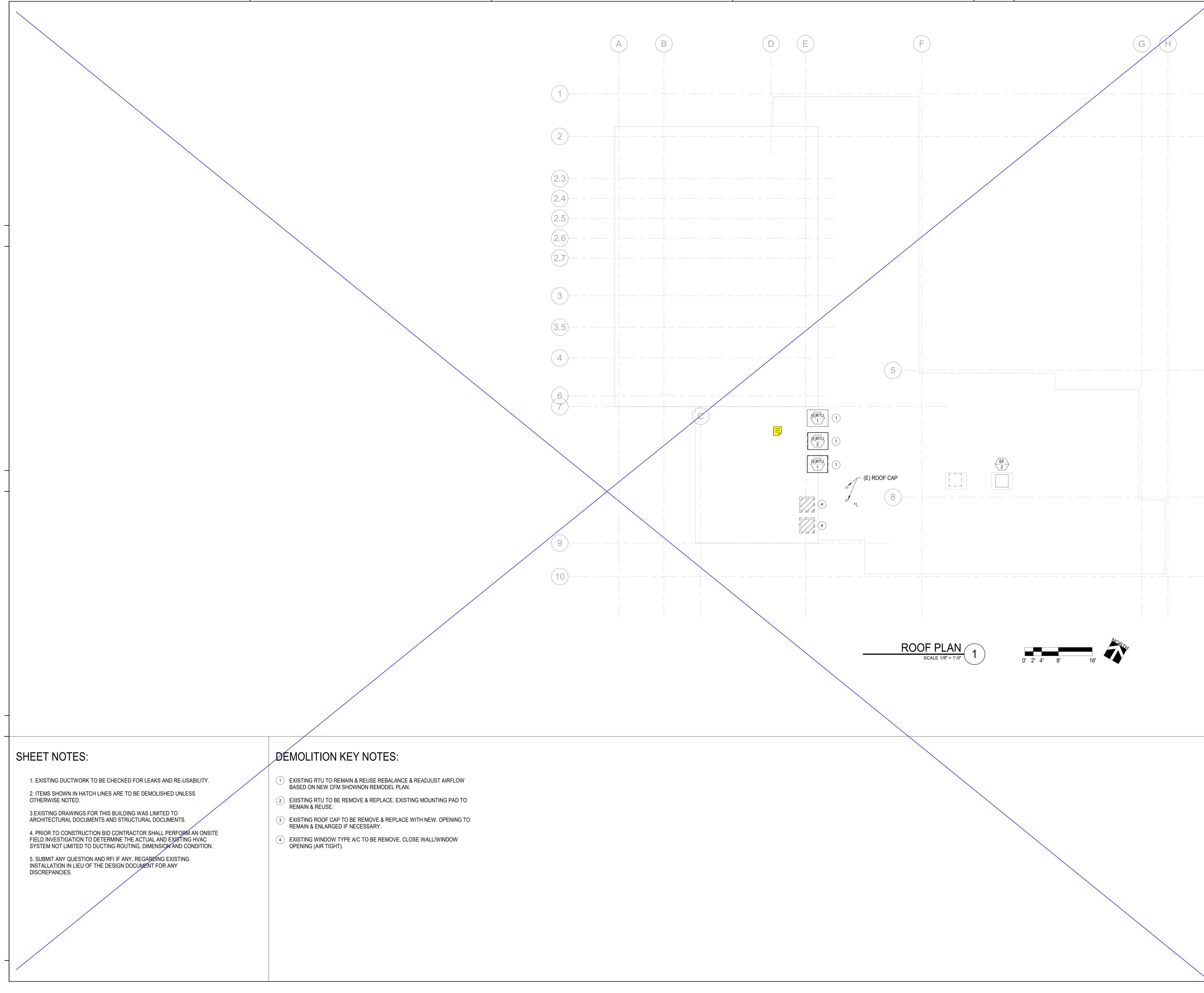


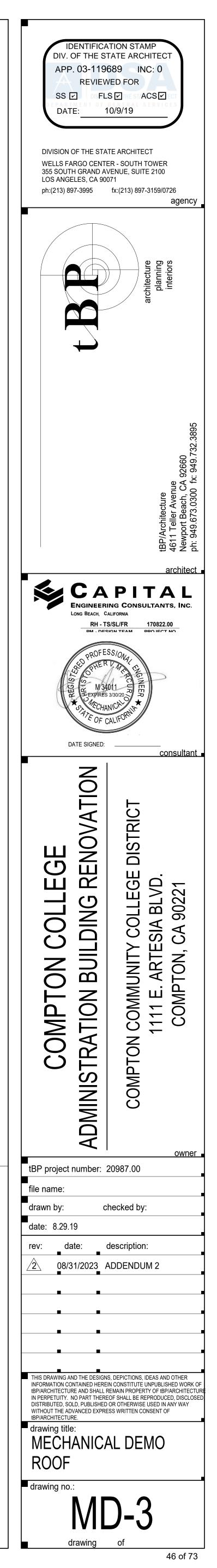


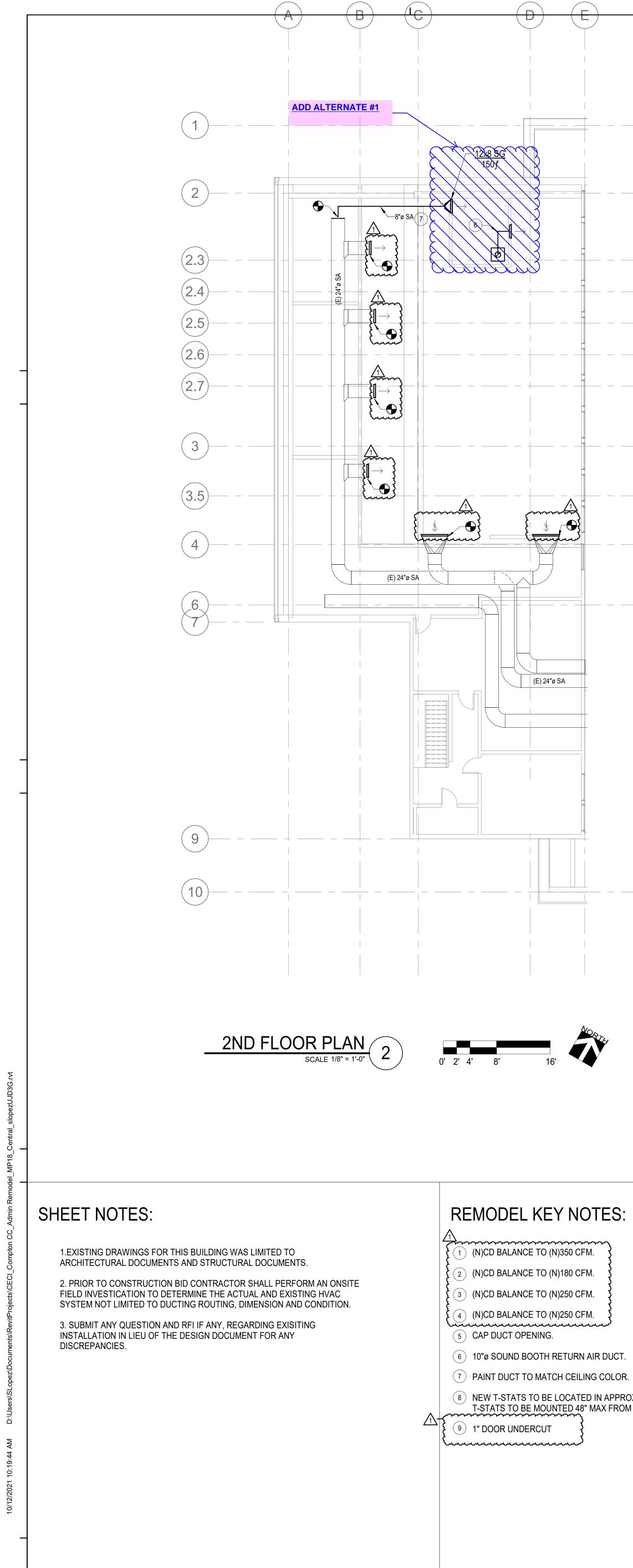
(8) (E) ROOF CAP ON ROOF TO BE REMOVE & REPLACE WITH NEW. PROTECT IN PLACE

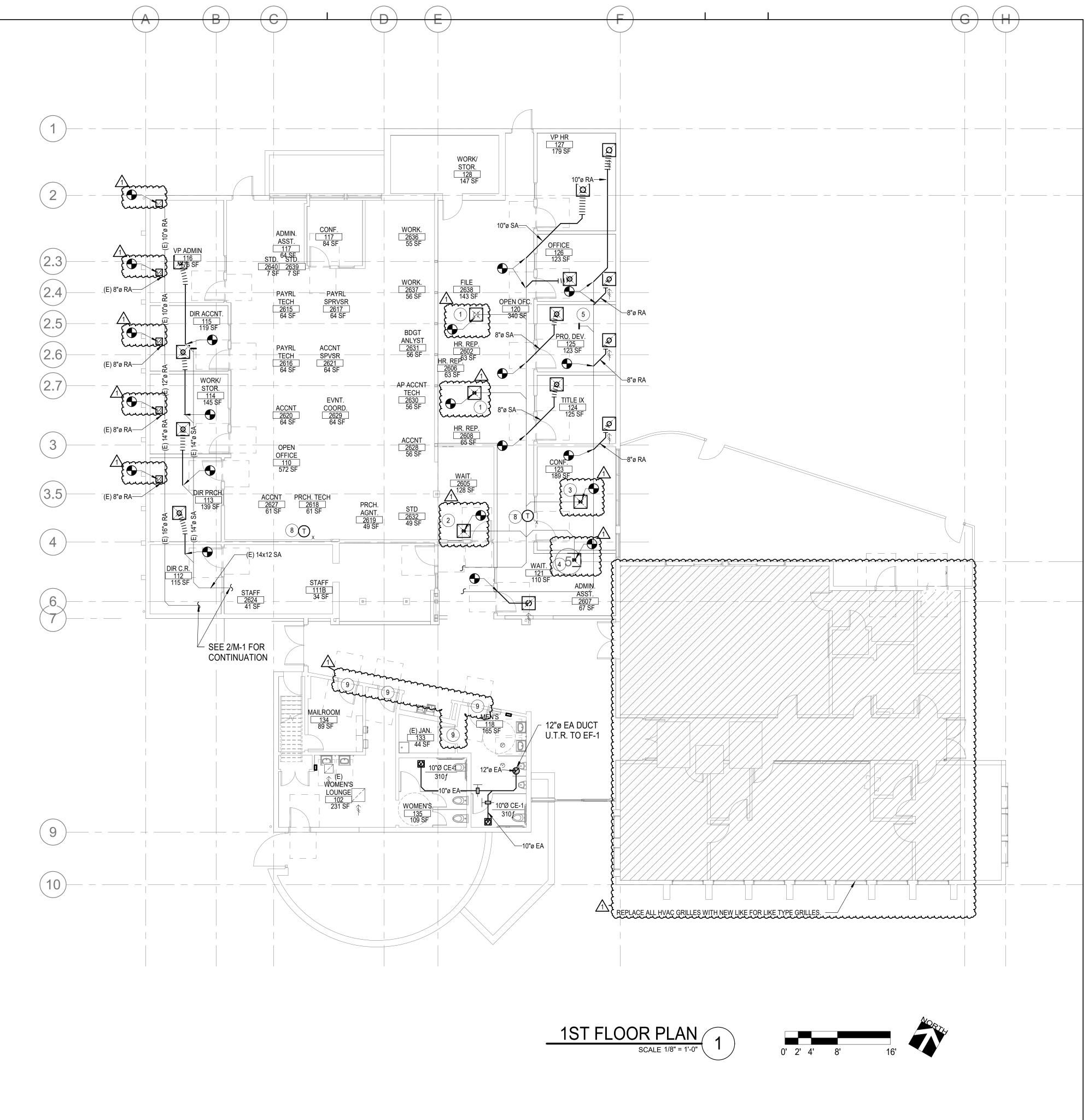




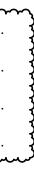




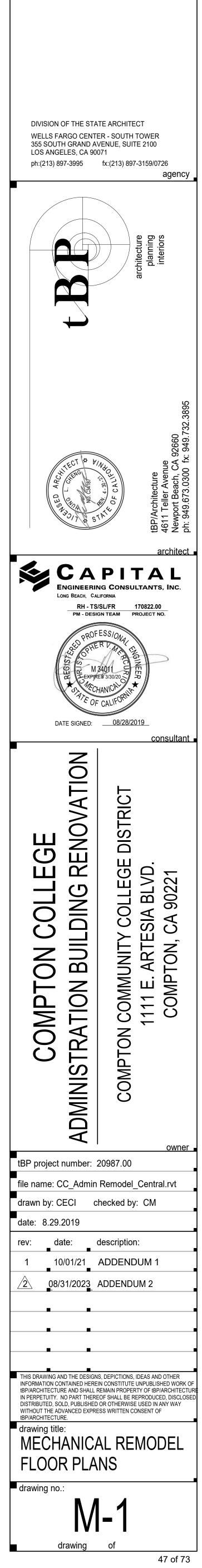




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8 NEW T-STATS TO BE LOCATED IN APPROX. SAME LOCATION AS PREVIOSULY DEMO'D T-STATS. T-STATS TO BE MOUNTED 48" MAX FROM AFF. TO HIGHEST OPERABLE PART.

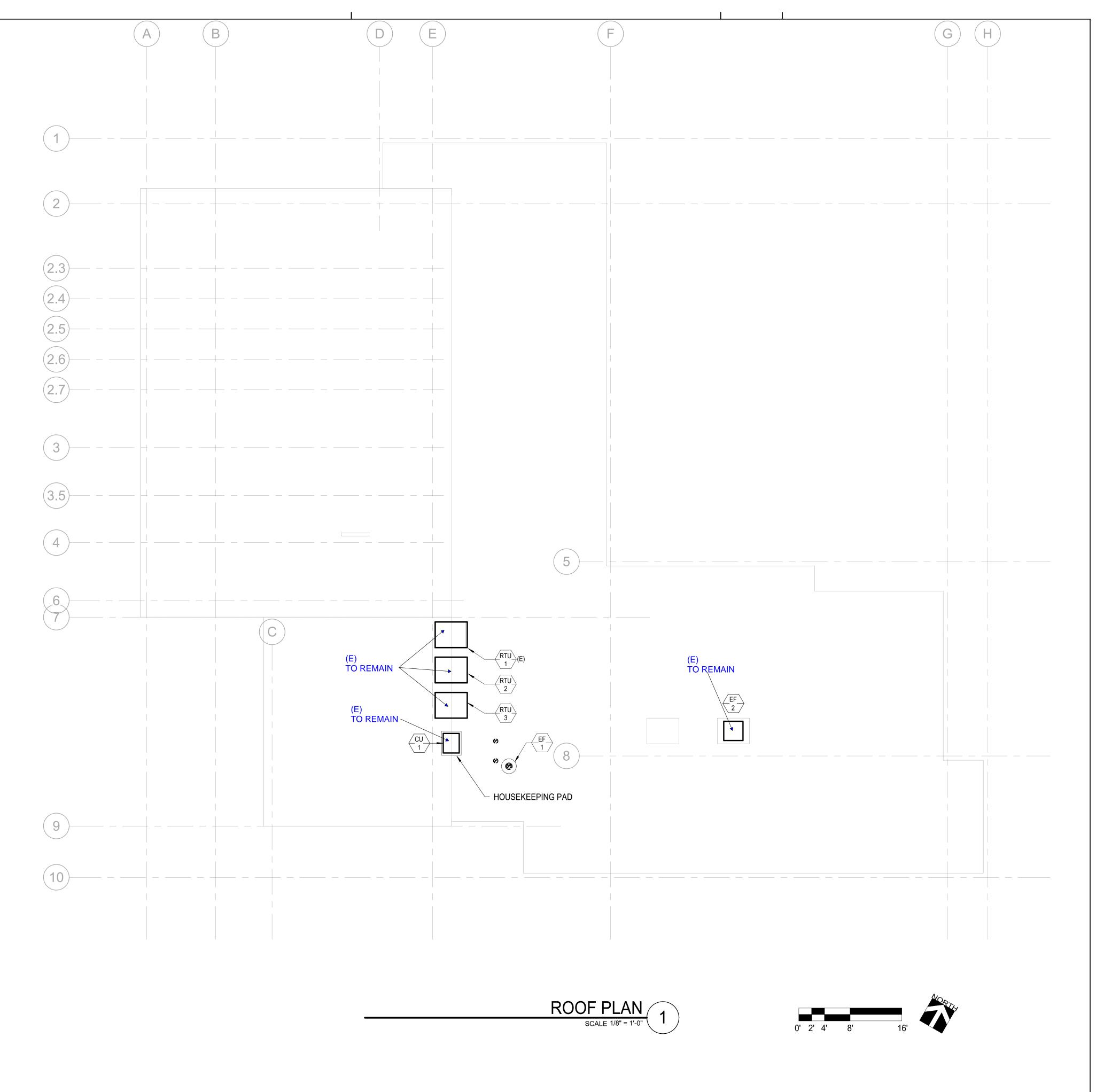


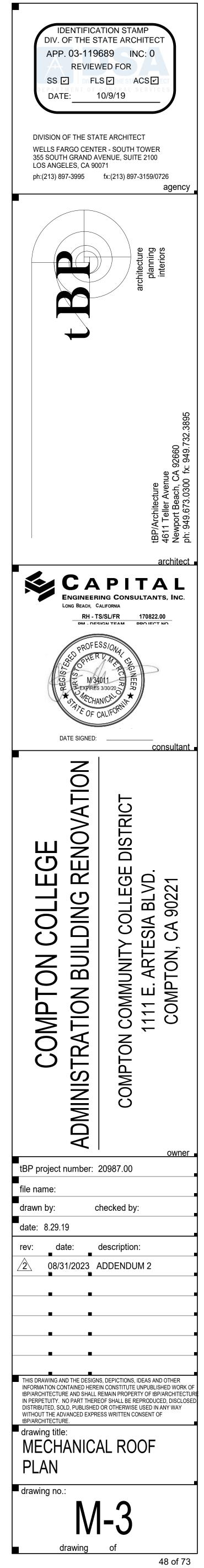
SHEET NOTES:

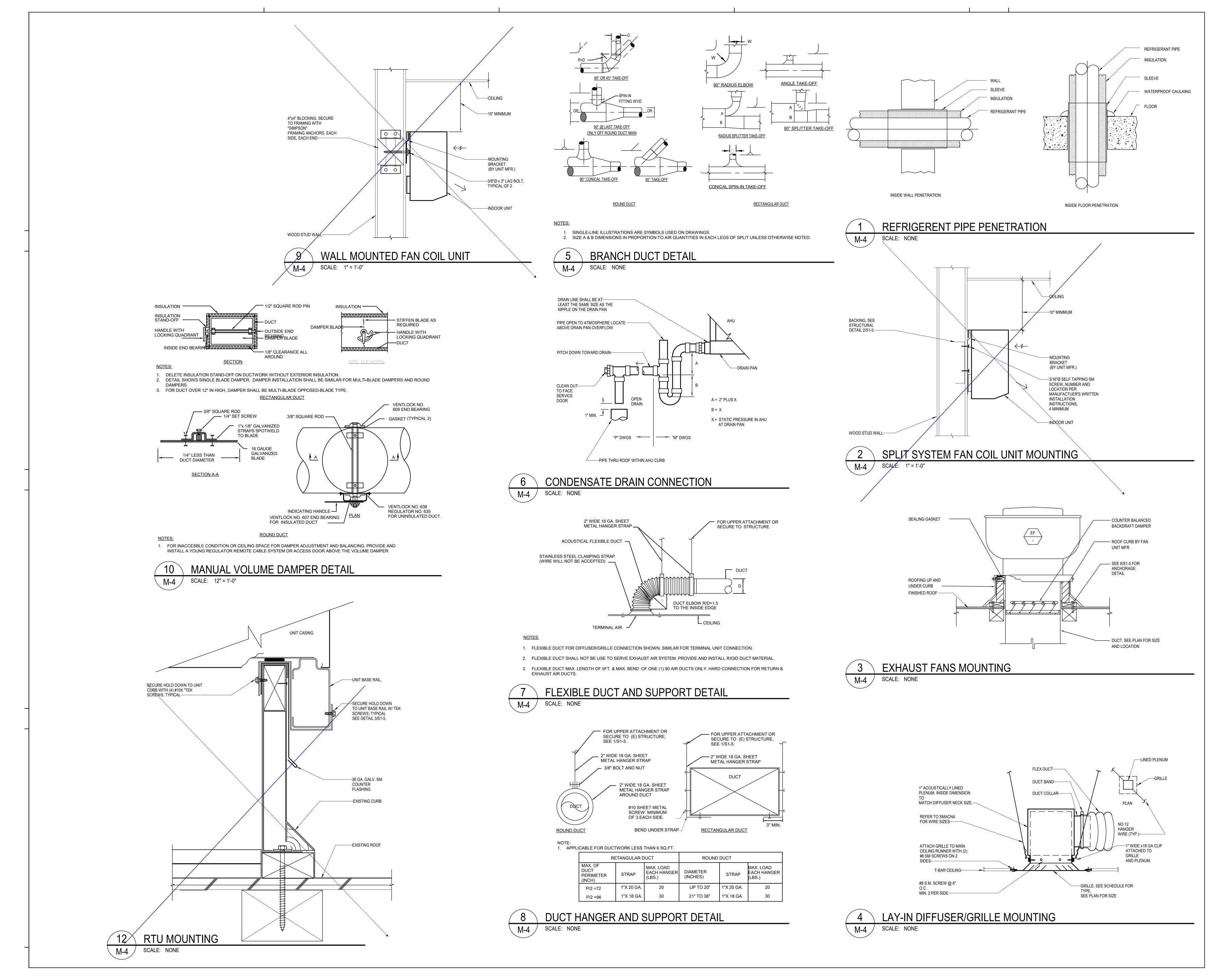
1.EXISTING DRAWINGS FOR THIS BUILDING WAS LIMITED TO ARCHITECTURAL DOCUMENTS AND STRUCTURAL DOCUMENTS.

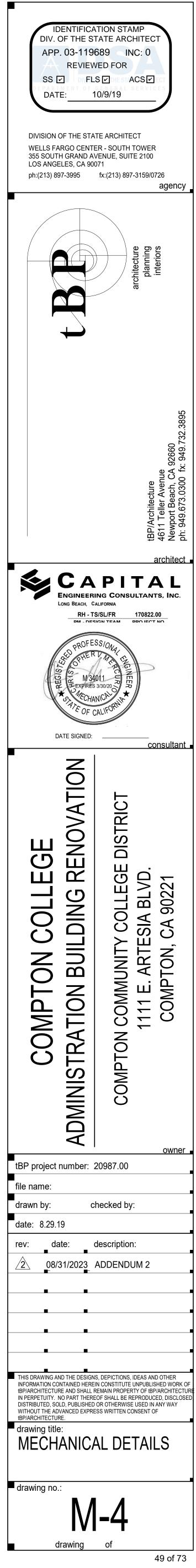
2. PRIOR TO CONSTRUCTION BID CONTRACTOR SHALL PERFORM AN ONSITE FIELD INVESTICATION TO DETERMINE THE ACTUAL AND EXISTING HVAC SYSTEM NOT LIMITED TO DUCTING ROUTING, DIMENSION AND CONDITION.

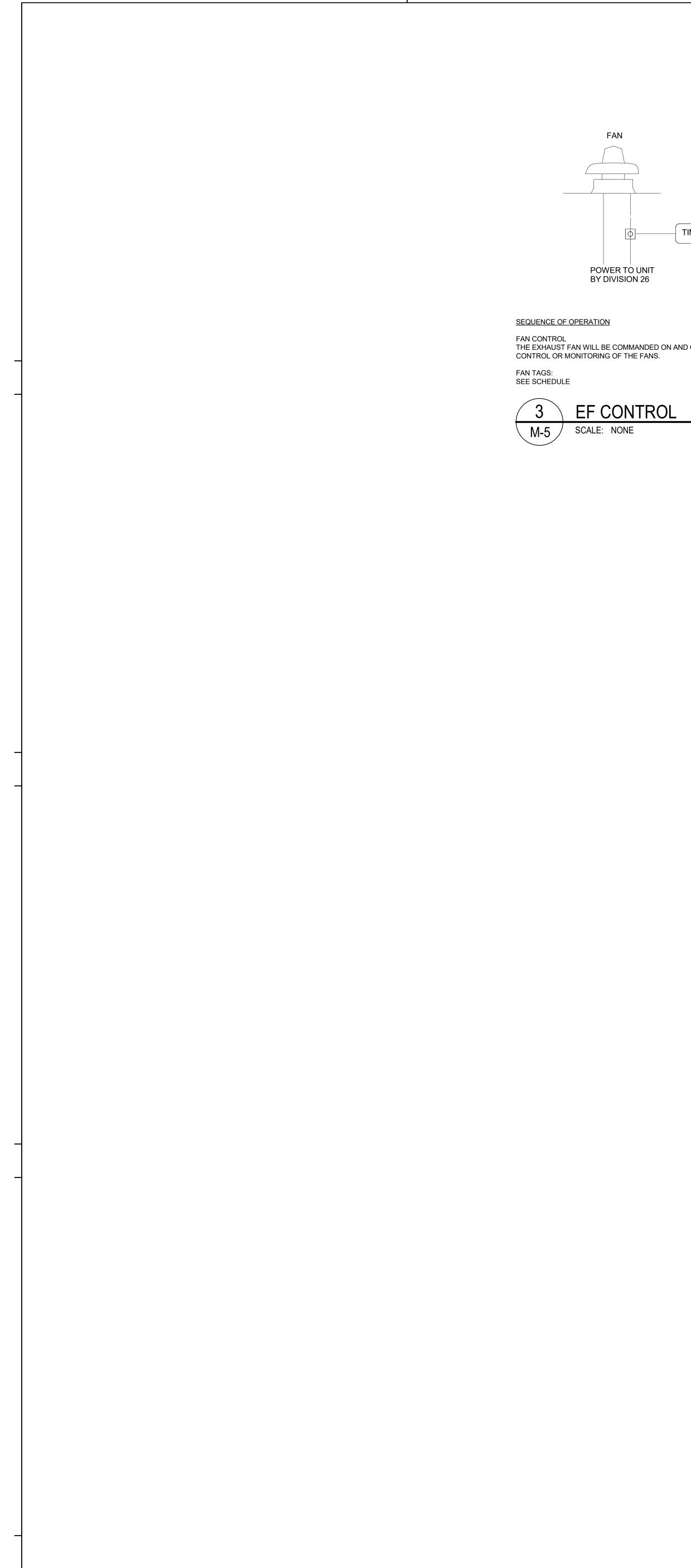
3. SUBMIT ANY QUESTION AND RFI IF ANY, REGARDING EXISITING INSTALLATION IN LIEU OF THE DESIGN DOCUMENT FOR ANY DISCREPANCIES.







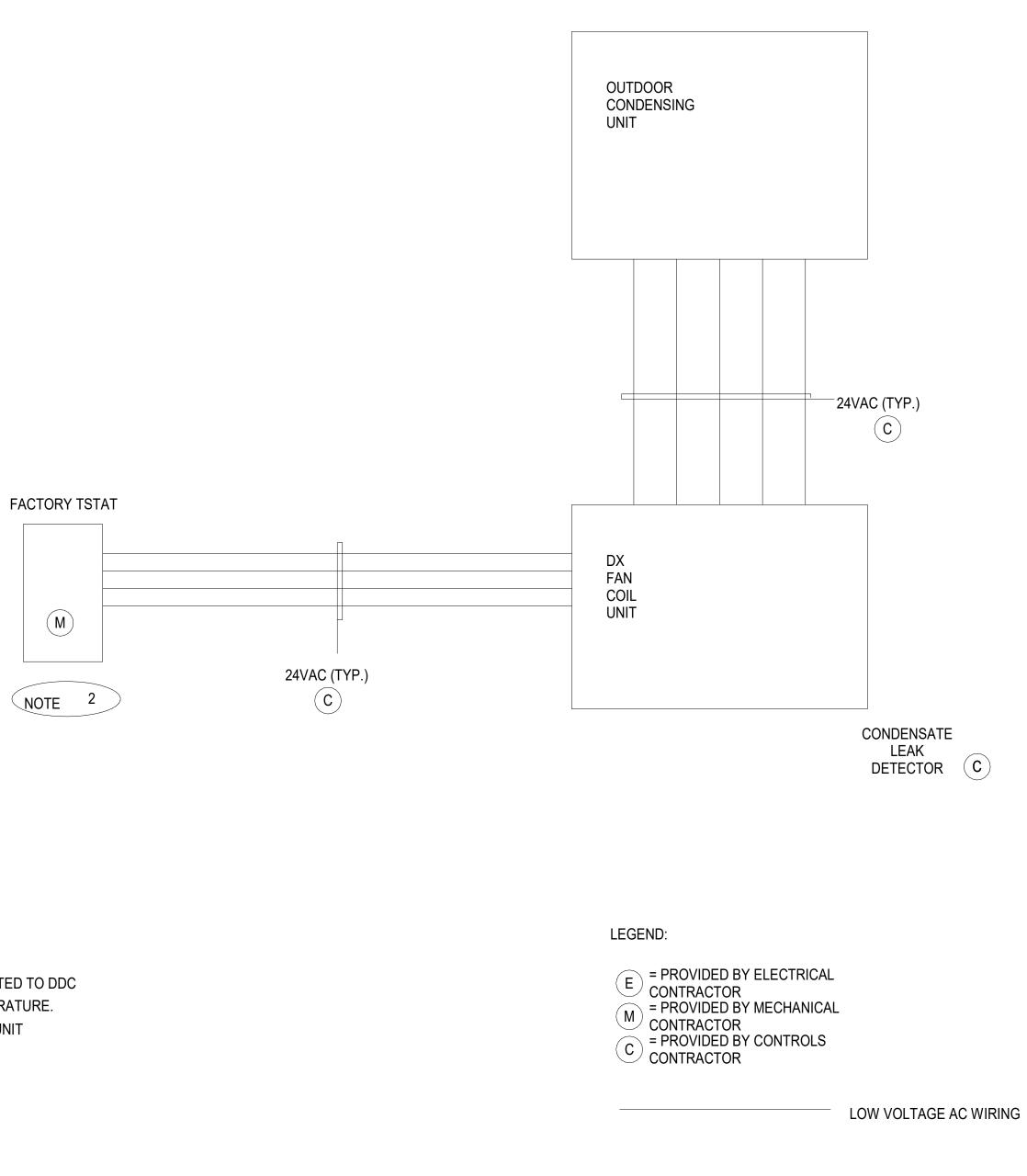




PROVIDED, POWERED AND INSTALLED BY **DIVISION 26**

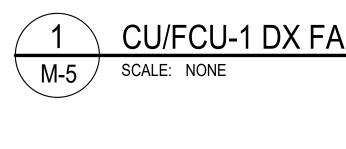
TIMER

THE EXHAUST FAN WILL BE COMMANDED ON AND OFF WITH THE LIGHTS. THE BMS WILL DO NO



NOTES:

1. SPACE TEMP SENSOR TO BE CONNECTED TO DDC CONTROLLER. ALARM ON HIGH TEMPERATURE. 2. SPACE THERMOSTAT FURNISHED BY UNIT MANUFACTURER.



ZN-T	CONTROLS CONTRACTOR TO INSTALL PRESSURE TUBING TO THE MANUFACTURE PROVIDED TRANSDUCER
OCC -OVR BI ZN-ADJ AI	MOD PWR EX MFGR ECON BY UNIT MFGR
ZN-OCC AI	

OA **CEILING MOUNT - All Others**

> CLG1-C HTG1-C SF-C CLG2-C

SUPPLY FAN CONTROL: WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. SINGLE ZONE VAV (WHERE APPLICABLE - SEE SCHEDULE):

FULL COOLING. ECONOMIZER CONTROL:

TEMPERATURE CONTROL:

OCCUPIED MODE: SENSOR WILL PLACE THE UNIT IN OCCUPIED MODE FOR AN ADJUSTABLE TIME. UNOCCUPIED MODE:

COOLING COIL:

GAS HEATING COIL:

UNIT PROTECTION: OCCUPANCY DETECTION (FOR UNITS WITHOUT CO2 CONTROL):

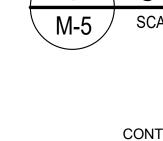
DEMAND CONTROL VENTILATION (FOR APPLICABLE UNITS - WITH CO2 SENSOR MINIMUM ECONOMIZER POSITION TO BE DETERMINED DURING SYSTEM BALANCE.

"OCCUPIED MODE" FOR A PERIOD OF 1 HOUR.

ZONE PRESSURE CONTROL:

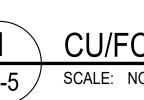


AC UNIT CONTROL SCALE: NONE



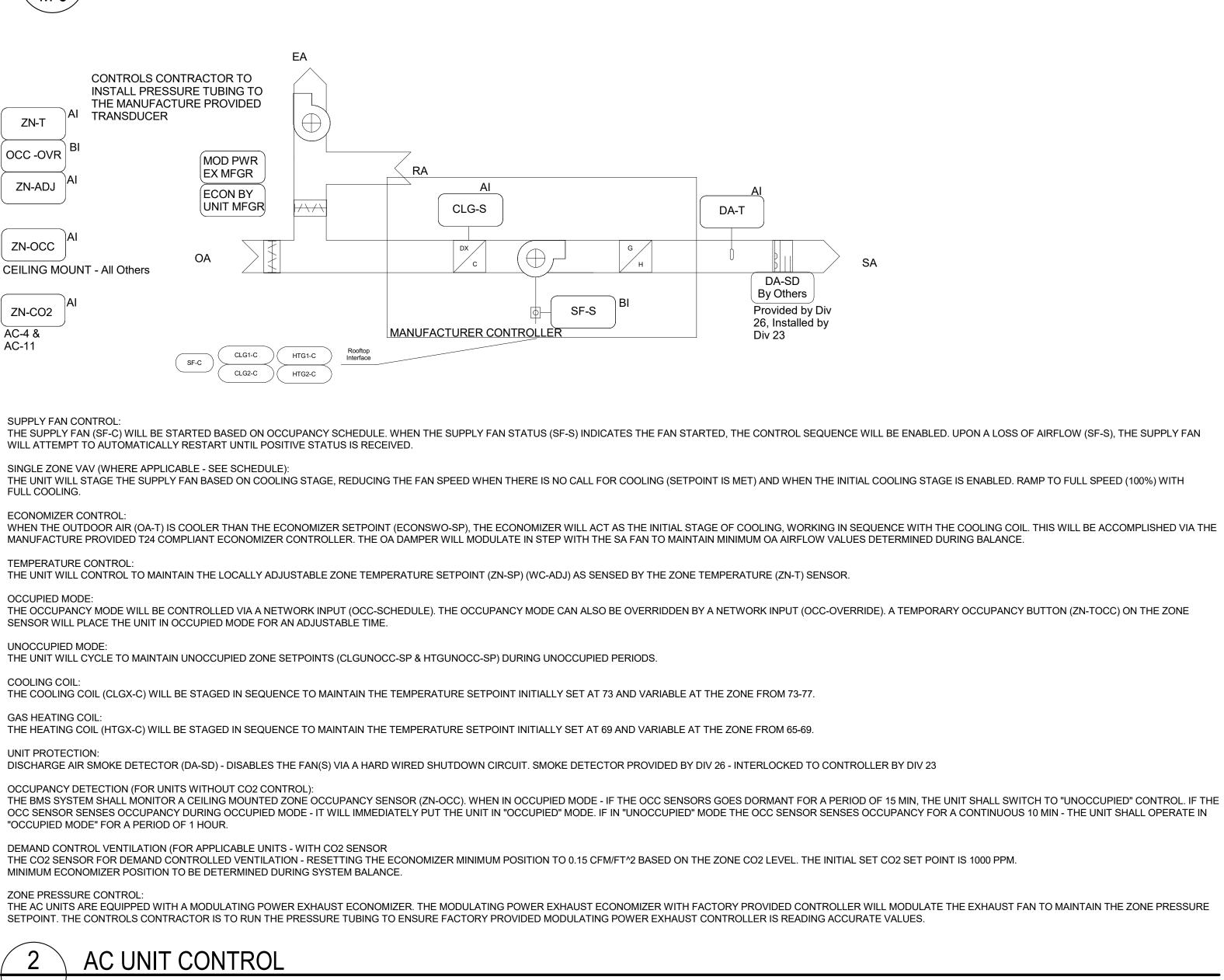
ZN-CO2

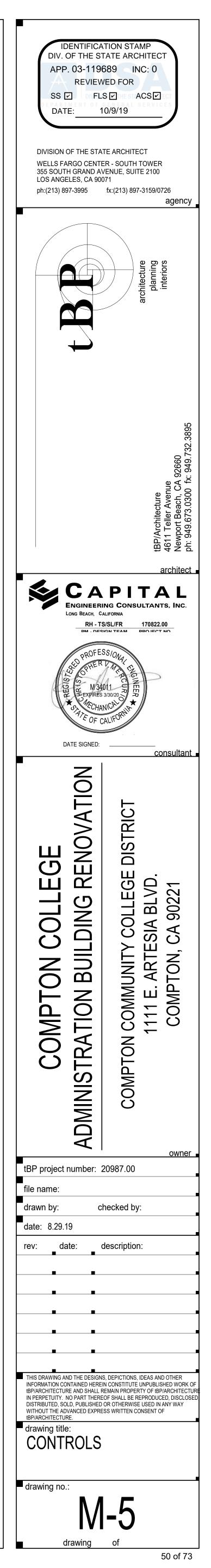
AC-4 & AC-11



(TYPICAL)

CU/FCU-1 DX FAN COIL CONTROL DIAGRAM





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	GREEN BUILDING CODE NOTES
1.	A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPOROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INVIDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
2.	AN OPERATING & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
3.	IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS IMEEDIATELY PRIOR TO OCCUPANCY.
4.	ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENING SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT.
5.	THE HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS.
6.	HVAC AND WATER SYSTEMS TO BE BALANCED PER AABBC STANDARDS.
7.	SYSTEM DESCRIPTION: HVAC SYSTEM CONSIST OF MULTIPLE ZONE VARIABLE VOLUME & CONSTANT VOLUME AIR HANDLING SYSTEMS AND STAND ALONE SPLIT SYSTEM DX UNITS.
	DSA NOTES
1.	ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2.	THE SCOPE OF WORK; CLEARLY INDICATED THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
3.	FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
4.	CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE
	DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5.	DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
	A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS
6.	A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND

REEN BUILDING CODE NOTES

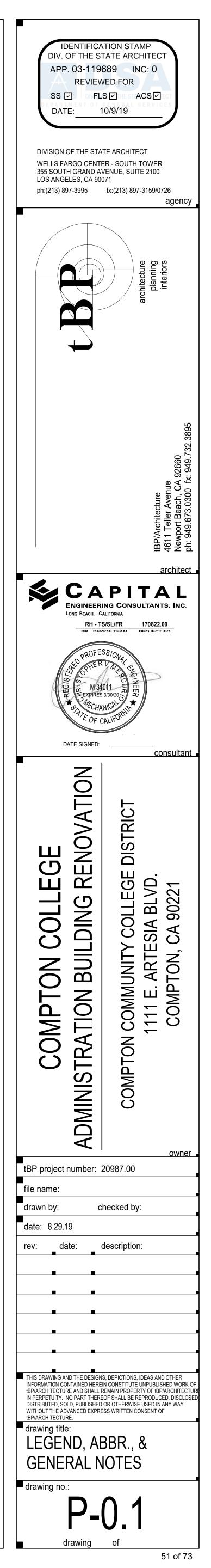
ING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPOROVAL BY THE T SHALL BE SIGNED BY THE INVIDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

DSA NOTES

GENERAL NOTES		PLU	MBING LEGEND
	SYMBOL	ABBREVIATION	DESCRIPTION
 ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310. ARCHITECT TO APPROVE TYPE/FINISH PRIOR TO INSTALLATION. 		ABV CLG	ABOVE CEILING
2. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.		BFP BLV	BACKFLOW PREVENTER ASSEMBLY BALANCING VALVE
3. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.	<u>–</u> б	BLW BV	BELOW BALL VALVE
 THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS. 		50	BRANCH - TOP CONNECTION
 PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201. 			BRANCH - BOTTOM CONNECTION BRANCH - SIDE CONNECTION
 6. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' 		COP	CAP ON END OF PIPE
SHEETS, FOR TYPICAL ARRANGEMENT.	CL	RD	ROOF DRAIN CENTER LINE
7. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY THE PROJECT ARCHITECT AND CIVIL ENGINEER IMMEDIATELY IF		CKV CW	CHECK VALVE COLD WATER
POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.	CD	CD	CONDENSATE DRAIN LINE
 OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT STRUCTURAL TOP PLATES. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL 		СО	CLEANOUT DEGREES FAHRENHEIT
SHALL BE A UL LISTED & TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.	F	F	FIRE PROTECTION WATER SUPPLY
10. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.		FR FU	FROM FIXTURE UNIT
11. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.	ø	FU CO	FIXTURE UNIT CLEANOUT
12. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE	<i>⊘</i>	FD FS	FLOOR DRAIN FLOOR SINK
ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.	FV, FT		FLOW IN DIRECTION OF ARROW FLUSH VALVE , FLUSH TANK
13. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.	(FA) , (TA)		FROM ABOVE , TO ABOVE
14. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF	(FB), (TB) IŲ́	GSOV	FROM BELOW , TO BELOW GAS SHUT-OFF VALVE
ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.		HDR NGLP	HEADER NATURAL GAS - LOW PRESSURE
15. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ 3/8" - SEE STRUCTURAL PLAN, S1.1.		MPG	NATURAL GAS - MEDIUM PRESSURE
16. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.	R	GPR GV	GAS PRESSURE REGULATOR GREASE VENT
17. PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.	Ø	GPM CO	GALLONS PER MINUTE CLEANOUT
18. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE	GW	GW HB	GREASE WASTE PIPING HOSE BIBB
AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.		HW	HOT WATER PIPING
19. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.		HWR (N) , (E)	HOT WATER RETURN PIPING NEW , EXISTING
20. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.		(NTS) OH	NOT TO SCALE OVERHEAD
21. THE CONNECTION OF NATURAL GAS LINES TO HVAC EQUIPMENT SHALL, BE FULL LINE SIZE & INCLUDE A LINE SIZE UNION, GAS SHUT-OFF VALVE AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.	——————————————————————————————————————	OD	OVERFLOW DRAIN PIPING TO BE REMOVED
22. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER	€ ©	POC	POINT OF CONNECTION PRESSURE GAUGE
EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS. ALSO REFER TO SPECIFICATION SECTIONS 22 00 50, 22 10 00 AND 22 40 00.	P & TRV	PG P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
	RWL	RWL IE.:	RAINWATER LEADER INVERT ELEVATION
PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION		(R) , (D)	RISE , DROP RISER DOWN (ELBOW)
SYSTEM EMBRACING NOTE		(R) (D)	RISER UP (ELBOW) RISE OR DROP
		S, W S, W	SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES		SMR	SIMILAR
AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.	SD	SV SD	SOLENOID VALVE WITH MOTOR ACTUATOR STORM DRAIN
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 PREAPPROVED	SS	SS TH	SANITARY SEWER THERMOMETER
INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM). 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	<u></u> ₽	TP w/AD	TRAP PRIMER VALVE IN WALL BOX WITH ACCESS DOOR. SEE PLUMBING DETAILS.
ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION	TP	(TYP.)	TRAP PRIMER PIPING TYPICAL
SYSTEMS (E):		UN VB	UNION OR FLANGE VALVE IN VALVE BOX
MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS		VB	(REFER TO SPECIFICATIONS FOR VALVE TYPE).
MP MD PPX E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_0043-13	V , VR , VTR	V	VENT PIPING VENT , VENT RISER , VENT THRU ROOF
MP MD PP OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHP	, 	WCO WHA	WALL CLEANOUT WATER HAMMER ARRESTER
EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES		TDL	TOTAL DEVELOPED LENGTH
AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.	M	IEP COMPON	IENT ANCHORAGE NOTE
	CONSTRUCTION DOCUM	IENTS. WHERE NO DETAIL IS IND	NENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED DICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE DIED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13,
PLUMBING SHEET LIST	26 AND 30.		
SHEET NUMBER SHEET TITLE P-0.1 LEGEND, ABBR., & GENERAL NOTES	1. ALL PERM	ANENT EQUIPMENT AND COMPO	NENTS.
P-0.2 PLUMBING SCHEDULES	UTILITY SE	RVICES SUCH AS ELECTRICITY,	
P-1 PLUMBING REMODEL FLOOR PLANS P-3 PLUMBING ROOF PLAN			ED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN DRED WITH TEMPORARY ATTACHMENTS.
P-4PLUMBING DETAILSPD-1PLUMBING DEMO PLANS	THE ATTACHMENT NEED		ND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE ID CONDUIT.
			POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR DOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
		PER FOOT, WHICH ARE SUSPEN	OUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN NDED FROM A ROOF OR FLOOR OR HUNG
	OF THE DESIGN PROFES	SSIONAL IN GENERAL RESPONSI	S ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL BLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA

OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN

ACCORDANCE WITH ABOVE REQUIREMENTS.



ADA SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE TRIM No. MANUFACTURER AND MODEL No.		REMARKS	VENT	WASTE	COLD W		HOT V	
WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE	"KOHLER" KINGSTON 1.28, NO. K-4325, WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD. 1.28 GPF	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "JAY R. SMITH" 100 OR 200 SERIES OR 500# RATED "ZURN" Z1201 AND Z1202 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	BRANCH OUTLE	BRANCH	OUTLET	BRANCH	OUTLET
WC-2	WATER CLOSET WALL MOUNTED FLUSH VALVE ACCESSIBLE	"KOHLER" KINGSTON 1.28, NO. K-4325, WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD. 1.28 GPF	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "JAY R. SMITH" 100 OR 200 SERIES OR 500# RATED "ZURN" Z1201 AND Z1202 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4" 4"	1-1/4"	1"		-
UR-1	URINAL WALL MOUNTED FLUSH VALVE ACCESSIBLE	"KOHLER" BARDON 1/8 GPF NO. K-4991-ET WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET125 GPF	"SLOAN" ROYAL HEU 186-0.125, 0.125 GPF (MANUAL)	CARRIER: "JAY R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1-1/2"	2" 2"	1"	3/4"		
L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4" x 18-1/8" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. INSTALL INSULATION PROTECTION FOR EXPOSED PIPES AND FITTINGS UNDER FIXTURE LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "JAY R. SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2" 1-1/2"	3/4"	1/2"	3/4"	1/2"
S-1	SINK COUNTER MOUNTED HOT AND COLD WATER	"JUST" SL-ADA-2131-A-GR 21" FRONT TO BACK, 31" WIDE x 6" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE 3 HOLES FAUCET HOLE. PROVIDE CENTER REAR DRAIN LOCATION, FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT BACKING PLATE SHALL BE 14 GA SS FORMED AS CHANNEL.	"CHICAGO" ECAST MODEL 201-AE35-317XKABCP GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT, FLOW AERATOR AND RIGID/SWING FAUCET, 4" CENTER. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT ADA COMPLIANT. INSTALL INSULATION PROTECTION FOR EXPOSED PIPES AND FITTINGS UNDER FIXTURE		1-1/2"	2" 1-1/2"	3/4"	1/2"	3/4"	1/2"
SS-1	SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER	"ACORN TCR-28, TERRAZO-WARE, 28"X28"X12" DEEP FLOOR MOUNTED, TERRAZZO WITH STAINLESS STEEL CAP. UNIT SHALL INCLUDE MODEL KH36 HOSE WITH WALL HANGER, KMH MOP HANGER WITH 3 SPRING LOADED GRIP ON A STAINLESS STEEL BRACKET.	"CHICAGO" MODEL 897-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON. SIDES ADJACENT TO WALLS.	2"	3" 3"	3/4"	3/4"	3/4"	3/4"
HB-1	HOSE BIBB	EXTERIOR WALL MOUNTED - ACORN MODEL 8121CR-LF	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-		3/4"	3/4"	-	-
TP-1	TRAP PRIMER	MIFAB "M-500" SERIES, PRECISION PLUMBING PRODUCTS "PRIME-RITE" OR SIOUX CHIEF MANUFACTURING CO. "PRIME PERFECT"				-		1/2"	1/2"	-	-
FD-1	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-415, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM.				2"	2" 2"	-	-	-	-
DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE HIGH-LOW	"HAWS" NO. 1119 WALL MOUNTED BARRIER-FREE DRINKING FOUNTAIN, 18 GAUGE STAINLESS STEEL WITH FRONT ACCESSIBLE CARTRIDGE. VANDAL RESISTANT BUBBLER HEADS, WASTE STRAINER AND BOTTOM PLATES. POLISHED CHROME-PLATED WITH 1-1/4" INTEGRAL TRAPS.			SUPPORT SYSTEM: MOUNTING PLATE "HAWS" 6700.4 AND SUPPORT CARRIER "HAWS" 6800. PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM WHERE INSTALLED ON CONCRETE O CMU WALL. SET AT HEIGHT INDICATED ON ARCH DWGS.		2" 1-1/2"	3/4"	1/2"	-	-

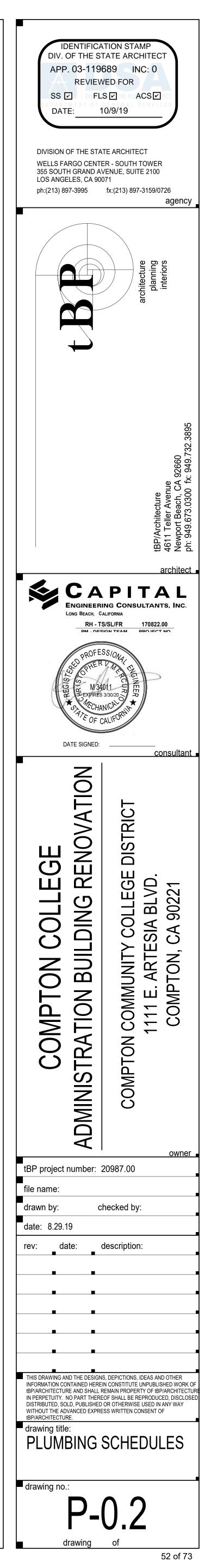
GAS WATER HEATER SCHEDULE													
UNIT	LOCATION	"MFR" MODEL NO.	QTY.	STORAGE CAPACITY GALLONS	MBTU INPUT	RECOVERY GALLONS @ 90°F RISE	MAX. TEMP SETTING	GAS CONN	VOLTAGE	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
GWH 1	JANITOR RM ROOM 113	LOCHINVAR GTN040 40B	1	40	40	42	120	3/4"	120V/1Ø	466 LBS.	6 P7-01	3 P7-02	80% THERMAL EFF.,MEETS SCAQMD RULE 1146.2 DIMENSION: 64"HIGH x 18"DIA.

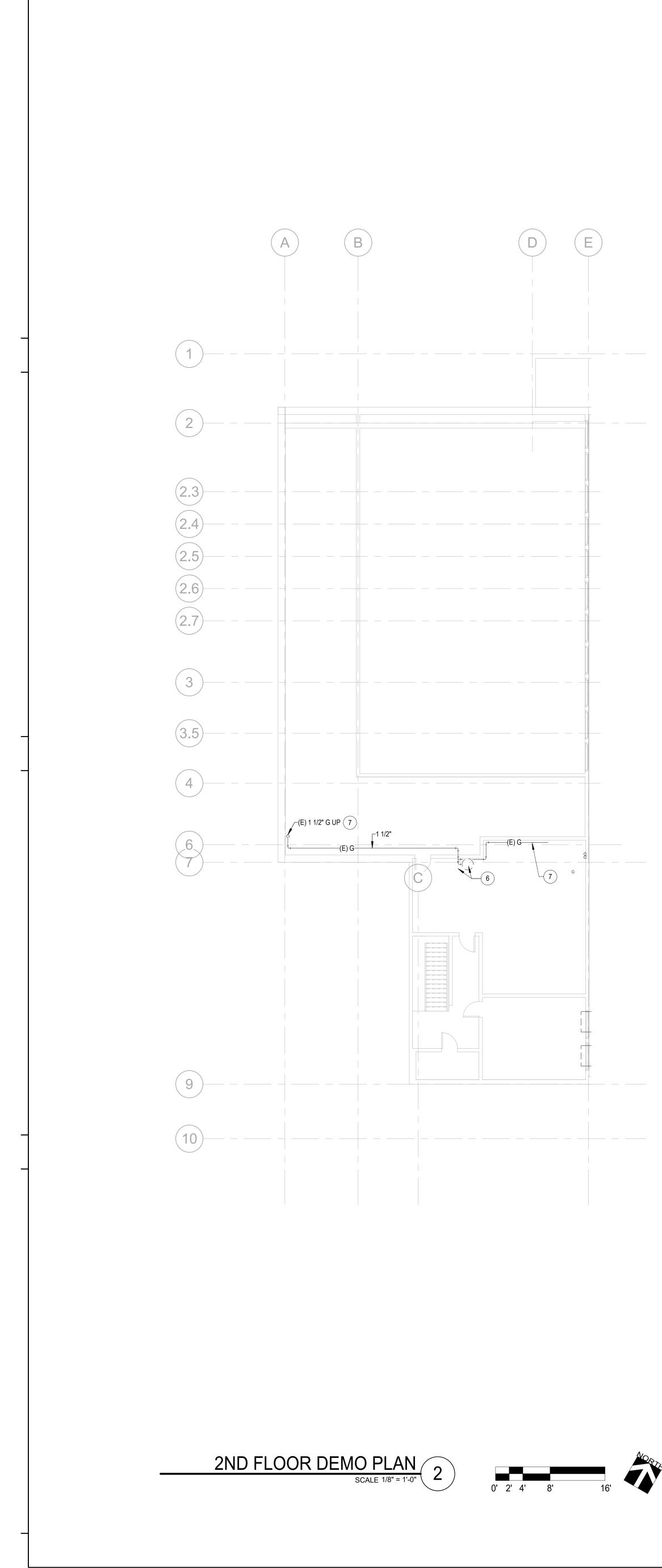
EXPANSION TANK SCHEDULE								
UNIT	LOCATION	QTY	"MFR" MODEL NO.	VOLUME	GALLONS	DETAIL	NOTES	
ET 1	JANITOR RM ROOM 113	1	AMTROL THERM-X-TROL ST-5C		4.4	6 P7-01		

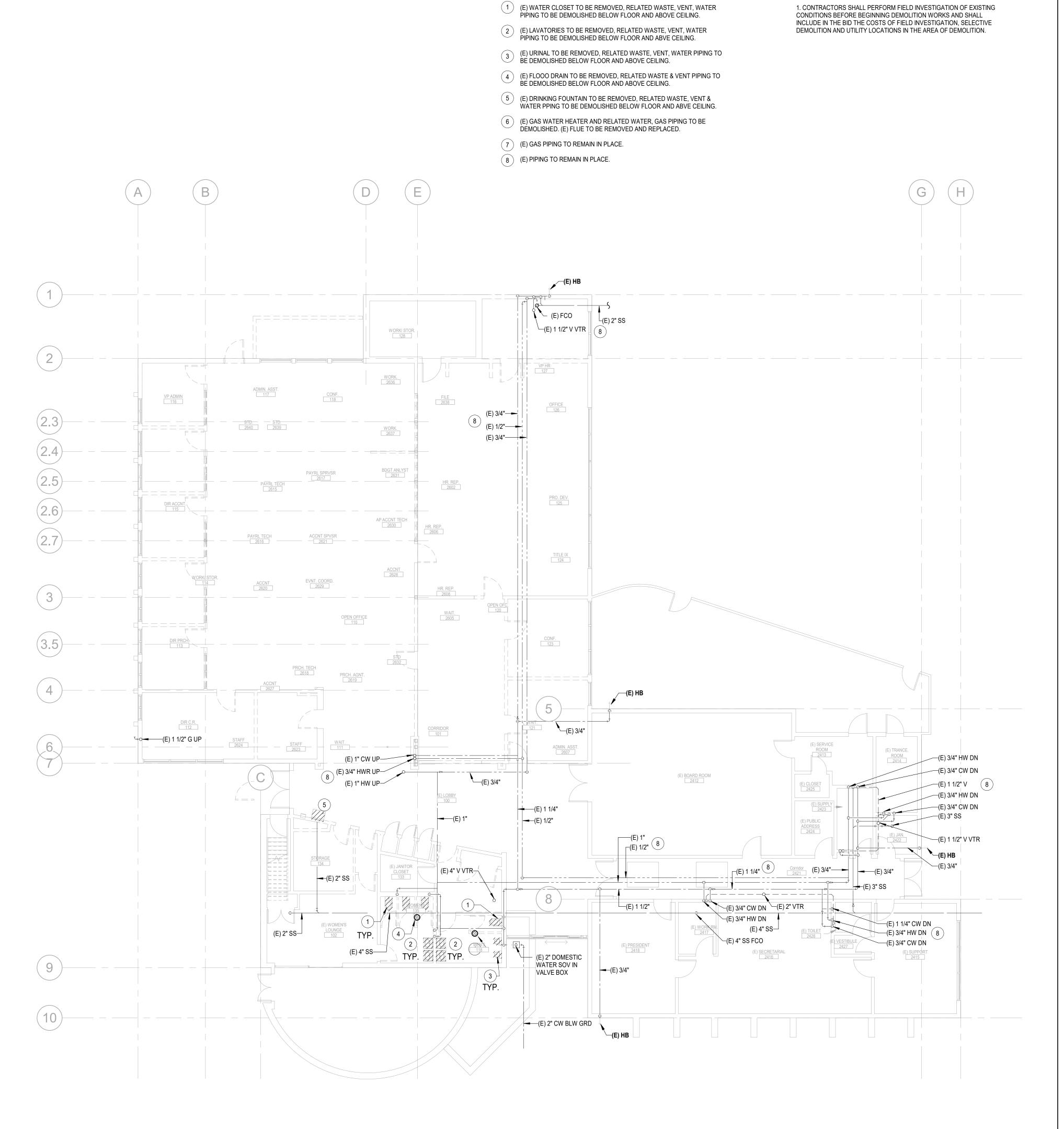
CIRCULATING PUMP SCHEDULE									
UNIT	LOCATION	QTY	"MFR" MODEL NO.	GPM	FT OF HEAD	HP	VOLT/PH/HZ	CONTROLS	NOTES
CP 1	JANITOR RM ROOM 113	1	GRUNDFOS ALPHA	5	10	1/25	115/1/60HZ	7-DAY/24-HR TIME CLOCK W/ AQUASTAT	WT LBS

Cold Water Calc

DESIGN CRITERIA							
Total estimated demand (GPM) from fixture calc sheet:		49					
1. Pressure @ Street Main (Static Pressure - information can be aquired from the local Water F Purveyor)	Static Pressure=70 PSI	49					
2. Pressure loss due to height (from buried depth below grade to the highest most point in the system - above ceiling, floor level of a multi-story building, etc)	ft. x .434	6.51					
3. Pressure loss thru meter (<u>Note</u> : losses may vary from 2 PSI up to 5 PSI - verify meter type and losses with the local Water Purveyor)	N/A	Ο					
4. Pressure loss thru other devices (i.e., BFP) (Note: losses may vary from 8 PSI up to 15 PSI - verify BFP type and losses with the local Water Purveyor)	losses may vary from 8 PSI up to 15 PSI - verify BFP						
 5. Total pressure loss (add lines 2, 3 & 4) 6. Pressure required at highest fixture (Note: 20 PSI for a Flush Tank Water Closet and 25 PSI for a Flush Valve Water Closet) 7. Pressure available for Friction Loss (line1-line 5-line 6) 8. Total developed length of run (Note: Add an addition 25% of total pipe length to account for equivalent length of fittings and vales). 	6.51 30 12.49 80						
FRICTION LOSS CALCULATI	ON						
from line 7 <u>12.49</u> PSI X 100 = <u>15.61</u> from line 8 <u>80</u>	PSI/100 ft.	(Use 3# / 100 ft. loss)					
<u>NOTE</u> : IF YOU END UP WITH A (-) NEGATIVE VALUE, A BOOSTER PUMP WILL BE REQUIRED. REFER TO BOOSTER PUMP CALCULATION SHEET.		IF SO,					
Cold Water Service Required: 2"							
Water meter size required, based on above demand:		(Water Meter at N/A Site Loop)					







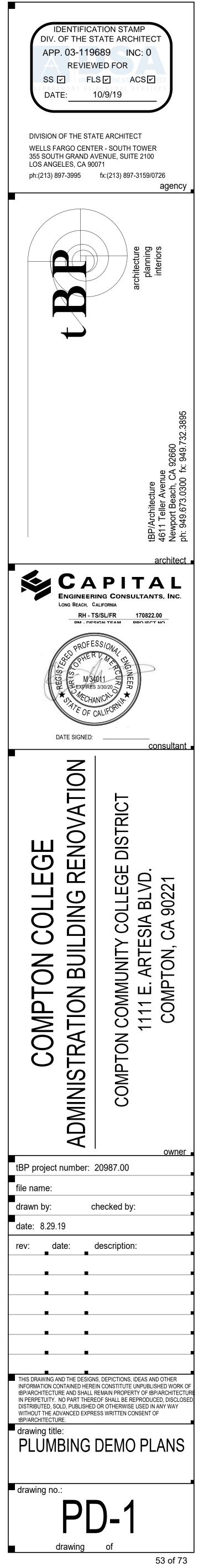
DEMOLITION KEY NOTES:

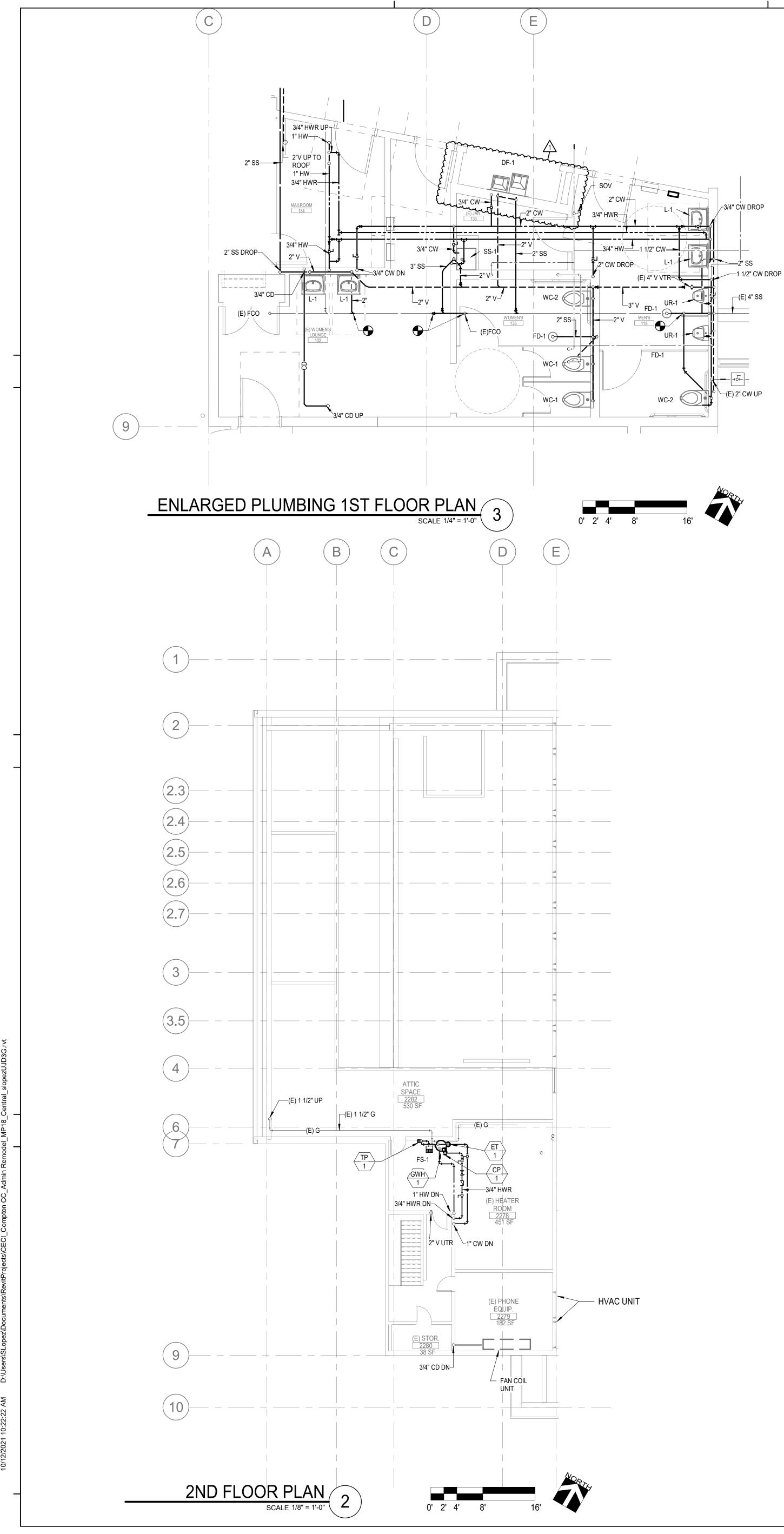
GENERAL NOTES:

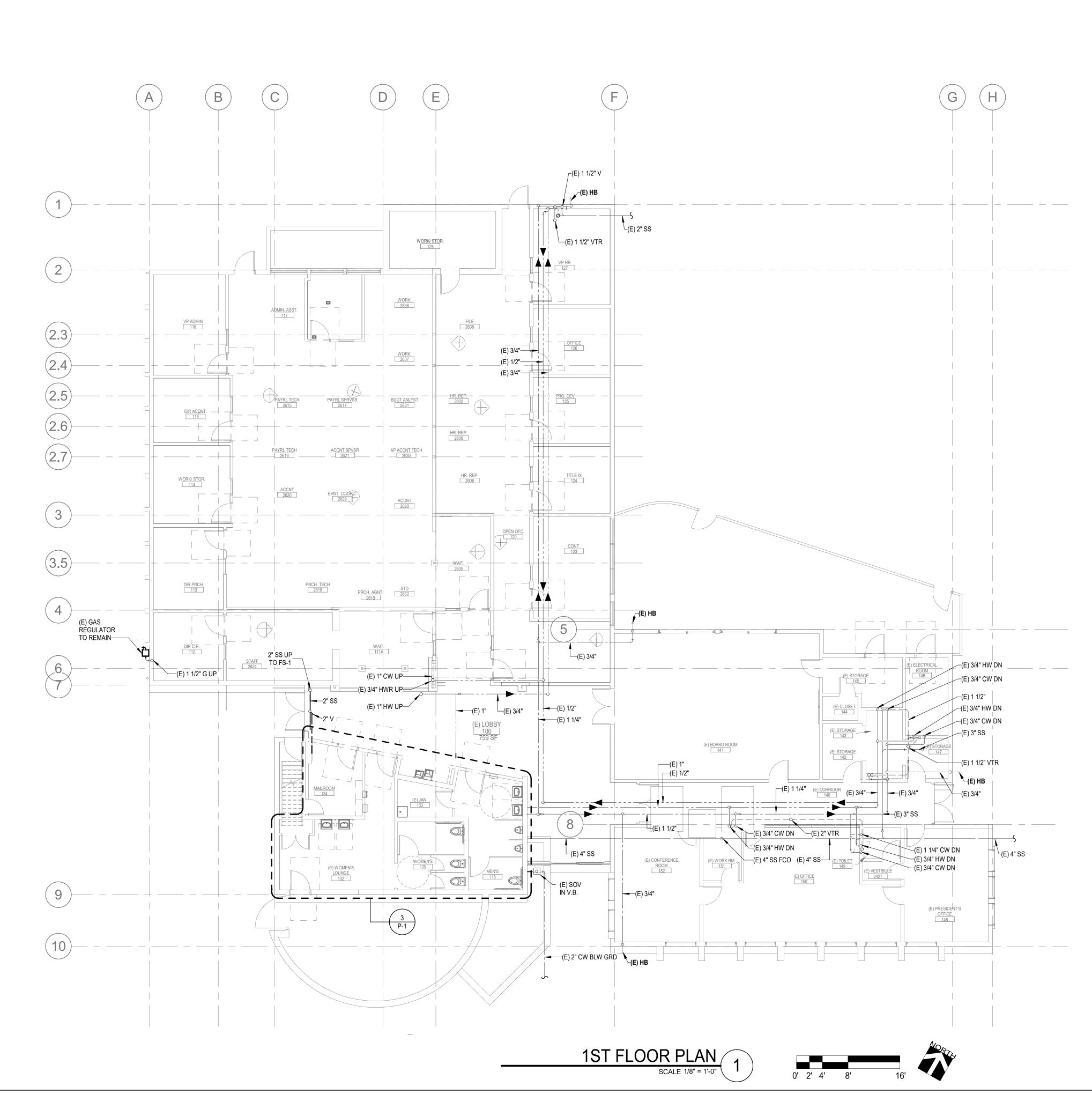


1ST FLOOR DEMO PLAN SCALE 1/8" = 1'-0"

0' 2' 4' 8' 16'

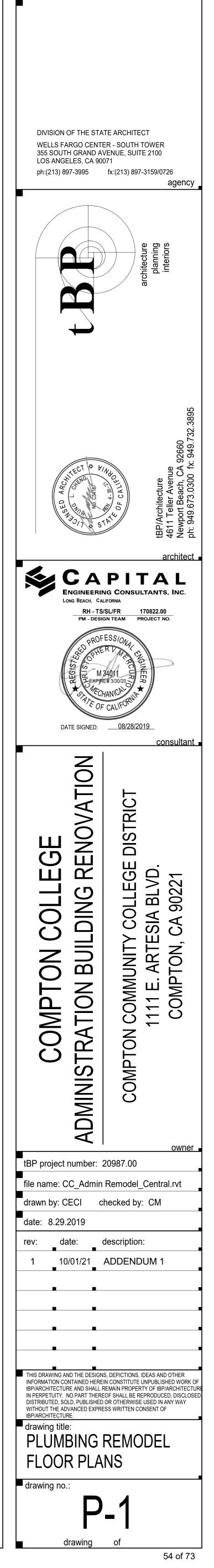


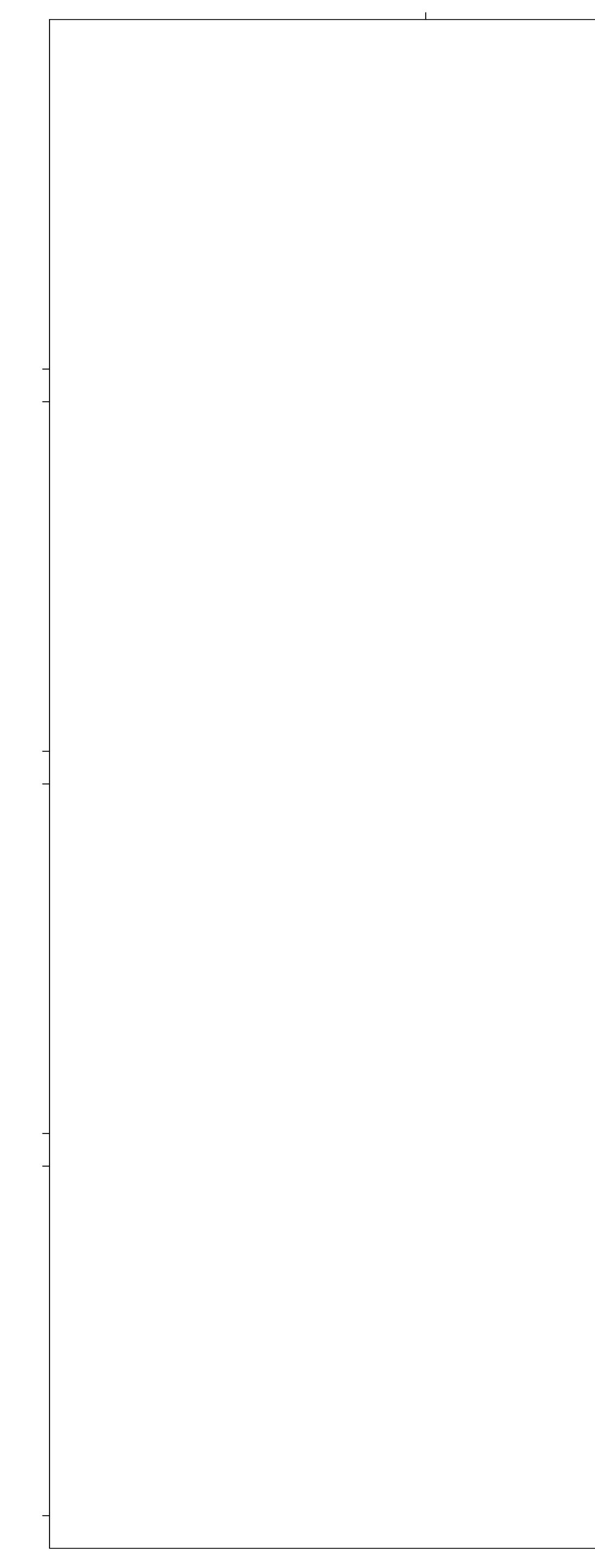


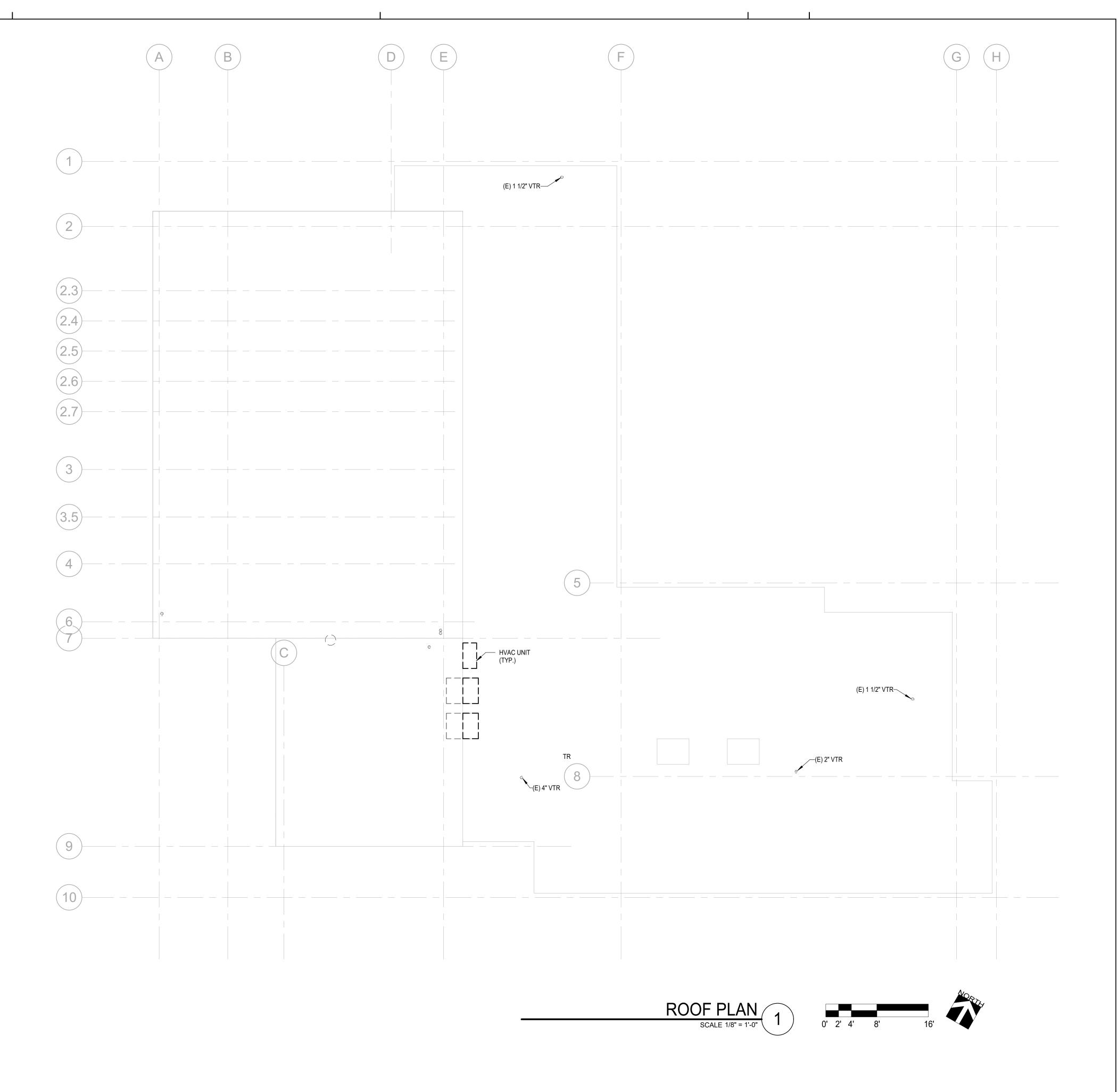


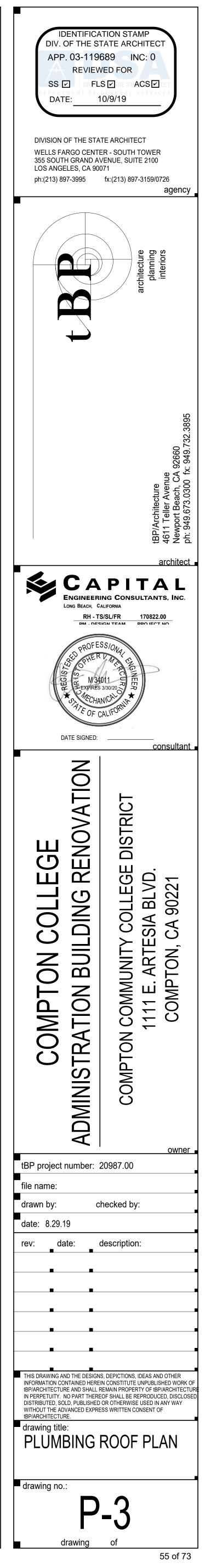
GENERAL NOTES:

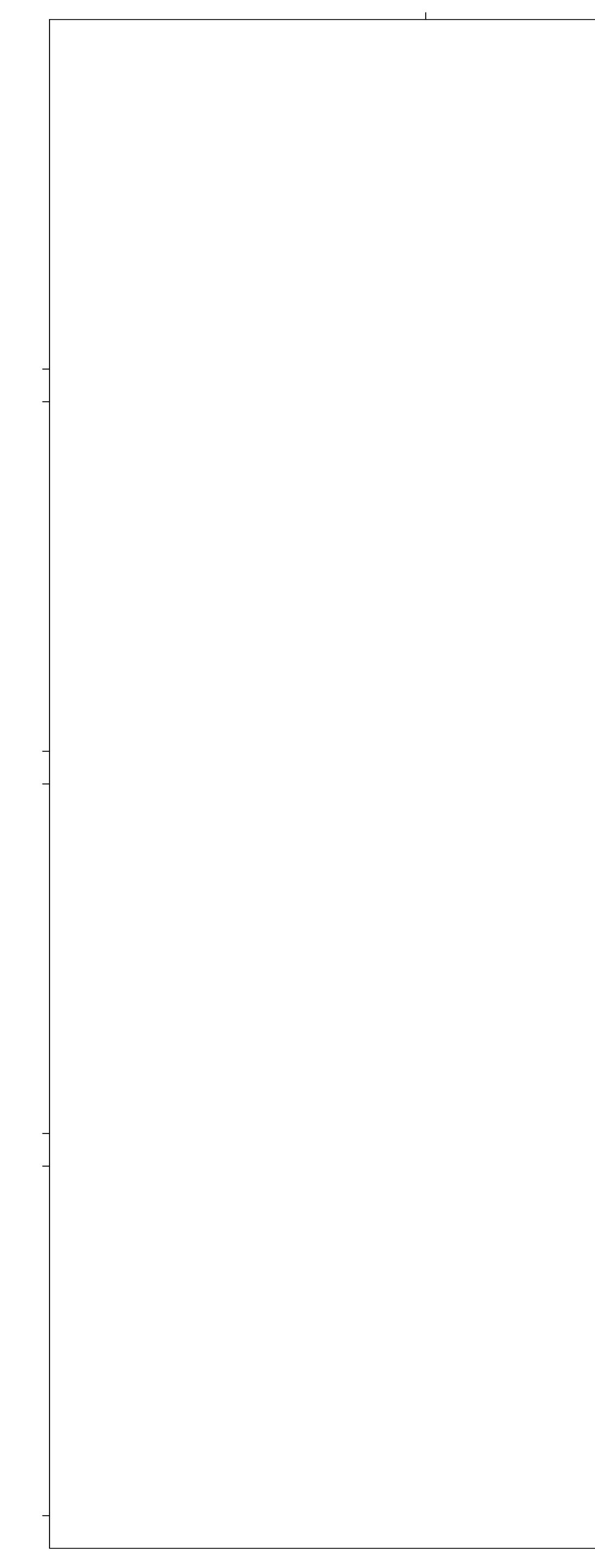
1. CONTRACTORS SHALL PERFORM FIELD INVESTIGATION OF EXISTING CONDITIONS BEFORE BEGINNING NEW WORKS.











FIRE STOP FOR PIPE PENETRATIONS

INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND KEPT AT THE JOB SITE.

PENETRATIONS IN WALLS, FLOORS OR CEILINGS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED. FIRE

WHEN SUBJECTED TO THE TIME TEMPERATURE CURVE OF SFM STANDARD 12-43-3 AND 12-43-1. MANUFACTURER'S

STOPPING SHALL BE OF AN APPROVED MATERIAL; SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY



NOTE:

"A-1"

"A-4"

"A-2"

CORRUGATED

METAL DECK

SLEEVES AND FIRESTOPPING

PENETRATING FLOORS OR WALLS.

PENETRATING FLOORS OR WALLS.

DRAINS PENETRATING FLOORS OR WALLS.

STEEL OR WOOD FORMS IN FLOORS OR WALLS.

WALLS OR FLOOR/CEILING ASSEMBLIES.

CONCRETE ON CORRUGATED METAL DECK.

INSTRUCTIONS.

"A-1"

"B-4"

USE PROSET "FIRESTOP PENETRATORS", U.L. OR WARNOCK HERSEY CLASSIFIED

PLUMBING FIXTURE FLOOR OPENINGS THROUGH FIRE RATED FLOORS, WALLS OR

A. USE SYSTEM "A" PENETRATORS FOR WATER LINES, HEATING AND COOLING

B. USE SYSTEM "B" PENETRATORS FOR CAST IRON OR COPPER DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS OR WALLS.

C. USE SYSTEM "C" PENETRATORS FOR PLASTIC DWV PIPES FOR STACKS AND

CA. USE SYSTEM "CA" PENETRATORS FOR POLYPROPYLENE ACID WASTE PIPE

2. USE C.H. PVC OR METAL COUPLING PENETRATORS FOR CORED HOLES

THROUGH PRECAST OR EXISTING CONCRETE IN FLOORS OR WALLS.

3. USE P-90 WALL SLEEVE PENETRAORS FOR PIPES PASSING THROUGH GYPSUM

4. USE CM METAL OR PVC SLIP FLANGE CM COUPLING FOR POURED-IN-PLACE

1. USE CAST-IN-COUPLING PENETRATORS FOR POURED-IN-PLACE CONCRETE ON

LINES, FIRE STANDPIPE AND SPRINKLER LINES, TEMPERATURE CONTROL, ACID

WASTE GLASS OR DURION PIPE AND ELECTRIC AND COMMUNICATION CONDUIT

AND LISTED IN THE BUILDING MATERIALS DIRECTORY. TESTED IN

ACCORDANCE WITH THE ASTM E-814, U.L. 1479 AND CSA/ULC CAN S-115

TES STANDARDS. USE FOR ALL APPLICABLE PIPE PENETRATIONS AND

FLOOR/CEILING ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURERS

"B-2"

"B-4"

"B-1"

"C-3"

"CA-1"

"C-2"

"C-1"

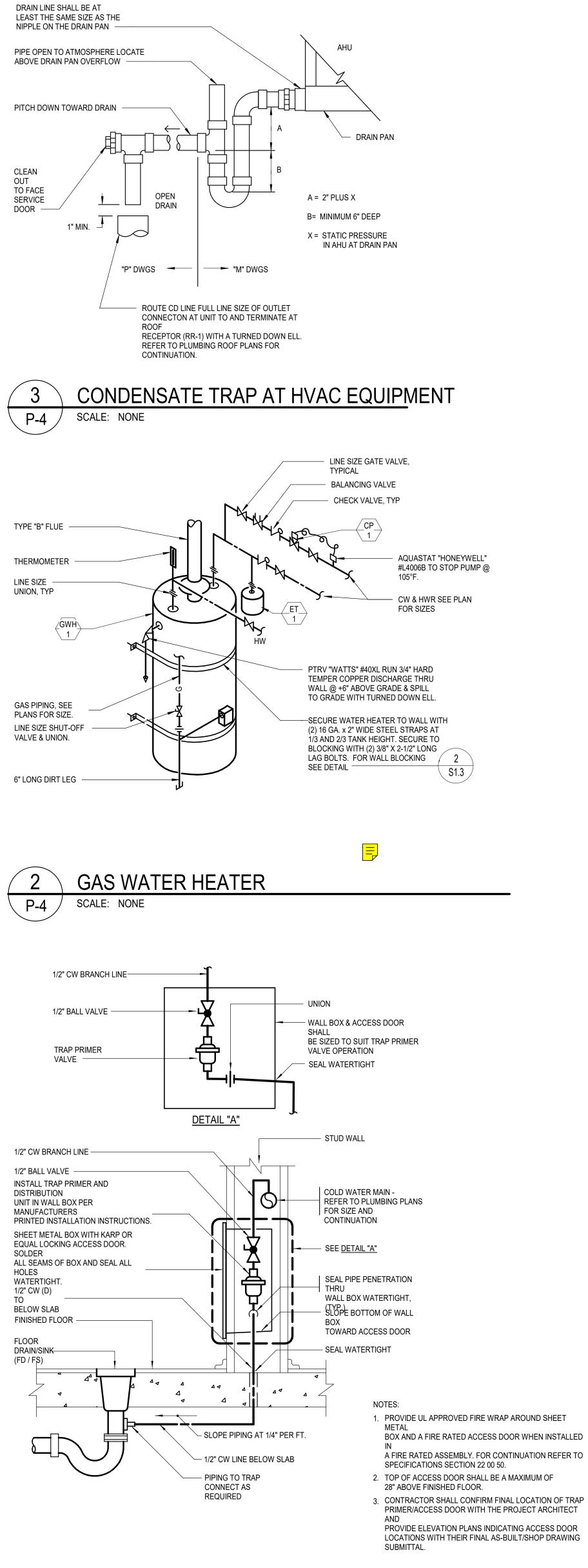
"C-1"

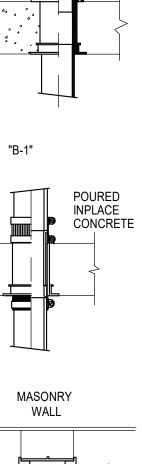
"C-1"

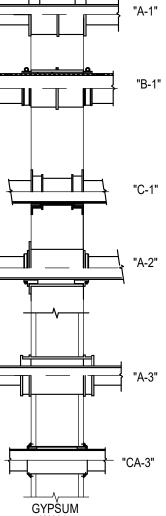
POURED

INPLACE CONCRETE

P-4 SCALE: NONE



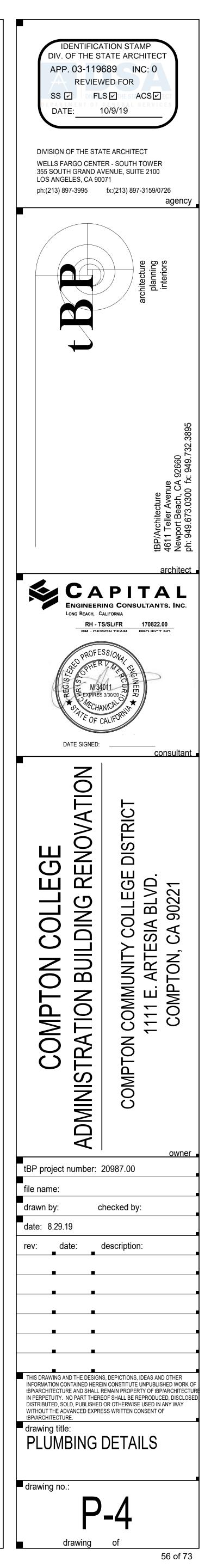




TRAP PRIMER CONNECTION 、P-4 / SCALE: NONE

LOCATIONS WITH THEIR FINAL AS-BUILT/SHOP DRAWING

3. CONTRACTOR SHALL CONFIRM FINAL LOCATION OF TRAP PRIMER/ACCESS DOOR WITH THE PROJECT ARCHITECT PROVIDE ELEVATION PLANS INDICATING ACCESS DOOR



GENERAL NOTES

- 1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
- 2. THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:
- a. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2013 EDITION.
- b. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2013 EDITION.
- c. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2013 EDITION.
- d. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2013 EDITION.
- e. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- f. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
- g. THE MANUFACTURER'S REQUIREMENTS OR RECOMMEND-ATIONS FOR ANY INCORPORATED PRODUCTS. h. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED
- SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
- 3. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL FIRE ALARM, AND LOW VOLTAGE SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.
- 4. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
- 5. IN INTERPRETATING THE PLANS. THE FOLLOWING GENERAL RULES APPLY:
- a. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. b. SCALED DIMENSIONS AND GRAPHICALLY SHOWN
- LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.
- 6. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
- a. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONT-RACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
- b. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCRE-PANCIES OR INCONSISTENCIES..
- 7. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN A1A DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
- 8. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 9. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT. INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECEIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.
- 10. REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.
- 11. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE BUILDING, AND ALL BUILDING DRAWINGS WHICH MAY AFFECT THE EXECUTION OF THE WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.
- 12. PROTECT ALL WORK, MATERIALS AND EQIPMENT FROM DAMAGE FROM ANY CAUSE WHATEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.
- 13. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE, AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

- 14. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENTOF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- 15. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EXISTING CONDUITS. THE EXACT ROUTING SHALL BE VERIFIED IN FIELD AND LENGTH OF CONDUCTORS SHALL BE ADJUSTED TO THE LENGTH REQUIRED.
- 16. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EXISTING CONDUITS. THE EXACT ROUTING SHALL BE VERIFIED IN FIELD AND LENGTH OF CONDUCTORS SHALL BE ADJUSTED TO THE LENGTH REQUIRED.
- 17. PERFORM CUTTING AND PATCHING ON THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. PATCHING SHALL BE OF THE SAME MATERIAL, WORKMANSHIP AND FINISH AS SPECIFIED AND ACCURATELY MATCH SURROUNDING WORK TO SATISFACTION OF THE ARCHITECT.
- 18. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.
- 19. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.
- 20. PROVIDE COORDINATED SHOP DRAWINGS. INDICATING DIMENSIONED LOCATIONS AND SIZES OF ALL CORE DRILLS FOR REVIEW AND APPROVAL. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED AND APPROVED WITH OWNERS REPRESENTATIVE, STRUCTURAL AND ARCHITECT PRIOR TO CORE DRILL. UTILIZE X-RAY EQUIPMENT TO LOCATE AND VERIFY EXISTING STRUCTUREAL ELEMENTS WITHIN SLAB.
- 21. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 22. PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.
- 23. WHERE CIRCUIT CHANGES OR ADDITIONS OCCUR IN PANELBOARDS UPDATE PANEL DIRECTORY CARDS WITH NEW TYPEWRITTEN CARDS INDICATING DESCRIPTION OF ALL CIRCUITS.
- 24. PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTAINEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL.
- 25. UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.
- 26. UNLESS NOTED OTHERWISE ALL 277 VOLT HOMERUNS OVER 200 FEET SHALL BE #10 AWG MINIMUM, OVER 300 FEET SHALL BE #8 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.
- 27. CONDUIT FOR TELEPHONE/DATA CABLING SHALL COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS: a. INSIDE BEND RADIUS SHALL BE AT LEAST 10 TIMES ITS INTERNAL DIAMETER.
 - b. PROVIDE PULL BOXES WHENEVER CONDUIT LENGTH EXCEEDS 150 FEET AND WHEN COMBINED BENDS ARE GREATER THAN 180 DEGREES.
 - c. ALL CONDUIT SHALL BE PROVIDED WITH INSULATED BUSHINGS. d. MAINTAIN A MINIMUM CLEARANCE OF 4 FEET FROM
 - MOTORS AND TRANSFORMERS. e. MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES FROM
- POWER CIRCUITS. 28. COORDINATE MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, A/V DEVICES, SECURITY DEVICES, ETC. MOUNTED ON COMMON WALLS SO THAT ALL OUTLETS ARE MOUNTED TO ALIGN HORIZONTALLY.
- 29. NOTIFY THE ARCHITECT IN WRITING WHEN INSTALLATION IS COMPLETE AND THAT A FINAL INSPECTION OF THIS WORK CAN BE PERFORMED. IN THE EVENT DEFECTS OR DEFICIENCIES ARE FOUND DURING THIS FINAL INSPECTION THEY SHALL BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT BEFORE FINAL ACCEPTANCE CAN BE ISSUED.

	SYME	BOL LIST	
**	(ALL SYMBOL NOT NECESSARI ALL SYMBOL DESCRICPTION ARE SUBJECT TO MODIFI LOCATION AND HEIGHT OF OUTLETS WITH ARCHITEC	ICATION AS NOTED ON T	HE DRAWINGS . VERIFY EXAC
*	AM-FM ANTENNA (VERIFY MOUNTING LOCATION)		LIGHTING FIXTURE, RECESS
©-	OUTLET BOX FOR CLOSED CIRCUIT CAMERA. PROVIDE 1" C. TO BUILDING'S ACCESSIBLE CEILING.	0	LIGHTING FIXTURE, SURFAC
МСА-11 —	(VERIFY MOUNTING LOCATION) HOME RUN TO MCA-11, INDICATES MOTOR CONTROL CENTER "MCA" CIRCUIT NO. 11. SEE RESPECTIVE SCHEDULE FOR WIRE AND CONDUIT.	├───┤	INDUSTRIAL LIGHTING FIXTU OUTLET BOX.
••-	PUSH BUTTON STATION WITH "STOP-START" PUSH BUTTONS AND RED INDICATING PILOT LIGHT ON FLUSH WALL MOUNTED OUTLET BOX, +45".	0	LIGHTING FIXTURE, SURFAC BOX. LIGHTING FIXTURE, RECESS
	CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.	 O-	LIGHTING FIXTURE, SURFAC
	CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.		WALL MOUNTED OUTLET BC
	CONDUIT, INSTALLED EXPOSED.		OUTLET ON EMERGENCY O
←₽ — _{В-5,7,9}	HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH COMMON NEUTRAL.		POST TOP LIGHTING STAND
	UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.		LIGHTING FIXTURE WITH LAI PROVIDE SEPARATE LAMP E
9	MOTOR CONNECTION. PROVIDE FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED, WALL MOUNTED, +45" OR EQUIPMENT MOUNTED, +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.	r 0	LIGHTING FIXTURE RECESSI BOX CONCEALED ABOVE AC MAXIMUM LENGTH, 1/2" DIAM CONDUCTORS IN CONDUIT,
P⊙	JUNCTION BOX, FLUSH IN FLOOR. "P" INDICATES PEDESTAL TYPE ON FLUSH FLOOR MOUNTED OUTLET BOX.	_	CONTROLS, #12 (AWG) MININ
O⊡-	FIRE ALARM BELL		LIGHTING STANDARD WITH
	COMBINATION DATA/POWER/AUDIO VIDEO FLOOR BOX FLUSH WITH GRADE WITH MINIMUM TWO (2) DATA		LIGHTING STANDARD WITH T
	OUTLET, TWO (2) POWER OUTLET AND AUDIO VISUAL CONNECTORS. REFER TO TELECOM PLANS FOR MORE INFORMATION.	© •-	UPLIGHT, MOUNTED FLUSH
•		$\overline{\mathbf{a}}$	TRACK LIGHTING WITH FIXT
PT	COMBINATION DATA/POWER/AUDIO VIDEO POKE THROUGH DEVICE WITH MINIMUM TWO (2) DATA OUTLET, TWO (2) POWER OUTLET AND AUDO VISUAL CONNECTORS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.		EXIT SIGN SINGLE FACE, ON DIRECTIONAL ARROW ON EX PHOTOLUMINESCENT, FLOO
	COMBINATION DATA/POWER FLOOR BOX WITH FOUR (4) DATA OUTLETS AND TWO (2) DUPLEX RECEPTACLES. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.	•	EXIT SIGN DOUBLE FACE, OF ARCHITECTURAL DRAWINGS PATH MARKINGS.
(6) R	COMBINATION DATA/POWER FLOOR BOX WITH SIX (6) DATA OUTLETS AND THREE (3) DUPLEX RECEPTACLES. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.	⊗-	EXIT SIGN, ON FLUSH WALL DRAWINGS FOR PHOTOLUM
(4) PT	COMBINATION DATA/POWER POKE-THRU, DEVICE WITH TWO (2) DUPLEX RECEPTACLES AND FOUR (4) DATA JACKS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.	$\begin{pmatrix} 2\\ 100 \end{pmatrix}$	MARKINGS. FIXTURE SCHEDULE DESIGN TOTAL WATTAGE.
(6) PT	COMBINATION DATA/POWER POKE-THRU, DEVICE WITH TWO (2) DUPLEX RECEPTACLES AND SIX (6) DATA JACKS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.	S 2,P T a,b	SINGLE POLE TOGGLE SWIT MULTIPLE SWITCHES UNDER SWITCH SYMBOL INDICATES
AV-	AUDIO/VIDEO OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX WITH COVERPLATE AND GROMETTED OPENING. PROVIDE OUTLET BOX, COVERPLATE AND 1.5" CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE AV CABLES FROM THE INSTRUCTORS DESK TO THE LCD DISPLAY OR SHORT THROW PROJECTOR LOCATED AT THE TEACHING WALL. MOUNT AV OUTLET AT INSTRUCTIOR'S DESK AT +18". MOUNT AV OUTLET AT LCD DISPLAY OR SHORT THROW PROJECTORS AT +70".		2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY P - PILOT LIGHT M - MANUAL MOTOR STARTE K - KEY OPERATED
<u>тс</u> –	AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45" A.F.F. LOCATED AT INSTRUCTOR'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL DOWN		R - SPDT MOMENTARY CONT V - VAPOR PROOF a,b,c,d, ETC MULTIPLE SWI

TO AV CONNECTOR PLATE AT +18" A.F.F. PROVIDE AV CABLING BETWEEN AV CONTROL PANEL AND AV

CONNECTOR PLATE IN ACCORDANCE WITH THE AV SYSTEM REQUIREMENTS.

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
AF/AT	AMP FRAME, AMP TRIP
AS/AF	AMP SWITCH, AMP FUSE
CIRC., CKT.	CIRCUIT
СВ	CIRCUIT BREAKER
С	CONDUIT
C.O.	CONDUIT ONLY
CONN	CONNECTED
CLCB	CURRENT LIMITING CIRCUIT BREAKER
DIA	DIAMETER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
FT OR '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HOA	HAND-OFF-AUTO
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IN. OR "	INCHES
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
КW	KILOWATT
LCL	LONG CONTINUOUS LOAD
L.F.	LINEAR FEET
LTG, LTS	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
МН	METAL HALIDE
MCC	MOTOR CONTROL CENTER
МСМ	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MTD	MOUNTED
MW	MICROWAVE
NEC	NATIONAL ELECTRIC CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PRIMARY	OVER 600 VOLTS
PH. OR Q	PHASE
PROVIDE	FURNISH, INSTALL AND CONNECT
PA	PUBLIC ADDRESS
REC, RECEPT	
U.N.O.	UNLESS NOTED OTHERWISE
00.	

0	LIGHTING FIXTURE, SURFACE OR PENI
├ ─०─┤	INDUSTRIAL LIGHTING FIXTURE, SURFA
0	LIGHTING FIXTURE, SURFACE OR PENE BOX.
□ 0-	LIGHTING FIXTURE, RECESS MOUNTED
	WALL MOUNTED OUTLET BOX, +90". S
●■	OUTLET ON EMERGENCY OR NIGHT LI POST TOP LIGHTING STANDARD, POLE
Ť	LIGHTING FIXTURE WITH LAMPS ON NO
&	PROVIDE SEPARATE LAMP BALLASTS A
	BOX CONCEALED ABOVE ACCESSIBLE MAXIMUM LENGTH, 1/2" DIAMETER MIN
	CONDUCTORS IN CONDUIT, QUANTITY CONTROLS, #12 (AWG) MINIMUM.
	LIGHTING STANDARD WITH SINGLE AR
€	LIGHTING STANDARD WITH TWIN ARM UPLIGHT, MOUNTED FLUSH WITH FINIS
0-	FLOODLIGHTING FIXTURE WITH WEATH
$\underbrace{\begin{array}{c} \bullet & \bullet \\ \hline \end{array}}_{}$	TRACK LIGHTING WITH FIXTURE(S), CE
∞	EXIT SIGN SINGLE FACE, ON FLUSH CE DIRECTIONAL ARROW ON EXIT SIGN FA PHOTOLUMINESCENT, FLOOR-LEVEL E
•	EXIT SIGN DOUBLE FACE, ON FLUSH C ARCHITECTURAL DRAWINGS FOR PHO PATH MARKINGS.
⊗-	EXIT SIGN, ON FLUSH WALL MOUNTED DRAWINGS FOR PHOTOLUMINESCENT, MARKINGS.
2 100	FIXTURE SCHEDULE DESIGNATION: "2" TOTAL WATTAGE.
S 2,P T a,b	SINGLE POLE TOGGLE SWITCH, ON FLU MULTIPLE SWITCHES UNDER COMMON SWITCH SYMBOL INDICATES THE FOLL
	2 - DOUBLE POLE 3 - THREE WAY
	4 - FOUR WAY P - PILOT LIGHT
	M - MANUAL MOTOR STARTERS K - KEY OPERATED
	R - SPDT MOMENTARY CONTACT RELA V - VAPOR PROOF a,b,c,d, ETC MULTIPLE SWITCHES WIT
\$	SWITCH FOR CONTROL OF LOW VOLTA
т ©–	OUTLET BOX, +45". INSTALL MULTIPLE DIMMING SYSTEM LIGHTING CONTROL
©-	LOW VOLTAGE LIGHTING ON/OFF CON
œ>-	LOW VOLTAGE CLASSROOM LIGHTING +45"
	LOW VOLTAGE INSTRUCTORS CLASSR OUTLET BOX, +45".
OS	LIGHTING CONTROL OCCUPANCY MOT MOUNT CENTERED IN CEILING TILE.
	LIGHTING LEVEL CONTROLLER (PHOTO
O-	MOUNT CENTERED IN CEILING TILE. LIGHTING CONTROL OCCUPANCY SEN
)	DUPLEX CONVENIENCE RECEPTACLE
Ф-	STEM INDICATES WALL MOUNTED OUT DUPLEX CONVENIENCE RECEPTACLE I 6" ABOVE COUNTER SPLASH.
	DUPLEX CONVENIENCE RECEPTACLE
œ	18". DOUBLE DUPLEX (FOUR-PLEX) CONVEI OUTLET BOX +18".
₽	DUPLEX CONVENIENCE RECEPTACLE
₽	DOUBLE DUPLEX CONVENIENCE RECE
ф-	DUPLEX CONVENIENCE RECEPTACLE
WP=	HORIZONTAL ON FLUSH WALL MOUNTE DUPLEX CONVENIENCE RECEPTACLE,
	FLUSH WALL MOUNTED ENCLOSURE
WP⊖	DUPLEX CONVENIENCE RECEPTACLE, FLUSH WALL MOUNTED OUTLET BOX V
LC 🗲	DUPLEX CONVENIENCE RECEPTACLE, THE ROOM'S LIGHTING CONTROL SYST REQUIREMENTS. PROVIDE GREEN COV
RX	DOUBLE DUPLEX CONVENIENCE RECE INDICATES RECESSED FLOOR BOX WI OR EQUAL.
Ø	DUPLEX CONVENIENCE RECEPTACLE, "R" DESIGNATION INDICATES RECESSE "RFB" SERVICE BOX OR EQUAL.
₽Ӂ	DUPLEX CONVENIENCE RECEPTACLES SURFACE MOUNTED OUTLET BOX.
- <i>C</i> X	
₽ <i>∅</i> 	DUPLEX CONVENIENCE RECEPTACLE, PROJECTOR. JUNCTION BOX, FLUSH WALL MOUNTE
J	JUNCTION BOX CONCEALED ABOVE AG
(J_2)	INDICATES CONNECTION TO EQUIPMEN
-T)-	THERMOSTAT ON FLUSH WALL MOUNT HEIGHT AND LOCATION.
	PANELBOARD, ADJACENT LINE INDICA DESIGNATION "A", SEE DRAWING E-1 F
ВА	TERMINAL CABINET OR EQUIPMENT CA
	FLOOR STANDING SWITCHGEAR ADJAC "DBA", SEE DRAWING E-1 FOR SINGLE
ŝ	TERMINAL CABINET OR EQUIPMENT CA
	CIRCUIT BREAKER WITH ZERO SEQUE
w L	TRANSFORMER; KVA, LINE AND LOAD V FUSED SAFETY SWITCH (DISCONNECT
·	EQUIPMENT +36". PROVIDE SWITCH AN REQUIREMENTS.

A E-1

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH PROJECT SUMITTAL GUIDELINE, GL-2(FLS) DATED 2/10/11 ESS MOUNTED, WITH OUTLET BOX. ACE OR PENDANT MOUNTED ON FLUSH MOUNTED OUTLET BOX. CABLE INSTALLATION NOTES FACE, CHAIN OR PENDANT MOUNTED ON FLUSH MOUNTED NDANT MOUNTED, ON FLUSH CEILING MOUNTED OUTLET (APPLIES ONLY TO DATA NETWORK) ED, WITH OUTLET BOX. 1. WHERE ACCESSIBLE SUSPENDED T-BAR CEILINGS OCCUR, CABLING FOR THE ABOVE REFERENCED SYSTEMS SHALL BE PROVIDED ROUTED VIA CABLE TRAY/BASKET TRAY. SEE SH MOUNTED AS INDICATED ON FIXTURE SCHEDULE, ON SPECIFICATIONS FOR PERFORMANCE NOTES ON CABLE INSTALLATION. STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL. 2. CONDUITS SHALL BE PROVIDED WHERE CABLES ARE INSTALLED IN WALLS, BELOW IGHT LIGHTING CIRCUIT. GRADE AND AREAS OTHER THAN ABOVE ACCESSIBLE SUSPENDED T-BAR CEILINGS. MOUNTED LUMINAIRE AND POLE SUPPORT BASE. CABLING INSTALLED UNDERGROUND SHALL BE SUITABLE FOR UNDERGROUND INSTALLATIONS. ORMAL AND EMERGENCY LIGHTING CIRCUITS, AS REQUIRED. ED WITH OUTLET BOX AND REMOTE MOUNTED JUNCTION CEILING. PROVIDE FLEXIBLE CONDUIT CONNECTION 6 FT. **ANCHORAGE NOTES** NIMUM. FROM JUNCTION BOX TO FIXTURE OUTLET. PROVIDE AS REQUIRED FOR INDICATED CIRCUITS AND SWITCHING RM MOUNTED LUMINAIRE AND POLE SUPPORT BASE. MEP Component Anchorage Note MOUNTED LUMINARIES AND POLE SUPPORT BASE. All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the SH GRADE. DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2013 CBC, Sections HERPROOF OUTLET BOX 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30. EILING, PENDANT, OR WALL MOUNTED, WITH FLUSH OUTLET BOX. 1. All permanent equipment and components. 2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building EILING MOUNTED OUTLET BOX. ARROW INDICATES FACE. REFER TO ARCHITECTURAL DRAWINGS FOR utility services such as electricity, gas or water. EXIT MARKERS AND EXIT PATH MARKINGS. pounds are required to be anchored with temporary attachments. CEILING MOUNTED OUTLET BOX. REFER TO DTOLUMINESCENT, FLOOR-LEVEL EXIT MARKERS AND EXIT The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided OUTLET BOX. +90". REFER TO ARCHITECTURAL between the component and associated ductwork, piping, and conduit. , FLOOR-LEVEL EXIT MARKERS AND EXIT PATH A. 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. " INDICATES FIXTURE TYPE, "100" INDICATES FIXTURE 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. USH WALL MOUNTED OUTLET BOX, +45". INSTALL ON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT the approval of the design professional in general responsible charge or structural engineer delegated and equipment have been anchored in accordance with 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 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7. 13.6.8, and 2013 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25 and 1616A.1.26. AY SWITCH The method of showing bracing and attachments to the structure for the identified distribution system are as ITH IDENTIFICATION OF OUTLET CONTROLLED noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite AGE LIGHTING RELAY(S), ON FLUSH WALL MOUNTED prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer SWITCHES UNDER COMMON COVER PLATE. of Record shall verify the adequacy of the structure to support the hanger and brace loads. STATION ON FLUSH IN WALL MOUNTED OUTLET BOX, +45". Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E): ITROL SWITCH IN FLUSH IN WALL OUTLET BOX, +45". ENTRANCE CONTROL STATION IN FLUSH IN WALL OUTLET BOX ROOM LIGHTING DIMMING CONTROL STATION IN FLUSH IN WALL MP_MD_PP_ E_ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) TION SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX. - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD O SENSOR) ON FLUSH CEILING MOUNTED OUTLET BOX. Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard ISOR ON FLUSH WALL MOUNTED OUTLET BOX, +45". Level _____ and Connection Level _____ for the project and conditions. VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". TLET BOX, TYPICAL. HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, + **GENERAL NOTES** E SPLIT WIRED, ON FLUSH WALL MOUNTED OUTLET BOX, + NIENCE RECEPTACLE ON ONE FLUSH WALL MOUNTED 1. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE WITH INTERNAL GROUND FAULT INTERRUPTER, CUT. NEITHER DRILLED NOR NOTCHED. WITHOUT PRIOR WRITTEN AUTHORIZATION FROM OUTLET BOX +18". U.N.O. THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. EPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, 2. CONDUITS RUN ABOVE GRADE: PROVIDE OZ COMPANY TYPE "DX" EXPANSION/DEFLEXION OUTLET BOX +18", U.N.O. FITTINGS WITH BONDING JUMPER ON ALL CONDUITS AT ALL BUILDING EXPANSION OR WITH INTERNAL GROUND FAULT INTERRUPTER, SEISMIC JOINT CROSSINGS. TED OUTLET BOX, +6" ABOVE COUNTER SPLASH. U.N.O. WITH INTERNAL GROUND FAULT INTERRUPTER, IN WITH HINGED DOOR, LOCK AND KEY, +18". WITH INTERNAL GROUND FAULT INTERRUPTER, ON WITH SPRING DOOR COVER, +18" U.N.O. IN FLUSH IN WALL OUTLET BOX, +18". CONTROLLED BY STEM IN ACCORDANCE WITH CEC TITLE 24 LIGHTING VER PLATE.

EPTACLE IN FLUSH FLOOR OUTLET BOX. "R" DESIGNATION ITH MULTI-SERVICE FITTINGS, WIREMOLD "RFB" SERIES BOX IN FLUSH FLOOR OUTLET BOX, UNLESS NOTED OTHERWISE. ED FLOOR BOX WITH MULTI SERVICE FITTINGS, WIREMOLD

ES, BACK TO BACK, "P" INDICATES PEDESTAL TYPE ON

, ON FLUSH CEILING MOUNTED OUTLET BOX FOR ED, +18" U.N.O. ACCESSIBLE CEILING OR ON EXPOSED CEILING. U.N.O.

ENT AS REQUIRED, TYPICAL. U.N.O. ITED OUTLET BOX, REFER TO MECHANICAL DRAWINGS FOR

TES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL FOR PANEL SCHEDULE.

ABINET. ADJACENT LINE INDICATES CABINET FRONT. ACENT BALLOON INDICATES EQUIPMENT DESIGNATION

E LINE DIAGRAM AND/OR SCHEDULE. ABINET. ADJACENT LINE INDICATES CABINET FRONT. NCE GROUND FAULT RELAY SYSTEM.

VOLTAGE RATINGS AS INDICATED.

), HORSE POWER RATED. MOUNT ON WALL +45", OR ON ND FUSES SIZED PER EQUIPMENT MANUFACTURER

FIRE ALARM NOTES

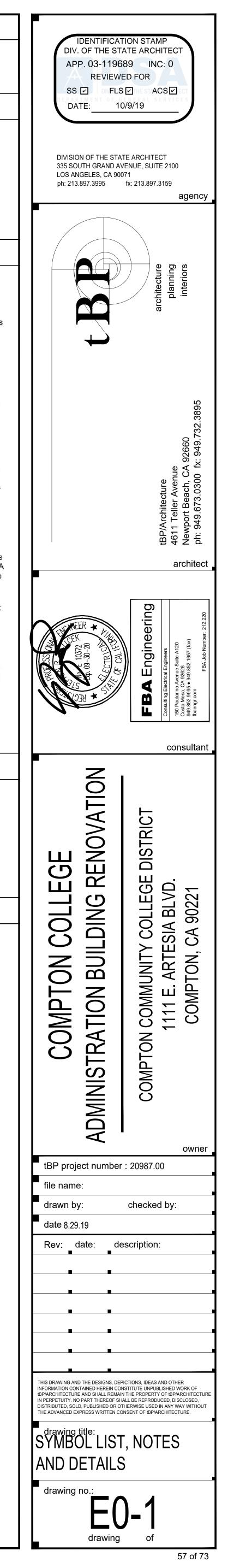
Revised: July 18, 2016

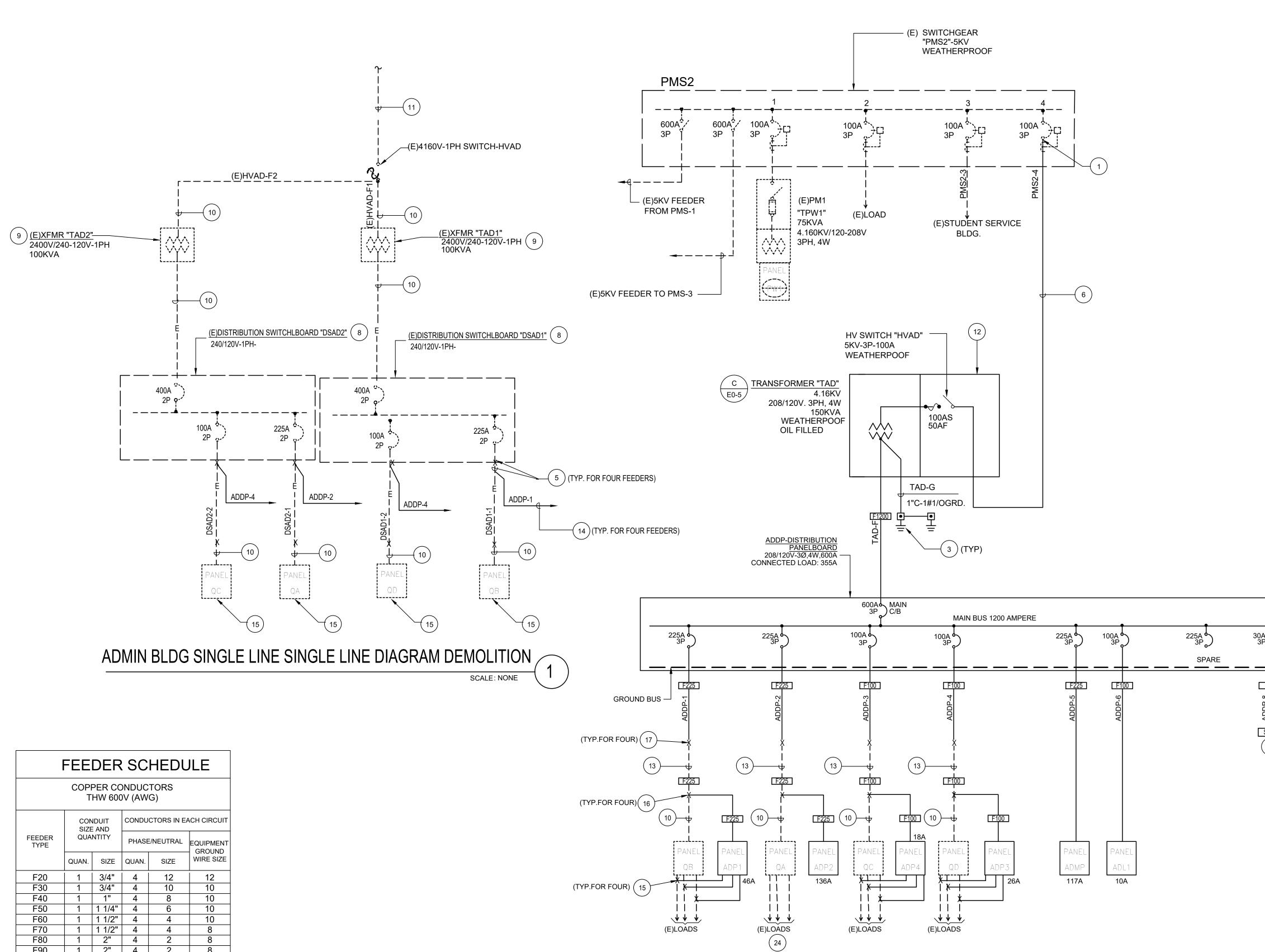
- 3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400

For those elements that do not require details on the approved drawings, the installation shall be subject to responsibility and the DSA District Structural Engineer. The project inspector will verify that all components

MP MD PP EX - Option 1: Detailed on the approved drawings with project specific notes and

	ELECTRICAL DRAWING INDEX
E0-1	SYMBOL LIST, NOTES AND DETAILS
E0-2	SINGLE LINE DIAGRAM
E0-3	DETAILS
E0-4	EQUIPMENT ANCHORAGE SCHEDULE
E0-5	LIGHTING FIXTURE SCHEDULE AND DETAILS
E0-6	INDOOR TITLE 24 CALCULATIONS
ES-1	OVERALL SITE ELECTRICAL PLAN
ES-2	ENLARGED SITE ELECTRICAL PLAN
ED-1	DEMOLITION ELECTRICAL PLANS
E1-1	LIGHTING PLANS
E2-1	POWER PLANS
E2-2	ROOF ELECTRICAL PLAN
EF-1	FIRE ALARM EQUIPMENT SCHEDULE, NOTES AND DETAILS
EF-2	FIRE ALARM CALCULATIONS
EF-3	FIRE ALARM PLAN
ET-1	TELECOM SYMBOL LIST, NOTES AND DETAILS
ET-2	TELECOM PLANS



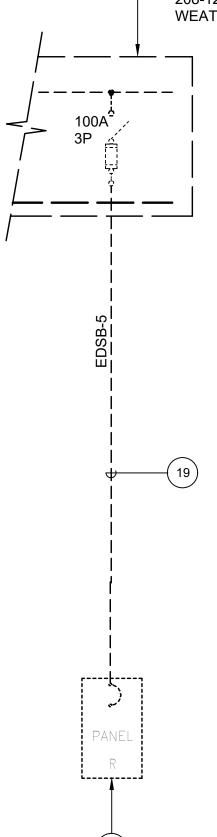


FEEDER SCHEDULE							
COPPER CONDUCTORS THW 600V (AWG)							
	CONDUIT CONDUCTORS IN EACH C				CH CIRCU		
FEEDER TYPE		NTITY	PHASE	E/NEUTRAL	EQUIPMEI GROUNI		
	QUAN.	SIZE	QUAN.	SIZE	WIRE SIZ		
F20	1	3/4"	4	12	12		
F30	1	3/4"	4	10	10		
F40	1	1"	4	8	10		
F50	1	1 1/4"	4	6	10		
F60	1	1 1/2"	4	4	10		
F70	1	1 1/2"	4	4	8		
F80	1	2"	4	2	8		
F90	1	2"	4	2	8		
F100	1	2"	4	1	8		
F110	1	2"	4	1	6		
F125	1	2"	4	1/0	6		
F150	1	2"	4	1/0	6		
F225	1	3"	4	4/0	4		
F250	1	3"	4	250MCM	4		
F300	1	4"	4	350MCM	4		
F350	1	4"	4	500MCM	2		
F400	2	2 1/2"	4	3/0	2		
F500	2	3"	4	250MCM	2		
F600	2	4"	4	350MCM	1		
F700	2	4"	4	500MCM	1/0		
F800	3	4"	4	350MCM	1/0		
F80/N	1	1 1/4"	3	2	8		
F90/N	1	1 1/4"	3	2	8		
F100/N	1	1 1/2"	3	1	8		
F125/N	1	2"	3	1/0	6		
F150/N	1	2"		1/0	6		
F175/N	1	2"	3	2/0	6		
F250/N	1	3"	3	250MCM	4		

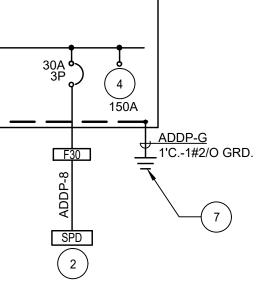
ADMIN BLDG. SINGLE LINE DIAGRAM-NEW SCALE: NONE



- (E)PARTIAL DISTRIBUTION SWITCHBOARD "EDSB" (19) 1200A 208-120V, 3PH, 4W WEATHERPROOF



BLDG D SINGLE LINE DIAGRAM-NEW SCALE: NONE



SINGLE LINE DIAGRAM NOTES PHASE-1:

) INTERCEPT EXISTING SPARE CIRCUIT BREAKER OF EXISTING SWITCHGEAR AND ADD NEW FEEDER AND EXTEND AS INDICATED. PROVIDE HIGH VOLTAGE CONNECTION AS REQUIRED PER SPECIFICATIONS.

- (2) PROVIDE SURGE PROTECTION DEVICE MOUNTED ADJACENT TO PANELBOARD.
- PROVIDE 12" x 12" BOTTOMLESS CONCRETE PULLBOX WITH PEAGRAVEL BASE AND CHEMICAL ASSEMBLY GROUND ROD. MOUNT PULLBOX FLUSH
- ON GRADE AND ENGRAVE COVER "GROUND" QUANTITY AS REQUIRED TO ACHIEVE 25 OHMS TO GROUND MAXIMUM.
- 4) PROVIDE SPACE FOR TWO(2) FUTURE OVERCURRENT PROTECTION DEVICES SIZE ,AS INDICATED.

INTERCEPT AT EXISTING PANEL 'S FEEDER IN ELECTRICAL ROOM AND REROUTE TO NEW DISTRIBUTION PANELBOARD AS INDICATED. PROVIDE NEW CONDUCTORS IN EXISTING AND NEW CONDUITS. SEE SHEET E2.1 DETAIL "4" FOR MORE INFORMATION.

- (6) PROVIDE 3"C-5 KV, (3)1/O-1#1GRD CABLE.
- 7) CONNECT TO GROUNDING SYSTEM AS DEFINED BY NOTE #3.
- 8 DISCONNECT AND REMOVE EXISTING SWITCHBOARD.
- $\left(\begin{array}{c} g \end{array}\right)$ DISCONNECT AND REMOVE EXISTING TRANSFORMER.
- $\binom{10}{10}$ DISCONNECT AND REMOVE EXISTING FEEDER INCLUDING CONDUCTORS AND EXPOSED CONDUIT.
- (11) DISCONNECT AND REMOVE EXISTING 2400V FEEDER FROM CAMPUS POINT OF CONNECTION. REMOVE CONDUCTORS AND ABANDON POINT CONCEALED CONDUITS. VERIFY POINT OF CONNECTION.
- (12) COMBINATION HIGH VOLTAGE 5KV SWITCH AND TRANSFORMER.
- (13) UTILIZE EXISTING CONDUIT AND PROVIDE NEW CONDUCTORS, SIZE AS INDICATED.
- (14) TO "ADDP" DISTRIBUTION PANELBOARD. SEE DETAIL '2" FOR ADDITIONAL INFORMATION.

(15) DISCONNECT AND REMOVE EXISTING PANEL INCLUDING ALL EXISTING CIRCUIT BREAKER, BUSSING AND INTERNAL HARDWARE WHILE PROTECTING ALL EXISTING CIRCUIT CONDUCTORS. REMOVE EXISTING PANELBOARD ENCLOSURE AND INSTALL NEW PANELBOARD AT THE SAME LOCATION. EXTEND EXISTING AND NEW BRANCH CIRCUIT WIRING TO NEW PANELBOARD. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

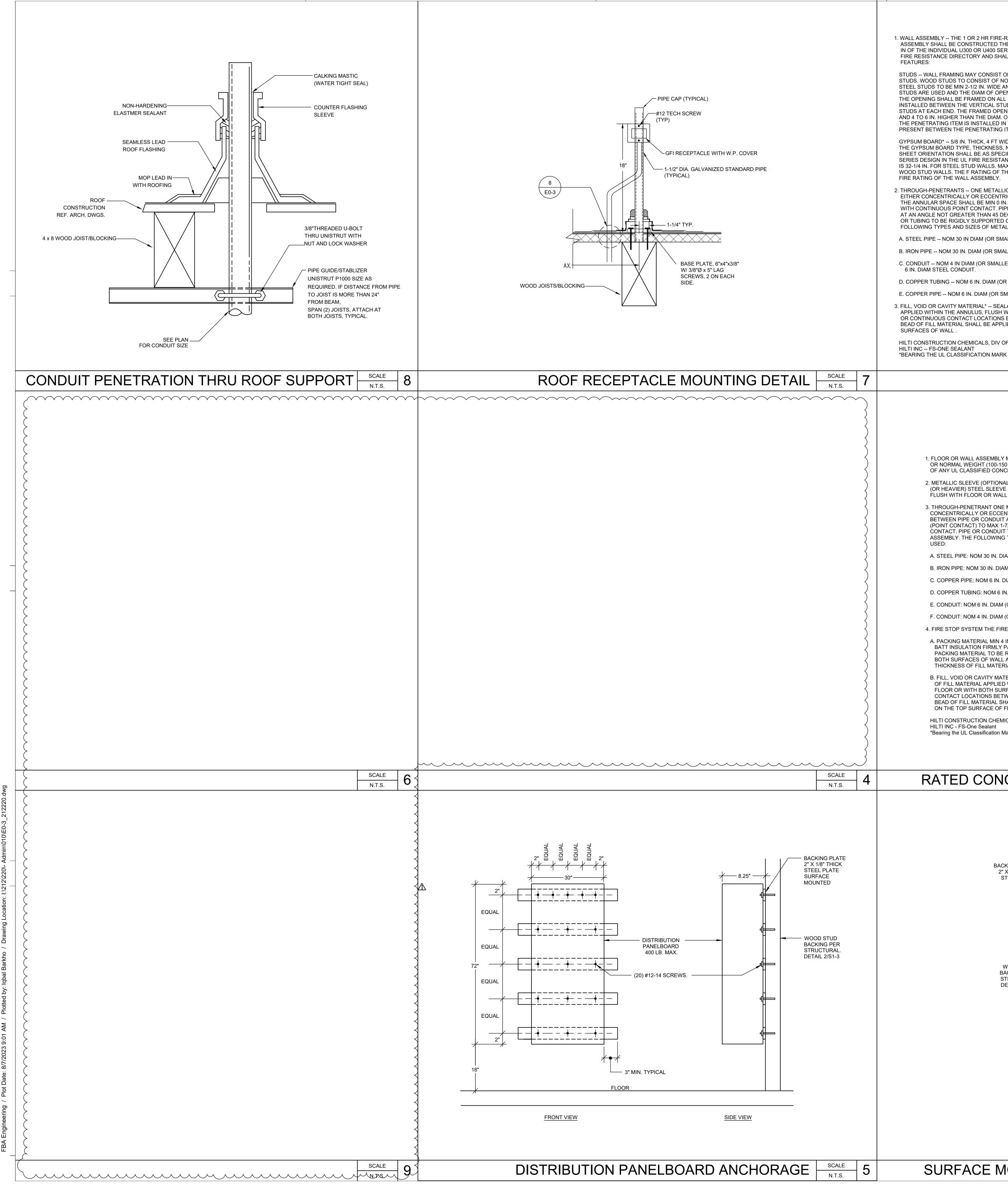
- (16) INTERCEPT AT EXISTING CONDUIT TO EXISTING PANEL AND REROUTE IT TO NEW PANEL. PROVIDE NEW CONDUCTORS IN NEW AND EXISTING CONDUITS SIZE AS INDICATED. SEE PLANS SEE PLANS FOR ADDITIONAL INFORMATION.
- (17) INTERCEPTION POINT OF EXISTING FEEDER IN ADMIN BLDG. ELECTRICAL ROOM.
- (18) EXISTING PANEL TO REMAIN DURING RENOVATION OF ADMIN BUILDING AND SHALL BE REMOVED
- AFTER COMPLETION OF RENOVATION. (19) REMOVE THIS FEEDER AFTER COMPLETION OF RENOVATION PROJECT.

SINGLE LINE DIAGRAM GENERAL NOTES:

- 1. ALL FEEDER LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE ONLY FOR CALCULATION PURPOSES AND NOT FOR TAKE-OFF.
- 2. UNLESS NOTED OTHERWISE, ALL 480/277V PANELS SHALL BE RATED FOR MINIMUM 14,000 AMP. AIC.
- 3. UNLESS NOTED OTHERWISE, ALL 208/120V PANELS SHALL BE RATED FOR MINIMUM 10,000 AMP. AIC.



A



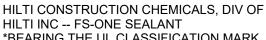
1. WALL ASSEMBLY -- THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED THE MATERIALS AND IN THE MANNER SPECIFIED IN OF THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION

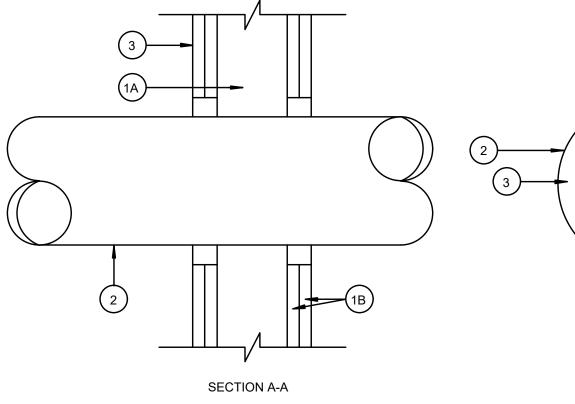
STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM. OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.

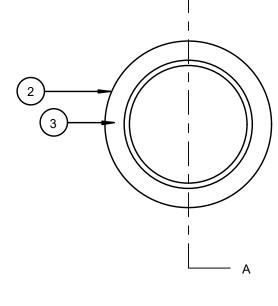
GYPSUM BOARD* -- 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED: A. STEEL PIPE -- NOM 30 IN DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE -- NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. C. CONDUIT -- NOM 4 IN DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR

D. COPPER TUBING -- NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. E. COPPER PIPE -- NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. 3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH







System No. W-L-1054 F Ratings - 1 and 2 Hr (See Items 1 and 3)

T Rating - 0 Hr

L Rating At Ambient - Less Than 1 CFM/Sq Ft L Rating At 400 F - 4 CFM/Sq Ft

RATED STUD WALL FIRE STOP DETAIL

- (3

SECTION A-A

L Rating At Ambient - Less than 1 CFM/Sq Ft

L Rating At 400 F - 4 CFM/Sq Ft

(4B)

(2)

4A)-

System No. C-AJ-1226

F RATING = 3-HR.

T RATING = 0-HR.

1. FLOOR OR WALL ASSEMBLY MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETÉ BLOCKS*. MAX DIAM OF OPENING IS 32 IN.

2. METALLIC SLEEVE (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY FLUSH WITH FLOOR OR WALL SURFACES.

3. THROUGH-PENETRANT ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE

A. STEEL PIPE: NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE: NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. COPPER PIPE: NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. D. COPPER TUBING: NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. CONDUIT: NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.

F. CONDUIT: NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT). 4. FIRE STOP SYSTEM THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

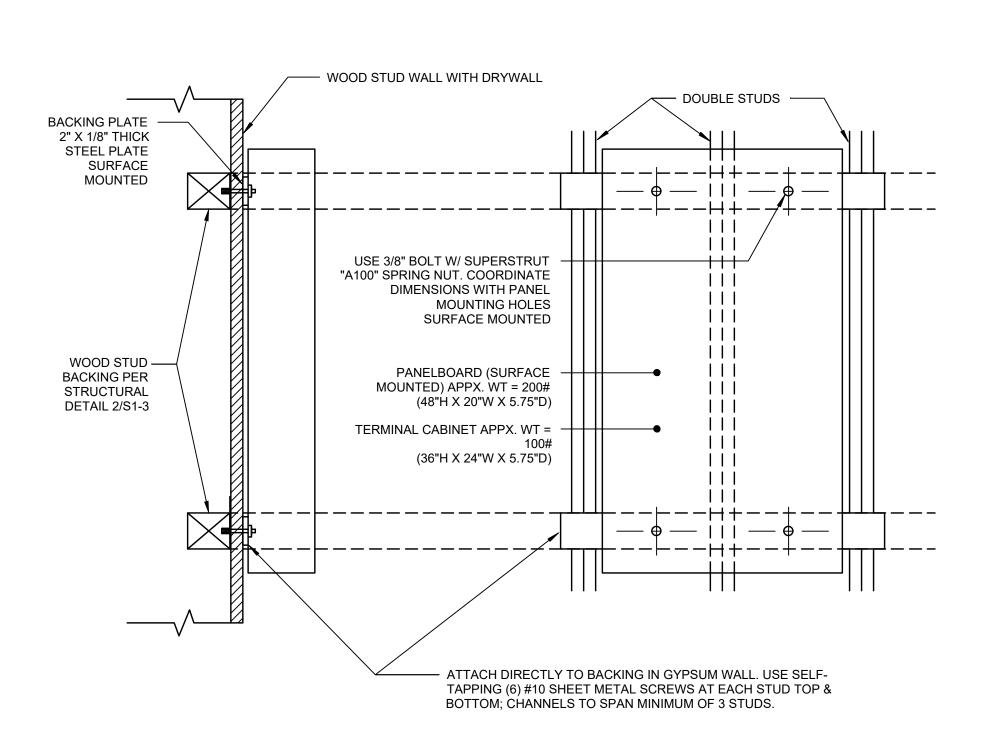
B. FILL, VOID OR CAVITY MATERIAL* -- SEALANT MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND CONCRETE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant *Bearing the UL Classification Marking

RATED CONCRETE FLOOR/WALL SINGLE CONDUIT FIRE STOP DETAIL 3CALE 2



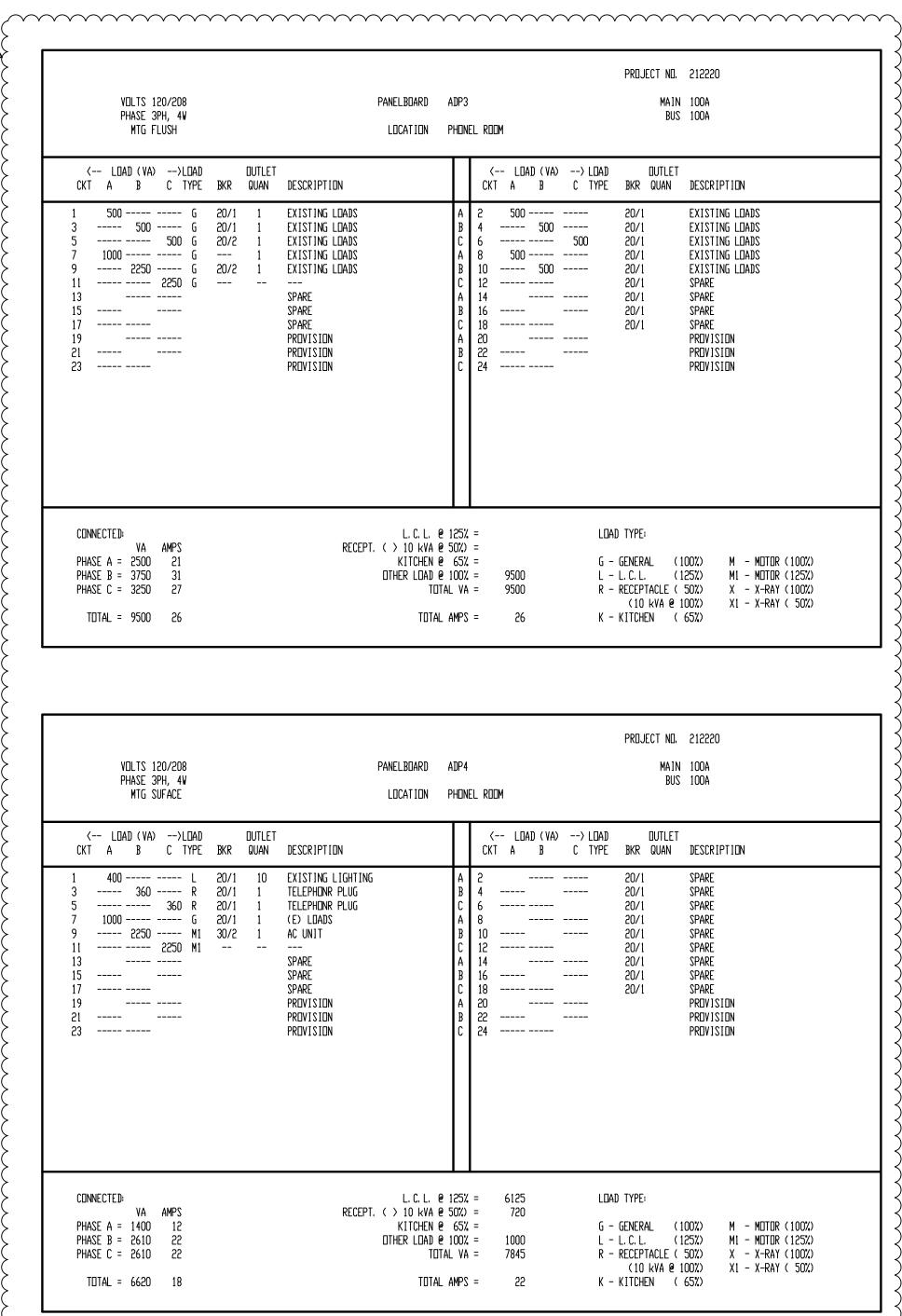
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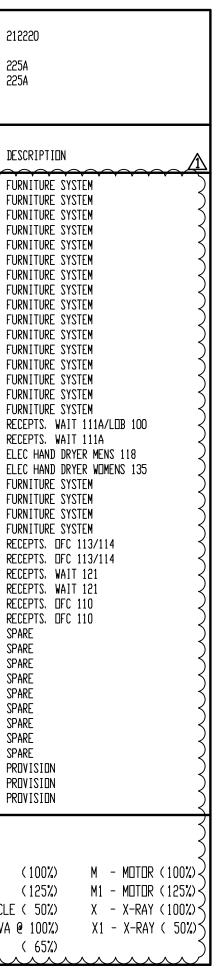


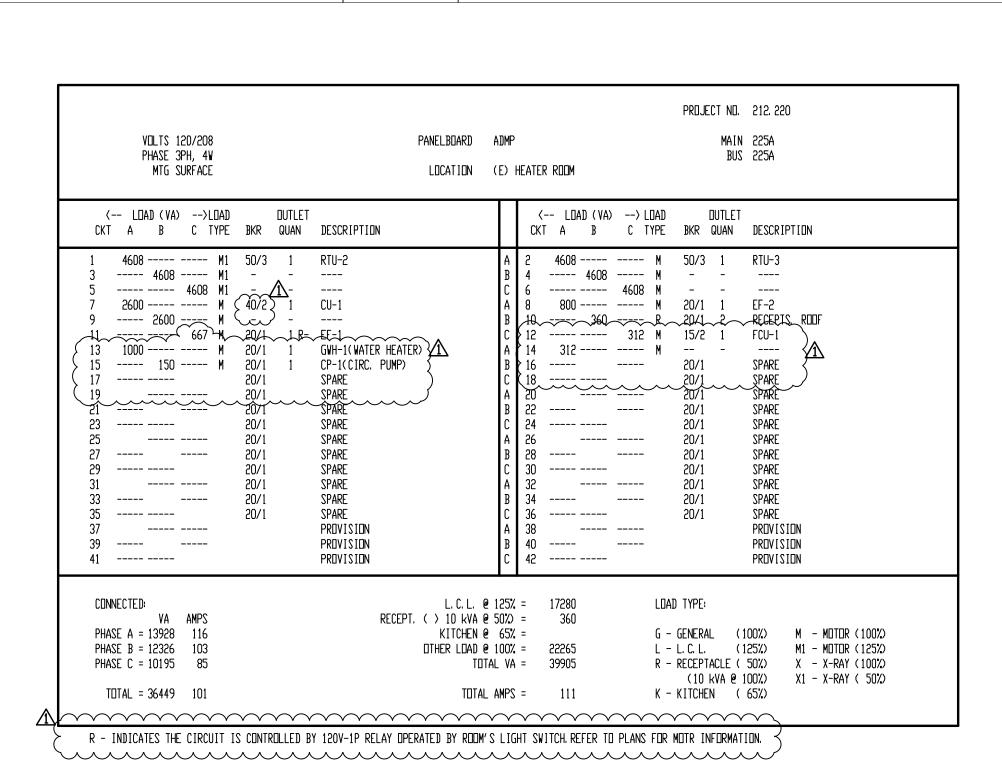
	ELECTRICAL EQUIPMENT SCHEDULE								
PANEL	LOCATIONS	SHEET NUMBER	EQUIPMENT/SYSTEM DESCRIPTION	MAX WEIGHT (LBS)	HEIGHT(IN)	WIDTH (IN.)	MOUNTING TYPE	ANCHOR DETAIL	
ADL1	(E) MAIL ROOM	E2-1	PANELBOARD	200	48"	6"	WALL	6/E0-3	
ADP1	(E) MAIL ROOM	E2-1	PANELBOARD	200	48"	6"	WALL	6/E0-3	
ADP2	(E) MAIL ROOM	E2-1	PANELBOARD	200	48"	6"	WALL	6/E0-3	
MDF	(E) TELE. EQUIP	E2-1	PANELBOARD	200	48"	6"	WALL	6/E0-3	
ADMP	(E) HEATER ROOM	E2-1	DIST. PANEL	400	72"	12"	WALL	5/E0-3	

DUTLET BKR QUAN 20/1 1 20/1 4 20/1 3 20/1 4 20/1 4 20/1 4	DESCRIPTION FURNITURE SYSTEM FURNITURE SYSTEM MOTOR SHADES OPEN DFC 110 DRINKING FDUNTAIN RECEPTS. DFC 127/128 RECEPTS. DFC 127/128 RECEPTS. DFC 125/126 RECEPTS. DFC 125/126 RECEPTS. DFC 125/126 RECEPTS. DFC 123/124 RECEPTS. DFC 123/124 RECEPTS. DFC 123/124 RECEPTS. LDUNGE 102/MENS 118 RECEPTS. DFC 111B/112/113	A B C A B C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BKR QUAN 20/1 1 20/1 3 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1	FUI FUI FUI FUI FUI FUI FUI FUI FUI FUI
$\begin{array}{ccccc} 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 4 \\ 20/1 & 4 \\ 20/1 & 3 \\ 20/1 & 5 \\ 20/1 & 4 \end{array}$	FURNITURE SYSTEM FURNITURE SYSTEM MIDTOR SHADES OPEN DFC 110 DRINKING FDUNTAIN RECEPTS. DFC 127/128 RECEPTS. DFC 127/128 RECEPTS. DFC 127/128 RECEPTS. DFC 127/128 RECEPTS. DFC 125/126 RECEPTS. DFC 125/126 RECEPTS. DFC 123/124 RECEPTS. DFC 123/124 RECEPTS. MAILRDIM 134 RECEPTS. LDUNGE 102/MENS 118	B C A C A	4 900 R 6 900 R 8 900 R 10 900 R 12 900 R 14 900 R 16 900 R 20 900 R 22 900 R 24 900 R 24 900 R 26 900 R 28 900 R 26 900 R 30 900 R 31 900 R 32 900 R 34 540 R 38 1200 R 40 1200 R 42 900 R <th>$\begin{array}{ccccc} 20/1 & 1 \\ 20/1 & 3 \\ 20/1 & 1 \\$</th> <th>FUI FUI FUI FUI FUI FUI FUI FUI FUI FUI</th>	$\begin{array}{ccccc} 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 1 \\ 20/1 & 3 \\ 20/1 & 1 \\ $	FUI FUI FUI FUI FUI FUI FUI FUI FUI FUI
2D/1 3 2D/1 6 2D/1 5 2D/1 4 2D/1 2 2D/1 6 2D/1 3 2D/1 3 2D/1 3 2D/1 3 2D/1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </td <td>RECEPTS. DFC 111D/112/113 RECEPTS. DFC 111D/112/113 RECEPTS. WAIT 111A RECEPTS. CDNF. 118 RECEPTS. DFC 115/116 RECEPTS. DFC 115/116 RECEPTS. DFC 110/120 RECEPTS. DFC 110/120 SPARE</td> <td>B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C</td> <td>46 900 R 48 900 R 50 540 R 52 360 R 54 720 R 56 720 R 58 540 R 60 540 R 62 540 R 64 540 R 66 540 R 68 70 74 75 76 78 80 84 </td> <td>20/1 1 20/1 3 20/1 2 20/1 4 20/1 4 20/1 3 20/1 3 20/1 3 20/1 3 20/1 2 20/1 1 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>FUI FUI FUI REC REC REC REC REC SPI SPI SPI SPI SPI SPI SPI PRI PRI</td>	RECEPTS. DFC 111D/112/113 RECEPTS. DFC 111D/112/113 RECEPTS. WAIT 111A RECEPTS. CDNF. 118 RECEPTS. DFC 115/116 RECEPTS. DFC 115/116 RECEPTS. DFC 110/120 RECEPTS. DFC 110/120 SPARE	B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C	46 900 R 48 900 R 50 540 R 52 360 R 54 720 R 56 720 R 58 540 R 60 540 R 62 540 R 64 540 R 66 540 R 68 70 74 75 76 78 80 84	20/1 1 20/1 3 20/1 2 20/1 4 20/1 4 20/1 3 20/1 3 20/1 3 20/1 3 20/1 2 20/1 1 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 20/1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FUI FUI FUI REC REC REC REC REC SPI SPI SPI SPI SPI SPI SPI PRI PRI
AMPS 138 132 138	RECEPT. (> 10 kVA KITCHEN DTHER LDAD	@ 50 @ 6 @ 10)%) = 29240 5% = 0 10% = 360	LDAD TYPE: G - GENERAL L - L. C. L. R - RECEPTAC	
	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE PROVISION PROVISION PROVISION PROVISION L. C. L. AMPS L. C. L. AMPS RECEPT. (> 10 kVA 138 KITCHEN 132 OTHER LOAD 138	20/1 SPARE B 20/1 SPARE C PREVISION C C AMPS RECEPT. (> 10 kVA @ 50 138 KITCHEN @ 6 132 DTHER LOAD @ 10 133 TOTAL 136 TOTAL AM	20/1 SPARE PREVISION R PREVISION R B C AMPS RECEPT. (> 10 kVA @ 50%) = 29240 138 KITCHEN @ 65% = 0 138 ITHER LIDAD @ 100% = 360 138 TITAL VA = 29600	20/1 SPARE B 64 20/1 20/1 SPARE C 66 20/1 20/1 SPARE B 64 20/1 20/1 SPARE B 66 20/1 20/1 SPARE B 70 20/1 20/1 SPARE C 72 20/1 20/1 SPARE B 76 20/1 20/1 SPARE C 78 20/1 20/1 SPARE C 18 82 38 KITCHEN © 65% = <



VELTS 120/208 Phase 3Ph, 4W MTG SUFACE			PANELBOARD LOCATION	adp4 Phone	el room	PROJECT ND. MAIN BUS	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BKR QUAN 20/1 10 20/1 1 20/1 1 20/1 1 30/2 1	DESCRIPTION EXISTING LIGHTING TELEPHONR PLUG (E) LOADS AC UNIT SPARE SPARE SPARE PROVISION PROVISION PROVISION		A B C A B C A B C A B C A B C A B C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BKR QUAN 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	DES SPA SPA SPA SPA SPA SPA SPA SPA PRI PRI
CONNECTED: VA AMPS PHASE A = 1400 12 PHASE B = 2610 22 PHASE C = 2610 22 TOTAL = 6620 18		RECEPT.		50%) 50%)	= 720 = G - = 1000 L - = 7845 R -	L. C. L. (1 RECEPTACLE ((10 kVA @ 1	





VOLTS 120/208 PHASE 3PH, 4W MTG SUFACE	PROJECT NO. PANELBOARD ADL1 MAIN BUS LOCATION ELECTRICAL ROOM	1004
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 LIGHTING - CORRIDOR/LOBBY A 2 20/1	DESCRIPTION SPARE
CONNECTED: VA AMPS PHASE A = 1034 9 PHASE B = 430 4 PHASE C = 2206 18 TOTAL = 3670 10		00%) X1 - X-RAY (50%)

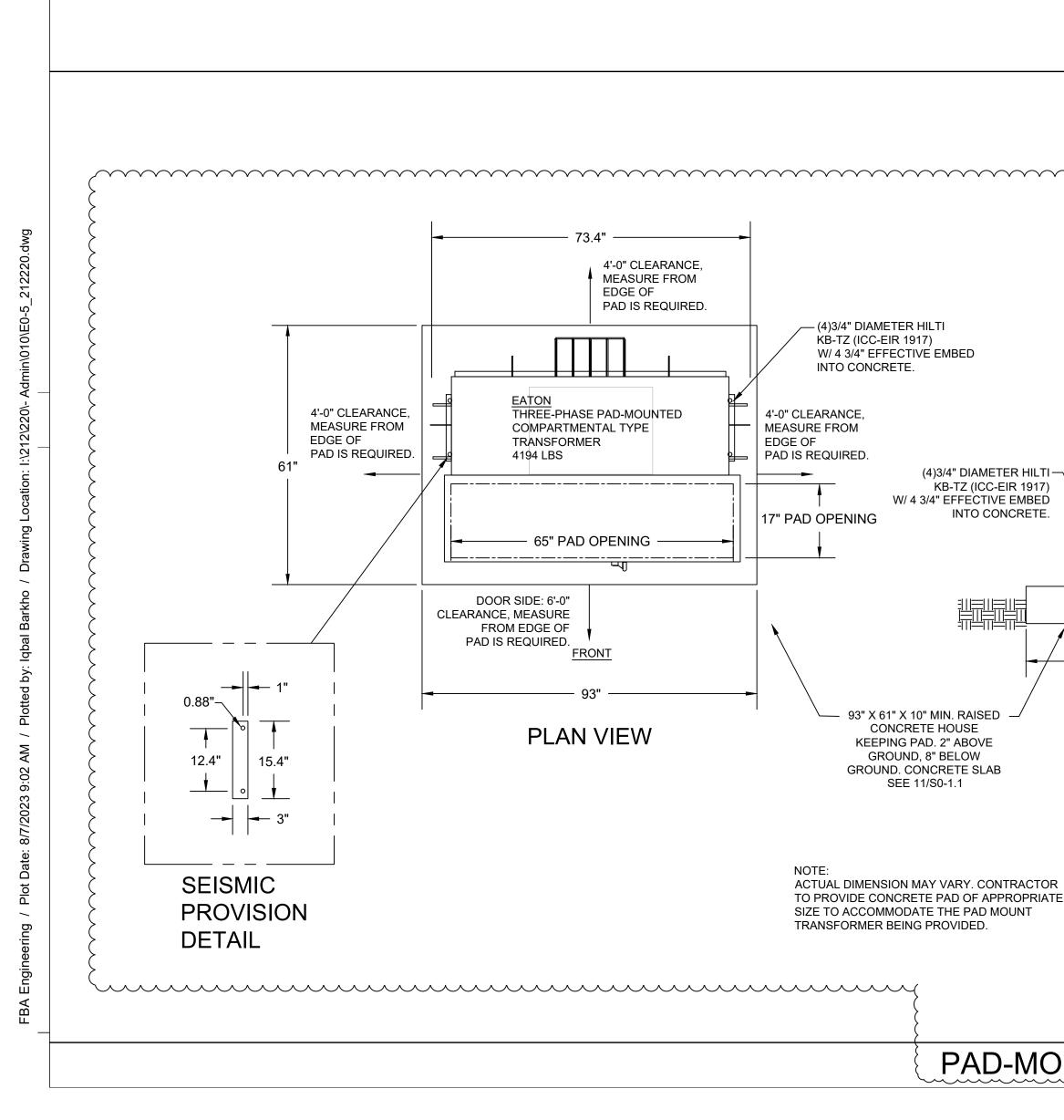
VOLTS 120/208 Phase 3Ph, 4V MTG Recessed		PR DP1 TDRAGE 145	idject nd. Main Bus	
<pre>< LEAD (VA)>LEAD CKT A B C TYPE BKI </pre>	DUTLET QUAN DESCRIPTION		DUTLET (R QUAN	
$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 (E)PRESIDENT DIR DFFICE LTS 1 (E)SECRATARY DFFICE LTS 1 (E)LTS 1 (E)LTS BDARDRODM 1 (E)REC PRES & SEC 1 (E)REC DIR SEC 1 (E)FLR DUCT PRES DIR 1 (E)FLR DUCT PRES DIR 1 (E)REC BDARDRODM EAST 1 (E)REC DFFICE NDRTH WING 1 (E)REC DFFICE NDRTH WING 1 (E)DUTSIDE LTS 1 (E)TEL BB 1 SPARE 1 SPARE	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	V/1 V/1 V/1 V/1 V/1 V/1 V/1 V/1 V/1 V/1	(E)REC WORK RODM MIMED (E)REC WORK RODM MIMED (E)FLOOR DUCT (E)NORTH WING REC (E)PA CONSOLE SPARE SPARE SPARE SPARE SPARE (E)PA SEL SW PANEL (E)TIME SWITCH FLAG POLE (E)LTS SERV RM (E)LTS SERV RM (E)DISPOSAL (E)LOAD (E)PLUG FLR POLISHER (E)PLUG FLR POLISHER
CONNECTED: VA AMPS PHASE A = 6960 58 PHASE B = 6120 51 PHASE C = 4170 35	L. C. L. @ 1 RECEPT. () 10 kVA @ 5 KITCHEN @ DTHER LOAD @ 1 TOTAL	0%) = 9180 65% = G - GEN 00% = 6750 L - L. C. VA = 17580 R - RECI	ERAL (1 .L. (1 EPTACLE (
TOTAL = 17250 48	total 4		10 kVA @ 1 CHEN (00%) X1 - X-RAY (50%) 65%)

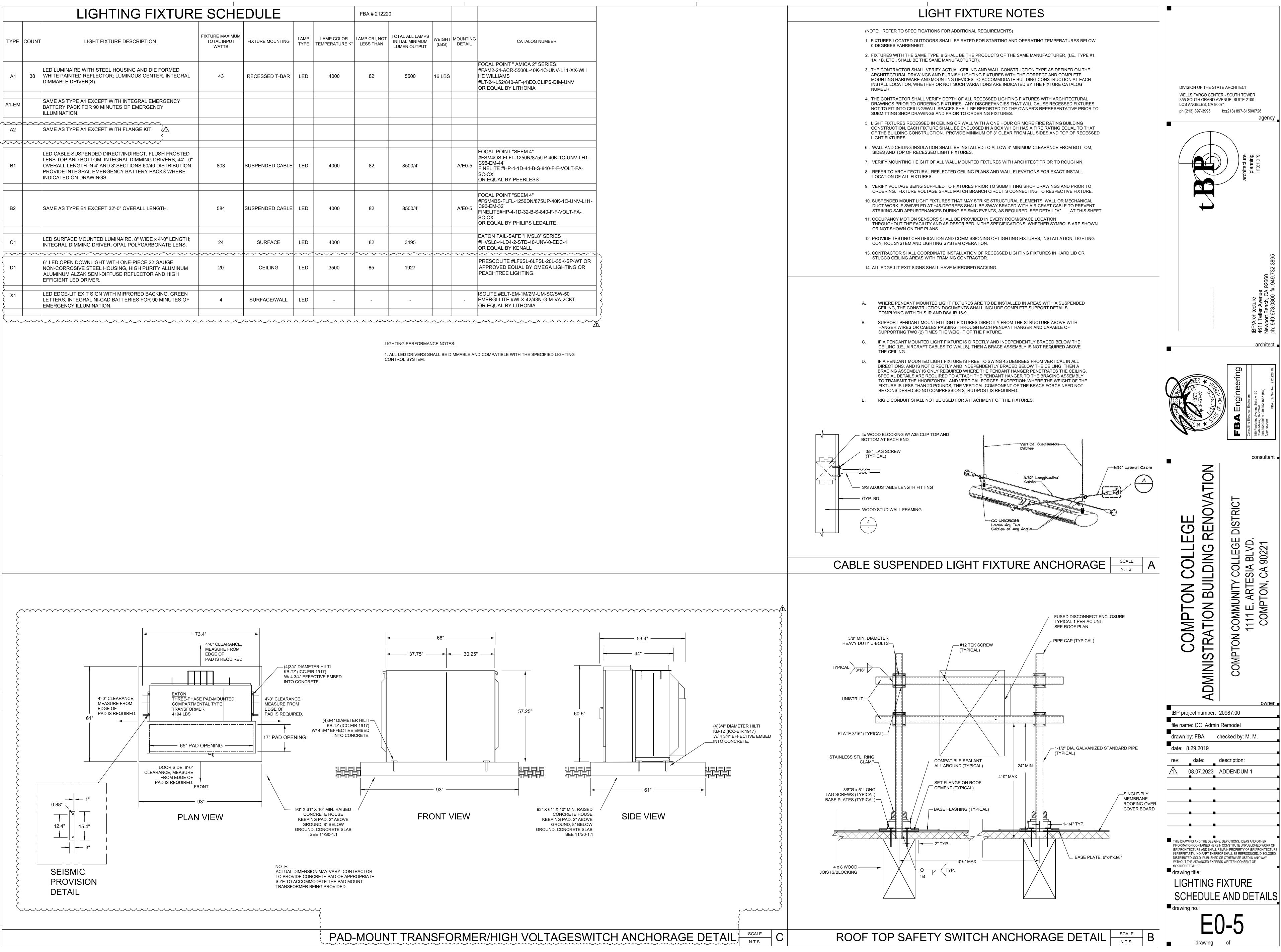
PANEL SCHEDULE KEYPLAN

[ADP2	ADMP		
l I				
	ADP3	ADL1		
	ADP4	ADP1		



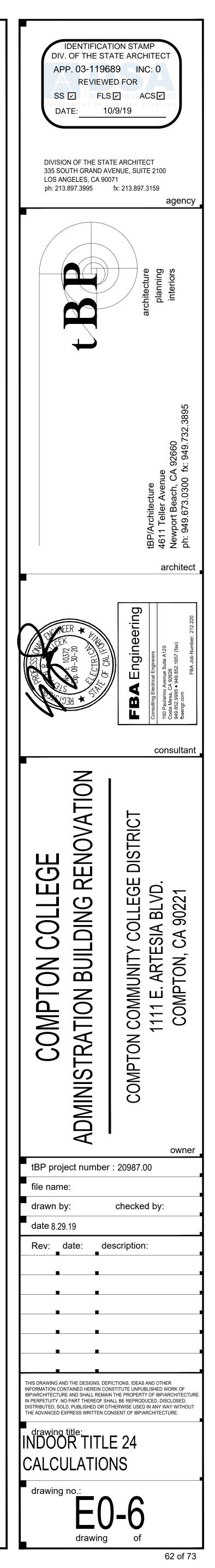
		LIGHTING FIXTUR	<u>E SCHE</u>	DULE			FBA # 21222	20		
YPE CO	JUNT	LIGHT FIXTURE DESCRIPTION	FIXTURE MAXIMUM TOTAL INPUT WATTS	FIXTURE MOUNTING	LAMP TYPE	LAMP COLOR TEMPERATURE K°	LAMP CRI, NOT LESS THAN	TOTAL ALL LAMPS INITIAL MINIMUM LUMEN OUTPUT	WEIGHT MOUNTING (LBS) DETAIL	CATALOG NUMBER
A1	38	LED LUMINAIRE WITH STEEL HOUSING AND DIE FORMED WHITE PAINTED REFLECTOR; LUMINOUS CENTER. INTEGRAL DIMMABLE DRIVER(S).	43	RECESSED T-BAR	LED	4000	82	5500	16 LBS	FOCAL POINT " AMICA 2" SERIES #FAM2-24-ACR-5500L-40K-1C-UNV-L11-XX-WH HE WILLIAMS #LT-24-L52/840-AF-(4)EQ.CLIPS-DIM-UNV OR EQUAL BY LITHONIA
1-EM		SAME AS TYPE A1 EXCEPT WITH INTEGRAL EMERGENCY BATTERY PACK FOR 90 MINUTES OF EMERGENCY ILLUMINATION.								
A2		SAME AS TYPE A1 EXCEPT WITH FLANGE KIT.								
B1		LED CABLE SUSPENDED DIRECT/INDIRECT, FLUSH FROSTED LENS TOP AND BOTTOM, INTEGRAL DIMMING DRIVERS, 44' - 0" OVERALL LENGTH IN 4' AND 8' SECTIONS 60/40 DISTRIBUTION. PROVIDE INTEGRAL EMERGENCY BATTERY PACKS WHERE INDICATED ON DRAWINGS.	803	SUSPENDED CABLE	LED	4000	82	8500/4'	A/E0-5	FOCAL POINT "SEEM 4" #FSM4OS-FLFL-1250N/875UP-40K-1C-UNV-LH1- C96-EM-44' FINELITE #HP-4-1D-44-B-S-840-F-F-VOLT-FA- SC-CX OR EQUAL BY PEERLESS
B2		SAME AS TYPE B1 EXCEPT 32'-0" OVERALL LENGTH.	584	SUSPENDED CABLE	LED	4000	82	8500/4'	A/E0-5	FOCAL POINT "SEEM 4" #FSM4BS-FLFL-1250DN/875UP-40K-1C-UNV-LH C96-EM-32' FINELITE#HP-4-1D-32-B-S-840-F-F-VOLT-FA- SC-CX OR EQUAL BY PHILIPS LEDALITE.
C1		LED SURFACE MOUNTED LUMINAIRE, 8" WIDE x 4'-0" LENGTH; INTEGRAL DIMMING DRIVER, OPAL POLYCARBONATE LENS.	24	SURFACE	LED	4000	82	3495		EATON FAIL-SAFE "HVSL8" SERIES #HVSL8-4-LD4-2-STD-40-UNV-0-EDC-1 OR EQUAL BY KENALL
D1		6" LED OPEN DOWNLIGHT WITH ONE-PIECE 22 GAUGE NON-CORROSIVE STEEL HOUSING, HIGH PURITY ALUMINUM ALUMINUM ALZAK SEMI-DIFFUSE REFLECTOR AND HIGH EFFICIENT LED DRIVER.	20	CEILING	LED	3500	85	1927		PRESCOLITE #LF6SL-6LFSL-20L-35K-SP-WT OF APPROVED EQUAL BY OMEGA LIGHTING OR PEACHTREE LIGHTING.
X1		LED EDGE-LIT EXIT SIGN WITH MIRRORED BACKING, GREEN LETTERS, INTEGRAL NI-CAD BATTERIES FOR 90 MINUTES OF EMERGENCY ILLUMINATION.	4	SURFACE/WALL	LED	-	-	-	-	ISOLITE #ELT-EM-1M/2M-UM-SC/SW-50 EMERGI-LITE #WLX-42/43N-G-M-VA-2CKT OR EQUAL BY LITHONIA

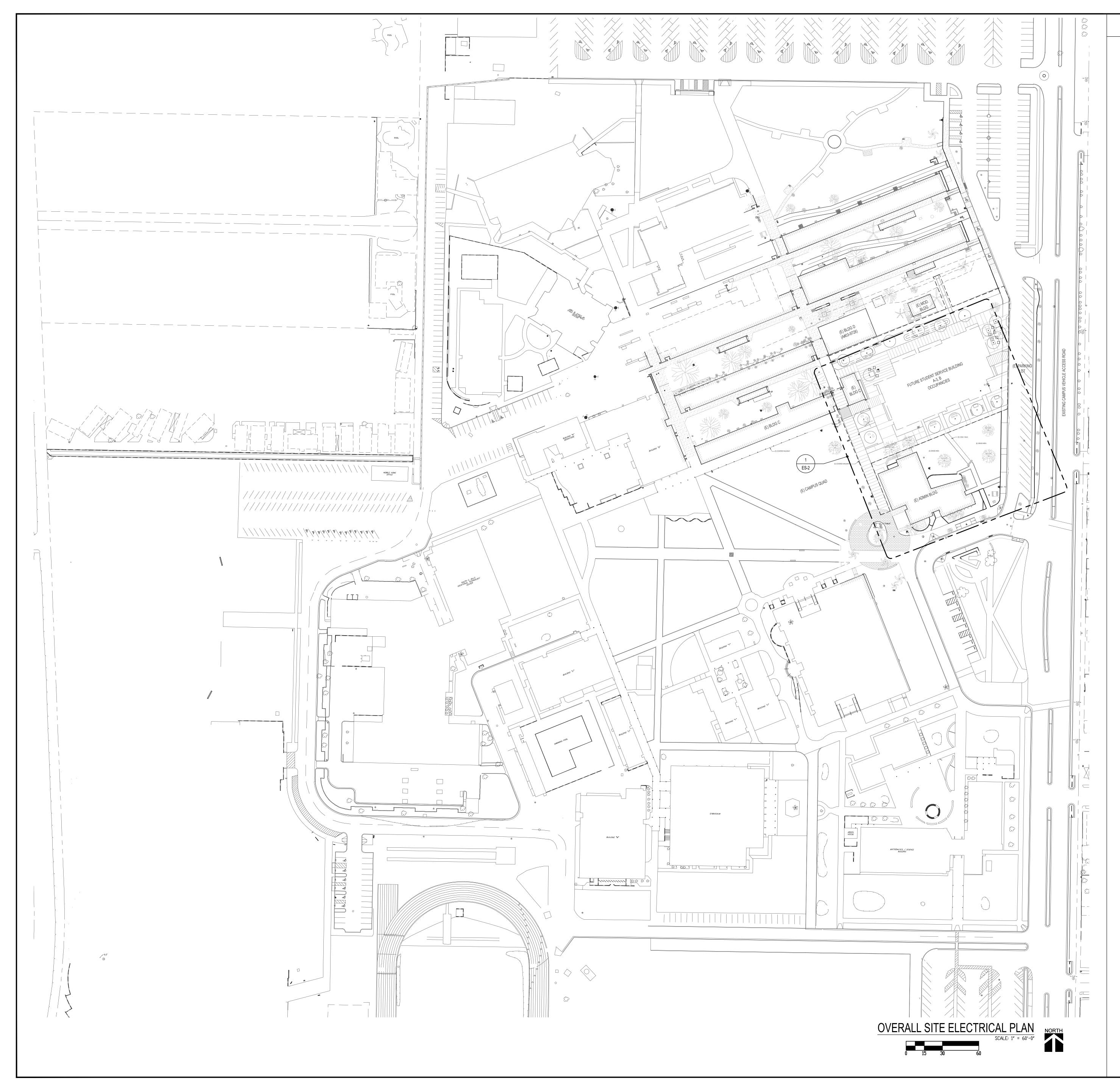




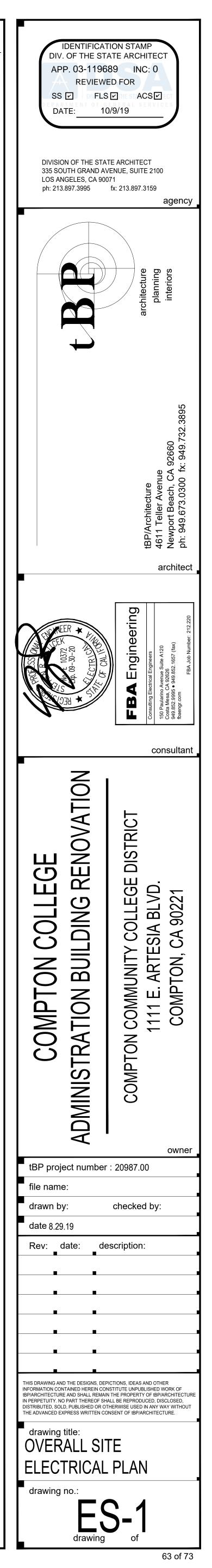
STATE OF CALIFORNIA	STATE OF CALIFORNIA
Indoor Lighting NRCC-LTI-E (Created 7/18) CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in \$110.9, \$130.0, \$130.1, \$140.6, and \$141.0(b)2 for indoor lighting scopes using the prescriptive path. Project Name: COMPTON COLLEGE ADMINISTRATION BUILDING RENOVATION	Indoor Lighting NRCC-LTI-E (Created 7/18) CERTIFICATE OF COMPLIANCE Project Name: COMPTON COLLEGE ADMINISTRATION BUILDING RENOVATION Report Page:
Project Address: 1111 E. ARTESIA BLVD. Page 1 of 6 Date Prepared: 2/22/2019	Project Address: 1111 E. ARTESIA BLVD. Date Prepared: D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
01 Project Location (city) COMPTON 04 Total Conditioned Floor Area (ft ²) 5,274 02 Climate Zone 8 05 Total Unconditioned Floor Area (ft ²) 0 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1	No exceptional conditions apply to this project.
Image: Constraint of the second se	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".	F. INDOOR LIGHTING FIXTURE SCHEDULE Table Instructions: Include all permanent designed lighting and all portable lighting in offices.
Scope of Work Conditioned Spaces Unconditioned Spaces 01 02 03 04 05 My Project Consists of (check all that apply): Calculation Method Area (ft ²) Calculation Method Area (ft ²)	01 02 03 04 05 06 07 08 Name or Item Tag Complete Luminaire Description Specialized Luminaire Types Watts per Track How Wattage is luminaire ¹ Total number Exempt per Luminaires Design Watts
Area Category 5,274 Area Category 0 Altered Lighting System Image: Comparison of the system Image: Comparison of the system Image: Comparison of the system	A1 LED LUMINAIRE WITH INTEGRAL DIM 43 Mfr. Spec1 40 1,720 B1 LED CABLE SUSPENDED DIRECT/INDI 803 Mfr. Spec1 2 1,606 B2 SAME AS B1 EXCEPT 32'-0" OVERALL 584 Mfr. Spec1 1 584
Total Area of Work (ft²) 5,274 0 C. COMPLIANCE RESULTS	Total Designed Watts CONDITIONED SPACES: 3,910 ¹ NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>\$130.0(c)</u> Wattage used must be the mo-
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Lighting in conditioned and Allowed Lighting Power per §140.6(b) (Watts) Actual Lighting Power per §140.6(a) (Watts) Compliance Results	G. TRACK LIGHTING This Section Does Not Apply
unconditioned spaces must not be combined for compliance per Complete S140.6(c)1 Area Category \$140.6(c)2 Tailored \$140.6(c)2 Total \$140.6(c)2 Tota	H. INDOOR LIGHTING CONTROLS (Not Including PAFs) Table Instructions:
§140.6(b)1. (Year of a constraint of a constrain	Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES 01 02 Building Level Controls 01 02 Section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES §130.1(e) §130.1(c)
Unconditioned:	NOT COMPLY" if the notes are left blank. Not Required ≤ 10,000 SF See Area Level Controls Area Level Controls Table Continued
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards July 2018	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
STATE OF CALIFORNIA	STATE OF CALIFORNIA
Indoor Lighting NRCC-LTI-E (Created 7/18) CERTIFICATE OF COMPLIANCE Project Name: COMPTON COLLEGE ADMINISTRATION BUILDING RENOVATION Report Page: Dec. 1	Indoor Lighting NRCC-LTI-E (Created 7/18) CERTIFICATE OF COMPLIANCE Regist Newson COMPTON CONTENTS
Project Name COMPTON COLLEGE ADMINISTRATION BUILDING RENOVATION Report Page: Page 4 of 6 Project Address: 1111 E. ARTESIA BLVD. Date Prepared: 2/22/2019 L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE Comparison Comparison Comparison	Project Name: COMPTON COLLEGE ADMINISTRATION BUILDING RENOVATION Report Page: Project Address: 1111 E. ARTESIA BLVD. Date Prepared: T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Television
This Section Does Not Apply M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS	Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, plea Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <u>http://</u> www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI
This Section Does Not Apply N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	YES NO Form/Title NRCI-LTI-01-E - Must be submitted for all buildings
This Section Does Not Apply O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This Section Does Not Apply	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This Section Does Not Apply	C NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. C NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference
Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This Section Does Not Apply	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for
R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF) This Section Does Not Apply	U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
S. RATED POWER REDUCTION COMPLIANCE BY SPACE This Section Does Not Apply	Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, plea Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Certification Provider (ATTCP). For more information visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u>
	YES NO Form/Title Image: Constraint of the submitted for occupancy sensors and automatic time switch controls.
	Image: Construction of the submitted for occupancy sensors and automatic time switch controls. Image: Construction of the submitted for automatic daylight controls. Image: Construction of the submitted for demand responsive lighting controls.
	C Intervention A - Must be submitted for demand responsive lighting controls. C Image: Control A - Must be submitted for institutional tuning power adjustment factor (PAF).
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards July 2018	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards
July 2018	compliance: http://www.energy.ca.gov/title24/2016standards

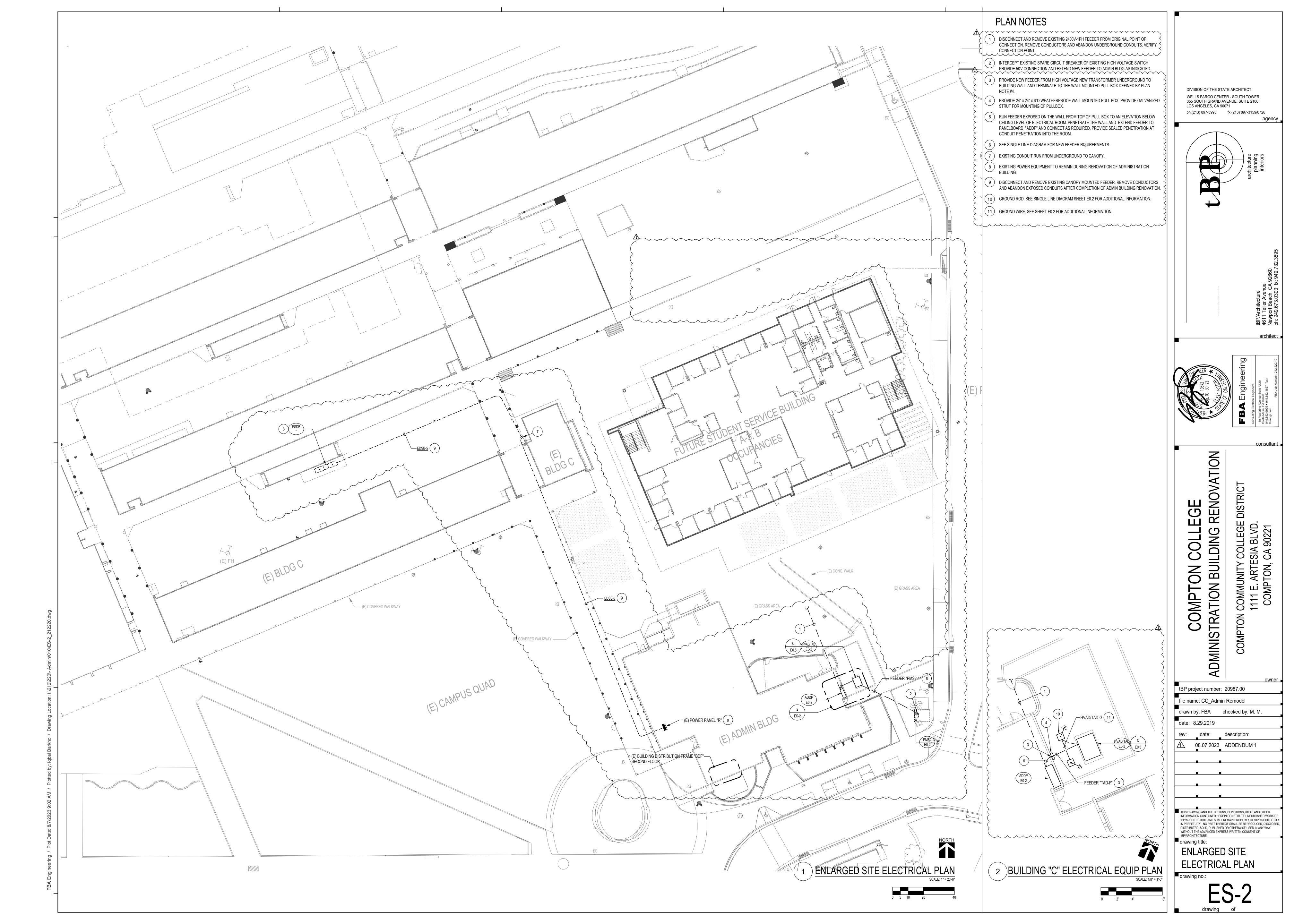
Project Name: COMPTO Project Address: 1111 E	ON COLLEGE ADMINISTRATION BUIL ARTESIA BLVD.	LDING RENOVATIO	(7	Report Page: Date Prepared:				Pag
04	05							2/2
		6	- 07	08	09	10	11	12
Area Description	omplete Building or Area Category	Area Controls	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary	Interlocked	Field Ins
	Primary Function Area	§ <u>130.1(a)</u>	§130.1(b)	§130.1(c)	§130.1(d)	Daylighting §140.6(d)	Systems §140.6(a)1	Pass
OFFICES < 250 SQFT		Manual ON/OFF	Dimmer	Occ Sensor		Tarioio(a)	3140.0(0)1	10 15
OPEN > 250 SQFT		Manual ON/OFF	Dimmer	Occ Sensor				
CONFERENCE		Manual ON/OFF	Dimmer	Occ Sensor				
WAITING AREA		Manual ON/OFF	Dimmer	Occ Sensor				
LOBBY		Manual ON/OFF	Dimmer	Occ Sensor				
*NOTES: Controls with a *	require a note in the space below e	explaining how cor	npliance is achiev	ed.		1		
EX: Conference 1: Primary, EXCEPTION 1 to <u>§130.1(d).</u>	/Skylight Daylighting: Exempt becau	ise less than 120 w	vatts of general lig	ihting;	PI	an Sheet Show		nes:
I. LIGHTING POWER ALI	LOWANCE: COMPLETE BUILDING							
Table Instructions: Comple	te the table for each area complying	a using the Compl	ete Building or Are	s Pa Category Met	hods per \$140 6/b	Indicate if an	Iditional light	
and a second	or adjustments per <u>§140.6(a)</u> are bei	ing used.		a caregoly mea	11003 per <u>3140.0(b)</u>	i maicate ij da	iaitional lighti	ing power
Conditioned Spaces						e U		
	<u>한 눈미구빠려는 만큼 너무 귀울</u> 같은, 02 . 등		03	04 5	05.357		06	
Area Description	Complete Building or /	Area Category	Allowed Density	Area Al	llowed Wattage	Additional A	Allowances / A	Adjustmen
	2. Long Factor L Primary Functio		(W/ft ²)	(ft²)		Footnotes	PAF	Portab
OFFICE < 250 SQFT	and the second		1	1,572	1,572			<u>г</u>
OFFICE > 250 SQFT			0.75	2,385	1,788.75			
CONFERENCE	Convention, Conf.	, Meeting	1.2	271	325.2			
WAITING AREA	Waiting An		0.8	229	183.2			1
LOBBY	Main Entry Lo	obby	0.95	817	776.15			l l
			TOTAL:	5,274	4,645.3	See Ta	bles J, K, R for	r detail
								* Digita 1978
This Section Does Not Appl	: PORTABLE LIGHTING IN OFFIC	ES					19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 State State
CA building thergy thiclency					Ja 			Jul
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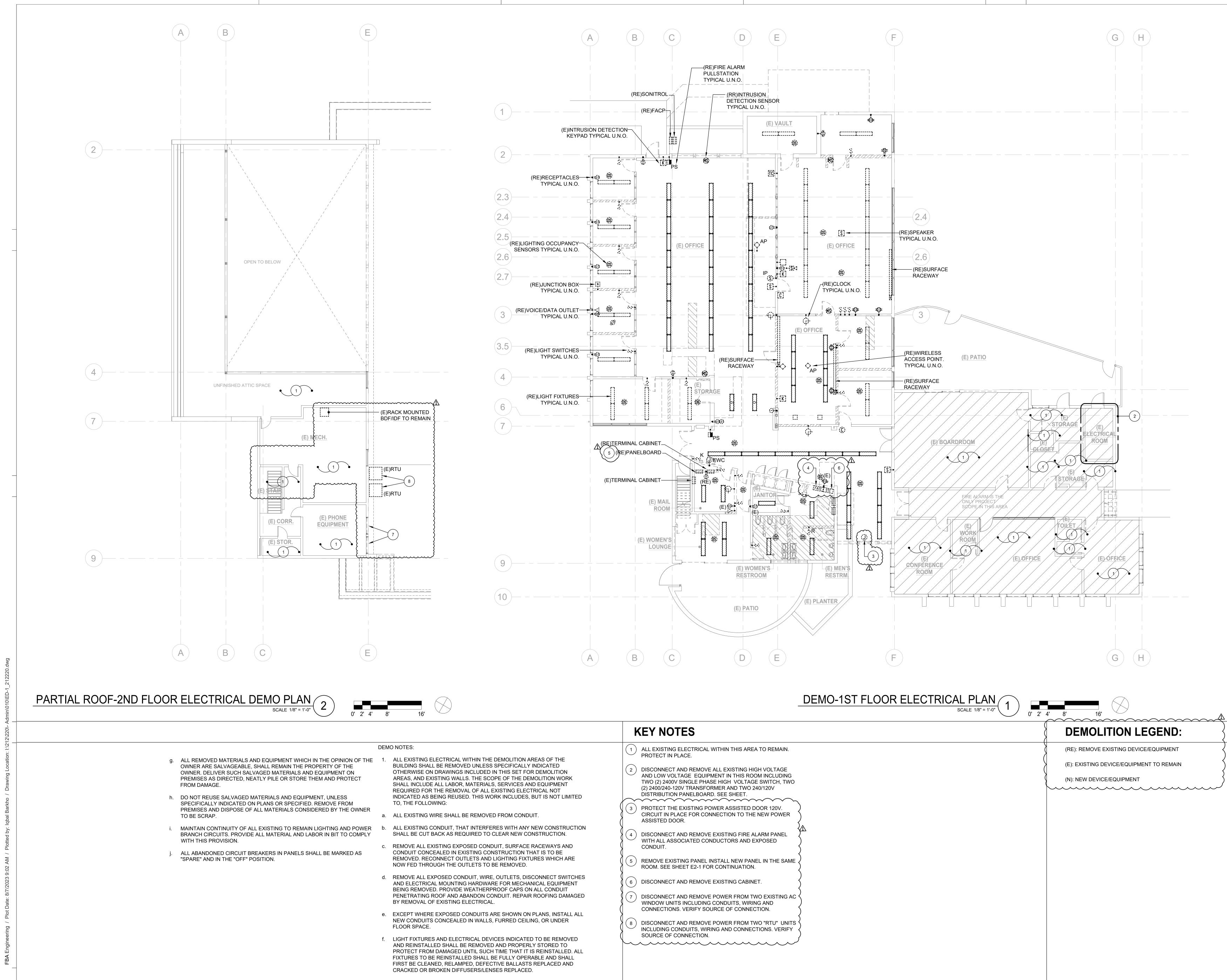




PLAN NOTES

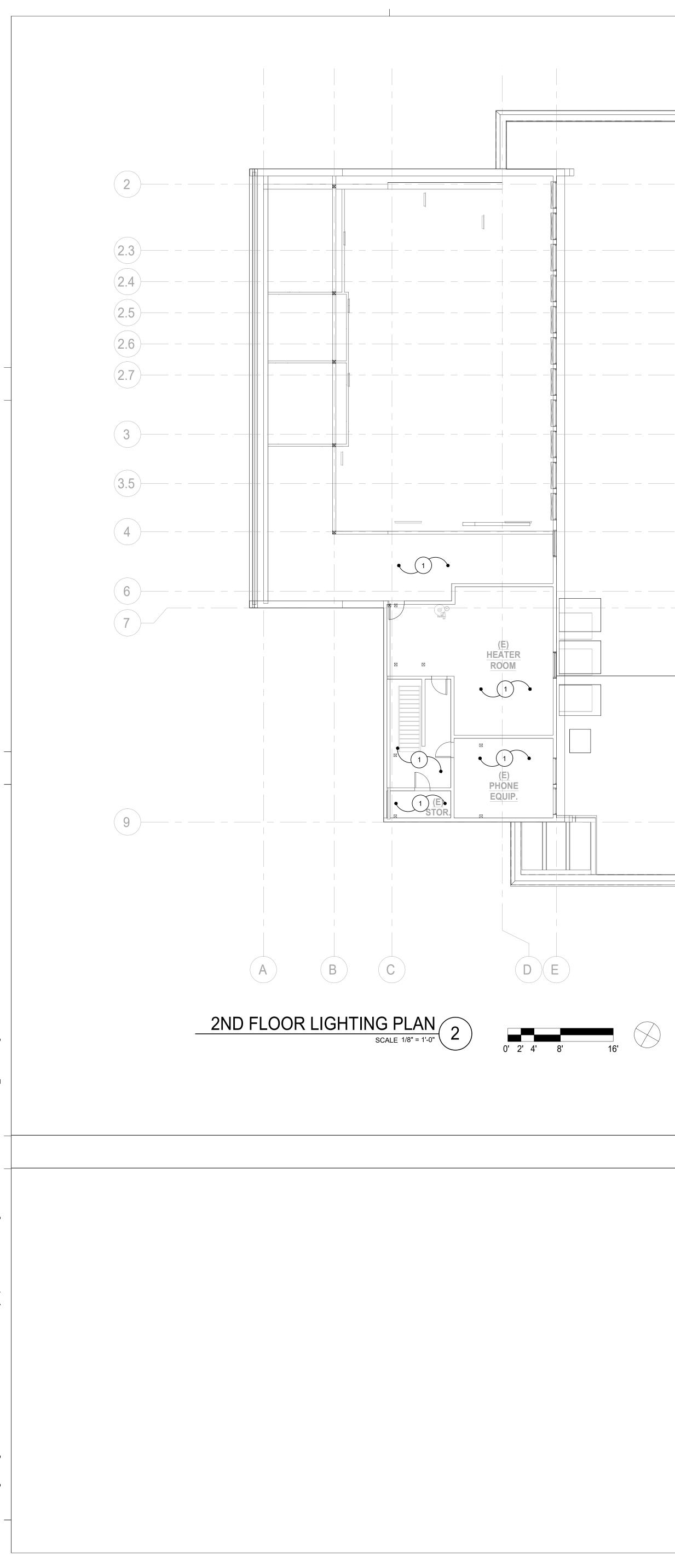




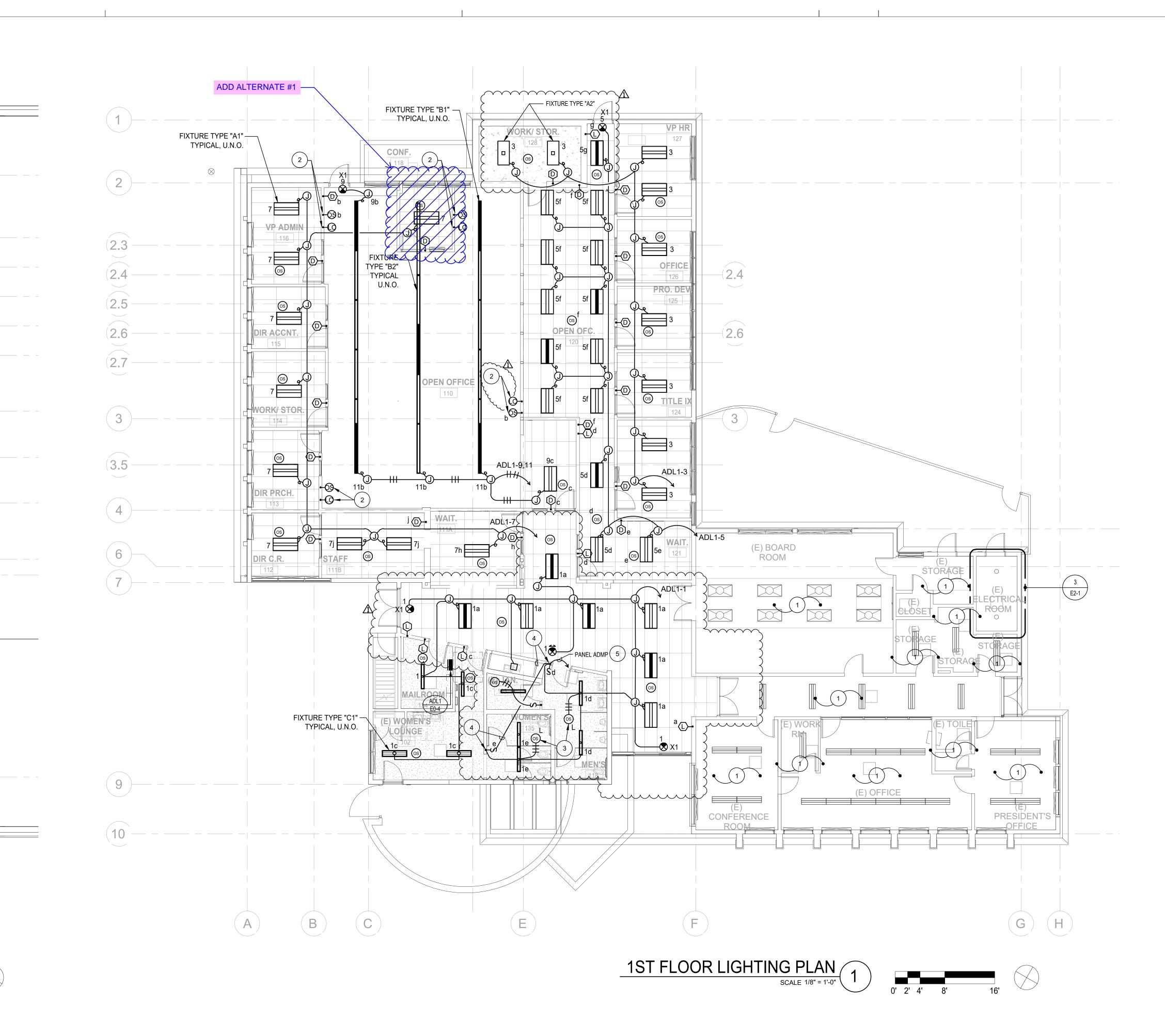


		KEY NOTES
DEN	MO NOTES:	1 ALL EXISTING ELECTRICAL WITHIN THIS AREA TO REMAIN.
1.	ALL EXISTING ELECTRICAL WITHIN THE DEMOLITION AREAS OF THE BUILDING SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS INCLUDED IN THIS SET FOR DEMOLITION AREAS, AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL NOT INDICATED AS BEING REUSED. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:	 PROTECT IN PLACE. 2 DISCONNECT AND REMOVE ALL EXISTING HIGH VOLTAGE AND LOW VOLTAGE EQUIPMENT IN THIS ROOM INCLUDING TWO (2) 2400V SINGLE PHASE HIGH VOLTAGE SWITCH, TWO (2) 2400/240-120V TRANSFORMER AND TWO 240/120V DISTRIBUTION PANELBOARD. SEE SHEET.
a.	ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.	3 PROTECT THE EXISTING POWER ASSISTED DOOR 120V. CIRCUIT IN PLACE FOR CONNECTION TO THE NEW POWER ASSISTED DOOR.
b.	ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.	4 DISCONNECT AND REMOVE EXISTING FIRE ALARM PANEL
C.	REMOVE ALL EXISTING EXPOSED CONDUIT, SURFACE RACEWAYS AND CONDUIT CONCEALED IN EXISTING CONSTRUCTION THAT IS TO BE REMOVED. RECONNECT OUTLETS AND LIGHTING FIXTURES WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.	5 REMOVE EXISTING PANEL INSTALL NEW PANEL IN THE SAME ROOM. SEE SHEET E2-1 FOR CONTINUATION.
d.	REMOVE ALL EXPOSED CONDUIT, WIRE, OUTLETS, DISCONNECT SWITCHES AND ELECTRICAL MOUNTING HARDWARE FOR MECHANICAL EQUIPMENT BEING REMOVED. PROVIDE WEATHERPROOF CAPS ON ALL CONDUIT PENETRATING ROOF AND ABANDON CONDUIT. REPAIR ROOFING DAMAGED BY REMOVAL OF EXISTING ELECTRICAL.	6 DISCONNECT AND REMOVE EXISTING CABINET. 7 DISCONNECT AND REMOVE POWER FROM TWO EXISTING AC WINDOW UNITS INCLUDING CONDUITS, WIRING AND
e.	EXCEPT WHERE EXPOSED CONDUITS ARE SHOWN ON PLANS, INSTALL ALL NEW CONDUITS CONCEALED IN WALLS, FURRED CEILING, OR UNDER FLOOR SPACE.	CONNECTIONS. VERIFY SOURCE OF CONNECTION. 8 DISCONNECT AND REMOVE POWER FROM TWO "RTU" UNITS INCLUDING CONDUITS, WIRING AND CONNECTIONS. VERIFY
f.	LIGHT FIXTURES AND ELECTRICAL DEVICES INDICATED TO BE REMOVED AND REINSTALLED SHALL BE REMOVED AND PROPERLY STORED TO PROTECT FROM DAMAGED UNTIL SUCH TIME THAT IT IS REINSTALLED. ALL FIXTURES TO BE REINSTALLED SHALL BE FULLY OPERABLE AND SHALL FIRST BE CLEANED, RELAMPED, DEFECTIVE BALLASTS REPLACED AND CRACKED OR BROKEN DIFFUSERS/LENSES REPLACED.	SOURCE OF CONNECTION.





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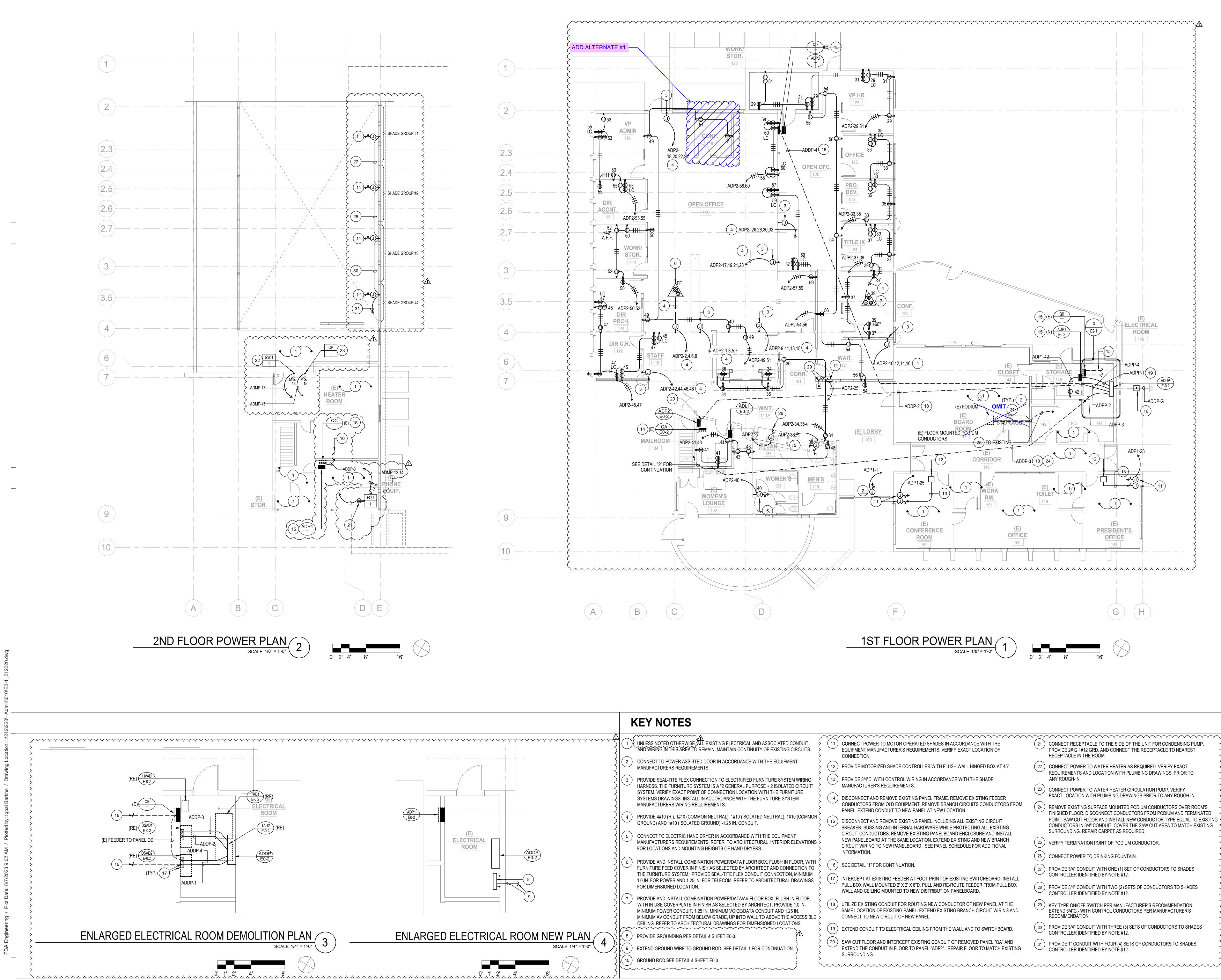


	KEY NOTES
	1 ALL EXISTING LIGHTING, CONDUIT, WIRING AND CONTROLS IN THIS AREA TO REMAIN. MAINTAIN CONTINUITY OF EXISTING CIRCUITS.
$\mathbb{A}_{}$	(2) WALL MOUNT, HIGH ON WALL. (3) PROVIDE LINE VOLTAGE OCCUPANCY SENSOR.
<pre>{</pre>	4 INTERCONNECT TO ON/OFF SWITCHES IN SUCH A WAY OF EACH SWITCH CAN TURN-ON ROOM'S EXHAUST FAN.
	5 PROVIDE 3/4"C 2#12, 1#12 GRD. TO PANEL INDICATED. INTERLOCK TWO ON/OFF SWITCHES WITH RELAY SERVING EXHAUST FAN EF-1 SO THAT UPON TURN-ON OF EACH ON/OFF SWITCH FAN WILL BE OPERATED.
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LIGHTING CONTROL PERFORMANCE NOTES:

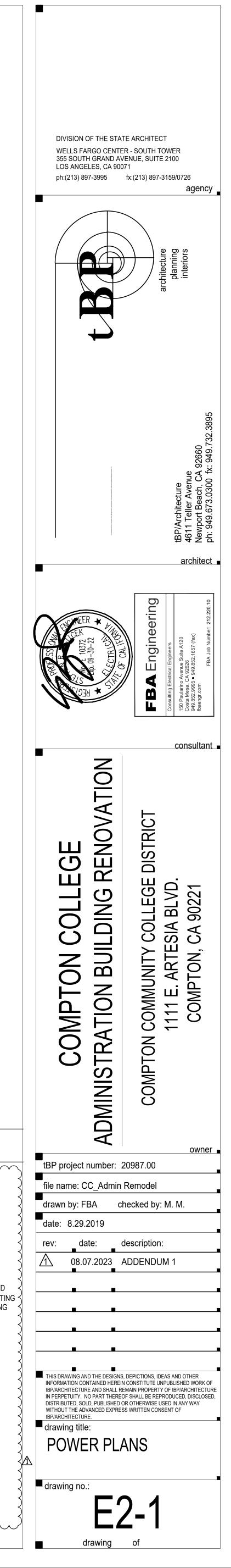
- 1. LIGHTING CONTROL WIRING NOT SHOWN ON LIGHTING PLANS FOR CLARITY. REFER TO LIGHTING CONTROL DIAGRAMS AND SPECIFICATIONS FOR LIGHTING CONTROL SYSTEM DEVICE AND WIRING REQUIREMENTS. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
- 2. THE ABOVE CEILING SPACE IS AN OPEN-AIR PLENUM. CONTRACTOR SHALL PROVIDE ALL LIGHTING CONTROL WIRING IN MINIMUM 3/4 IN. CONDUIT. INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.
- 3. PLACEMENT OF LIGHTING OCCUPANCY SENSORS AND LIGHT LEVEL CONTROL SENSORS ARE DIAGRAMMATIC. ALL SENSORS SHALL BE MOUNTED CENTERED IN THE CEILING TILES.
- 4. LIGHTING OCCUPANCY SENSORS SHALL BE PLACED 4 FEET FROM ANY HVAC REGISTERS WHEREVER POSSIBLE TO AVOID AIR FLOW.
- 5. CONTRACTOR SHALL INCLUDE ALL PROGRAMMING AND START UP IN BID. ALL LIGHT CONTROLS SHALL BE SET TO THE COLLEGE'S SATISFACTION.
- 6. PROVIDE LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLES IN ACCORDANCE WITH CEC TITLE-24 REQUIREMENTS. REFER TO POWER PLANS FOR CONTROLLED RECEPTACLES LOCATIONS.

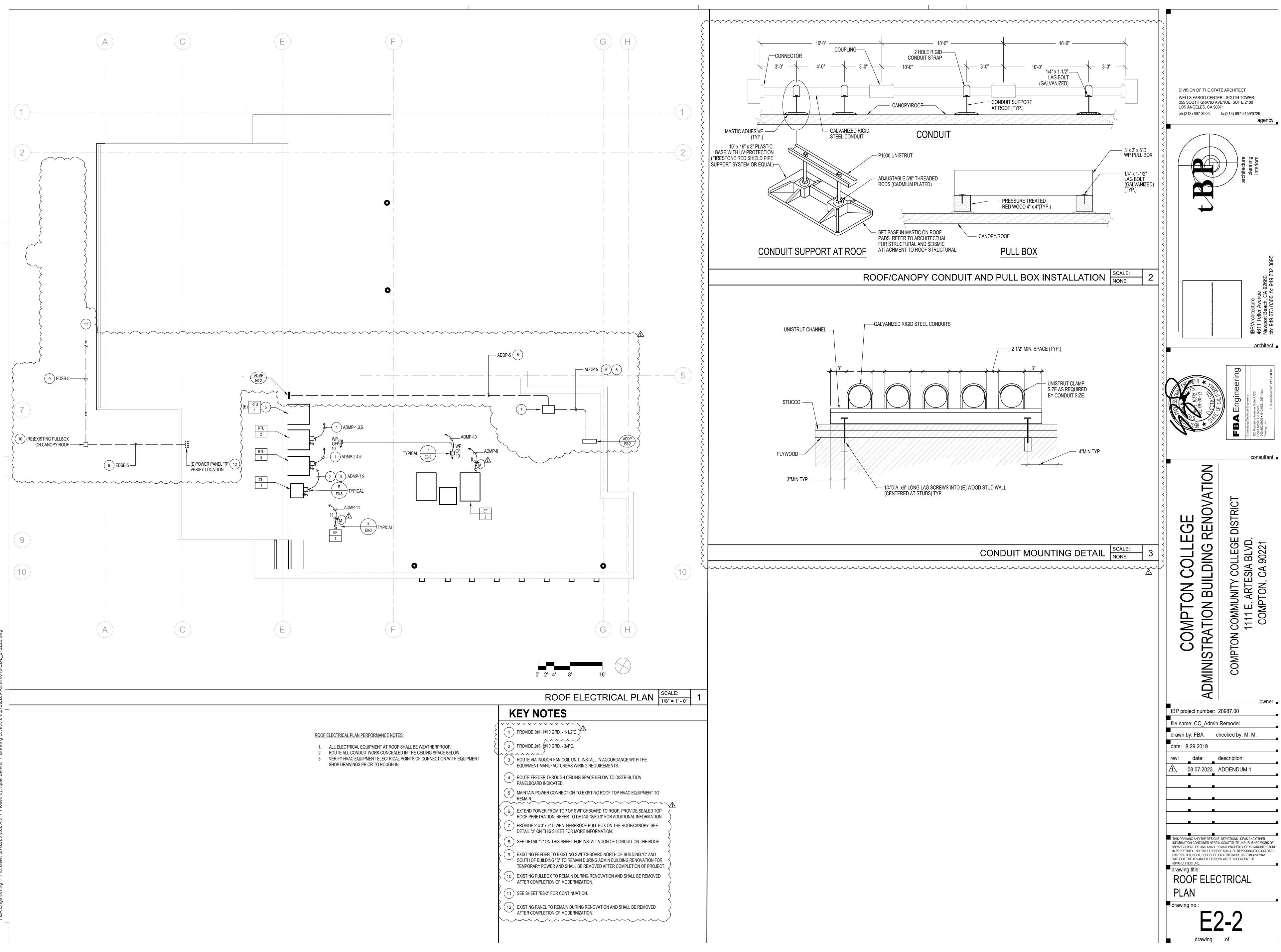


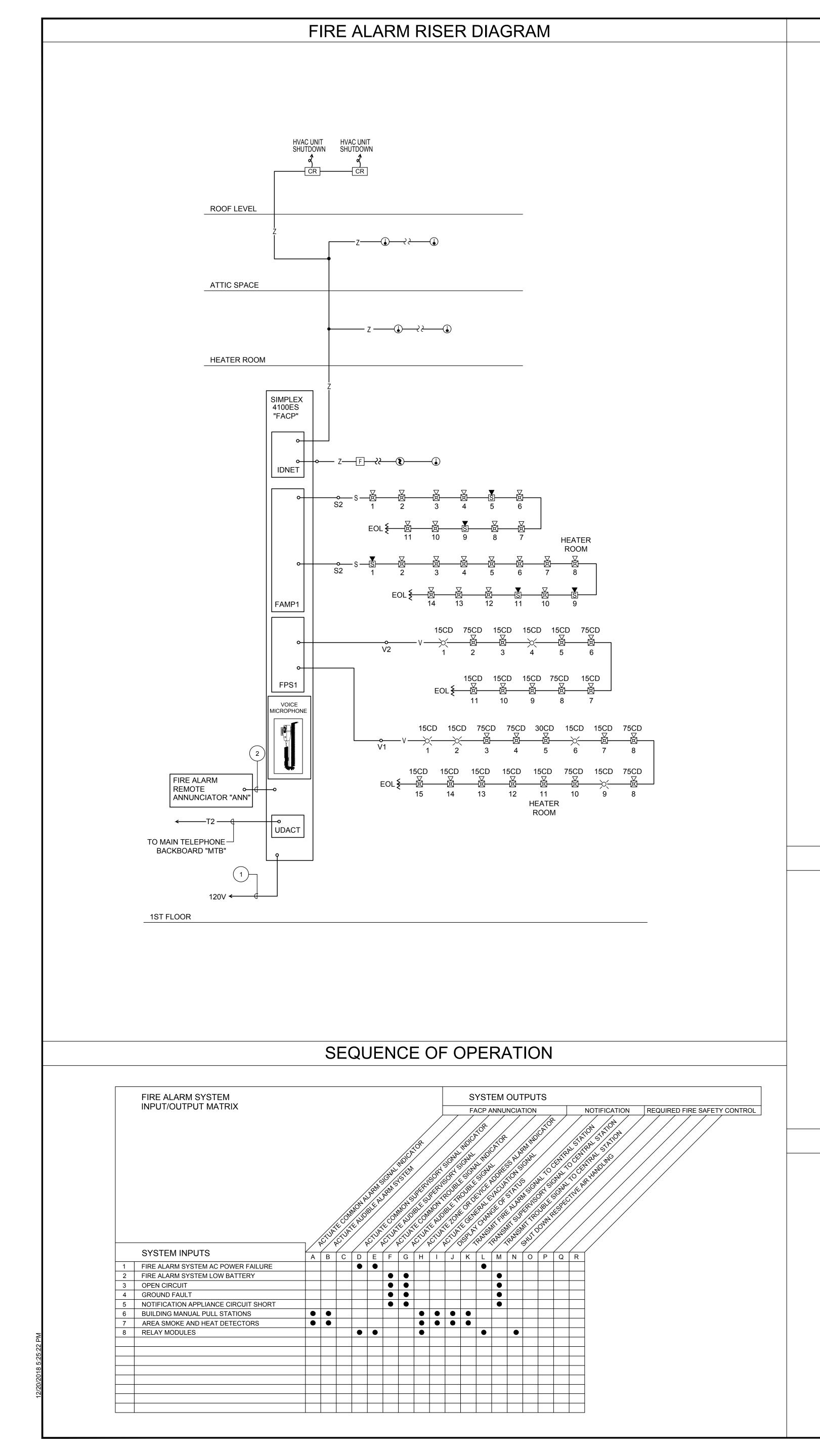




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NDUIT CUITS.		CONNECT POWER TO MOTOR OPERATED SHADES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION OF CONNECTION.	(21)	CONNECT RECEPTACLE TO THE SIDE OF THE UNIT FOR CONDENSING PUMP. PROVIDE 2#12,1#12 GRD. AND CONNECT THE RECEPTACLE TO NEAREST RECEPTACLE IN THE ROOM.
() PROVIDE MOTORIZED SHADE CONTROLLER WITH FLUSH WALL HINGED BOX AT 45".	22	CONNECT POWER TO WATER HEATER AS REQUIRED. VERIFY EXACT REQUIREMENTS AND LOCATION WITH PLUMBING DRAWINGS, PRIOR TO
WIRING (CIRCUIT" () PROVIDE 3/4"C. WITH CONTROL WIRING IN ACCORDANCE WITH THE SHADE MANUFACTURER'S REQUIREMENTS.	(23)	ANY ROUGH-IN. CONNECT POWER TO WATER HEATER CIRCULATION PUMP, VERIFY
RE (1 (14) DISCONNECT AND REMOVE EXISTING PANEL FRAME. REMOVE EXISTING FEEDER CONDUCTORS FROM OLD EQUIPMENT. REMOVE BRANCH CIRCUITS CONDUCTORS FROM	\bigcirc	EXACT LOCATION WITH PLUMBING DRAWINGS PRIOR TO ANY ROUGH IN.
((COMMON (PANEL. EXTEND CONDUIT TO NEW PANEL AT NEW LOCATION.	(24)	REMOVE EXISTING SURFACE MOUNTED PODIUM CONDUCTORS OVER ROOM'S FINISHED FLOOR. DISCONNECT CONDUCTORS FROM PODIUM AND TERMINATED
`(((15)	DISCONNECT AND REMOVE EXISTING PANEL INCLUDING ALL EXISTING CIRCUIT BREAKER, BUSSING AND INTERNAL HARDWARE WHILE PROTECTING ALL EXISTING CIRCUIT CONDUCTORS. REMOVE EXISTING PANELBOARD ENCLOSURE AND INSTALL		POINT. SAW CUT FLOOR AND INSTALL NEW CONDUCTOR TYPE EQUAL TO EXISTI CONDUCTORS IN 3/4" CONDUIT, COVER THE SAW CUT AREA TO MATCH EXISTING SURROUNDING. REPAIR CARPET AS REQUIRED.
EVATIONS ((>	NEW PANELBOARD AT THE SAME LOCATION. EXTEND EXISTING AND NEW BRANCH CIRCUIT WIRING TO NEW PANELBOARD . SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.	25	VERIFY TERMINATION POINT OF PODIUM CONDUCTOR.
(OR, WITH			(26)	CONNECT POWER TO DRINKING FOUNTAIN.
TION TO () SEE DETAIL "1" FOR CONTINUATION.	27	PROVIDE 3/4" CONDUIT WITH ONE (1) SET OF CONDUCTORS TO SHADES CONTROLLER IDENTIFIED BY NOTE #12.
AWINGS (((PULL BOX WALL MOUNTED 2' X 2' X 6"D. PULL AND RE-ROUTE FEEDER FROM PULL BOX WALL AND CEILING MOUNTED TO NEW DISTRIBUTION PANELBOARD.	28	PROVIDE 3/4" CONDUIT WITH TWO (2) SETS OF CONDUCTORS TO SHADES CONTROLLER IDENTIFIED BY NOTE #12.
FLOOR, (0 IN. (I. (CESSIBLE (UTILIZE EXISTING CONDUIT FOR ROUTING NEW CONDUCTOR OF NEW PANEL AT THE SAME LOCATION OF EXISTING PANEL. EXTEND EXISTING BRANCH CIRCUIT WIRING AND CONNECT TO NEW CIRCUIT OF NEW PANEL.	29	KEY TYPE ON/OFF SWITCH PER MANUFACTURER'S RECOMMENDATION. EXTEND 3/4"C WITH CONTROL CONDUCTORS PER MANUFACTURER'S RECOMMENDATION.
IS. (EXTEND CONDUIT TO ELECTRICAL CEILING FROM THE WALL AND TO SWITCHBOARD.	30	PROVIDE 3/4" CONDUIT WITH THREE (3) SETS OF CONDUCTORS TO SHADES CONTROLLER IDENTIFIED BY NOTE #12.
) (20	SAW CUT FLOOR AND INTERCEPT EXISTING CONDUIT OF REMOVED PANEL "QA" AND EXTEND THE CONDUIT IN FLOOR TO PANEL "ADP2". REPAIR FLOOR TO MATCH EXISTING SURROUNDING.	31	PROVIDE 1" CONDUIT WITH FOUR (4) SETS OF CONDUCTORS TO SHADES CONTROLLER IDENTIFIED BY NOTE #12.

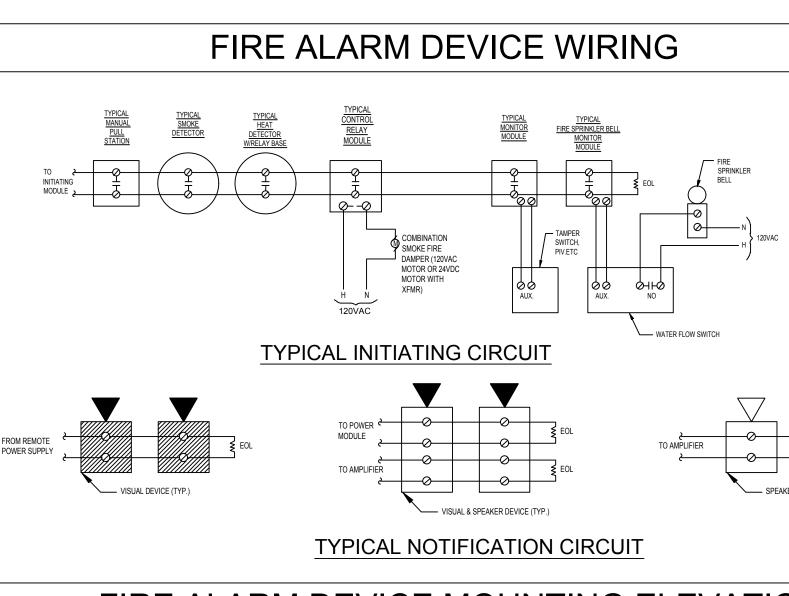




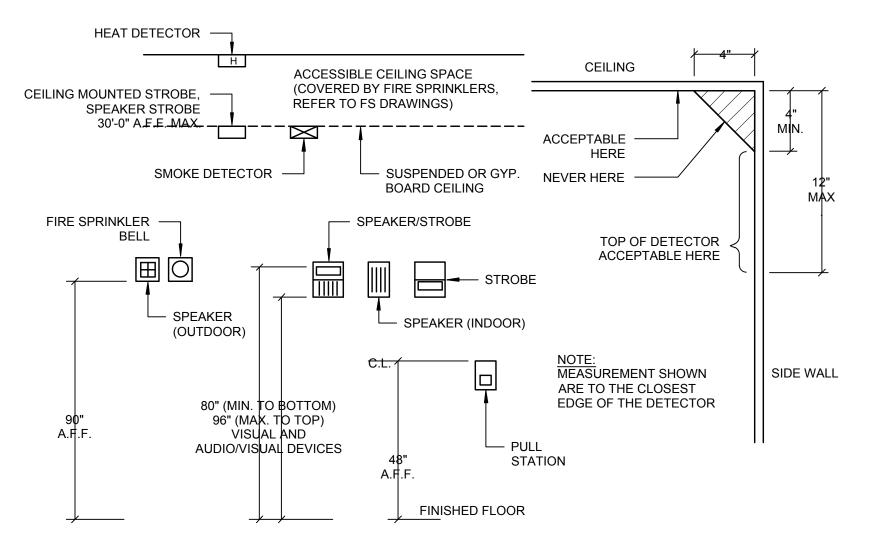


FIRE ALARM EQUIPMENT SCHEDULE

QTY	ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING
1	FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION "FACP"		+72" AFF TO TOP OF CABINET	SIMPLEX 4100ES 4100-9114	7165-0026-0369
1	FIRE ALARM 70.7V REMOTE AMPLIFIER FLEX 50, 50WATT AMPLIFIER "FAMP_"		MOUNT IN FACP CABINET	SIMPLEX 4100-1313	7165-0026-036
1	FIRE ALARM REMOTE POWER SUPPLY "FPS_"		MOUNT IN FACP CABINET	SIMPLEX EPS	7300-0026-021
1	FIRE ALARM LCD REMOTE ANNUNCIATOR "FANN"		+66" AFF TO TOP OF CABINET	SIMPLEX 4603-9101	7120-0026-022
1	ADDRESSABLE MANUAL PULL STATION ON FLUSH WALL MOUNTED OUTLET BOX	F	+48" AFF TO CENTER	SIMPLEX 4099-9006	7150-0026:022
54	ADDRESSABLE PHOTO SMOKE DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX	۲	CEILING	SIMPLEX 4098-9714	7272-0026:021
43	ADDRESSABLE HEAT DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX	١	ATTIC SPACE	SIMPLEX 4098-9733	7270-0026:021
0	ADDRESSABLE MONITOR MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	MM	FIELD VERIFY	SIMPLEX 4090-9001	7300-0026:022
0	ADDRESSABLE CONTROL MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	СМ	FIELD VERIFY	SIMPLEX 4090-9002	7300-0026:022
2	ADDRESSABLESINGLE INPUT RELAY MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	CR	FIELD VERIFY	SIMPLEX 4090-9007	7300-0026:022
5	WEATHERPROOF SPEAKER ON FLUSH WALL MOUNTED IN WEATHERPROOF BACKBOX	IS WP 1W	+90" AFF TO TOP	COOPER/WHEELOCK ET1010-R	7320-0785:010
18	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED IN A 4S DEEPBOX W/4S EXT (#CD DENOTES CANDELA)	⊠⊲ #CD	CEILING	COOPER/WHEELOCK E90-24MCC-FW	7125-0785:015
3	 FIRE ALARM SPEAKER/STROBE WALL MOUNTED IN A 4S DEEPBOX W/4S EXT (#CD DENOTES CANDELA) 	•-⊠⊲ #CD	+80" - 96" AFF TO BOTTOM OF LENS	COOPER/WHEELOCK E70-24MCC-FW	7125-0785:015
6	FIRE ALARM CEILING MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA))∕ #CD	CEILING	COOPER/WHEELOCK LSTC3	7125-0785:016
0	FIRE ALARM WALL MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA)	•☆ #CD	+80" - 96" AFF TO BOTTOM OF LENS	COOPER/WHEELOCK LST	7125-0785:016



FIRE ALARM DEVICE MOUNTING ELEVATIONS



 B. CONSTRUCTION TYPE REFER TO ARCHITECTURAL DRAWINGS. C. PENETRATIONS OF FIRE RATED WALLS SHAL WITH CALIFORNIA BUILDING CODE, PART 2, CI REFER TO THE ARCHITECTURAL PLANS FOR F OCCUPANCY SEPARATION(S) AND AREA SEPA D. UPON COMPLETION OF SYSTEM INSTALLATION IN THE PRESENCE OF AND IN A MANNER ACCI AGENCY. E. PROVIDE A STATEMENT OF COMPLIANCE WHIT CFC 901.2.1 F. THE FIRE ALARM SYSTEM DESIGN FOR THIS F FULLY AUTOMATIC. 2.0 APPLICABLE CODES AND STANDARDS A. PARTIAL LIST OF APPLICABLE CODES AS OF 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 2016 CALIFORNIA BUILDING CODE (CBC), PART (2015 INTERNATIONAL BUILDING CODE VOL. AMENDMENTS) 	HAPTER 7, TITLE 24. FIRE-RATE CORRIDOR(S), ARATION WALL(S). ON, THE SYSTEM SHALL BE TES EPTABLE TO THE ENFORCING EN REQUESTING INSPECTION
 REFER TO THE ARCHITECTURAL PLANS FOR FOCCUPANCY SEPARATION(S) AND AREA SEPA D. UPON COMPLETION OF SYSTEM INSTALLATION IN THE PRESENCE OF AND IN A MANNER ACCURAGENCY. E. PROVIDE A STATEMENT OF COMPLIANCE WHE CFC 901.2.1 F. THE FIRE ALARM SYSTEM DESIGN FOR THIS FOULLY AUTOMATIC. 2.0 APPLICABLE CODES AND STANDARDS A. PARTIAL LIST OF APPLICABLE CODES AS OF A 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 2016 CALIFORNIA BUILDING CODE (CBC), PART 2015 INTERNATIONAL BUILDING CODE VOL. 	FIRE-RATE CORRIDOR(S), ARATION WALL(S). ON, THE SYSTEM SHALL BE TES EPTABLE TO THE ENFORCING EN REQUESTING INSPECTION
 IN THE PRESENCE OF AND IN A MANNER ACCIAGENCY. E. PROVIDE A STATEMENT OF COMPLIANCE WHE CFC 901.2.1 F. THE FIRE ALARM SYSTEM DESIGN FOR THIS F FULLY AUTOMATIC. 2.0 APPLICABLE CODES AND STANDARDS A. PARTIAL LIST OF APPLICABLE CODES AS OF A 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 2016 CALIFORNIA BUILDING CODE (CBC), PART 3 (2015 INTERNATIONAL BUILDING CODE VOL. 5 (2015 INTERNATIONAL BUILDING CODE VOL (2015 INTERNATIONAL BUILDING CODE VOL (2015 INTERNATIONAL BU	EPTABLE TO THE ENFORCING
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A. PARTIAL LIST OF APPLICABLE CODES AS OF 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 2016 CALIFORNIA BUILDING CODE (CBC), PART (2015 INTERNATIONAL BUILDING CODE VOL.	
2016 CALIFORNIA ADMINISTRATIVE CODE, PART 2016 CALIFORNIA BUILDING CODE (CBC), PART (2015 INTERNATIONAL BUILDING CODE VOL.	
2016 CALIFORNIA ELECTRICAL CODE (CEC), PAR (2014 NATIONAL ELECTRICAL CODE AND 2016	T 1, TITLE 24 C.C.R.* 2, TITLE 24 C.C.R. 1-2 AND 2016 CALIFORNIA RT 3, TITLE 24 C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), PA	ART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE A 2016 CALIFORNIA PLUMBING CODE (CPC), PART (2015 IAPMO UNIFORM PLUMBING CODE AND	T 5, TITLE 24 C.C.R.
2016 CALIFORNIA ENERGY CODE (CEC), PART6, 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITL (2015 INTERNATIONAL FIRE CODE AND 2016 (, TITLE 24 C.C.R. LE 24 C.C.R.
2016 CALIFORNIA EXISTING BUILDING CODE (CE (2015 INTERNATIONAL EXISTING BUILDING CODI	EBC), PART 10, TITLE 24 CCR
2016 CALIFORNIA GREEN BUILDING STANDARDS TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MA 2013 ASME A17.1 SAFETY CODE FOR ELEVATOR B. PARTIAL LIST OF APPLICABLE STANDARDS	ARSHALL REGULATIONS.
 NFPA 13 STANDARD FOR INSTALL OF SPRINKLER SYS NFPA 14 STANDARD FOR INSTALL OF STANDPIPE & NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUIS NFPA 17A STANDARD FOR WET CHEMICAL SYSTEMS NFPA 20 INSTALL OF STATIONARY PUMPS FOR FIRE NFPA 22 STANDARD FOR WATER TANKS FOR PRIVAT NFPA 24 STANDARD FOR THE INSTALL OF PRIVATE I AND THEIR APPURTENANCES 	HOSE SYSTEMS2013 EDSHING SYSTEMS2013 ED2013 ED2013 EDE PROTECTION2016 EDTE FIRE PROTECTION2013 ED
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CO NFPA 80 STANDARD FOR FIRE DOORS & OTHER OPE NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTIN UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTI	DDE (CA AMENDED) 2016 ED ENING PROTECTIVES 2016 ED IGUISHING SYSTEMS 2015 ED
FOR PROTECTION OF COMMERCIAL COOKI UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALA SYSTEMS, INCLUDING ACCESSORIES UL 521 STANDARD FOR HEAT DETECTORS FOR FIR	ING EQUIPMENT 2005 (R2 ARM AND SIGNALING 2003 ED
SIGNALING SYSTEMS UL 1971 STANDARD FOR SIGNALING DEVICES FOR T	1999 ED HE HEARING IMPARED 2002 ED
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND AND GRANDSTANDS FOR A COMPLETE LIST OF APPLICABLE NFPA STAN CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER	2012 ED IDARDS REFER TO 2016 CBC (SF
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FO TO THE NFPA STANDARDS.	R STATE OF CALIFORNIA AMENI
*ALL PARTS OF THE 2016 CALIFORNIA BUILDING CO EXCEPT THE EFFECTIVE DATE FOR THE USE OF TH STANDARDS (TITLE 24, PART 1 CHPATER 10) IS FEB DATE FOR THE USE OF THE CALIFORNIA ADMINISTE CHAPTER 4) IS JANUARY 20, 2016.	IE 2016 BUILDING ENERGY EFFIC BRUARY 25, 2016 AND THE EFFEC
3.0 UPON RECEIPT OF THE CERTIFICATE OF COMP THE OWNER WITH A WRITTEN OPERATING, TEST POINT-TO-POINT AS BUILD DRAWINGS AND EQU	TING AND MAINTENANCE INSTRU
4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING INSPECTION AND TESTING FORM IN ITS ENTIRET ARCHITECT AND DSA DIVISION OF FIRE AND LIFE	TY SUBMIT A COPY TO THE DIST
5.0 OCCUPANCY PROHIBITED TO ANY PORTION OF HAS BEEN TESTED AND APPROVED. CBC 901.5; (RECORD DRAWINGS OF ALL INSPECTION, TES MINIMUM THREE YEARS. CFC 901.6.2 (5 YEARS P SMOKE DETECTORS TO UTILIZE CALIBRATED I INSTRUMENT. CFC 907.9.4	CFC 901.5.1 ST SHALL BE MAINTAINED ON PF PER TITLE 14)
FIRE ALARM GEN	VERAL NOTE

FIRE ALARM SYSTEM NOTES

ETER, MA OPERATIONAL DURING TESTING AND REMAINS SO ONCE THE SYSTEM IS APPROVED. UPON APPROVAL OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE SET OF OPERATING INSTRUCTIONS FOR THE SYSTEM 3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TEST.

4. AN APPROVED, STAMPED SET OF THE FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATIONS FROM THE APPROVED PLANS, INCLUDING SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE INSPECTOR OF RECORD. 5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE

BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. 6. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

7. A "RECORD OF COMPLETION" SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

8. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE CLEARLY MARKED THAT THE ENCLOSURE IS PART OF THE FIRE ALARM SYSTEM. 9. THE CONTRACTOR SHALL LOCATE ALL SMOKE DETECTION DEVICES A MINIMUM OF 36" FROM ANY MECHANICAL REGISTERS.

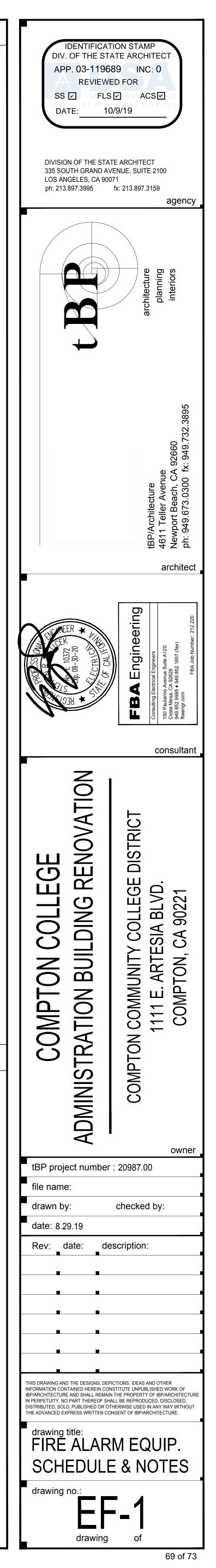
10. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. WIRE LENGTHS USED TO CALCULATE VOLTAGE DROPS REPRESENT ESTIMATES BASED ON MEASUREMENTS OF SCALED FLOOR PLAN DRAWINGS. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.

11. CONTRACTOR SHALL VERIFY LOCATION OF POST INDICATOR VALVES (PIV's) AND/OR OUTSIDE STEM & YOKE (OS&Y) VALVES INSTALLED ON FIRE SPRINKLER SERVICE. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER SWITCH(ES) AT EACH OF THESE VALVES AND INTERCONNECT TAMPER SWITCH(ES) TO THE FIRE ALARM CONTROL PANEL (FACP).

12. ALL WIRING TO BE IN CONDUIT. ALL CONDUIT IS TO BE A 3/4" MINIMUM. IF FLEX CONDUIT IS USED TO TRANSITION DOWN TO CEILING DEVICE THE FLEX CAN BE NO LONGER THAN 5 FEET. 13. CONTRACTOR SHALL EXTEND AND MAKE ALL FINAL CONNECTIONS TO EXISTING FIRE ALARM AND CENTRAL MONITORING FOR A COMPLETE AND FULLY CAMPUS WIDE FIRE ALARM NETWORK SYSTEM.

14. VISIT THE SITE PRIOR TO BID AND INVESTIGATE THE EXISTING FIRE ALARM SYSTEM EQUIPMENT. COORDINATE WITH THE EXISTING SYSTEMS MANUFACTURERS FOR ALL REQUIRED EQUIPMENT MODIFICATIONS, CONDUITS, WIRING AND UPGRADING REQUIRED TO EXTEND/NETWORK THE EXISTING SYSTEM TO THE NEW BUILDINGS. INCLUDE ALL COSTS IN BID. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.

15. FIRE ALARM SYSTEM SPLICES ARE NOT PERMITTED IN UNDERGROUND PULLBOXES.



FIRE ALARM VOLTAGE DROP CALCULATIONS

LOCATION	CIRCUIT #	SERVICE TO	DISTANCE (FEET)	CONDUCTOR SIZE (AWG)	LOAD BREAKDOWN	LOAD CIRCUIT TOTAL (AMPS)	VOLTS DROPPED (PERCENT)
1ST FLOOR	V1A	VISUAL DEVICES	250	12	5 @ 0.066 3 @ 0.158 5 @ 0.094 1 @ 0.202	1.476	5.086%
1ST FLOOR	S1A	SPEAKER DEVICES	250	18	0 @ 0.010 5 @ 0.040 6 @ 0.020 0 @ 0.080	0.320	1.524%
1ST FLOOR	V1B	VISUAL DEVICES	300	12	3 @ 0.066 4 @ 0.158 0 @ 0.094 2 @ 0.202	1.234	5.102%
1ST FLOOR	S1B	SPEAKER DEVICES	300	18	0 @ 0.010 7 @ 0.040 2 @ 0.020 0 @ 0.080	0.360	1.1828%
1ST FLOOR	V1C	VISUAL DEVICES	350	12	4 @ 0.066 4 @ 0.158 0 @ 0.094 2 @ 0.202	1.300	6.271%
1ST FLOOR	S1C	SPEAKER DEVICES	350	18	5@0.0107@0.040 1@0.0200@0.080	0.330	2.200%
1ST FLOOR	V1D	VISUAL DEVICES	350	12	0 @ 0.066 1 @ 0.158 2 @ 0.094 0 @ 0.202	0.158	0.762%
1ST FLOOR	S1D	SPEAKER DEVICES	350	18	0@0.010 2@0.040 0@0.020 0@0.080	0.080	0.583%
2ND FLOOR	V2A	VISUAL DEVICES	250	12	10 @ 0.066 6 @ 0.158 2 @ 0.094 0 @ 0.202	1.796	6.188%
2ND FLOOR	S2A	SPEAKER DEVICES	250	18	0 @ 0.010 0 @ 0.040 5 @ 0.020 0 @ 0.080	0.100	0.476%
2ND FLOOR	V2B	VISUAL DEVICES	300	12	2 @ 0.066 1 @ 0.158 1 @ 0.094 1 @ 0.202	1.396	5.772%
2ND FLOOR	S2B	SPEAKER DEVICES	300	18	0@0.010 1@0.040 9@0.020 0@0.080	0.220	1.257%
2ND FLOOR	V2C	VISUAL DEVICES	350	12	5 @ 0.066 6 @ 0.158 2 @ 0.094 0 @ 0.202	1.466	7.072%
2ND FLOOR	S2C	SPEAKER DEVICES	350	18	2 @ 0.010 1 @ 0.040 11 @ 0.020 0 @ 0.080	0.280	1.866%

NOTE: WORST CASE

Formula:	AMPS X DISTANCE X 21.6 CIRC. MILS	Х	<u>100</u> VOLTS	=	% DROPPED
CIRCUIT V2C:	<u>1.466 X 350' X 21.6</u> 6530	Х	<u>100</u> 24	=	7.072%
CIRCUIT S1C:	<u>0.330 X 350' X 21.6</u> 1620	Х	<u>100</u> 70	=	2.200%

DIGITAL AUDIO AMPLIFIER "AMP1"

DEV	/ICE	
(1)	CONTROLS	
(0) (13) (2) (0)	0.25W SPEAKER 0.50W SPEAKER 1W SPEAKER 2W SPEAKER	
	TOTAL	

TOTAL STANDBY CURRENT X TOTAL NEW ALARM CURRENT X TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 24.400 A-HR

NOTES: 60.0 HOURS STANDBY AND 10 MINUTES ALARM.

2. PROVIDE A MINIMUM OF 40 A-HR OF TOTAL BATTERY STANDBY POWER FOR FIRE ALARM CONTROL PANEL.

DIGITAL AUDIO AMPLIFIER "AMP2"

DEV	DEVICE						
(1)	(1) CONTROLS						
(2) (25) (6) (0)	0.50 1W	W SPEAKER W SPEAKER SPEAKER SPEAKER					

TOTAL TOTAL STANDBY CURRENT X 60 TOTAL NEW ALARM CURRENT X

TOTAL MINIMUM AMPERE - HOUF

NOTES: 1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 10 MINUTES ALARM. 2. PROVIDE A MINIMUM OF 40 A-HR OF TOTAL BATTERY STANDBY

POWER FOR FIRE ALARM CONTROL PANEL.

FIRE ALARM BATTERY CALCULATIONS

STAND-BY CURRENT	ALARM CURRENT
0.400	0.500
	0.000 0.260 0.840 0.000
0.400	1.600
60 HOURS = 0.400 A x 60 HOURS T X 10 MINUTES = 1.600 A x 0.25 HR	= 24.000 A-HR = 0.400 A-HR

1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF

	STAND-BY CURRENT	ALARM CURRENT
	0.400	0.500
:R :R ? ?		0.020 0.500 0.240 0.000
	0.400	1.260
	= 0.400 A x 60 HOURS S = 1.260 A x 0.25 HR	
HOUR RATING OF	BATTERIES	= 24.315 A-HR

FIRE ALARM CONTROL PANEL "FACP"

DEV	/ICE	STAND-BY CURRENT	ALARM CURRENT
(1)	CONTROLS	0.340	0.340
(1) (1)	REMOTE ANNUCIATOR REMOTE MICROPHONE	0.100 0.040	0.225 0.160
(175) (97) (2)	SMOKE DETECTOR HEAT DETECTOR PULLSTATION	0.053 0.020 0.001	1.050 0.582 0.001
(13) (0) (16)	MONITOR MODULE CONTROL MODULE RELAY MODULE	0.004 0.000 0.005	0.004 0.000 0.005
	TOTAL	0.563	2.367
	STANDBY CURRENT X 60 HOURS NEW ALARM CURRENT X 10 MINUTES		= 33.78 A-HR = 0.592 A-HR

= 34.372 A-HR

TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES

<u>NOTES:</u> 1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 10 MINUTES ALARM.

2. PROVIDE A MINIMUM OF 60 A-HR OF TOTAL BATTERY STANDBY POWER FOR FIRE ALARM CONTROL PANEL.

FIRE ALARM POWER SUPPLY "PS1"

DEVICE	STAND-BY CURRENT	ALARM CURRENT
(1) CONTROLS	0.091	0.145
 (12) 15cd STROBE (5) 30cd STROBE (11) 75cd STROBE (5) 110cd STROBE 		0.792 0.470 1.738 1.010
TOTAL	0.091	4.155
TOTAL STANDBY CURRENT X 60 HOURS= 0.091 A x 60 HOURS= 5.460 A-HRTOTAL NEW ALARM CURRENT X 10 MINUTES= 4.155 A x 0.25 HR= 1.039 A-HR		
TOTAL MINIMUM AMPERE - HOUR RATING (= 6.499 A-HR	

NOTES:

1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 10 MINUTES ALARM.

2. PROVIDE A MINIMUM OF 10 A-HR OF TOTAL BATTERY STANDBY POWER FOR FIRE ALARM CONTROL PANEL.

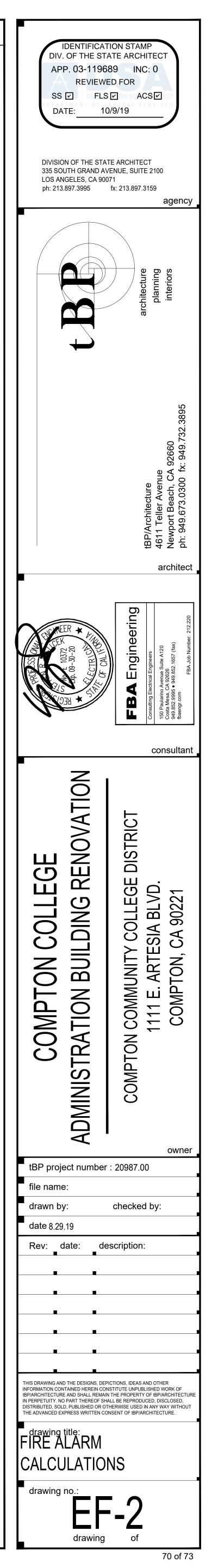
FIRE ALARM POWER SUPPLY "PS2"

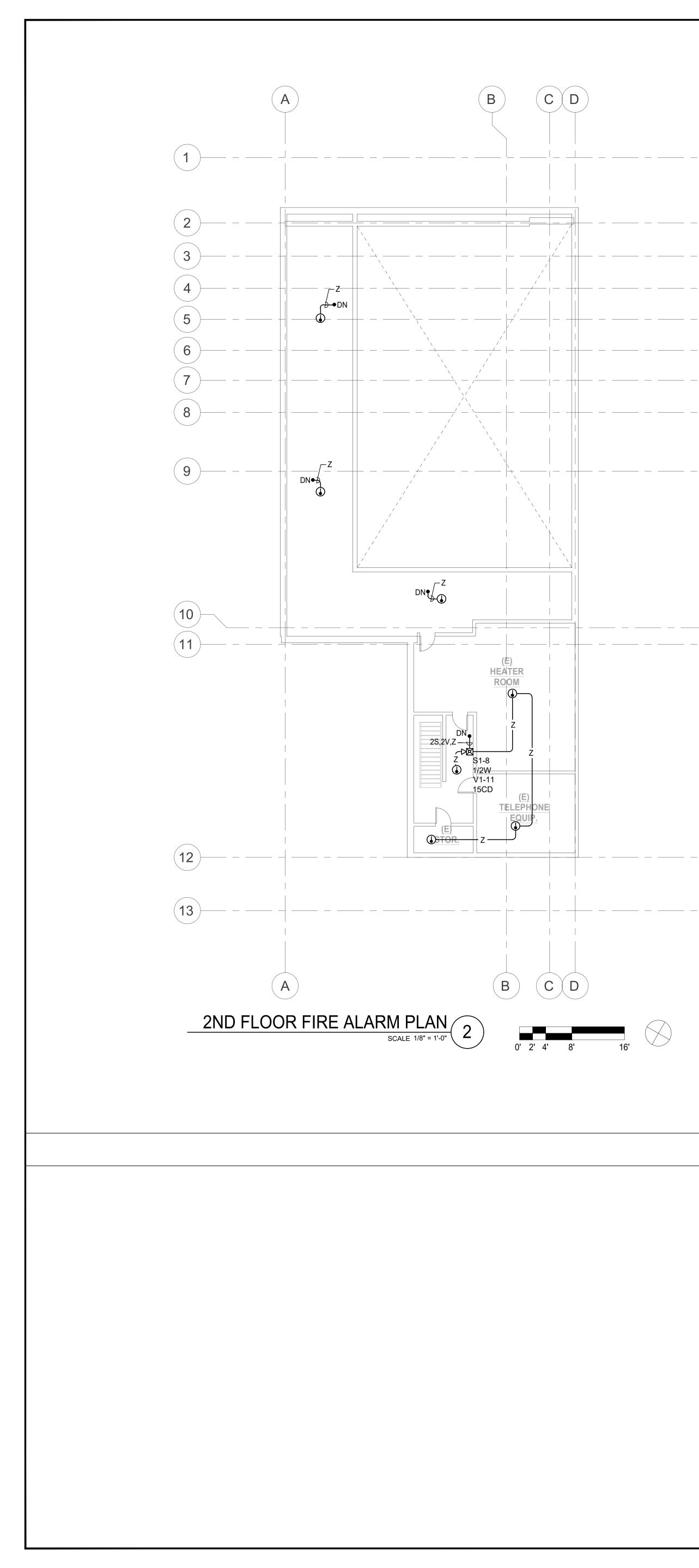
DE∖	/ICE	STAND-BY CURRENT	ALARM CURRENT
(1)	CONTROLS	0.091	0.145
(17) (5) (20) (1)	15cd STROBE 30cd STROBE 75cd STROBE 110cd STROBE		1.122 0.470 3.160 0.202
	TOTAL	0.091	5.099

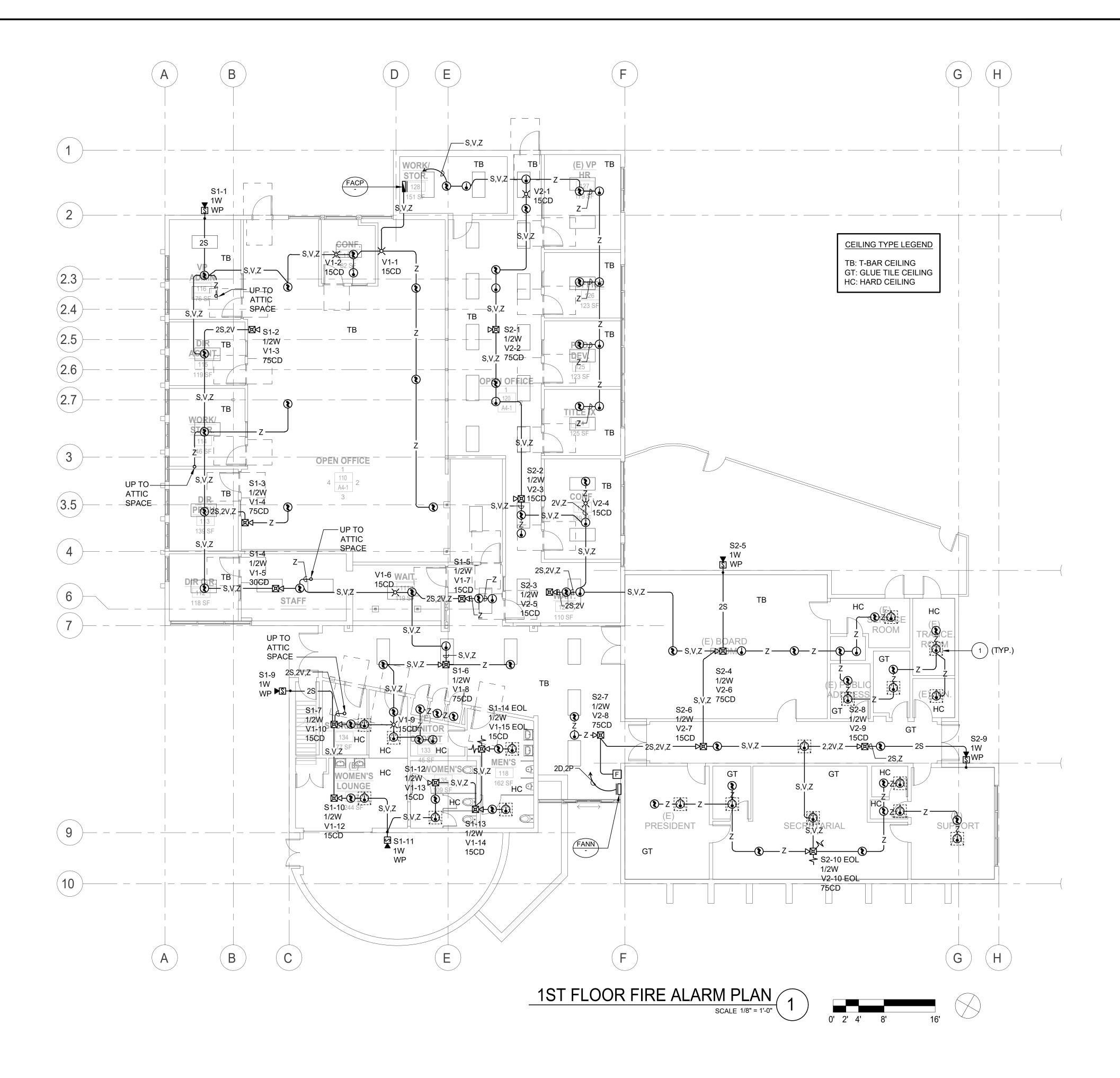
TOTAL STANDBY CURRENT X 60 HOURS = 0.091 A x 60 HOURS = 5.460 A-HR TOTAL NEW ALARM CURRENT X 10 MINUTES = 5.099 A x 0.25 HR = 1.275 A-HR TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 6.735 A-HR

NOTES: 1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 10 MINUTES ALARM.

2. PROVIDE A MINIMUM OF 10 A-HR OF TOTAL BATTERY STANDBY POWER FOR FIRE ALARM CONTROL PANEL.



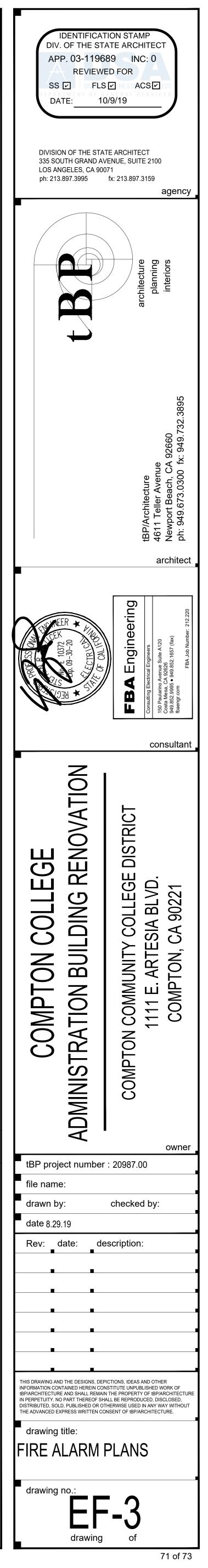


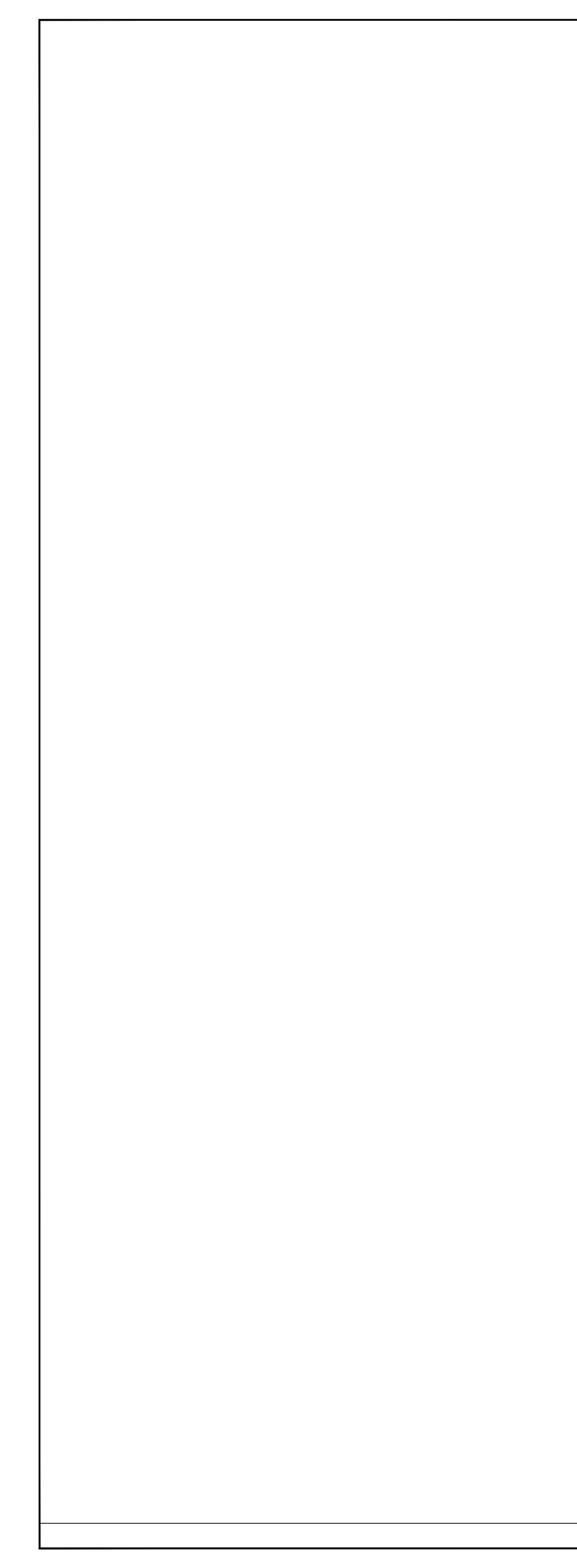


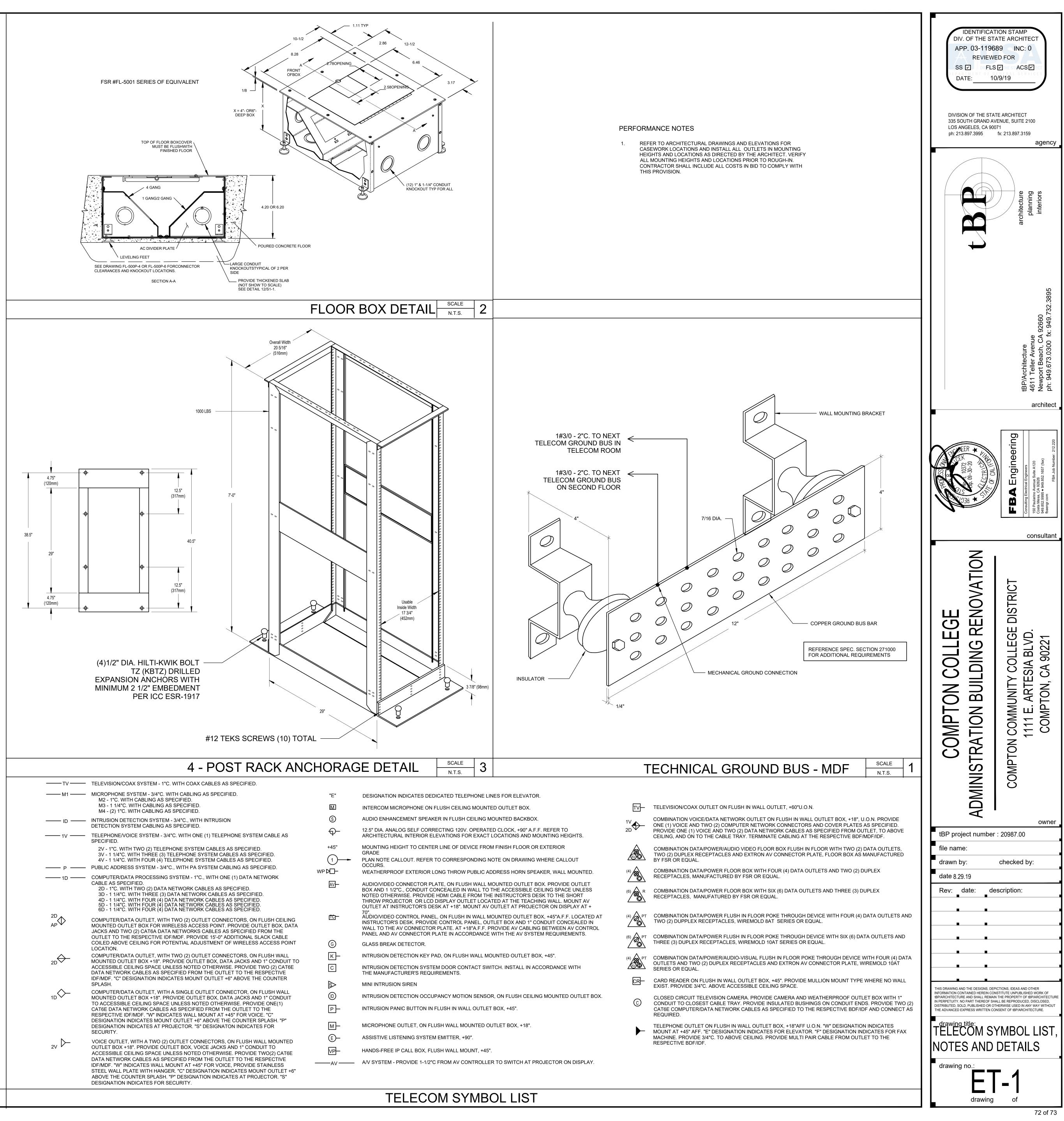
KEY NOTES

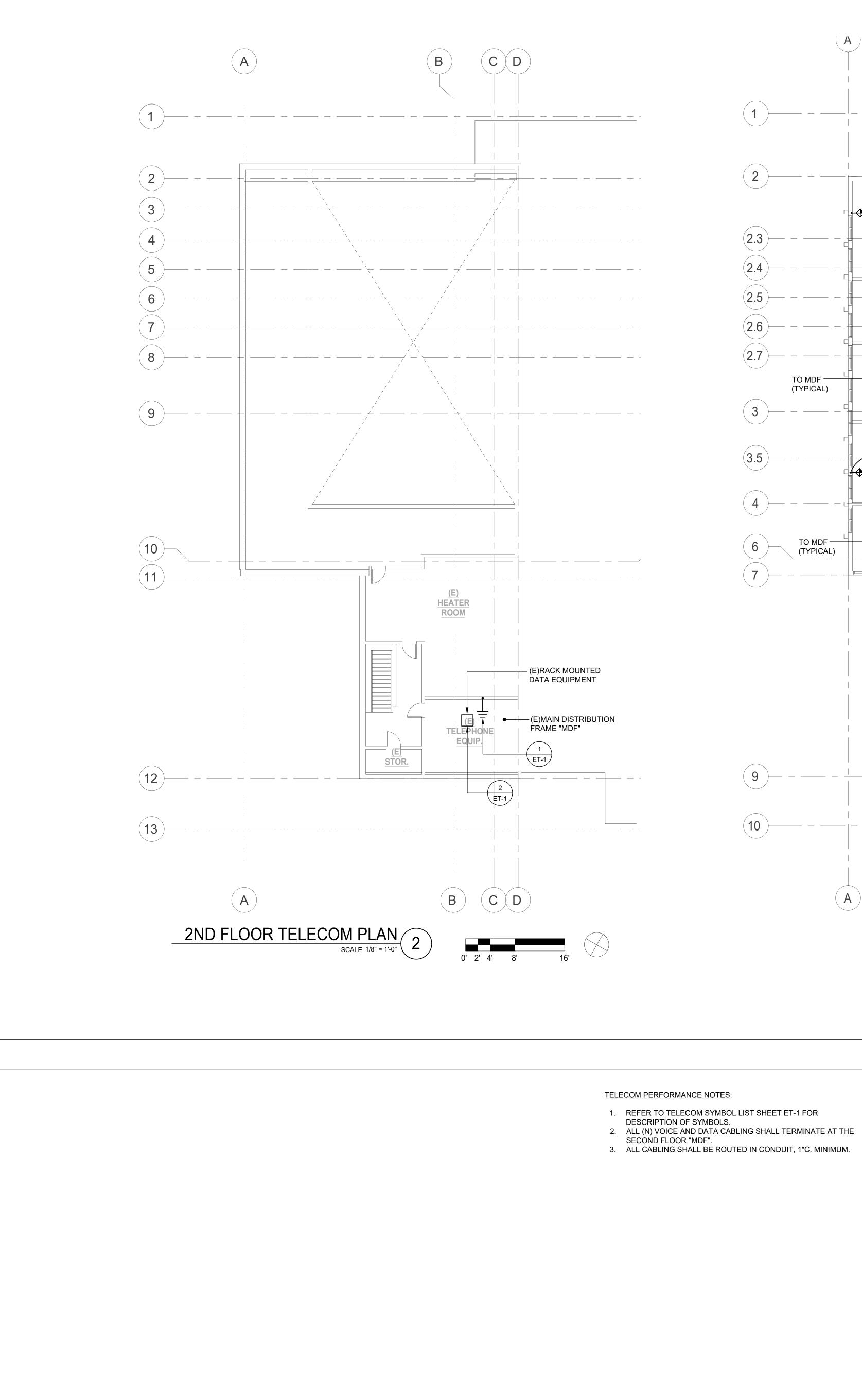
1 PROVIDE ACCESS PANEL FOR ACCESS TO ATTIC HEAT DETECTORS PER DETAIL "6/E0.3".

FIRE ALARM RACEWAY SCH.		
SYMBOL	CONDUCTORS	SIZE
D P S V Z	2#16 TP SHEILDED FPLP (ANNUNCIATOR DATA COMM) 2#18 FPLP (24VDC ANNUNCIATOR POWER) 2#14 TSP FPLP (SPEAKER CIRCUIT) 2#12 FPLP (VISUAL CIRCUIT) 2#16 FPLP TP (SLC LOOP)	3/4"C. 3/4"C. 3/4"C. 3/4"C. 3/4"C.
S,V,Z	2#16 FPLP TP (SLC LOOP), 2#12 FPLP (VISUAL CIRCUIT, & 2#14 TSP FPLP (SPEAKER CIRCUIT)	3/4"C
2S,2V,Z	4#16 FPLP TP (SLC LOOP), 4#12 FPLP (VISUAL CIRCUIT, & 4#14 TSP FPLP (SPEAKER CIRCUIT)	1"C
2S,2V	4#12 FPLP (VISUAL CIRCUIT,& 4#14 TSP FPLP (SPEAKER CIRCUIT)	3/4"C
2S	4#14 TSP FPLP (SPEAKER CIRCUIT)	3/4"C
2V	4#12 FPLP (VISUAL CIRCUIT)	3/4"C
	NOTE "ALL UNDERGROUND CABLING SHALL BE RATED FOR WET LOCATION." (TYPE THWN OR AQUASEAL)	









1 \searrow 151 SF 2 + ↑ 1V 2D 1V VP 82 SF 2.3 - + +└╬═╴╼╁╤┰┢═╍╓═┘ 116 — — 2.4 176 SF ___ 2.5 2D 争 TO MDF -----+90" 1ØIR (TYPICAL) ACCNT. 2.6 115 119 SF \searrow 1 (2.7) ▲ 5D ZD[€]C + \searrow Nork/ STOR. 10D 5V ET-1 3 -2D AP **OPEN OFFICE** +90" 3.5 🔶 2D 🗌 4 \searrow DIR C<u>.R</u>. 6 TO MDF — (TYPICAL) STAF 118 SF 2D ••• (7) — - -----STORAGE JANITO 134 77 SF CLOSET 133 45 SF WOMEN'SO• WOMEN'S LOUNGE 244 SF 9 10 **C** B Α

В

Α

D

KEY NOTES

 \checkmark

