





J:\161616888 City of Turlock - Corporation Year4G-Construction Documents\Sheet\011088-021616.Dwg 7/23/2019 4:29:32 PM New Job Started

<div>DIVISION 0 CONTRACT REQUIREMENTS SECTION 007000 GENERAL CONDITIONS</div> <div>A. THE CONTRACTOR SHALL: 1. Provide all labor, materials, equipment transportation, storage, and service necessary to properly complete the Work. 2. Prior to beginning construction: a. Review the Drawings and Specifications, inspect the site and verify all dimensions and existing conditions. b. File a statement with the Owner identifying any conflicts with the Drawings and Specifications, any omissions or errors in the Drawings and Specifications and any discrepancies between the design and job site conditions. If the Contractor finds no such conflicts, errors, omissions, or discrepancies, provide a Contractor's statement confirming this. The Owner reserves the right to require the Contractor to remove Work completed prior to submitting above statement. 3. Provide certificates of insurance prior to commencement of any work to evidence Workmen's Compensation and employee liability coverage, and comprehensive general liability insurance. 4. The Contractor acknowledges that: a. Construction Documents are schematic, two dimensional representations of the proposed Work utilizing scaled drawings and details. Construction of the proposed Work in three dimensions at full size can be expected to reveal job site conditions and problems which could not be reasonably delineated. 5. Contractor shall not scale drawings. Where dimensions are required and not indicated on the drawings, Contractor shall request same from Architect. B. WARRANTY 1. The Contractor shall warrant the Work, including those portions performed under subcontract, for a period of one year from the date of final written acceptance by the Owner. 2. No other warranties are expressed or implied.</div>	<div>SECTION 012613 REQUEST FOR INFORMATION</div> <div>1. Summary: Section includes administrative and procedural guidelines for preparation, submittal and response to Contractor's Request for Information (RFI's) during construction of project. 2. Submittals: Submit RFI's as electronic submittals via email. Attachments shall be electronic files in Adobe Acrobat PDF format. Submittals shall be submitted to Architect from Contractor, RFI's submitted to Architect by other entities controlled by contractor will not be acknowledged. RFI's shall be submitted on for provided or approved by Architect. 3. Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI. Coordinate and submit RFI's in a prompt manner to avoid delays in Contractor's work or work of subcontractors. 4. RFI Content: Include a detailed, legible description of item needing information or interpretation including specific reference to the Contract Documents. RFI's shall include Contractor's suggested resolution; if Contractor's resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI. 5. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow 10 working days for Architect's response for each RFI. 5.1. Architect will review and respond to legitimate RFI's at no additional cost to the Contractor. RFI's determined by the Architect to be flagrant or unnecessary will have the expense for the Architect's time paid by the Owner with the amount being deducted from the Contract Sum. The expense will be based on an hourly rate in accordance with the Architect's standard hourly rate schedule in effect at the time the work is performed with a minimum of one hour for each flagrant or unnecessary RFI.</div> <div>SECTION 013300 SUBMITTAL PROCEDURES</div> <div>1. Summary: Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals. 2. Submittals: A. Submit Product Data, Shop Drawings, Samples, and other information as required by individual Division 01 through 33 Sections. Include manufacturer's product data, environmental data, details, connections/transitions to adjacent work. B. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or modifications to submittals noted by the Architect and additional time for handling and reviewing submittals required by those corrections. C. Submit submittals in electronic pdf format unless otherwise indicated by Architect. All items where color selection is required will be done with samples and NOT in pdf format. 3. Request selection of items involving selection of colors, textures, or patterns in sufficient time to avoid delaying the progress of the Work. 4. Review of submittals is for the benefit of the contractor and does not relieve the contractor of the responsibility to perform the Work in accordance with the contract documents. 5. Coordinate the preparation and processing of submittals with the construction schedule and the performance of the work.</div> <div>SECTION 013113 COORDINATION</div> <div>1. Summary: Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, general project coordination procedures, administrative and supervisory personnel, and coordination drawings. 2. Submittals: Coordination Drawings, submit as follows: A. Initial Submittal: Submit 3 printed copies of each coordination drawing for each condition where Coordination Drawings are required. B. Project Closeout: Submit 3 printed "Record" copies of each coordination drawing for each condition where Coordination Drawings are required. Submit "Record" electronic coordination drawing files. 3. Coordination Procedures: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation. A. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation. B. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair. C. Make adequate provisions to accommodate items scheduled for later installation. D. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings. E. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required. F. Verify actual conditions and dimensions of the Project with conditions and dimensions indicated on the Drawings. Promptly notify the Architect in writing of any discrepancies. Recheck dimensions and conditions prior to each installation. G. Coordination Project dimensions and conditions with product manufacturers installation requirements. Promptly notify the Architect in writing of any discrepancies. 4. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to preparation of Contractor's construction schedule, preparation of the schedule of values, installation and removal of temporary facilities and controls, delivery and processing of submittals, progress meetings, preinstallation conferences, startup and adjustment of systems, and project closeout activities. 5. Coordination Drawings: Coordination Drawings shall include the work of multiple trades on the same drawing. Prepare Coordination Drawings in addition to Shop Drawings required in individual Sections. Prepare coordination drawings electronically using same digital data software program, version, and operating system as the Architect's original Drawings (DWG files). Prepare Coordination Drawings for the following: A. Work above finished ceilings where limited space requires close tolerances between building elements and services such as ductwork, conduit, and piping. B. Equipment Rooms: Show work above and below grade including mechanical, plumbing, fire protection, fire alarm, and electrical equipment, and related supports, accessories, and utility connections. 6. Examination of Conditions: Require the installer of each major component to examine both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.</div>	<div>SECTION 014000 QUALITY ASSURANCE</div> <div>1. Summary: Section includes administrative and procedural requirements for Quality Assurance and Quality Control. 2. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements. 3. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. 4. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. 5. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance. 6. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order. 7. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not. 8. Contractor shall provide a full time qualified construction superintendent on site during the course of the work.</div> <div>SECTION 016500 PRODUCT REQUIREMENTS</div> <div>1. Summary: Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling, and product installation. 2. Submittals: Comply with submittal requirements in Division 03 through 33 Sections as applicable to materials to be incorporated into the Work. 3. Products and Materials: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation. A. The use of or installation of any material, product, or equipment which is made from or contains asbestos for use or incorporation of the Work of this Project is prohibited. Any party installing or using such materials or equipment shall be solely responsible for injuries, damages, or liabilities of any kind caused by the use of such materials or equipment. B. Composite wood and agri-fiber products, and laminating adhesives, incorporated in the Work shall be free of urea-formaldehyde containing compounds. 4. Delivery and Handling: Deliver and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected. 5. Storage: Store products and materials in accordance with manufacturer's written instructions and recognized industry standards for temperature, humidity, ventilation, and weather-protection requirements. Store products to allow for inspection and measurement of quantity or counting of units. Store materials in a manner that will not endanger Project structure. Store products that are subject to damage by the elements, under cover in a weather tight enclosure above ground, with ventilation adequate to prevent condensation. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment. 6. Installation: Install products in accordance with Drawings, Specifications, and product manufacturer's written installation instructions. Installation shall include examination of conditions and preparations necessary for proper installation.</div> <div>SECTION 017305 CUTTING AND PATCHING</div> <div>1. Summary: Cutting and patching of in-place construction. 2. Submittals: Comply with submittal requirements in Division 03 through 33 Sections as applicable to materials to be incorporated into the Work. 3. Cutting of Structural Elements: Do not cut structural elements with out approval from Architect unless otherwise indicated on Drawings. Review precautionary methods and cutting procedures of structural elements with Architect. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection. 4. Patching and Repair Materials: Comply with material requirements in Division 03 through 33 Sections as applicable to materials to be incorporated into the Work. 5. Cutting, Patching and Repairing: Employ skilled workers to perform cutting, patching, and/or repairing. Comply with installation and/or application requirements in Division 03 through 33 Sections as applicable to materials to be incorporated into the Work. 6. Restore exposed finishes of patched and repaired areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing; cut and patch exposed surfaces in a manner that results of no visual evidence of cutting and patching as viewed from a distance of five (5) feet. 7. Maintain integrity of fire resistance rated construction and/or assemblies.</div>	<div>SECTION 024119 SELECTIVE DEMOLITION (CONTINUED)</div> <div>4. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities. 5. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain. 6. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas. 7. Protect walls, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations. 8. Remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations.</div> <div>SECTION 055000 METAL FABRICATION</div> <div>1. Summary: Section includes steel framing and supports for applications where framing and supports are not specified in other Sections. 2. Submittals: A. Product data for each type of product indicated or incorporated into the Work. B. Shop Drawings: For metal fabrications; include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. 3. Welder Qualifications: Quality procedures and personnel according to AWS D11, "Structural Welding Code--Steel" and/or AWS D13, "Structural Welding Code--Sheet Steel." 4. Steel Products: A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M. B. Steel Tubing: ASTM A 500, cold-formed steel tubing. C. Steel Pipe: ASTM A 53/A 53M, standard weight (Schedule 40); provide galvanized finish for exterior applications. D. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4. 5. Fabrication: Provide steel framing and supports not specified in other Sections as needed to complete the Work. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction retained by framing and supports. Cut, drill, and tap units to receive hardware, hangers, and similar items. 6. Finishing: A. Galvanizing: Where metal fabrications are indicated to be galvanized, hot-dip galvanize items to comply with ASTM A 123/A 123M, for galvanizing steel and iron products and ASTM A 153/A 153M, for galvanizing steel and iron hardware. B. Shop Priming: Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes and those to be embedded in concrete or masonry, unless otherwise indicated. Comply with SSPC-PA1, "Paint Application Specification No.1: Shop, Field, and Maintenance Painting of Steel" for shop painting. 7. Install products as indicated on Drawings.</div> <div>SECTION 079200 JOINT SEALANTS</div> <div>1. Summary: Section includes joint sealants and accessory materials. 2. Submittals: Product data for each type of product indicated or incorporated into the Work, include VOC content of sealants. 3. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience. 4. VOC Content of Sealants: VOC content of sealants shall comply with requirements of authorities having jurisdiction. Sealants and sealant primers used inside the weatherproofing system shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24): A. Architectural Sealants: 250 g/L. B. Sealant Primers for Nonporous Substrates: 250 g/L. C. Sealant Primers for Porous Substrates: 715 g/L. 5. Liquid-Applied Joint Sealants: Comply with ASTM C 420 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 420 classifications for type, grade, class, and uses related to exposure and joint substrates. 6. Urethane Joint Sealant I: Single-Component, Non-sag, Urethane Joint Sealant: ASTM C 420, Type 5, Grade NS, Class 25, for Use NT. A. Products, One of the following: BASF Building Systems, Sonalastic NPI; Pecora Corporation, Dynatrol®-XL; Sika Corporation, Construction Products Division, Sikaflex - 1a. B. Application: Exterior joints of hollow metal frames, exterior joints in concrete and masonry walls, and interior and exterior joints requiring painting. 7. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type GP, Grade NF. A. Products, One of the following: BASF Building Systems, Sonalac; Pecora Corporation, AC-208; Tremco Incorporated, Tremflex 834. B. Application: Interior non-moving joints between gypsum board and adjacent materials, trim, or similar surfaces. 8. Joint Sealant Backing: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing. 9. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) or Type B (cellular material with a surface skin), as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance. 10. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable. 11. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests. 12. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates. 13. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints. 14. Preparation: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions. Prime joint substrates where recommended by joint-sealant manufacturer. 15. Installation: Comply with joint-sealant manufacturer's written installation instructions and with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.</div>	<div>SECTION 081113 HOLLOW METAL FRAMES</div> <div>1. Summary: Section includes hollow metal doors and frames. 2. Related Sections: Division 08 Sections as applicable to glazing. 3. Submittals: A. Product data for each type of product indicated or incorporated into the Work. B. Shop Drawings: Submit drawings for fabrication and installation of interior frames, including schedule of openings. 4. Hollow Metal Frames: Comply with ANSI A250.8 and with details indicated for type and profile. Frames shall be sized to provide full throat width equal to depth of wall including finishes plus 1/2 inch backband on each side per SDI-100. Fabricate frames with mitered or coped full profile welded corners. A. Interior Frames: Cold-rolled steel sheet, minimum thickness of 0.053 inch (16 gauge). 5. Tolerances: Fabricate hollow metal work to tolerances indicated in SDI 117. 6. Finish: Clean, pretreat, and apply manufacturer's standard primer. 7. Install frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions. Install hollow-metal frames to comply with SDI A250.11.</div>

SPECIFICATIONS

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MARK	DATE	DESCRIPTION	PLAN CHECK SUBMITTAL
A	7/24/19		



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ARCHITECTS ENGINEERS CONNECTED

TETER

WALL ADDITION FOR CNG MAINTENANCE BUILDING

TURLOCK, CA

DRAWING TITLE

SHEET SPECIFICATIONS

PROJECT NO.

18-10898.00

DRAWING

G010



PLOT DATE: 7/23/18

SPECIFICATIONS

SECTION 088000 GLAZING

1. Summary: Section includes monolithic glass units for interior and exterior doors and windows.
2. Submittals: Product data for each type of product indicated or incorporated into the Work. Include statement of VOC content for adhesives and sealants.
3. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II; permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction; label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
4. Glass Products:

A. Minimum Glass Thickness: 6 mm.

B. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-G3.

C. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type 1, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-G3.
5. Insulating Glass Units:

A. Provide safety glazing labeling where tempered glass is specified.
6. Accessory Materials: As recommended by window framing manufacturer and glass installer.
7. VOC Content of Sealants: Field applied sealants shall have a VOC content of not more than 250 g/L.
8. Installation: Install glazing in accordance with manufacturer's written installation instructions and recognized industry standards.

SECTION 092216 NON-STRUCTURAL METAL FRAMING

1. Summary: Section includes Non-load-bearing steel framing systems for gypsum board assemblies.
2. Submittals:

A. Product data for each type of product indicated or incorporated into the Work.

B. Evaluation Reports: For metal framing system from ICC-ES.
3. Non-Structural Metal Framing Members: Framing complying with ASTM C 754 and Steel Stud Manufacturers Association, Product Technical Information, ICC-ES ESR 3064P, for conditions indicated.
- A. Manufacturers: One of the following: California Expanded Metal Products Company (CEMCO); Clark-Dietrich Building Systems; MannokWare; a division of Ware Industries.
- B. Material: Steel sheet components complying with ASTM C 645 requirements for metal, unless otherwise indicated. Protective coating complying with ASTM A 653/A 653M, G40, hot-dip galvanized, unless otherwise indicated.
4. Install framing components in sizes and spacings indicated on Drawings, but not less than those required by referenced installation standards for assembly types and other assembly components indicated. Comply with the following installation standards: ASTM C 754, ASTM C 840 as applicable to metal framing systems for gypsum board, and SPSMA, ICC ER-4943P.

WALL ADDITION FOR  
CNG MAINTENANCE BUILDING

TURLOCK, CA

DRAWING TITLE

SHEET SPECIFICATIONS

PROJECT NO.

18-10898.00

DRAWING

G011



**TETER, LLP**  
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MARK	DATE	DESCRIPTION			
A	7/24/19	PLAN CHECK SUBMITTAL			



SCOPE

In general, the Electrical Work described herein consists of the modification of existing electrical, lighting and signal systems in place and the installation of new electrical, lighting and signal systems equipment. All work shall be completed as specified by the Owner's authorized representative in accordance with the Contract, Specifications and Construction Documents listed below.

- General Conditions of Contract
- Specifications
- Electrical Construction Drawings

This Section includes all necessary and required work to complete the construction as indicated in the Drawings, called for by notes or schedules, or specified herein. This work includes the furnishing of all permits, labor, supervision, services, materials, tools, equipment, testing, transportation and miscellaneous expenses, and the performance of all operations necessary to or incidental to completion of lawful and operationally necessary power, lighting and signal systems, whether or not specifically mentioned.

C. All work not shown in complete detail shall be installed per the GEC and in conformance with the best standard practice for the trade. Any deviation from the approved Drawings shall be submitted in writing to the Engineer and Owner for approval prior to the installation of the work in question.

D. This work shall include, but not necessarily be limited to, the following elements:

- Demolition and Phasing:
  - De-energize, disconnect and remove electrical feeds to devices and equipment being removed or relocated.
  - Disconnect and remove existing electrical facilities in areas of remodel and demolition that are not to be reused.
  - Protect existing electrical distribution equipment, conduit and wiring that is not shown to be removed.
  - Make temporary feeds and connections to areas and equipment to allow phased construction and continuing operation.
- Electrical Distribution:
  - Existing electrical distribution system including switchboards, transformers, panelboards, and feeders shall remain and shall be re-used to supply new and existing branch circuits at the buildings.
  - Circuit breakers in existing panelboards shall be reconfigured and replaced as specifically indicated on the drawings. New circuit breakers that are provided in existing panelboards shall match the make, model and AIC rating of that panelboard.
- Grounding:
  - Provide copper wire type equipment grounding conductors run in the same raceway or cable assembly as the circuit conductors for each branch circuit.
  - Maintain existing building grounding electrode system connections and bonding connections.
- Signal Distribution:
  - Conduits and conductors for signal systems.
  - Conduits for control systems as required by Division 21-25 Specification Sections.
- Building Electrical and Mechanical Systems:
  - Complete system of branch circuit wiring, conduit and distribution equipment for lighting, necessary power and power.
  - Electrical work associated with mechanical equipment, including conduit, conductor and disconnect switches.
  - Connection to all equipment as furnished by other Sections of these Specifications or as listed on Drawings as furnished by Owner.
  - Remove, extend and re-install electrical devices in/on walls receiving new wall coverings.
  - Remove and install branch circuits to replace those demolished. Branch circuits are to be concealed within walls where wall surfaces are being replaced.
- Telecommunication Cabling and Pathway System:
  - Provide rough-in for telecommunication outlets including outlet boxes, trim-rings, conduit concealed within walls from the outlet to an accessible space located above the ceiling.
  - Telecommunication horizontal cabling and cable terminations shall be per City standard IT cabling specifications. Obtain telecommunication horizontal cabling and cable terminations specifications from City IT department and provide a separate line item bid for telecommunication horizontal cabling.
- Work specifically excluded from this Division.
- Furnishing of motors.

F. It shall be understood that the existing conduit with its wiring is presently active (hot), in operation with its pertinent equipment.

G. It shall be noted that this construction work will be planned and executed during ongoing operation of the Sequoia Sandichil Company. Any modifications to the existing equipment currently in operation shall be done at the sole discretion of the Contractor and coordinated with the Owner's authorized representative and facility operating personnel to assure minimum downtime.

H. In order to avoid disruption to facility operations, certain items of work must be completed before other items of work can be started. Contractor shall coordinate with the Owner's authorized representative as to the sequence of construction activities.

I. Size, feed, terminate and connect new conduit, conduit fittings, and seal fittings, expansion fittings and supports. This includes above grade as well as underground.

J. Size, furnish, and install junction, pull and terminal boxes, in accordance to code requirements and as shown on the construction drawings.

K. Size, furnish and install all supports required for conduit installation, such as equipment for the installation of equipment furnished by this Contractor and equipment furnished by others but installed by this Contractor.

L. Size and field cut the openings for conduits passing through building walls and/or floors. Close and seal all openings after conduits have been installed and/or removed. Closing shall be compatible with, or of the same material as, the wall and/or floor.

M. Furnish and install wire tags in accordance with the specifications indicating wire number as shown on electrical schematics, one line, three line diagrams and specifications.

N. Furnish, install and connect all power, control and instrumentation cable, including all necessary cable lugs, connectors and terminations.

O. Perform all testing per the Specifications and report to Owner's field representative in a timely manner so as not to impede the scheduled completion of the Contract.

P. Furnish all material, labor and testing equipment necessary to check out and test the complete power distribution, control systems for all process and utility equipment in strict accordance with specifications. This shall include check out/start up of systems and/or equipment as directed by Owner.

Q. Prime paint all uncoated carbon steel items furnished by Contractor.

R. Energize low voltage services after testing equipment and wiring in accordance with manufacturer instructions and specifications.

11. GENERAL CONDITIONS

A. The general provisions of the Contract, including General Conditions and Specification Division 01, General Requirements, shall form a part of this Section, with the same force and effect as though repeated here. The provisions of this Section shall apply to all of the following Sections of Divisions 26 of these Specifications and shall be considered a part of these Sections.

A. All work and materials shall fully comply with current rules and regulations of all applicable codes. Nothing in these Drawings or Specifications shall be interpreted as to permit any work not in compliance with applicable codes. In the event that a code is specified to be a more restrictive standard or higher requirement, that standard or requirement shall govern such work. Applicable codes include, but are not limited to, the following:

- California Code of Regulations (CCR)
- Title 8, Industrial Relations
- Title 17, Public Health
- Title 24, Building Standards
- 2016 California Building Code
- 2016 California Fire Code
- 2016 California Electrical Code
- Local Codes.

B. All electrical components, devices and accessories shall be listed with Underwriters Laboratories, Inc. (or other testing agency acceptable to the Owner), shall comply with all applicable codes and specifications, and their label wherever standards have been established and label service is regularly furnished by that agency, and shall be marked for intended use.

1.3 PERMITS, FEES AND TAXES

A. The Contractor shall secure all necessary permits and pay all required fees and taxes. The Contractor shall notify the proper authorities and have the work inspected and tested as required by jurisdictional requirements, pay all charges in connection therewith, and shall present to the Owner properly signed certificates of inspection. Acceptance of the work will not be considered until such certificates have been delivered.

1.4 EXISTING CONDITIONS

A. The Contractor shall carefully examine the site and existing building, foundations, loadings and Specifications, and shall have satisfied himself as to the conditions to be encountered during the performance of the work. No subsequent allowance shall be made on his behalf for any additional expense he may incur due to failure or neglect of Contractor to examine site and to include existing conditions in bid.

B. Any work done as an addition, expansion, or remodel of an existing system shall be compatible with and match that system.

C. Contractor shall examine all record drawings made available by the Owner to locate existing utilities, conduits, and pipes prior to beginning work on the electrical systems. Any damage done to the existing systems during the course of the electrical work, whose locations could be reasonably determined, shall be repaired to the satisfaction of the Owner and the utility or agency involved, at the expense of the Contractor.

1.5 CONDUCT OF THE WORK

A. The Contractor shall maintain on the job a competent foreman or a superintendent at all times to superintend the Work.

1.6 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

A. The Engineer's decision will be final on interpretation of the Drawings and Specifications. Whenever the words "AS MAY BE DIRECTED", "AS SHOWN", or "AS PER CODES, ETC.", or other words of similar intent and meaning are used, implying that judgment is to be exercised, it is understood that it is in reference to the judgment of the Engineer.

1.7 SUBMITTALS

A. Shop Drawings and Product Data

1. Shop Drawings and Product Data shall comply with the following requirements:

- The Contractor shall submit for review, complete sets of Shop Drawings and Product Data brochures for materials and equipment as required by each section of the Specifications.
- All Shop Drawings and Product Data shall be submitted at one time in a neat and orderly fashion in a suitable binder with a Title Sheet including Project, Engineer and Contractor, Table of Contents, and Index tabs at the end of each copy. Characteristics and accessories called for in the Specifications or on the Drawings shall be highlighted, circled or underlined on the Shop Drawings and Product Data. Descriptive literature shall be current factory brochures and submittal sheets.
- FAX submittals are not acceptable.
- Material or equipment not be ordered or installed until the Engineer processes the written review. Any item omitted from the submittal shall be provided at the Contractor's substitution.
- Prior to submission of the Shop Drawings and Product Data, Contractor shall review and certify that they meet the requirements of the Contract Documents.
- A minimum period of two weeks, exclusive of transmittal time, will be required each time Shop Drawings and/or Product Data are submitted or resubmitted for review. The Contractor shall consider this time when scheduling a submittal date.

B. Submittal Review

1. Submittals will be reviewed for general conformance with the design concept, but this review does not guarantee quantity, nor does it supersede the responsibility of the Contractor to provide all materials, equipment and installation in accordance with the Drawings and Specifications.

2. The Contractor shall agree that Shop Drawings and Product Data submittals processed by the Engineer are not Change Orders and that the purpose of Shop Drawings and Product Data Submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept. The Contractor demonstrates his understanding by indicating which equipment and material he intends to furnish and install and by indicating his justification for each substitution he intends to use.

3. It shall be clearly understood that the noting of some errors, but the overlooking of others, does not grant the Contractor permission to proceed in error or in conflict with Contract Documents. The Contractor shall agree that if deviations, discrepancies or conflicts between Shop Drawings and Design Drawings and Specifications are discovered either prior to or after Shop Drawing submittals are processed by the Engineer, the Design Drawings and Specifications shall control and shall be followed.

4. If a resubmittal is required, submit a complete copy of the Engineer's review letter requiring such with the resubmittal.

C. Substitutions

1. Substitutions shall comply with the following requirements:

- Manufacturers, model numbers and other pertinent information listed in the Specifications or on the Drawings are intended to establish minimum standards of performance, function and quality. Unless otherwise noted, the Contractor may submit equivalent compatible UL-listed equipment from other manufacturers for review, as long as the minimum standards are met.
- Calculations and other detailed data indicating how the item was selected shall be included for items that are not specified. Data must be complete enough to permit detailed comparison of every significant feature, function, performance, and quality characteristic that is specified, scheduled or detailed. The comparison must prove that the substituted item equals or exceeds the requirements of the specified item.
- The Contractor shall assume full responsibility that substituted items or procedures will meet the Specification and Job requirements and shall be responsible for the cost of redesign and modifications to the work caused by these items.
- At the Engineer's request, the Contractor shall furnish locations where equipment similar to the substituted equipment is installed and operating along with the user's phone numbers and contact person. Satisfactory operation and service history will be considered in the acceptance or rejection of the proposed substitution.

D. Record Drawings

1. Record Drawings shall comply with the following requirements:

Drawing will be issued to the Contractor specifically for use in preparing Record Drawings. As the work progresses, the Contractor shall maintain a record of all deviations in the work from that indicated on the Record Drawings. The location of all underground work shall be recorded by depth from finished grade and by offset distance from permanent surface structures, e.g. building, curbs, walks. The original Drawings will be made available to the Contractor, from which he shall have made, a set of reproducible Drawings. The Contractor shall then transfer the changes, notations, etc. from the marked-up prints to the reproducible Drawings. The Record Drawings (marked-up prints and reproductions) shall be submitted to the Engineer for review, after first obtaining the approval of the Engineer's verification by signature.

E. Operations and Maintenance Instructions

1. Operations and Maintenance Instructions shall comply with the following requirements:

a. Three copies of Operation and Maintenance Instructions and Wiring Diagrams for all equipment shall be submitted to the Engineer. All wiring shall be clearly identified by marking them with the same designation as the equipment item to which they apply (e.g. UPS-I). All wiring Diagrams shall agree with reviewed Shop Drawings and indicate the exact field installation.

b. All instructions shall be submitted at the same time and shall be bound in a suitable binder with tabs dividing each type of equipment (e.g. MCC, UPS, etc.). Each binder shall be labeled indicating Operating and Maintenance Instructions, Project Title, Contractor, Date and shall have a table of contents or other elements.

c. The Contractor shall verbally instruct the Owner's maintenance staff in the operation and maintenance of all equipment and systems. The Engineer's office shall be notified 48 hours prior to this meeting.

d. The Contractor shall prepare a letter indicating that all Operation and Maintenance Instructions (printed and verbal) have been given to the Owner, to the Owner's satisfaction. This letter shall be acknowledged (signed) by the Owner and submitted to the Engineer.

1.2. COORDINATION

A. Electrical Drawings are essentially diagrammatic, unless specifically dimensioned. Some work may be shown offset for clarity. The actual locations of all materials, conduits, fixtures, supports, etc. shall be carefully planned prior to installation of any work in order to avoid all interferences with each other, or with architectural, civil, mechanical, plumbing or other elements.

B. While the size and location of equipment are shown to scale wherever possible, all dimensions and conduit/conductor data shall be verified in the field.

C. Where the work requires connections to be made to equipment furnished and set in place by others, the Contractor shall obtain exact dimensions from the manufacturer of such equipment and he shall install the connections in a neat and workmanlike manner.

D. If discrepancies are discovered between Drawings and Specifications requirements, the more stringent requirement shall apply.

E. All conflicts shall be called to the attention of the Architect and the Engineer prior to the installation of any work or the ordering of any equipment.

F. No work shall be prefabricated or installed prior to this coordination.

G. No additional compensation will be considered to the Contractor for any prefabrication or installation performed prior to this coordination.

1.3. SCHEDULING

A. All work shall be scheduled subject to the review of the Architect, Engineer and the Owner. No work shall interfere with the operation of the existing facilities on or adjacent to the site. The Contractor shall have at least 10 days for installation, permit, and submit for the Owner and quantity of materials to install the work for which contracted, as rapidly as possible consistent with good work, and shall cause no delay to other Contractors engaged upon this project or to the Owner.

1.4. WARRANTY

A. Guarantee shall be in accordance with the General Conditions. These Specifications may extend the period of the guarantee for certain items. Where such extension are called for, or where items are normally provided with guarantee periods in excess of that called for in the General Conditions, the Certificate of Guarantee shall be furnished to the Owner through the Engineer.

B. Contractor shall deliver to the Owner a written guarantee on all workmanship, materials and equipment for a period of one (1) year from the date of acceptance by the Owner. Any work found to be faulty during that period of time shall be corrected at once, upon written notification, at the expense of the Contractor. This shall include repair or replacement of the premises that may be damaged as a result of faulty work and materials furnished.

**PART 2 - PRODUCTS**

**2.1. MATERIALS AND EQUIPMENT**

A. Materials and equipment shall be new unless otherwise noted.

B. Materials and equipment of a given type shall be by the same manufacturer.

C. Materials and equipment shall be covered or otherwise protected from weather, dust, etc. as required to maintain the material and equipment in new factory condition until project acceptance. Upon completion of work and prior to final inspection, Contractor shall thoroughly clean all exposed fixtures, trim and equipment, and shall leave the entire installation in neat, clean, and useable condition. Materials and equipment shall be free of dents, scratches, marks, shipping tags, and all defacing features at time of project acceptance.

D. Contractor shall order materials and equipment in a timely manner to prevent any delay in the construction schedule, and he shall bear any penalty by vendors to meet schedules.

E. Verify all dimensional information to ensure proper clearance for installation of equipment. Check all materials and equipment after arrival on the jobsite and verify compliance with the Contract Documents.

**PART 3 - EXECUTION**

**3.1. DEMOLITION**

A. The Contractor shall protect existing electrical equipment and installations that are not indicated to be removed. If damaged or disturbed in the course of the Work, remove damaged portions and install new equipment as required.

B. Exposed electrical equipment and installations, indicated to be demolished, shall be removed in their entirety.

C. Buried raceway and wiring, indicated to be abandoned in place, shall be cut 2 inches below the surface of adjacent construction and removed in its entirety. Raceways abandoned in place shall be capped and disturbed surfaces shall be patched to match existing finish.

D. Demolished material shall be removed from the project site.

E. Components indicated for relocation shall be removed, stored, cleaned, reinstalled, reconnected, and made operational.

**3.2. CUTTING AND PATCHING**

A. The Contractor shall perform all cutting and drilling, or other work, required to provide openings in walls, ceilings, floors, footings, foundations or other structures, requiring the least amount of work under this Specification Division. The cutting shall be performed by skilled mechanics of the trades involved.

B. Cutting or coring shall not impair the strength of the structure. Any damage resulting from this work shall be repaired at the Contractor's expense to the satisfaction of the Architect.

C. Wherever possible, work shall be done in a concealed and neat workmanlike manner requiring the least amount of work under this Specification Division. Such cutting or notching is allowed only after consultation with and by permission of the Engineer.

D. The Contractor shall repair and refinish disturbed finish materials and other surfaces to accurately match adjacent undisturbed new or existing structures and surfaces and shall install new fireproofing where existing fire-stopping has been disturbed. The repair and refinish of this work shall be entirely subject to the skill and methods of the trades involved.

E. All cuts are to be clean with no chipping, where chipping occurs, as a

**260500 BASIC ELECTRICAL MATERIALS AND METHODS  
PART 1 - GENERAL**

A. NEMA 250 - Standard for Enclosures for Electrical Equipment (1000 Volts Maximum)

2.1 RACEWAYS AND FITTINGS

A. Galvanized rigid steel conduit (GRC) shall meet ANSI C80.1, and be heavy wall, hot dipped galvanized inside and out, with threaded ends, for

C. Galvanized electrical metallic tubing (EMT) shall meet ANSI C80.3, and be continuous, seamless steel tubing, galvanized or sherardized on exterior, coated on interior with smooth hard finish of lacquer, varnish or enamel, with steel set-screw, steel compression or die-cast compression

D. Rigid non-metallic conduit (RNC) shall meet NEMA TC 2, be Schedule 40 PVC, suitable for 90 C, with solvent cemented type NEMA TC3 fittings.

E. Flexible metallic conduit (FMC) shall be single strip, continuous, flexible interlocked double-wrapped steel, hot dip galvanized inside and out

except with inert sunlight-resistant, mineral-oil-resistant watertight plastic outer jacket. Fittings shall be cast malleable iron body and gland nut, cadmium plated with one-piece brass grounding bushings threaded to interior of conduit. Spiral molded vinyl-sealing ring between gland nut and

2.2 CONDUCTORS

A. All conductors shall be delivered to the site in their original unbroken packages, plainly marked or tagged with UL labels, size, type of wire, type

B. All conductors shall be minimum of 98% conductivity soft drawn copper. Conductors #8 AWG and larger shall be stranded type "THWN/THHN", 600 Volt insulation. Conductors #10 AWG and smaller shall be solid copper "THWN/THHN", 600 Volt insulation.

A. Pullboxes and Enclosures for outdoor use shall be NEMA 250, Type 3R or Type 4, unless otherwise noted.

B. Pullboxes and Enclosures for indoor use shall be NEMA 250, Type 1, unless otherwise noted.

D. Wireways and auxiliary gutters shall have continuous removable cover secured with screws and keyhole slots. Hinged cover shall be provided where installed above suspended ceiling.

F. Weatherproof sheet steel pull boxes shall be fabricated of code

A. Outlet Boxes shall meet NEMA OS1 and be galvanized code gauge steel. Boxes in masonry shall be square cornered. Boxes exposed to weather or in wet locations shall be Type FD cast metal with external

D. Receptacles:

\_\_\_\_\_

parallel blade, U-grounding slot, specification grade, rated at 20 amperes, 125 volts and designed for spill feed service.

b. Receptacles served by normal power circuits shall be ivory, grey, white or brown, dependent upon room wall finish and as directed by architect. Receptacles served by emergency power circuits shall be red.

c. Duplex receptacles shall be Hubbell or Leviton 5352 series.

2. Quad Receptacles:

a. Quad receptacles shall be quadplex, feed-through type, with integral NEMA WD 6, Configuration 5-20R duplex receptacle arranged to provide connected downstream receptacles on some circuits. Design notes for installation in a 2-3/4-inch deep outlet box without an adapter.

b. Quad GFCI receptacles shall be Hubbell or Leviton #5352 to match regular duplex receptacle.

3. Other Receptacles: Other receptacles shall match the plug configuration and ratings required for the utilization equipment that is served.

E. Device cover plates shall be provided and installed at all wiring devices, switches, outlets, and similar applications, and shall be as directed by architect. Pull boxes and junction boxes to which no fixture is to be attached shall be fitted with blank cover plates painted to match surrounding. All cover plates installed on rated walls shall be brushed stainless steel. Cover plates installed at switches used for lighting control in all multipurpose rooms, restrooms, all hallways and corridors, and in other locations where lockable cover plates are indicated on the Drawings shall be the dustproof locking stainless steel cover Legrand model WP26-L.

2.5 SUPPORTING DEVICES

A. Supporting devices shall be constructed of cold-formed steel, with a corrosion-resistant coating acceptable to authorities having jurisdiction.

B. Metal items to use outdoors or in damp locations shall be hot-dipped galvanized steel.

C. Slotted-steel channel supports shall have flanged edges turned toward the web, and 9/16-inch diameter slotted holes at a maximum of 2 inches on center, in the web.

1. Channel thickness shall be selected to suit structural loading.

2. Fittings and accessories shall be products of the same manufacturer as the channel supports.

D. Raceway and cable supports shall be manufactured clevis hangers, riser clamps, straps, threaded C-clamps with retainers, ceiling trapeze hangers, wall brackets, and spring-steel clamps or click-type hangers.

E. Pipe sleeves shall be ASTM A 53, Type E, Grade A, Schedule 40, galvanized steel, with plain ends.

F. Cable supports for vertical conduit shall be a factory-fabricated assembly consisting of threaded body and insulating wedging plug for non-armored electrical cables in riser conduits. Plugs shall have number and size of conductor gripping holes as required to suit individual risers. Body shall be constructed of malleable-iron casting with hot-dip galvanized finish.

G. Concrete anchors shall be steel bolts with expansion anchors requiring a drilled hole. Powder driven anchors are not acceptable.

H. Toggle bolts shall be all-steel springhead type.

2.6 ELECTRICAL IDENTIFICATION

A. Identification devices shall be a single type of product for each application category. Colors shall be as prescribed by ANSI A13.1, NFPA 704, and the following:

B. Raceway and cable labels shall comply with ANSI A13.1, Table 3, for minimum size of letters for legend and minimum length of color field for each raceway and cable size.

1. Pre-tensioned, wraparound plastic sleeves shall be a flexible, preprinted, color-coded, acrylic band sized to suit the diameter of the raceway.

2. Preprinted, flexible, self-adhesive, vinyl labels shall have a legend, over-laminated with a clear, weather- and chemical-resistant coating.

3. Color shall be black letters on orange background.

4. Legend shall indicate voltage.

C. Self-adhesive colored marking tape for raceways, wires and cables shall be vinyl tape, not less than 1 inch wide by 3 mils thick.

D. Enclosure identification, signs and instruction plates shall be made from black (or red as noted) Bakelite laminate engraving stock with a white color, punched or drilled for mechanical fasteners. It shall have a minimum thickness of 1/16-inch for signs up to 20 sq. in. and a minimum thickness of 1/8-inch for larger sizes.

E. Fasteners for nameplates and signs shall be self-tapping, stainless-steel screws or No. 10/32 stainless-steel machine screws with nuts, flat and lock washers.

F. Arc-Flash Hazard Warning labels shall be provided at electrical equipment such as switchboards and panelboards in accordance with CEC 110.16.

G. Circuit Identification - A typewritten circuit directory shall be provided at each panelboard and switchboard in accordance with CEC Article 110.16. The Contractor shall develop and prepare the circuit identification description based on the as-built condition.

H. Source of Supply Identification - All switchboards, panelboards and transformers shall have a typewritten label applied indicating the device or equipment where the power supply originates per CEC Article 40B.4(B).

PART 3 - EXECUTION

3.1 ELECTRICAL INSTALLATION

A. All material, equipment, devices, etc., shall be installed in accordance with the recommendations of the manufacturer of the particular item. The Contractor shall be responsible for all installations contrary to the manufacturer's recommendations. The Contractor shall make all necessary changes and revisions to achieve such compliance. Manufacturer's Installation Instructions shall be delivered to and maintained at the job site throughout the construction of the project.

B. The layout and installation of electrical work shall be coordinated with the overall construction schedule to prevent delay in completion of the project.

C. Dimensions and information regarding accurate locations of equipment and structural limitations and finish shall be verified with other sections.

D. The drawings do not show all raceway, wiring, offsets, bends, special fittings, junction or pull boxes necessary to meet job conditions. Items not shown as indicated, where are clearly necessary for proper operation or installation of systems shown, shall be provided as required, at no increase in contract price.

E. Materials and Components shall be installed level, plumb, and parallel and perpendicular to other building systems and components, unless otherwise indicated.

F. Electrical equipment, outlets, junctions and pull boxes shall be installed in accessible locations, avoiding obstructions, preserving maximum clearance for service openings and passageways clear.

G. Equipment shall be installed to facilitate service, maintenance, and repair or replacement of components. It shall be connected for ease of disconnecting, with minimum interference with other installations. Minor adjustments in the locations of equipment shall be made where necessary providing such adjustments do not adversely affect function of the equipment. Major adjustments in the location of equipment shall be previously approved and detailed on the Record Drawings.

H. Right of Way shall be given to raceways and piping systems installed at a required slope.

3.2 RACEWAY APPLICATION

1. Galvanized Rigid Steel Conduit (GRC) may be used in all locations. Where installed in direct contact with earth, conduit shall be wrapped with two layers of 40-mil thick 10-mil PVF tape or a total thickness of 40-mil or have a factory applied 40-mil PVF coating.

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PROJECT NO.	18-10848.00	DRAWING	G012	WALL ADDITION FOR CNG MAINTENANCE B	TURLOCK, CA	DRAWING TITLE	SHEET SPECIFICATIONS

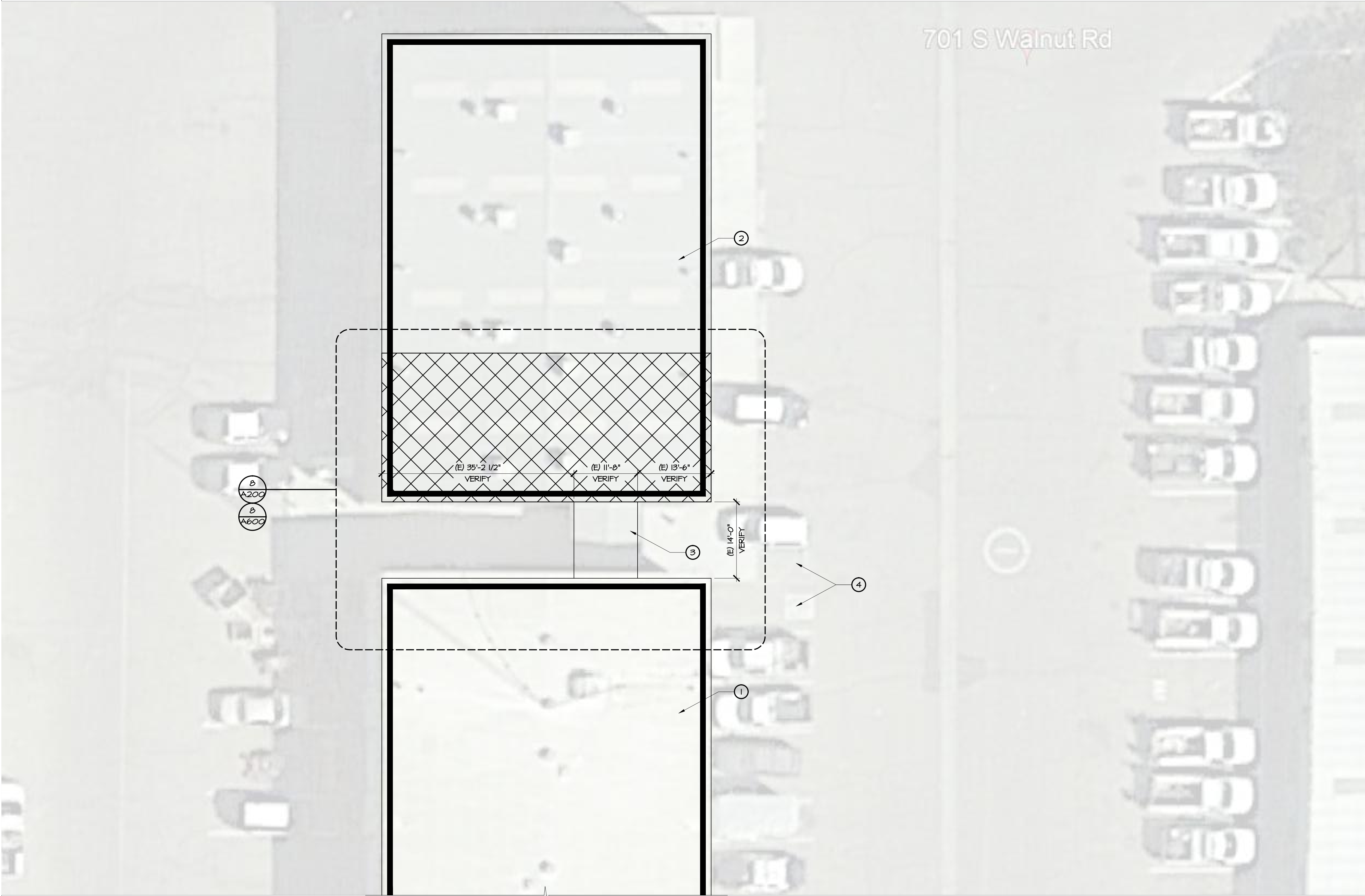




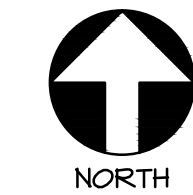


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PLOT DATE: 7/23/19



SITE PLAN

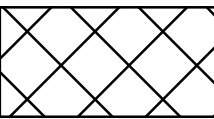


SCALE: 1" = 10'-0"

## KEYNOTES

- 1 EXISTING MOTOR VEHICLE REPAIR BUILDING TO REMAIN.
- 2 EXISTING CNG BUILDING
- 3 EXISTING COVER BETWEEN THE TWO BUILDINGS, ROUTE ANY ELECTRICAL WORK BENEATH THIS CANOPY TO ENSURE IT IS KEPT DRY.
- 4 (E) ACCESSIBLE PARKING STALL W/ NO PARKING AREA TO REMAIN.

## LEGEND



AREA OF WORK

## GENERAL NOTES

- A. CONTRACTOR TO VERIFY EXTENT OF DEMOLITION PRIOR TO START OF WORK.

WALL ADDITION FOR  
CNG MAINTENANCE BUILDING

TURLOCK, CA

DRAWING TITLE  
ARCHITECTURAL SITE PLAN

PROJECT NO.

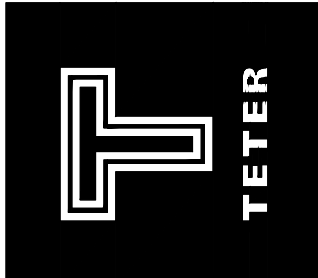
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DRAWING

A100

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MARK	DATE	DESCRIPTION	PLAN CHECK SUBMITTAL
A	7/24/19		



KEYNOTES

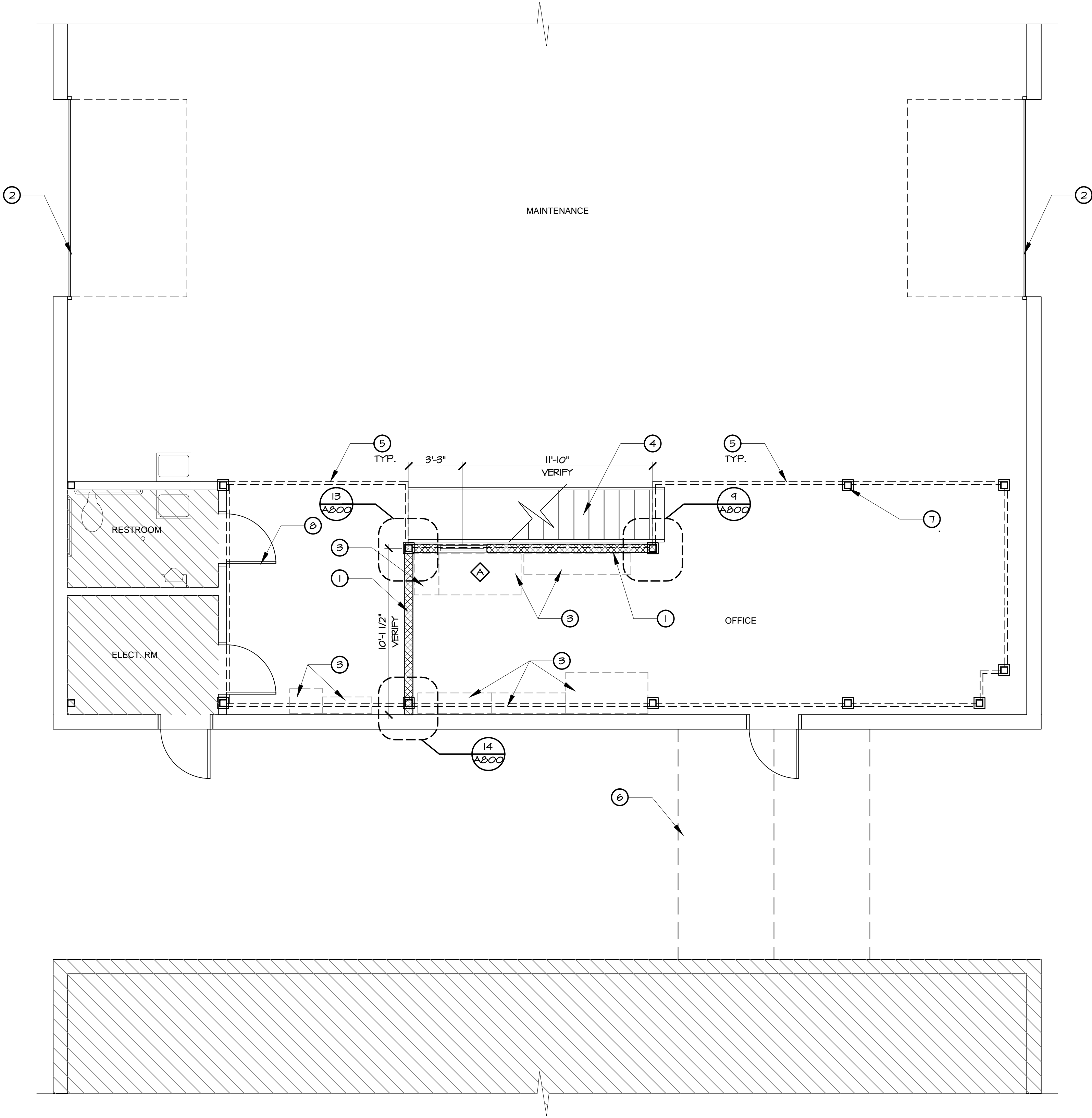
- 1 METAL STUD WALL FROM (E) CONCRETE SLAB TO BOTTOM OF (E) MEZZANINE. PLYWOOD FINISH TO MATCH (E). FRAME AROUND (E) FIRE SPRINKLER LINE AND ELECTRICAL CONDUIT.
- 2 (E) OVERHEAD COILING DOOR TO REMAIN
- 3 (E) FURNITURE, OWNER TO REMOVE DURING CONSTRUCTION AND REINSTALL
- 4 (E) STAIRS TO REMAIN
- 5 DASHED LINE INDICATES EDGE OF (E) MEZZANINE ABOVE TO REMAIN.
- 6 DASHED LINE INDICATES CANOPY BETWEEN THE TWO (E) BUILDINGS TO REMAIN
- 7 (E) STRUCTURAL COLUMN TO REMAIN, TYP.

LEGEND

- 6" METAL STUD PER PLAN w/ 1/2" PLYWOOD EACH SIDE TO MATCH (E)
- (E) WALL TO REMAIN
- AREA NOT IN ARCHITECTURAL SCOPE OF WORK.
- WINDOW AS SCHEDULE, SEE 4 ABOO
- KEYNOTE SYMBOL
- (E) DOOR, FRAME & HARDWARE TO REMAIN, U.N.O

GENERAL NOTES

- A. CONTRACTOR TO VERIFY EXTENT OF ANY DEMOLITION BEFORE BEGINNING WORK.
- B. FOR TYPICAL METAL FRAMING DETAILS/ATTACHMENTS, SEE 4 ABOO
- C. CONTRACTORS SHALL PATCH, REPAIR OR REPLACE ANY ADJACENT WORK, WALL/CEILING FLOOR SURFACES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTION"
- D. ALL ITEMS NOT NOTED FOR REMOVAL ARE EXISTING AND ARE TO REMAIN. PROTECT FROM DAMAGE.

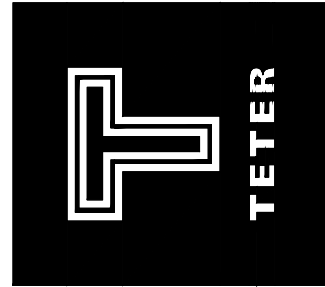


FLOOR PLAN



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

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WALL ADDITION FOR  
CNG MAINTENANCE BUILDING

TURLOCK, CA  
DRAWING TITLE  
FLOOR PLAN

PROJECT NO.

18-10898.00

DRAWING

A200

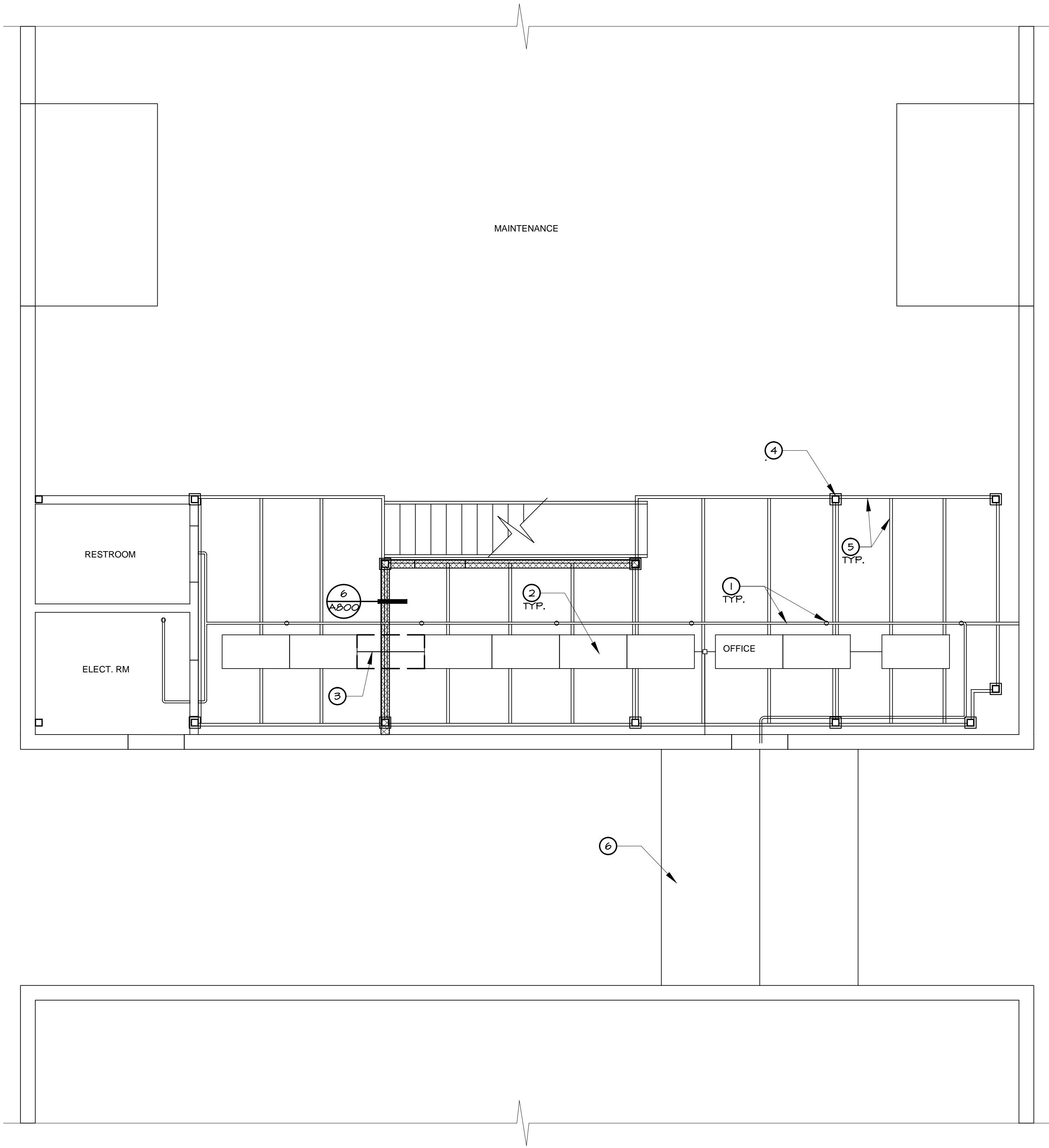
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PLOT DATE: 7/23/19



REFLECTED CEILING PLAN

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



## KEYNOTES

- 1 (E) FIRE SPRINKLER PIPING AND HEADS TO REMAIN, TYP.
- 2 (E) LIGHTS TO REMAIN, TYP.
- 3 REMOVE (E) LIGHT AND REPLACE WITH CONDUIT, SEE ELECTRICAL DRAWINGS
- 4 (E) STRUCTURAL COLUMNS TO REMAIN, TYP.
- 5 (E) MEZZANINE FRAMING TO REMAIN, TYP.
- 6 CANOPY BETWEEN THE TWO (E) BUILDINGS

## LEGEND

## GENERAL NOTES

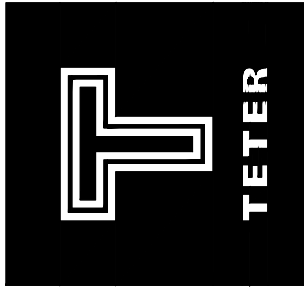
- A. CONTRACTOR TO VERIFY EXTENT OF ANY DEMOLITION BEFORE BEGINNING WORK.

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WALL ADDITION FOR  
CNG MAINTENANCE BUILDING

TURLOCK, CA

DRAWING TITLE

REFLECTED CEILING PLAN

PROJECT NO.

18-10898.00

DRAWING

A600







INTERIOR

**WALL FRAMING SCHEDULE<sup>(14)</sup>**

WALL TYPE	SPAN LENGTH	WALL TYPE	WALL STUDS	BOX HEADER <sup>(15)</sup>		JAMB STUDS	SILL TRACK	NO. #10 SMS AT HEADER HANGER
				DBL. JOIST	TRACK			
	0'-0" TO 4'-0"	6" STUD	6005162-33 @ 24" O.C.	6005162-33	600T125-33	(2) 6005162-33	600T125-33	(8)

**B TYPICAL WALL ELEVATIONS**

**C TRACK SPLICE**

**E SILL CONNECTION**

**F HEADER CONNECTION**

**G CORNER FRAMING**

**H BOX HEADER**

**I TOP TRACK INTERSECTION**

**J CONNECTION AT STUD PUNCH-OUT**

TYPICAL METAL STUD WALL FRAMING

N.T.S. **4**

[illegible]



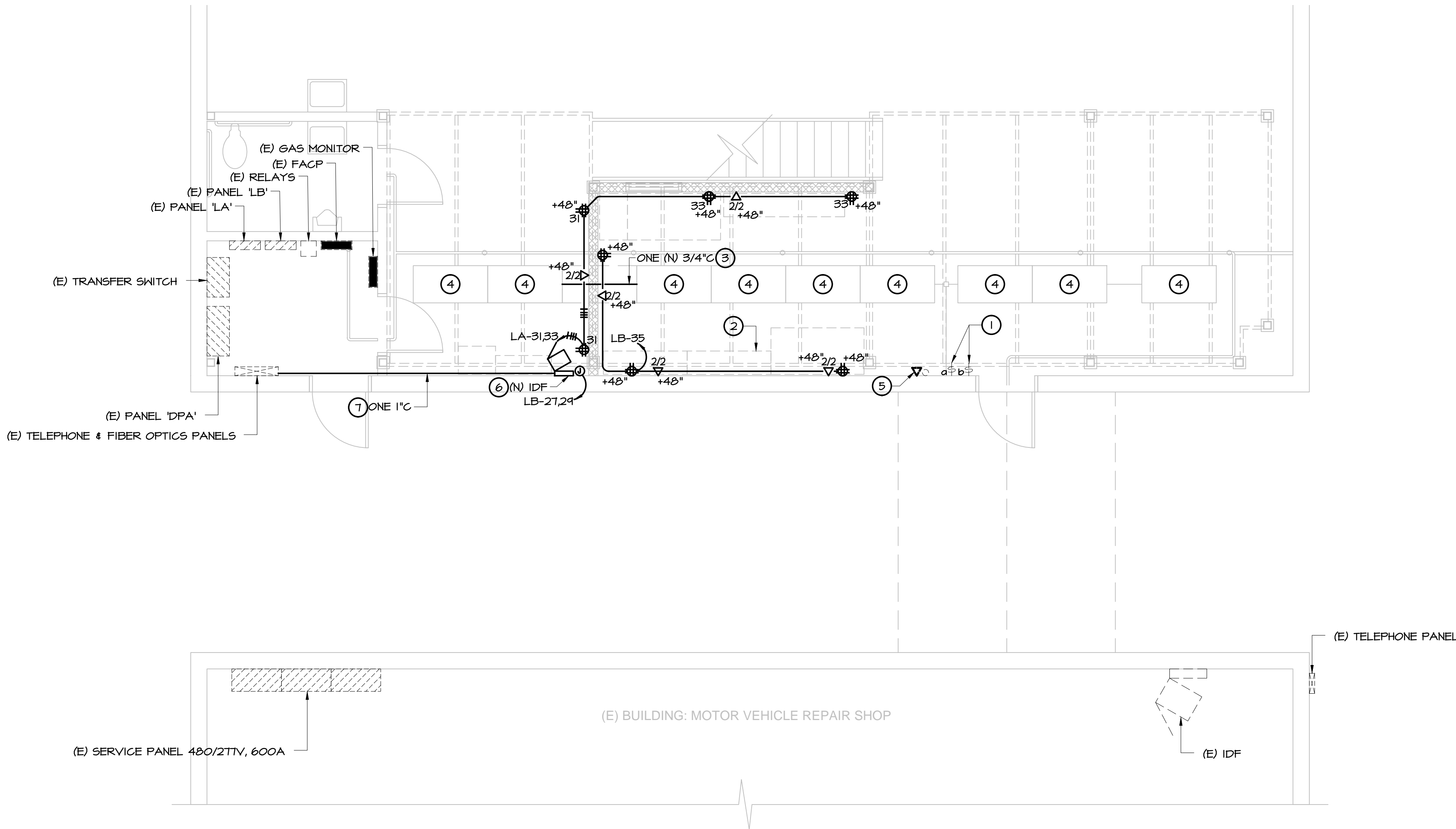
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PLOT DATE: 7/23/19

PANEL: LB		125 AMP BUS		MAIN: LUG ONLY		LOCATION: ELECTRICAL ROOM										
EXISTING		120/208V, 3 PH, 4 W		TRIP: THERMAL-MAGNETIC		MOUNTING: SURFACE										
PANELBOARD		100% RATED NEUTRAL		A.I.C.: 22000 A		ENCLOSURE: NEMA 1										
CIRCUIT		BREAKER		SERVES		VOLT-AMPERES		SERVES		BREAKER		CIRCUIT				
CKT NO.	PNL SPACE	AMP	POLE											LOAD	A	B
1	1	15	3	GEF - 4	1440	2880			1440	GEF - 4	15	3	2	2		
3	3				1440				1440				4	4		
5	5				1440			2880	1440				6	6		
7	7				1440	2880			1440				8	8		
9	9	15	3	GEF - 5	1440		2880		1440	GEF - 4	15	3	10	10		
11	11				1440			2880	1440				12	12		
13	13				1440	2880			1440				14	14		
15	15				1440		2880		1440				16	16		
17	17	15	3	GEF - 6	1440			2880	1440	GEF - 4	15	3	18	18		
19	19				1440			2880	1440				20	20		
21	21				1120	2240			1120				22	22		
23	23				1120		2240		1120				24	24		
25	25	20	2	1/2 HP DOOR # 1+2	1120	2240			1120	1/2 HP DOOR # 4	20	2	26	26		
27	27				1120				1120				28	28		
29	29				1120			2240	1120				30	30		
31	31				1120	2240			1120				32	32		
33	33	20	2	1/2 HP DOOR # 3	1120				1120	1/2 HP DOOR # 5+6	20	2	34	34		
35	35				1120	2240			1120				36	36		
37	37				800		800		0 SPARE				20	1	28	28
39	39				800			800	0 SPARE				20	1	30	30
41	41	20	1	(N) IDF	800				0 SPARE		20	1	32	32		
31	31				720	720			0 SPARE				20	1	34	34
33	33				720		720		0 SPARE				20	1	36	36
35	35				720		720		0 SPARE				20	1	38	38
37	37	20	1	SPARE	0	0			0 SPARE		20	1	40	40		
39	39				0		0		0 SPARE				20	1	42	42
41	41				0		0		0 SPARE				20	1		
					0		0		0 SPARE				20	1		
TOTAL CONNECTED LOAD (VA) :					13840	12400	12400	TOTAL CALCULATED LOAD FOR PANEL: 39720 VA								
25% LCL/LML (VA) :					360	360	360									
TOTAL CALCULATED LOAD (VA) :					14200	12760	12760									
TOTAL CALCULATED LOAD (AMPS) :					118.3	106.3	106.3									

## PANEL SCHEDULE

2



## POWER AND SIGNAL PLAN

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

3

## KEYNOTES

- (E) LIGHT SWITCH SHALL REMAIN.
- (N) ONE 1 1/2" WITH ONE (N) 25-STRAND CABLE.
- REMOVE (E) LIGHT FIXTURE AND RECONNECT ADJOINING FIXTURES WITH ONE 3/4"C, 3#12 THIN CU, AND #12 CU GND.
- (E) LIGHT FIXTURES TO REMAIN (9 TOTAL).
- DISCONNECT AND REMOVE (E) DATA OUTLET. REMOVE (E) WIRING BACK TO SOURCE.
- INSTALL NEW IDF AT +80" PER DETAIL I/E100.
- ONE 1"C WITH ONE FIBER OPTIC CABLE.

## LEGEND

- 2/2 PROVIDE 4-PLEX RECEPTACLE WITH FOUR CAT6 PORTS (TWO DATA AND TWO VOICE)
- QUADRIplex RECEPTACLE
- (E) LIGHT SWITCH
- (E) DENOTES EXISTING TO REMAIN, NO WORK U.O.N.
- (N) DENOTES NEW
- CONDUIT IN ATTIC/WALL: DENOTES 3/4"C-1#12 AWG CU THIN, 1#12 CU GND, U.O.N.
- CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THIN + 1 #12 CU GND, U.O.N.

## DEMOLITION NOTES

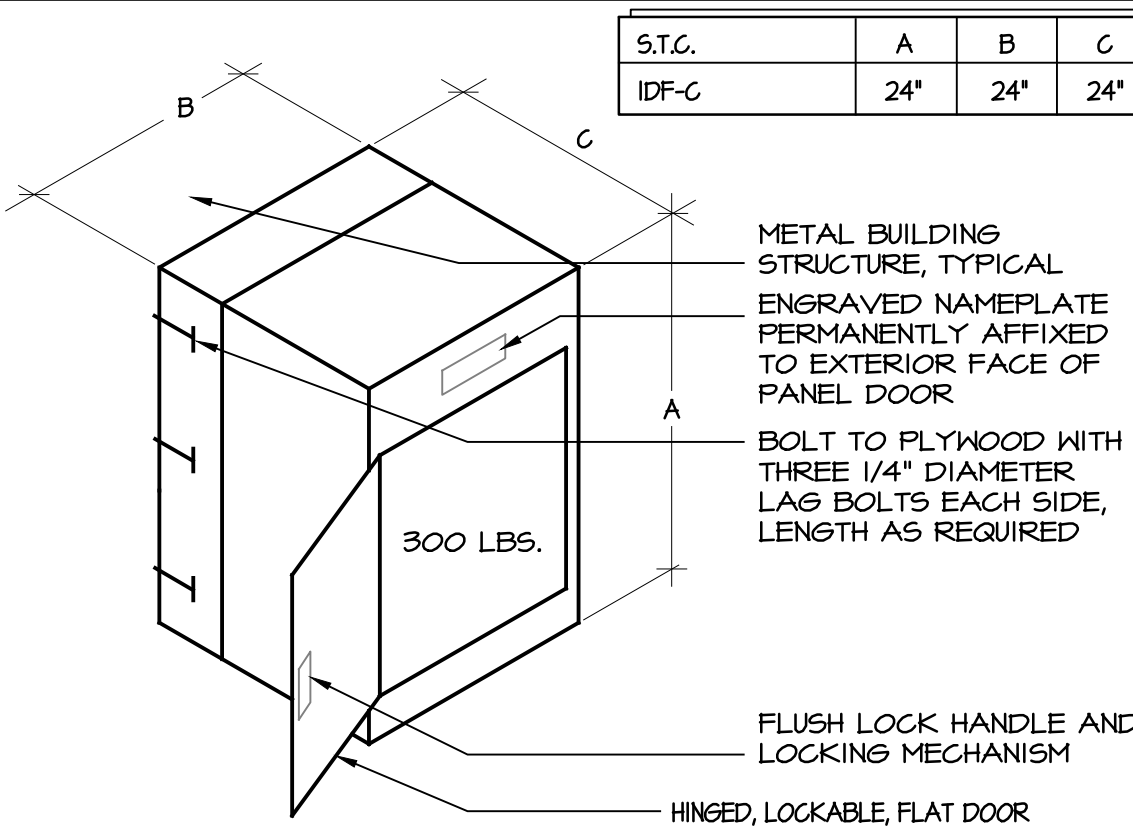
- A. ELECTRICAL FACILITIES SHOWN DASHED ARE EXISTING:
- THOSE SHOWN LIGHTWEIGHT (FADED) SHALL REMAIN AND REQUIRE MODIFICATION AS NOTED.
  - THOSE SHOWN HEAVYWEIGHT (DARK) REQUIRE REMOVAL OR RELOCATION AS NOTED.
- B. EXISTING ELECTRICAL FACILITIES AND CIRCUITING SHOWN ARE BASED ON LIMITED RECORD DRAWINGS AND LIMITED SITE VISITS. THE DRAWINGS MAY NOT ACCURATELY REPRESENT ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND RING OUT EXISTING CIRCUITS TO DETERMINE EXACT ROUTING.
- C. EXISTING RECEPTACLES AND SWITCHES IN WALLS THAT ARE TO BE DEMOLISHED SHALL BE REMOVED AND WIRING SHALL BE PULLED BACK TO THE SOURCE PANEL.

## TELECOM. PATHWAY NOTES

- A. CONDUIT AND CABLES FOR TELECOMMUNICATION OUTLETS SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS.
- B. TELECOMMUNICATION OUTLET BOXES SHALL BE 5" SQUARE BY 2-7/8" DEEP WITH A SINGLE-GANG BOX EXTENSION THAT IS MOUNTED FLUSH WITH THE FINISHED WALL.
- C. PROVIDE AND INSTALL ONE 1"C STUBBED FROM EACH TELECOMMUNICATION OUTLET BOX INTO THE ACCESSIBLE ATTIC SPACE TO FACILITATE TELECOMMUNICATION CABLE INSTALLATION.
- D. PROVIDE AND INSTALL THREADED SET SCREW CONNECTORS WITH POLYPROPYLENE BUSHINGS AT EACH END OF CONDUIT SYSTEMS USED FOR TELECOMMUNICATION CABLE INSTALLATION. BUSHINGS SHALL BE INSTALLED AND INSPECTED PRIOR TO CABLE INSTALLATION.

## TELECOM. CABLING NOTES

- A. EACH TELECOMMUNICATION CABLE SHALL BE HOMERUN FROM THE TELECOMMUNICATION OUTLET TO A PATCH PANEL LOCATED IN THE TELECOMMUNICATION ROOM.
- B. TELECOMMUNICATION CABLES SHALL BE NEATLY BUNDLED WITH VELCRO STRAPS AT 36" O.C.
- C. TELECOMMUNICATION CABLES SHALL BE INDEPENDENTLY SUPPORTED FROM J-HOOKS WITHIN THE ACCESSIBLE ATTIC SPACE WHERE THEY ARE NOT WITHIN CONDUIT OR SUPPORTED ON CABLE TRAY.
- D. TELECOMMUNICATION CABLES SHALL BE TERMINATED WITH MODULAR JACKS ON PATCH PANELS IN THE TELECOMMUNICATION ENCLOSURE AND ON MODULAR JACKS AT THE TELECOMMUNICATION OUTLETS.

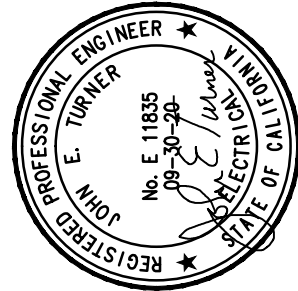


## SURFACE IDF CABINET MOUNTING

NTS

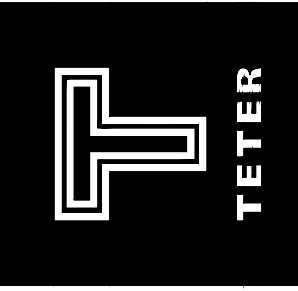
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ARCHITECTS ENGINEERS CONNECTED



## WALL ADDITION FOR CNG MAINTENANCE BUILDING

TURLOCK, CA  
DRAWING TITLE  
ELECTRICAL PLAN

PROJECT NO.

18-10898.00

DRAWING

E100