MODULAR BUILDING MODIFICATION WELDON ELEMENTARY SCHOOL WARRIORS **CLOVIS CLOVIS UNIFIED SCHOOL DISTRICT**

GENERAL

PROJECT ADDRESS: 150 DEWITT AVE, CLOVIS, CA 93612

GENERAL NOTES

1. A COPY TITLE 24 C.C.R. PARTS 1 AND 2 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INTERIOR MODIFICATIONS (ELECTRICAL, PLUMBING, CASEWORK, FINISHES) TO AN EXISTING PORTABLE BUILDING.

FLOOD HAZARD INFORMATION

FLOOD ZONE DESIGNATION: ZONE X - AREA OF 0.2% CHANCE FLOOD HAZARD FLOOD INSURANCE RATE MAP (F.I.R.M.) PANEL DESIGNATION: MAP #06019C1585H EFFECTIVE DATE OF F.I.R.M.: **FEBRUARY 18, 2009**

GENERAL INFORMATION

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1 TITLE 24 C.C.R. EFFECTIVE JULY 1, 2014 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, C.C.R. TITLE 24 2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12 2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11 C.C.R., TITLE 19 PUBLIC SAFETY NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED) UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)

UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED) UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED) UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

(AS AMENDED) UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION) UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION) AMERICANS WITH DISABILITIES ACT

OWNER CLOVIS UNIFIED SCHOOL DISTRICT

1450 HERNDON AVE. CLOVIS, CA 93611-0567 (559) 327-9000 **CONTACT: DENVER STAIRS**

MECHANICAL ENGINEER TETER, INC. 7535 N. PALM AVE., SUITE 201

FRESNO, CA 93711 (559) 437-0887

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PROJECT DIRECTORY





GENERAL G000

G100

TOTAL PAGES: 14

COVER

SHEET SPECIFICATIONS

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G101 SHEET SPECIFICATIONS ARCHITECTURAL A000 LEGENDS AND ABBREVIATIONS A100 SITE PLAN A102 FLOOR PLAN, REFLECTED CEILING PLAN, & DETAILS A103 DETAILS PLUMBING MP001 MECHANICAL & PLUMBING SCHEDULE, LEGEND, AND NOTES MP002 MECHANICAL & PLUMBING SPECIFICATIONS MECHANICAL & PLUMBING FLOOR PLANS MP200 MP800 MECHANICAL & PLUMBING DETAILS ELECTRICAL E200 ELECTRICAL POWER, LIGHTING, AND FIRE ALARM PLAN E800 ELECTRICAL SCHEDULES, LEGENDS, AND NOTES ELECTRICAL SPECIFICATIONS E900

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PROJECT NO.



SHEET INDEX

DIVISION 01 – GENERAL REQUIREMENTS

011100 SUMMARY

- Summary: Section includes Work covered by the Construction Documents.
- The Work of the Project is defined by the Contract Documents and consists of interior modifications to an existing portable building.
- 3. Type of Contract: Project will be constructed under a single prime contract.
- 4. Permits: Contractor shall obtain and pay for all building permits required to perform the work. Submit copies of receipts for reimbursement by Owner.
- Use of Site: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section. Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- Intent of Drawings and Specifications: Drawings and Specifications are intended to provide the basis for proper completion of the project suitable for the intended use of the Owner. Items not expressly set forth but which are reasonably implied or necessary for the proper performance of the work shall be included. Details marked "Typical" shall apply in all cases unless specifically indicated otherwise.

012300 ALTERNATES

012500 SUBSTITUTION PROCEDURES

- 1. Summary: Section includes administrative and procedural requirements for
- substitutions Submittals, Substitution Requests: Submit four (4) paper copies of each request for consideration, use form provided or approved by Architect. Identify product, fabrication, or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles. Show evidence of compliance with requirements for substitutions and indicate the following, as applicable:
- A. Statement indicating why specified product or fabrication or installation cannot be provided.
- Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution. Detailed comparison of significant qualities of proposed substitution with those of
- the Work specified. Indicate deviations, if any, from the Work specified.
- E. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
- Additional information as requested by Architect. 3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or
- documentation, whichever is later. Substitutions Prior to Bid: Architect will consider requests for substitution if received within 14 days prior to the submission of bids. Requests received after that time may
- be considered or rejected at discretion of Architect. Substitutions After Award of Contract: The Contractor, after award of the Contract. as allowed by the General Conditions, may submit materials and methods to be
- considered for substitutions. 6. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms. Submit requests for substitution immediately
- upon discovery of need for change, but not later than 21 days prior to time required for preparation and review of related submittals. Substitutions for Convenience: Changes proposed by Contractor that are not required in order to meet other Project requirements but may offer advantage to the Owner. Architect will consider requests for substitution if received within 60 days after the Notice to Proceed. Requests received after that time may be considered or rejected at

012613 REQUEST FOR INFORMATION (RFI)

discretion of Architect.

- 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.
- 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 General Contractor; RFIs submitted to Architect by other entities controlled by Contractor will not be acknowledged. RFI's shall be submitted on form provided or approved by Architect.
- A. RFIs shall be sequentially numbered by General Contractor and titled with terms pertinent to the content of the RFI. Use of Subcontractors' numbering systems shall not be permissible
- 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 RFIs in a prompt manner so as 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.
- 6. 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.

013300 SUBMITTAL PROCEDURES

- 1. Summary: Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- 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.
- 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. 3. Request selection of items involving selection of colors, textures, or patterns in sufficient time to avoid delaying the progress of the Work.
- A. Submittals for color selection are often dependent on other products and field applied finishes for color coordination. Submit products and finishes requiring color coordination simultaneously to allow Architect to coordinate colors in a timely manner
- For submittals requiring color coordination with other materials or finishes, the submittal review time period shall not start until all such submittals are received. 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.

013113 COORDINATION

- 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 (1) one electronic copy (.pdf, .dwg or .rvt files) 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.
- 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.
- 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. Coordinate Project dimensions and conditions with product manufacturer's
- 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.
- 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 (RVT 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 and Outdoor Service Yards: Show work above and below grade including mechanical, plumbing, fire protection, fire alarm, and electrical equipment, and related supports, accessories, and utility connections.
- C. Underground site utilities and utilities below slabs on grade within building areas where underground utilities cross other utilities, penetrate footings, underground structures or other obstructions.
- 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.

014000 QUALITY ASSURANCE

- 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.
- 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. 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. 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.

015000 TEMPORARY FACILITIES

- 1. Summary: Section includes requirements for temporary utilities, support facilities, and
- security and protection facilities. 2. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable
- effects. 3. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program and Chapter 33 of the California Fire Code. Provide and maintain fire extinguishers as required for fire
- protection during the course of construction. 4. Provide protection for existing improvements and in-place construction. 5. Provide and maintain temporary utility services.
- 6. Waste Disposal Facilities: Comply with requirements specified in Division 01 Section "Construction Waste Management and Disposal."
- 7. Sanitary Services: provide sanitary facilities onsite throughout the construction period, including hand wash capabilities and accessible facilities.
- 8. Site Security: provide temporary security such as fencing and gates to secure the site against unauthorized intrusion, theft, vandalism and potential accidents or injuries to unauthorized personnel. Provide temporary traffic barriers and control, suitable to the Authorities Having Jurisdiction, where pertinent.
- A. Electronic surveillance may be used, at Contractor's option, to increase security and loss prevention, but shall not be in lieu of physical barriers. B. Temporary security measures shall remain in place until permanent construction
- providing equal or better security is in place and operational, or until the project is completed and accepted by the AHJ and Owner.

016500 PRODUCT REQUIREMENTS

- 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 soley responsible for injuries, damages, or liabilities of any kind casued by the use of such materials or equipment.
- 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.

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.

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.

017305 CUTTING AND PATCHING

- 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. Cutting of Structural Elements: Do not cut structural elements without 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. 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.

017419 CONSTRUCTION WASTE MANAGEMENT

- 1. Summary: Section includes administrative and procedural requirements for salvaging, recycling, and disposing of non-hazardous construction and/or demolition waste. Submittals:
- A. Submit Waste Management Plan as required by authority having jurisdiction (AHJ) and in compliance with the California Green Building Standards Code (CGBSC). B. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- 3. Performance Requirements: Recycle and/or salvage for reuse a minimum of 65 percent non-hazardous construction and demolition waste in accordance with one of the following 2019 California Green Standards Code (GBSC) Sections:
- A. Construction Waste Management Plan (GBSC Section 5.408.1.1): Provide Waste Management Plan that:
- 1. Identifies the construction and demolition waste material to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. Determines if construction and demolition waste materials will be sorted on-2.
- site (source separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material
- collected will be taken 4. Specifies the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
- B. Waste Management Company (GBSC Section 5.408.1.2): Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill
- complies with this section. C. Waste Stream Reduction (GBSC Section 5.408.1.3): The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved
- by the enforcing agency. Implement approved waste management procedures. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management procedures during the entire duration of the Contract.
- 5. Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.

018113 SUSTAINABLE DESIGN REQUIREMENTS

Comply with requirements and procedures for compliance with the 2019 California Green Building Standards Code (CGBSC).

DIVISION 02 - EXISTING CONDITIONS

024119 SELECTIVE DEMOLITION

- 1. Summary: Section includes demolition and removal of selected portions of building or structure. demolition and removal of selected site elements, and/or salvage of existing items to be reused or returned to Owner. Submittals:
- A. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property, for physical damage, for dust control, and for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
- Indicate interruptions of utility services. C. Predemolition Photographs: Show existing conditions of adjoining construction, including finished surfaces that might be misconstrued as damage caused by demolition operations. Submit copies of digital photographs before Work begins.
- 3. Field Conditions: A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical. B. Hazardous Materials: It is expected that hazardous materials will not be
- encountered in the Work. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
- 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, ceilings, floors, and other existing finish work that are to remain or that
- are exposed during selective demolition operations. 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. 9. Recycle or dispose demolition waste materials according to Division 01 Section "Construction Waste Management and Disposal." Remove demolition waste materials

SPECIFICATIONS

from Project site and legally dispose of them in an EPA-approved const demolition waste landfill acceptable to authorities having jurisdiction.

- Summary: Section includes plastic laminate faced casework and plast counter tops
- Submittals: A. Product Data: For each type of product, including cabinet hardwa
 - accessories . Provide VOC content documentation for adhesives.
 - 2. Provide documentation that wood panel products and bonding
- contain no urea formaldehyde. B. Shop Drawings: Show location of each item, dimensioned plans a large-scale details, attachment devices, and other components.
- Apply WI-certified compliance label to first page of Shop Drav C. Samples for Initial Selection: Plastic laminates and PVC edge ma D. Woodwork Quality Standard Compliance Certificates: WI-certified certificates.
- . Quality Assurance: Woodwork Institute (WI) Quality Assurance Progra laminate casework shall be subject to the WI Certified Compliance Proc A. A WI Certified Compliance Label shall be affixed to the first page of
- shop drawing set. B. A WI Certified Compliance Certificate shall be issued for plastic la counter tops and installation
- Environmental Limitations: Do not deliver or install woodwork until build wet work is complete, and HVAC system is operating and maintaining t
- relative humidity at occupancy levels during the remainder of the const Regulatory Requirements, Accessibility: Casework shall comply with a requirements of the U.S. Architectural & Transportation Barriers Compl "Americans with Disabilities Act (ADA) 2010 ADA Standards for Access with the 2019 California Building Code, Chapter 11B, "Accessibility to I Public Accommodations, Commercial Buildings, and Public Housing." casework shall comply with the following:
- A. Counter Top Heights: Where self-rimming sinks or lavatories are i counter tops and the fixtures are indicated to be accessible, count shall be verified and coordinated so that the top rim of sinks and la not be more than 34 inches above the finished floor.
- B. Knee Space: Vertical clearance of not less than 27 inches above floor, minimum clear width of 30 inches, and minimum depth of 19 Plastic Laminate Casework: Unless otherwise indicated, comply with

- B. Type of Construction: Type A, Frameless.
- Cabinet, Door, and Drawer Front Interface Style: Style 1, flush ov D. Laminate Cladding for Exposed Exterior and Exposed Interior Sur NEMA LD 3, High-pressure decorative laminate complying with the requirements:
- Horizontal Surfaces Other Than Tops: Grade HGL (1.0 mm).
- Postformed Surfaces: Grade HGP (1.0 mm).
- Vertical Surfaces: Grade VGS (0.7 mm). 4. Edges: PVC edge banding, 0.12 inch (3 mm) thick, matching
- color, pattern, and finish.
- 5. Fasteners: Confirmat screws and glue E. Sizes: Wall units shall not exceed 3'-0" without center divider, top

	from Project site and legally dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.	3.	Fiberglass Reinforced Plastic Paneling: Plastic panels complying with ASTM D 3841 comprised of thermosetting styrenated and acrylated polyester resins reinforced with	
יוס	VISION 03 - CONCRETE		glass fibers. A. Nominal Thickness: Not less than 0.09 inch. B. Surface Finish: Molded pebble texture.	
NC			 C. Color: As selected by Architect to match existing adjacent material. D. Surface-Burning Characteristics: Class C as determined according to ASTM E 84 by LIL or another acceptable qualified testing agency. Identify products with 	
			 appropriate markings of applicable testing agency. E. Flame-Spread Index: 76-200. E. Smoke Developed Index: 450 or loss 	
		4.	Trim Accessories: Manufacturer's standard one-piece vinyl extrusions designed to retain and cover edges of panels. Provide base channels, division bars, inside corners,	se the
		5.	Adhesive: As recommended by plastic paneling manufacturer; VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).	expressly ; common nd other jhts in the: document, esigns
		0.	recommended by plastic paneling manufacturer and complying with requirements in Division 07 Section "Joint Sealants." VOC content of 250 g/L or less when calculated	eter, Inc. sserves its opyright a roperty rig lans. This leas and d
		7.	Installation: Install plastic paneling in accordance with manufacturer's written instructions.	
		DI	ISION 07 – THERMAL AND MOISTURE PROTECTION	
06 1.	Summary: Section includes plastic laminate faced casework and plastic laminate	079	200 JOINT SEALANTS	
2.	counter tops. Submittals:	1.	Summary: Section includes joint sealants and accessory materials.	
	A. Product Data: For each type of product, including cabinet hardware and accessories.	2.	Submittals: Product data for each type of product indicated or incorporated into the Work, include VOC content of sealants.	
	 Provide VOC content documentation for adhesives. Provide documentation that wood panel products and bonding adhesives contain no uroa formaldobydo. 	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	-
	 B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components. 	4	experience.	
	 Apply WI-certified compliance label to first page of Shop Drawings. Samples for Initial Selection: Plastic laminates and PVC edge material. Woodwork Quality Standard Compliance Certificates: WI-certified compliance certificates 	4.	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):	
3.	Quality Assurance: Woodwork Institute (WI) Quality Assurance Program, plastic laminate casework shall be subject to the WI Certified Compliance Program (CCP):		 Architectural Sealants: 200 g/L. Sealant Primers for Nonporous Substrates: 250 g/L. Sealant Primers for Porous Substrates: 775 g/L. 	
	A. A WI Certified Compliance Label shall be affixed to the first page of the original shop drawing set.	5.	Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing	
	 A WI Certified Compliance Certificate shall be issued for plastic laminate cabinets, counter tops and installation. 		ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.	
4.	Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and	6.	Silicone Joint Sealant 1: Single-component, nonsag, neutral-curing silicone joint sealant, ASTM C 920, Type S, Grade NS, Class 100/50, for Use NT.	FCT*
5.	relative humidity at occupancy levels during the remainder of the construction period. Regulatory Requirements, Accessibility: Casework shall comply with accessibility		 Products, One of the following: Dow Corning Corporation 790; GE Advanced Materials - Silicones, SilPruf LM SCS2700; Tremco Incorporated; Spectrem 1. Application: substance on both is interval. 	CL SH 680
	"Americans with Disabilities Act (ADA) 2010 ADA Standards for Accessible Design and with the 2019 California Building Code, Chapter 11B, "Accessibility to Public Buildings	7	 Application, extend joints where one or both joint faces are masonry, stone, concrete or other porous materials. Silicone, joint Sealant 2: Single-component, ponsag, acid-curing cilicone joint sealant 	D A HITA
	Public Accommodations, Commercial Buildings, and Public Housing." Accessible casework shall comply with the following:		ASTM C 920, Type S, Grade NS, Class 25, for Use NT. 1. Products, One of the following: Dow Corning Corporation, 999-A: GE Advanced	LANG AND A
	A. Counter Top Heights: Where self-rimming sinks or lavatories are installed in counter tops and the fixtures are indicated to be accessible, counter top heights		Materials - Silicones, Contractors SCS1000; Tremco Incorporated; Proglaze. 2. Application: Exterior joints where both joint faces are metal, glass, plastic, or other	9.7×
	shall be verified and coordinated so that the top rim of sinks and lavatories shall not be more than 34 inches above the finished floor.	8.	non-porous material. Silicone Joint Sealant 3: Mildew-resistant, single-component, acid-curing silicone joint	
•	B. Knee Space: Vertical clearance of not less than 27 inches above the finished floor, minimum clear width of 30 inches, and minimum depth of 19 inches.		 sealant, ASTM C 920, Type S, Grade NS, Class 25, for Use NT. Products, One of the following: Dow Corning Corporation, 786 Mildew Resistant; 	
6.	Plastic Laminate Casework: Unless otherwise indicated, comply with WI's "North American Architectural Woodwork Standards," latest edition, Section 10 "Casework" for plastic laminate achieves for construction, finished, installation, and other requirements		GE Advanced Materials - Silicones; Sanitary SCS1700; Tremco Incorporated; Tremsil 200 Sanitary.	U U
	 A. Grade: Custom. B. Type of Construction: Type A. Frameless. 	9.	non-porous materials.	
	 C. Cabinet, Door, and Drawer Front Interface Style: Style 1, flush overlay. D. Laminate Cladding for Exposed Exterior and Exposed Interior Surfaces: 		C 920, Type S, Grade NS, Class 25, for Use NT. 1. Products, One of the following: BASF Building Systems, Sonolastic NP1; Pecora	
	NEMA LD 3, High-pressure decorative laminate complying with the following requirements:		Corporation, Dynatrol I-XL; Sika Corporation, Construction Products Division, Sikaflex - 1a.	
	 Horizontal Surfaces Other Than Tops: Grade HGL (1.0 mm). Postformed Surfaces: Grade HGP (1.0 mm). 		 Application: Exterior joints of hollow metal frames, exterior joints in concrete and masonry walls, and interior and exterior joints requiring painting. 	
	 Vertical Surfaces: Grade VGS (0.7 mm). Edges: PVC edge banding, 0.12 inch (3 mm) thick, matching laminate in color, pattern, and finish. 	10.	Urethane Joint Sealant 2: Single-component, pourable, traffic-grade, urethane joint sealant, ASTM C 920, Type S, Grade P, Class 25, for Use T.	
	5. Fasteners: Confirmat screws and glue Sizes: Wall units shall not exceed 3'-0" without center divider, top to bottom. With		Corporation, Urexpan NR-201; Sika Corporation Construction Products Division,	
7.	center divider, cabinet shall not exceed 4'-0" Plastic Laminate Counter Tops: Unless otherwise indicated, comply with WI's "North	11.	 Application: Interior concrete slab floor joints and exterior paving joints. Urethane Joint Sealant 3: Single-component, pourable, traffic-grade, urethane joint 	Ē
	American Architectural Woodwork Standards," latest edition, Section 11 "Countertops" for architectural plastic-laminate counter tops for construction, finishes, installation, and		sealant, ASTM C 920, Type S, Grade P, Class 25, for Use T. 1. Products, One of the following: BASF Building Systems, MasterSeal CR 100; Sika	-
	other requirements. A. Grade: Custom.		Corporation Construction Products Division, Sikadur – 58 CJR or Sika Loadflex- 524 EZ.	
	 B. High-Pressure Decorative Laminate: NEMA LD 3, Grade HGS or HGP as required for post-formed counter tops. C. Sclobb, Integral acus enlage with enurge ten. 4 index birth unlage attenuits. 	10	 Application: Interior concrete warehouse slab floor joints, for hard-wheeled fork truck traffic. 	
	 Splash. Integral cove splash with square top, 4 inches high unless otherwise indicated. D. Front Edge: Full round edge unless otherwise indicated. Build up counter top. 	12.	Grade NF. 1. Products One of the following: BASE Building Systems MasterSeal SL 1: Pecora	
	edge thickness to 1-1/2 inches at front, back, and ends with additional layers of core material laminated to top.		Corporation, AC-20+; Tremco Incorporated, Tremflex 834. 2. Application: Interior non-moving joints between gypsum board and adjacent	
	E. Core Material: Particleboard, 3/4 inch thick; counter tops for sinks to be particleboard made with exterior glue. Provide paper backing on underside of	13.	materials, trim, or similar surfaces. Acoustical Joint Sealant: Nonsag, paintable, nonstaining latex sealant complying with	
	countertop substrate. F. Cutouts: Edges of cut outs shall be sealed per WI Custom Grade requirements with a color tanget under registerit userials before side and and a second		 ASTM C 834. Products, One of the following: GE Construction Sealants, RCS20 Acoustical; Pagera Correction AC 20 ETP or AIO 240. Transmission of the following: GE Construction Sealants, RCS20 Acoustical; 	
8.	Plastic Laminate Colors: To match existing adjacent plastic laminate and as approved by Architect from manufacturer's full range of solid matte finish colors. Casework and		Acoustical Sealant; USG Corporation, SHEETROCK Acoustical Sealant.	
9.	counter tops shall be of different colors. Wood Panel Products: Provide materials that comply with requirements of referenced	14.	on Drawings. Joint Sealant Backing: Provide sealant backings of material that are nonstaining: are	
	quality standard for each type of woodwork and quality grade specified unless otherwise indicated. Provide products containing no urea formaldehyde complying with		compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience	\succ
	the following: A. Hardboard: AHA A135.4.	15.	and laboratory testing. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a	L L
	 Medium-Density Fiberboard: ANSI A208.2, Grade 130. C. Particleboard: ANSI A208.1, Industrial Grade M-2-Exterior Glue. Softward Blaucodic DOC DS 1. Medium Density Country 		surrace skin) or Type B (bicellular material with a surface skin), as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to	Z ∠
10	 B. Softwood Flywood, DOC FS I, Medium Density Overlay. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard. 	16	performance. Bond-Breaker Tape: Polvethylene tape or other plastic tape recommended by sealant	₽ .
11	 Cabinet Hardware: A. Butt Hinges: Rockford Process control 5-knuckle steel hinges made from 0.095- 		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.	VE VE
	inch thick metal, with hospital tips; ANSI/BHMA 156.9, Grade 1. B. Wire Pulls: Back mounted, brushed aluminum wire pulls, 4 inches long, 5/16 inch	17.	Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction	А Щ
	in diameter, 1-1/2 inch projection. C. Cabinet Door Locks: National C-8173-915KA-26, pin tumbler.	18.	joint-sealant-substrate tests and field tests. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of	
	 D. Cabinet Drawer Locks: National C-8178-915KA-26, pin tumbler. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with PLIMA A450 40 for PLIMA field used hardware. 		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	žz>
	with DRIVIA A 100, 18 for BRIVIA finish number indicated. Finish of cabinet hardware shall match exposed door hardware of the room in which casework is located.	19.	way, and formulated to promote optimum adhesion of sealants to joint substrates. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints	E Ó AR
	steel base. 2. Satin Stainless Steel: BHMA 630	20.	Preparation: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions. Prime joint substrates where	
12	. Install cabinets to comply with same grade as item to be installed.	21.	recommended by joint-sealant manufacturer. Installation: Comply with joint-sealant manufacturer's written installation instructions	
06	6400 FIBERGLASS REINFORCED PLASTIC PANELING		and with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.	ž Š Ž
1.	Summary: Section includes fiberglass reinforced plastic paneling.	-		
2.	Submittals: A. Product Data: Product data and manufacturer's installation instructions. Include VOC content documentation for adhesives			
	 B. Samples for Initial Selection: For plastic paneling and trim accessories. 			23-12
		DI	ISION 09 - FINISHES	DRAWING

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23-12689

929	2900 GYPSUM BOARD	8.	ln su
1. 2.	Summary: Section includes gypsum board Submittals:		th fa
	A. Product data for each type of product indicated of Include statement of VOC content for adhesives	r incorporated into the Work. 9.	Pr
	B. Samples: Three (3) 48 inch square samples for	each textured finish indicated and	
3.	on same backing indicated for Work. Gypsum Board: ASTM C 1396/C 1396M. 5/8 inch thic	k. Type X. long edges tapered.	9000
-	Moisture and mold resistant type where indicated on I	Drawings or where located on 1.	Su
4.	Interior Trim: Galvanized or aluminum-coated steel s	neet or rolled zinc, ASTM C 1047. 2.	Re
5.	 Joint Treatment Materials: Comply with ASTM C 475. A. Joint Tape: Paper. 	C 475M. 3.	Sı A.
	B. Joint Compound: For each coat use formulation	that is compatible with other	
	1. Prefilling: At open joints and damaged surfa	ace areas, use setting-type taping	В.
	compound.	tane and first coat on joints	С
	fasteners, and trim flanges, use drying-type	all-purpose compound.	
	 Fill Coat: For second coat, use drying-type, Finish Coat: For third coat, use drying-type 	all-purpose compound. 4. all-purpose compound.	Pr pr
i.	Auxiliary Materials: Provide auxiliary materials that co	mply with referenced installation 5.	So
	A. Steel Drill Screws: ASTM C 1002, unless otherw	rise indicated. Use screws	Se
	complying with ASTM C 954 for fastening panels 0.112 inch thick (20 gage structural and heavier)	to steel members from 0.033 to	sy ine
7 .	Installation: Install panels in compliance with ASTM (840 and manufacturer's written	Pa
	A. Install ceiling panels across framing to minimize	he number of abutting end joints	Pa
	and to avoid abutting end joints in central area of end joints of adjacent panels not less than one fr	each ceiling. Stagger abutting 6. aming member.	Ma CO
	B. Attachment to Steel Framing: Attach panels so I	eading edge or end of each panel	ap
	C. Wood Framing: Install gypsum panels over woo	d framing, with floating internal	CC
	corner construction. Do not attach gypsum pane dimension lumber, including floor joists and beac	ls across the flat grain of wide-	pr V(
	these members, or provide control joints to count	eract wood shrinkage.	ju
	D. Where gypsum panels are installed over structur increase the length of fasteners an amount equal	al sheathing or acoustical panels, to not less than the thickness of	ex Si
	the sheathing or panels.	wels indicated below and	A.
	according to ASTM C 840 and the Gypsum Asso	ciation:	В. С.
	 Level 1: All joints and interior angles shall h compound: surface shall be free of excess in 	ave tape embedded in joint	D. F
	ridges are acceptable. Provide Level 1 finis	h at concealed areas and areas	F.
	above ceilings. 2. Level 2: All joints and interior angles shall h	ave tape embedded in joint	G. H.
	compound and one separate coat of joint co	mpound applied over all joints,	l.
	compound; tool marks and ridges are accep	table. Provide Level 2 finish at	б. К.
	panels that are substrate for applied rigid pa than 3/8 inches.	nels having a thickness not less 9.	Pr "N
	3. Level 3: All joints and interior angles shall h	ave tape embedded in joint	Α.
	joints, angles, fastener heads, and accessor	ies; all joint compound shall be	
	smooth and free of tool marks and ridges. L otherwise indicated on Drawings.	ocations: Not used unless	Ar
	4. Level 4: All joints and interior angles shall h	ave tape embedded in joint	re
	joints, angles, fastener heads, and accessor	ies; all joint compound shall be	sc na
	smooth and free of tool marks and ridges. F	Provide Level 4 finish at panel	the
	coverings. Primer and its application to surf	aces are specified in Division 09	wi
	Section "Painting." Where suspended ceilin shall extend not less than 6 inches above th	gs are to be installed, wall finish 11. e ceiling height.	Int
3.	Texture Finishes: Prepare and apply primer to gypsu	m panels and other surfaces	SUF
	are clean, dry, and smooth.		_
		(1)	([
190	90513 RESILIENT BASE AND ACCESSORIES		
1. 2.	 Summary: Section includes resilient base and access Submittals: 	ories.	
	A. Product Data: For each type of product indicated	I, include statement of VOC	
	B. Samples for Initial Selection: For each type of pr	oduct indicated if product colors	
3.	and patterns are not pre-selected. Project Conditions: Comply with environmental and o	ther conditions in accordance with	
1	product manufacturer's written recommendations.		
ŧ.	Industries, Inc.; Burke Mercer Flooring Products Divis	on of Burke Industries, Inc.; or	(
5	Roppe Corporation, USA. Resilient Base: Products complying with ASTME 496	1: Type TS (rubber vulcepized (2)	١
<i>.</i>	thermoset); Group I (solid, homogeneous); Cove (bas	e with toe).	
	 A. Minimum Thickness: 0.125 inch. B. Height: 4 inches unless otherwise indicated on f 	Drawings.	
	C. Lengths: Cut lengths, 48 inches long or coils in r	nanufacturer's standard length.	
	E. Inside Corners: Pretormed.		
3	F. Finish, color, pattern: Match existing adjacent Resilient Accessories: Carpot adaptor alug down and	plications. Nosing for carnet	
J.	Nosing for resilient floor covering, Reducer strip for re	silient floor covering, Joiner for tile	
	and carpet, and Transition strips.		
	B. Profile and Dimensions: As indicated in Drawing	s and/or as required for project	
	conditions. C. Colors and Patterns: As selected by Architect fro	om full range of industry colors to	
	match existing adjacent material.		
006	DERIE CARRET		
190			
	Summary: Section includes sheet carpet. Submittals:		
1.	A Product data for each type of product indicated of	r incorporated into the Work.	
1. 2.	A. Floudel data for each type of product indicated of		
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 	and sealants. ne of the following:	1
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products 	and sealants. ne of the following: Green Label Plus" program.	
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depart 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard	
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic E Using Small-Scale Environmental Chamber 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources	
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic E Using Small-Scale Environmental Chamber: 3. NSF/ANSI 140 at the Gold level or higher. 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources s."	
1. 2.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic E Using Small-Scale Environmental Chamber: 3. NSF/ANSI 140 at the Gold level or higher. 4. Scientific Certifications Systems Sustainable C. Samples for Verification: Minimum 12 inch square 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources s." e Choice. re samples for each carpet type.	
1. 2. 3.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic E Using Small-Scale Environmental Chamber: 3. NSF/ANSI 140 at the Gold level or higher. 4. Scientific Certifications Systems Sustainable C. Samples for Verification: Minimum 12 inch squa Carpet: Provide carpet manufacturer and color as inconserve Materials. 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources s." P Choice. re samples for each carpet type. icated on Drawings.	
↓. 2. 3. ↓.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic E Using Small-Scale Environmental Chamber: 3. NSF/ANSI 140 at the Gold level or higher. 4. Scientific Certifications Systems Sustainable C. Samples for Verification: Minimum 12 inch squa Carpet: Provide carpet manufacturer and color as inc Accessory Materials: A. Trowelable Leveling and Patching Compounds: 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources S." P Choice. re samples for each carpet type. icated on Drawings. Latex-modified, hydraulic-cement-	
1. 2. 3.	 A. Product data for each type of product indicated of Include statement of VOC content for adhesives B. Documentation indicating carpet complies with o 1. Testing and product requirements of CRI's " 2. Carpet and installation adhesives products of product requirements of the California Depa Practice for the Testing of Volatile Organic B Using Small-Scale Environmental Chamber: 3. NSF/ANSI 140 at the Gold level or higher. 4. Scientific Certifications Systems Sustainable C. Samples for Verification: Minimum 12 inch squa Carpet: Provide carpet manufacturer and color as inc Accessory Materials: A. Trowelable Leveling and Patching Compounds: based formulation provided or recommended by 	and sealants. ne of the following: Green Label Plus" program. comply with the testing and rtment of Public Health' "Standard Emissions from Various Sources s." Choice. re samples for each carpet type. icated on Drawings. Latex-modified, hydraulic-cement- carpet manufacturer. Instaining two to suit products	

installed carpet and is recommended or provided by carpet manufacturer.

requirements including moisture vapor emissions and alkalinity level (pH). Preparation: Comply with CRI's "CRI Carpet Installation Standard" and with carpet

manufacturer's written instructions for preparing substrates. Broom and vacuum clean

Examination: Examine substrates for compliance with manufacturer's written

according to 40 CFR 59, Subpart D (EPA Method 24).

substrates to be covered immediately before installing carpet.

Adhesives shall have a VOC content of not more than 50 g/L when calculated

	7.	Installation:	Comply	with CRI's "CRI	Carpet Install	lation Stand	dard" and carpet	ЦR	รเ	JRFACE		PA	INT SYSTEM	COATS	MANUFAC	TURER'S DESIGNATION
	8.	Immediately surface blen	after ins	stalling carpet, re	emove excess ommended by	adhesive, adhesive,	seam sealer, and other nufacturer; remove yarns	6						Second Coat	SWLL30	SPARTAWALL Eggshell
	_	that protrude face-beater	e from ca element	arpet surface; an	id vacuum car	pet using c	ommercial machine with							Third Coat	SWLL30	SPARTAWALL Eggshell
	9. 099	Protect insta	illed carj G	pet to comply wit	th CRI's "CRI (Carpet Inst	allation Standard."	(2	1)	Galvar Metal, Alumir	nized / num	P15.A	Flat Latex	First Coat Second Coat Third Coat	ULGM00 SWLL10 SWLL10	ULTRASHIELD Galvanized Metal SPARTAWALL Flat SPARTAWALL Flat
	1. 2. 3.	Summary: S refinishing. Related Sec Submittals:	Section i tions: D	ncludes surface Division 02 throug	preparation an gh 33 Sections	nd field pair s for factory	nting, staining or and shop prime finishes	5.				P15.B	Semi-Gloss Latex	First Coat Second Coat Third Coat	ULGM00 SWLL50 SWLL50	ULTRASHIELD Galvanized Metal SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss
		 A. Product preparation product B. Sample 	t Data: I ition req s. s for Init	For each type of uirements, applie tial Selection: Fo	product incorp cation instruction or each type o	porated into ions, and V of product in	o the Work. Include OC content for paint idicated if product colors					P15.C	Eggshell Latex	First Coat Second Coat Third Coat	ULGM00 SWLL30	ULTRASHIELD Galvanized Metal SPARTAWALL Eggshell
	4.	and pat C. Sample of topco Project Cond	terns ar s for Ve bat. ditions:	e not pre-selecte rification: For ea	ed. ach type of pai vironmental an	int system and other cor	and each color and gloss nditions in accordance wi	ith	5)	Plaste	r, l	P16.A	Flat Latex	First Coat Second Coat	SWLL30 ESSL00 SWLL10	EFF-STOP Select SPARTAWALL Flat
	5.	Scheduled F listed in the Section. Ma	Paint Sys Interior a Inufactur	and Exterior Pair rer and product of purpose of estab	nmendations. paint systems nt Schedules a designations ir disbing minim	as indicate at the end o ndicated in	d on the Drawings and f this Specification the scheduled paint nents: unless otherwise			Brick		P16.B	Semi-Gloss Latex	First Coat Second Coat	ESSLOO SWLL50 SWLL50	EFF-STOP Select SPARTAWALL Semi-Glos: SPARTAWALL Semi-Glos:
Bit Model (Langeland) in "House models for all with own point global system (Langeland) in "House models of all systems (Langeland) in the context (Langeland) in thecontext (Langeland) in the context (Langeland) in the co		indicated, pa Paints; Subj comparable Paints, or Tr	aint prod ect to co products nemec.	ucts are based o ompliance with re s by, Benjamin N	on products m equirements, p Aoore, Fuller C	anufacture provide the D'Brien Pair	d by Dunn Edwards named products or nts, Sherwin Williams					P16.C	Eggshell Latex	First Coat Second Coat Third Coat	ESSLOO SWLL30SW LL30	EFF-STOP Select SPARTAWALL Eggshell SPARTAWALL Eggshell
	6. 7.	Material Cor compatible v application a Material Qua	npatibilit vith one is demo ality: Pro s specifi	ty: Provide mate another and sub nstrated by man ovide manufactu	erials for use w ostrates indica ufacturer, bas rer's best-qua ial containers	vithin each ted, under ed on testir lity paint man not display	paint system that are conditions of service and ng and field experience. aterial of the various ing manufacturer's	(6	5)	Concre Block	ete	P17.A	Flat latex	First Coat Second Coat Third Coat	SBSL00 SWLL10 SWLL10	SMOOTH BLOC-FIL Selec SPARTAWALL Flat SPARTAWALL Flat
Burgen D(EN) Monthal (4): Disk Provide (4): <thdisk (4):<="" provide="" th=""> Disk Provide (4):<td>8.</td><td>product iden VOC Conter jurisdiction. exclusive of</td><td>tificatior nt: Provi For pair colorant</td><td>will not be acce ide materials that its and coatings its added to a tint</td><td>applied at Pro</td><td>VOC limits oject site, th</td><td>of authorities having le following VOC limits, locording to 40 CFR 59,</td><td></td><td></td><td></td><td></td><td>P17.B</td><td>Semi-Gloss Latex</td><td>First Coat Second Coat Third Coat</td><td>SBSLOO SWLL50 SWLL50</td><td>SMOOTH BLOC-FIL Select SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss</td></thdisk>	8.	product iden VOC Conter jurisdiction. exclusive of	tificatior nt: Provi For pair colorant	will not be acce ide materials that its and coatings its added to a tint	applied at Pro	VOC limits oject site, th	of authorities having le following VOC limits, locording to 40 CFR 59,					P17.B	Semi-Gloss Latex	First Coat Second Coat Third Coat	SBSLOO SWLL50 SWLL50	SMOOTH BLOC-FIL Select SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss
		Subpart D (E A. Flat Pa B. Nonflat C. Nonflat	EPA Met ints and Paints a High GI	thod 24). Coatings: 50 g/ and Coatings: 10 oss Paints and 0	L. 00 g/L. Coatings: 150	g/L.						P17.C	Eggshell Latex	First Coat Second Coat Third Coat	SBSLOO SWLL30SW LL30	SMOOTH BLOC-FIL Selec SPARTAWALL Eggshell SPARTAWALL Eggshell
1. Forme The Control The Contro The Control The Contr		D. Dry-Fog E. Primers F. Anticom G. Zinc-Ri H. Pretrea	g Coatin s, Sealer rosive ar ch Indus tment W	gs: 150 g/L. s, and Undercoand Antirust Paint Strial Maintenanc (ash Primers: 47	aters: 100 g/L s Applied to F e Primers: 34	errous Met l0 g/L.	als: 250 g/L.	()	7)	Acoust Ceiling Plaste	tical ; Tile/ r	P18.A	Latex	One Coat to Cover	W615	ACOUSTIKOTE
"Mol Numma" applicable to advance subscription Control Contro Control Control <td>9.</td> <td>I. Floor C J. Shellac K. Shellac Preparation:</td> <td>oatings: s, Clear s, Pigme Compl</td> <td>100 g/L. : 730 g/L. ented: 550 g/L. y with manufactu</td> <td>urer's written ir</td> <td>nstructions</td> <td>and recommendations in</td> <td>1</td> <td>3)</td> <td>Ceram Tile lik Finishe</td> <td>ic e es</td> <td>P19.A</td> <td></td> <td>First Coat Second Coat Third Coat</td> <td>UGPR00 ENPX50 ENPX50</td> <td>ULTRA-GRIP Premium ENDURACAT ENDURACAT</td>	9.	I. Floor C J. Shellac K. Shellac Preparation:	oatings: s, Clear s, Pigme Compl	100 g/L. : 730 g/L. ented: 550 g/L. y with manufactu	urer's written ir	nstructions	and recommendations in	1	3)	Ceram Tile lik Finishe	ic e es	P19.A		First Coat Second Coat Third Coat	UGPR00 ENPX50 ENPX50	ULTRA-GRIP Premium ENDURACAT ENDURACAT
10. Application: Addy splitts according to management inductions and measurement inductions and measurement inductions and measurement inductions accord where a splitter induction accord where accord wher		"MPI Manua A. Remove remova becaus	l" applic e hardw ble and e of size	able to substrate are, covers, plate are not to be pa or weight of iter	es and paint sy es, and similar inted. If remo m, provide sur	ystems indi r items alre val is impra face-applie	cated. ady in place that are actical or impossible d protection before	(9	9)	Ceiling Wall w misc. F & Con Expose	; and // Pipes duit ed,	P20.A		One Coat	AQUA10	AQUAFALL Flat White or Black
Unit one surface the same as anity adjacent materials or surfaces within or surfaces Unit of the surface of the surface surfaces within or finity, the Activity Unit or surfaces PART Surface Manual Activity Unit or Surfaces PART Surface Manual Activity Manual Activi	10.	Application: recommenda schedules in natural. If se	Apply p ations in dicate the	paints according "MPI Manual." hat a surface or is s do not specifica	to manufactur Paint/stain ex material is not ally mention ar	er's written posed surfa to be paint n item or su	instructions and aces, except where ed/stained or is to remai urface to be painted, pain	n It		Trusse Beams w/Spra Fire	s & ay-on					
Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Finished Symbols. Vieland From Samching County and Fining County and Finished Symbols.		the item or s schedules in	urface t dicate c	he same as simi olors. If the sch	lar adjacent m edules do not	aterials or indicate co	surfaces whether or not lor or finish, the Architec	t E	Exterio	or Paint	Scheo	dule:				
SUBACC PART SYSTEM COATS MANUFACTUREY SUSCIMUTION PART SYSTEM COATS MANUFACTUREY SUSCIMUTION 11) Ingenial P12.A Ref. Latin Proc. Call SUSSIANCE	11.	will select fro Interior Pain	om stand t Schedi	dard colors and f ule:	inishes availa	ble.		ШE	SUDE		_	DAINT	CVCTEM	COATS	MANUFACT	
Symuth Investing P1A Nat. Laters Synta Goat WRLD <		SURFACE	PA	INT SYSTEM	COATS	MANUF	ACTURER'S DESIGNATION	(1)	Black	ACE		Flat /		Eirst Coat	ESSLOO	EEE STOP Select
Norm Number Number <td>(1)</td> <td>Gypsum Drywall</td> <td>P12.A</td> <td>Flat, Latex</td> <td>First Coat Second Coat</td> <td>VNSL00 SWLL10</td> <td>VINYLASTIC Select SPARTAWALL Flat</td> <td>(1)</td> <td>Cond</td> <td>crete</td> <td>P50.A</td> <td></td> <td>ACTYNC</td> <td>Second Coat Third Coat</td> <td>SSHL10 SSHL10</td> <td>SPARTASHIELD Flat</td>	(1)	Gypsum Drywall	P12.A	Flat, Latex	First Coat Second Coat	VNSL00 SWLL10	VINYLASTIC Select SPARTAWALL Flat	(1)	Cond	crete	P50.A		ACTYNC	Second Coat Third Coat	SSHL10 SSHL10	SPARTASHIELD Flat
Number P12.0 Eagle Hell Furth First Codet Intel Code VMPUSPTC Select WMPUSPTC Selec			P12.B	Semi-Gloss Latex	First Coat Second Coat Third Coat	VNSLOO SWLL50 SWLL50	VINYLASTIC Select SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss			_	P50.B	Low S Acryli	heen Enamel c	First Coat Second Coat Third Coat	ESSLOO SSHL3O SSHL3O	EFF-STOP Select SPARTASHIELD Eggshel SPARTASHIELD Eggshel
Texturel P12.D Rat One Coat WHD SUPER-WALL RTU (2) Work P13.A Semi-Gloss Later First Coat SUPER-WALL RTU P13.A Semi-Gloss Later First Coat SUPER-WALL Semi-Gloss (2) Work P13.B Semi-Gloss Later First Coat SUPER-WALL Semi-Gloss First Coat SUPER-WALL Semi-G			P12.C	Eggshell Enamel Latex	First Coat Second Coat Third Coat	VNSLOO SWLL30 SWLL30	VINYLASTIC Select SPARTAWALL Eggshell SPARTAWALL Eggshell				P50.C	Elasto 5 yr. l	omeric (Smooth) abor warranty	First Coat Second Coat Third Coat (Spray	ESSLOO EDLV10EDLV10	EFF-STOP Select ENDURALASTIC 5 ENDURALASTIC 5
No. Number Subject Sub	(2)	(Textured) Wood	P12.D P13.A	Flat Semi-Gloss Latex	One Coat First Coat Second Coat	SWLR10 DCPR00 SWLL50	SUPER-WALL RTU DECOPRIME Premium SPARTAWALL Semi-Gloss			-	P50.D	Elasto Aggre 5 yr. 1	omeric (Medium gate) abor warranty	Application) First Coat Second Coat Third Coat	ESSLOO EDLV10EDLV10	EFF-STOP Select ENDURALASTIC 5 ENDURALASTIC 5
Interview Second Catt SVIL30 SPARTAWALE Eggine P13.C Lacquer Vebet Sult30 SPARTAWALE Eggine P13.C Lacquer Vebet Sint Old Matters Stain P13.C Lacquer Semi- Gloss Stain 27550 Staindig Souler P13.D Lacquer Semi- Gloss Stain 27550 Old Matters Stain P13.C Lacquer Semi- Gloss Stain 27550 Velocitation Stain P13.C Lacquer Semi- Gloss Old Matters Stain P13.E Lacquer Semi- Gloss Stain 27550 Velocitation Stain P13.C Stain P13.C Lacquer Gloss Stain Stain Stain Stain P13.C Lacquer Gloss Stain Stain<			P13.B	Eggshell Enamel,	Third Coat First Coat	SWLL50	SPARTAWALL Semi-Gloss DECOPRIME Premium	(2)	Cono Bloc Mas	crete k onry	P51.A	, Flat, a	acrylic emulsion	First Coat Second Coat Third Coat	SBPROO	SMOOTH BLOCFIL Premium SPARTASHIELD Flat
No. No. Second coat 27520 High Solids VelveL Lacquer High Solids VelveL Lacquer Filds Solids VelveL Lacquer Filds Solids VelveL Lacquer Filds Solids VelveL Lacquer Filds Solids Solids VelveL Lacquer Filds Solids Solids VelveL Lacquer Filds Solids Solids Cacter Filds Solids Solid Solids Lacquer Filds Solids Solid Solid VelveL Lacquer Filds Solids Solid Solid Solid Solid VelveL Lacquer Filds Solids Solid Solid Solid Solid Cacter Filds Solid Solid Solid Cacter Filds Solid Solid Solid Cacter Filds Solid Solid Solid Solid Cacter Filds Solid Cact			P13.C	Latex Lacquer Velvet	Second Coat Third Coat Stain First Coat	SWLL30 SWLL30	SPARTAWALL Eggshell SPARTAWALL Eggshell Old Masters Stain Sanding Sealer			,	P51.B	Elasto Yr. lat	omeric Smooth 5 por warranty	First Coat Second Coat	ESSL00 EDLV10EDLV10	EFF-STOP Select ENDURALASTIC 5
Image: And Section Content Print Print Content Print Content Print Content Print Content Print Prin			P13.D	Lacquer Semi-	Second Coat Third Coat Stain	27520 27520	High Solids Velvet Lacquer High Solids Velvet Lacquer Old Masters Stain			-	P51.C	Elasto Aggre	omeric (Medium gate) 5 yr labor	First Coat Second Coat	ESSL00 EDLV10EDLV10	EFF-STOP Select ENDURALASTIC 5
 International international internatione international international international international inte			P13 F	Gloss	First Coat Second Coat Third Coat	275SS 27540 27540	Sanding sealer High Solids S.G. Lacquer High Solids S.G. Lacquer			-	P51.D	Elasto Aggre	omeric (Coarse gate)	First Coat Second Coat	ESSLOO EDLV10EDLV10	EFF-STOP Select ENDURALASTIC 5 ENDURALASTIC 5
P13.F Varnish Velvet Stain First Coat Second Coat Z002 Z002 Old Masters Stain Varathane Diamond Varathane Diamond Varat			1 1012		First Coat Second Coat Third Coat	275SS 27590 27590	Sanding Sealer High Solids Gloss Lacquer High Solids Gloss Lacquer			-	P51.E	Clear 10-yr	Water Repellent Warranty	1 Coat		Rain Guard Micro-Seal
P13.G Varnish Semi- Gloss Stain First Coat Scool Coat Stain First Coat Scool Coat Old Masters Stain Varathane Diamond Varathane Diamond Varathane Diamond Varathane Diamond Varathane Diamond P13.G Nor Coat Scool Coat Earlie Coat Scool Coat EZ-PRIME Premium SPARTASHIELD Semi- Gloss P13.G First Coat Second Coat First Coat Second Coat First Coat Second Coat Water base sealer as recommended by manufacturer ALBI CLAD FP First Coat Second Coat EZ-PRIME Premium SPARTASHIELD Semi- Gloss (3) Ferrous Metal P14.A Flat Latex First Coat Second Coat BRPR00 SWLL10 BLOC-RUST Premium SPARTAWALL Flat P14.R Semi-Gloss Latex First Coat Second Coat SPARTAWALL Flat BLOC-RUST Premium SPARTAWALL Semi-Gloss BLOC-RUST Premium SPARTAWALL Semi-Gloss Flat, Stain Water Base Second Coat First Coat Second Coat 1300 CABOT Semi- Transparent Acrylic Stain (1) P14.R Semi-Gloss Latex First Coat Second Coat BRPR00 SWLL50 BLOC-RUST Premium SPARTAWALL Semi-Gloss BLOC-RUST Premium (2) P14.C Eggshell Latex First Coat Second Coat BRPR00 BLOC-RUST Premium			P13.F	Varnish Velvet	Stain First Coat Second Coat Third Coat	2002 2002 2002	Old Masters Stain Varathane Diamond Varathane Diamond Varathane Diamond	(3)	Woo	od	P53.A	Flat A	crylic Emulsion	First Coat Second Coat Third Coat	EZPROO SSHL10 SSHL10	EZ-PRIME Premium SPARTASHIELD Flat SPARTASHIELD Flat
P13.1 Fire Retardant Intumescent Paint (Sheen as selected by Architect) First Coat Second Coat Third Coat Water base sealer as recommended by manufacturer ALBI CLAD FP Mater base sealer as recommended by manufacturer ALBI CLAD FP Image: Classical cla			P13.G	Varnish Semi- Gloss	Stain First Coat Second Coat Third Coat	2001 2001 2001	Old Masters Stain Varathane Diamond Varathane Diamond Varathane Diamond			-	P53.B	Semi-	Gloss Acrylic	First Coat Second Coat Third Coat	EZPROO SSHL50 SSHL50	EZ-PRIME Premium SPARTASHIELD Semi- Gloss
Number Numer Number Number			P13.I	Fire Retardant Intumescent Paint (Sheen as selected by	First Coat Second Coat Third Coat		Water base sealer as recommended by manufacturer ALBI CLAD FP			-	P53.C	Low S Acryli	heen Enamel c	First Coat Second Coat	EZSLO0 SSHL30	SPARTASHIELD Semi- Gloss EZ-PRIME Select SPARTASHIELD Eggshel
P14.BSemi-Gloss LatexFirst Coat Second Coat Third CoatBRPR00 SWLL50 SWLL50 SWLL50BLOC-RUST Premium SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss1300Stain CABOT Semi- Transparent Acrylic StainP14.CEggshell LatexFirst CoatBRPR00BLOC-RUST Premium SPARTAWALL Semi-Gloss SPARTAWALL Semi-GlossBLOC-RUST Premium SPARTAWALL Semi-Gloss SPARTAWALL Semi-GlossImage: Complex compl	(3)	Ferrous Metal	P14.A	Flat Latex	First Coat Second Coat Third Coat	BRPR00 SWLL10 SWLL10	BLOC-RUST Premium SPARTAWALL Flat SPARTAWALL Flat				P53.D	Flat, S Semi-	Stain Water Base Transparent	Third Coat First Coat Second Coat	SSHL30 1300	SPARTASHIELD Eggshel CABOT Semi- Transparent Acrylic
P14.C Eggshell Latex First Coat BRPR00 BLOC-RUST Premium			P14.B	Semi-Gloss Latex	First Coat	BRPROO	BLOC-RUST Premium								1300	Stain CABOT Semi-
					Second Coat Third Coat	SWLL50 SWLL50	SPARTAWALL Semi-Gloss SPARTAWALL Semi-Gloss									Transparent Acrylic Stain

5.

6.

Second Coat Stain 1800 Stain P53.F Varnish Clear Gloss First Coat 18040 Second Coat 18040 Third Coat 18040 CABOT Spar Varnish P53.G Stain and Varnish CABOT Semi-First Coat 1300 Second Coat Third Coat 18040 Stain 18040 CABOT Spar Varnish (4) Ferrous P55.D Gloss, First Coat EG2000 US Coatings Metal High Perform. Second Coat UG3000 EPOXYGRIP Third Coat UG3000 HS VOC HS VOC P55.E Semi-Gloss First Coat EG2000 US Coatings High Perform. EPOXYGRIP Second Coat UG3000 HS VOC Third Coat UG3000 HS VOC (5) Galv. P56.A Gloss First Coat ULGM00 ULTRASHIELD Metal & Second Coat Third Coat Aluminum SSHL60 SPARTASHIELD Gloss SSHL60 P56.B Flat, Acrylic First Coat ULGM00 ULTRASHIELD Second Coat Third Coat SSHL10 SSHL10 SPARTASHIELD Flat ULTRASHIELD P56.C Semi-Gloss Enamel First Coat ULGM00 Second Coat Acrylic Third Coat SPARTASHIELD Semi-SSHL50 SSHL50 Gloss Gloss P56.D Gloss First Coat ULGM00 ULTRASHIELD Second Coat Third Coat ASHL70 Gloss ASHL70 ARISTOSHIELD High-Gloss P56.E Semi Gloss First Coat ULGM00 ULTRASHIELD Second Coat Third Coat ASHL50 ASHL50 ARISTOSHIELD Semi-Gloss P57.C Gloss First Coat (6) Galv. EG2300 US Coatings High Perform. Metal & Second Coat UG3000 EPOXYGRIP Aluminum Third Coat US Coatings UREGRIP UG3000 HS VOC HS VOC High Perf. P57.D Semi-Gloss First Coat EG2300 US Coatings High Perform. EPOXYGRIP Second Coat UG3000 HS VOC Third Coat UG3000 HS VOC

DIVISION 10 - SPECIALTIES

NOT USED

SURFACE

PAINT SYSTEM

P53.E Flat, Stain Opaque

COATS

1800

First Coat

DIVISION 11 - EQUIPMENT

113100 RESIDENTIAL APPLIANCES

- 1. Summary: Section includes Contractor installation of Owner and Contractor furnished
- residential appliances as indicated on Drawings. 2. Install appliances in accordance with manufacturer's written instructions.

DIVISION 12 - FURNISHINGS

NOT USED

DIVISION 21 – FIRE PROTECTION

NOT USED

DIVISION 22 - PLUMBING

220000 PLUMBING

1. Summary: Section includes building plumbing piping and fixtures as indicated on the Plumbing Drawings.

DIVISION 23 – MECHANICAL/HVAC

230000 MECHANICAL/HVAC

1. Summary: Section includes building mechanical/HVAC systems as indicated on the Mechanical Drawings.

DIVISION 26 - ELECTRICAL

260000 ELECTRICAL

1. Summary: Section includes power distribution, lighting, and controls as indicated on the Electrical Drawings.

DIVISION 31 - EARTHWORK

NOT USED

SPECIFICATIONS

MANUFACTURER'S DESIGNATION

CABOT Solid Acrylic CABOT Solid Acrylic

CABOT Spar Varnish CABOT Spar Varnish

Transparent Acrylic

CABOT Spar Varnish

US Coatings UREGRIP US Coatings UREGRIP

US Coatings UREGRIP

US Coatings UREGRIP

Galvanized Metal SPARTASHIELD Gloss

Galvanized Metal SPARTASHIELD Flat

Galvanized Metal

SPARTASHIELD Semi-

Galvanized Metal ARISTOSHIELD High-

Galvanized Metal ARISTOSHIELD Semi-

US Coatings UREGRIP

US Coatings UREGRIP US Coatings UREGRIP

DIVISION 32 – SITE IMPROVEMENTS

NOT USED

DIVISION 33 – UTILITIES NOT USED

> paris si i de proces U Z ш -



ABBREVIATIONS

ABBREVIATIONS: WHEN USED IN THESE DOCUMENTS SHALL CONFORM TO THE FOLLOWING LIST UNLESS OTHERWISE NOTED. DRAWINGS OF OTHER DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) MAY CONTAIN SPECIFIC ABBREVIATIONS, REFERENCES, AND LEGENDS WITH INTERPRETATION INTENDED ONLY FOR THOSE DISCIPLINES.

WEIGHT WELDED WIRE FABRIC

&	AND	FA	FIRE ALARM	осс	OCCUPANT LOAD
L	ANGLE	F.B.		0.C.	
ି ଜ	CENTERLINE	Г. Б .О.	OWNER/OTHERS	U.D.	DIMENSION
Ø	DIAMETER OR ROUND	F.D.		OFF.	OFFICE
⊥ #	PERPENDICULAR POUND OR NUMBER	F.D.C.	FIRE DEPARTMENT CONNECTION	OFCI	OWNER FURNISHED, CONTR. INSTALLED
(E)	EXISTING	FDN.	FOUNDATION	OFOI	OWNER FURNISHED,
(N)	NEW	F.E.	FIRE EXTINGUISHER	OFRD	OWNER INSTALLED
		1.2.0.	CABINET		DRAIN
		F.F.		O.H.	
ABV. A/C	ABOVE AIR CONDITIONING	F.FLR. F.G.	FINISH FLOOR FINISH GRADE	0.n.c.D.	DOOR
ACP	ASPHALT CONCRETE	F.H.	FIRE HYDRANT	O.H.M.S.	OVAL HEAD MACH.
ACST.	PAVING ACOUSTICAL	FHMS	FLAT HEAD MACHINE SCREW	O.H.W.S.	OVAL HEAD WOOD
A.C.T.	ACOUSTIC CEILING TILE	FHWS	FLAT HEAD WOOD SCREW		SCREW
A.B.	ANCHOR BOLT	FIN.	FINISH	OPNG. OPP.	OPENING OPPOSITE
ADA	AMERICANS WITH	FIXT.	FIXTURE	0/	OVER
ADAAG	DISABILITIES ACT ADA ACCESSIBLE	FLR. FLASH	FLOOR(ING) FLASHING	ORIG. OVHD	ORIGINAL OVER HEAD
, 12, 11, 10	GUIDELINES	FLUOR.	FLUORESCENT	OWJ	OPEN WEB JOIST
ADDL.		F.O.	FACE OF		
ADJ. ADJC.	ADJACENT	F.O.C. F.O.F.	FACE OF CONCRETE FACE OF FINISH	P.B.N.	PLYWOOD BOUNDAR'
A.F.F.	ABOVE FINISH FLOOR	F.O.M.	FACE OF MASONRY	P.E.N.	NAILING PLYWOOD EDGE
A.F.G.	ABOVE FINISH GRADE	F.O.S.	FACE OF STUD		NAILING
AGG. ALT.	ALTERNATE	FRP	FORCED PANELING	P.E.S.	PLYWOOD EDGE SCREWS
ALUM.	ALUMINUM	F.S.	FIRE SPRINKLER(S)	P.I.V.	POST INDICATOR
ANOD. A.P.C.	ANODIZED ACOUSTIC PANEL CEILING	F.S.H.	FIRE SPRINKLER HEAD	P.LAM.	VALVE PLASTIC LAMINATE
		FT.	FOOT/FEET	P.L.	PROPERTY LINE
APPROX.		FURR.	FURRING FUTURE	PL. PLAS	PLATE PLASTER
AV	AUDIO VISUAL			PLYWD.	PLYWOOD
		GA.	GAUGE	PR. PSF	PAIR POLINDS PER
BD.	BOARD	GALV.	GALVANIZED	101	SQUARE FOOT
BEL. B.E.N	BELOW BOUNDARY EDGE NAILING	G.B.	GRAB BAR	PSI	POUNDS PER
_		GEN.	GENERAL	PT.	OQUARE INCH POINT
BLDG. BLK	BUILDING BLOCK	G.I.	GALVANIZED IRON	P.T.D.	PAPER TOWEL DISP.
BLKG.	BLOCKING	GL. GND.	GROUND	r.ı.u.f.	DOUGLAS FIR
BM.	BEAM	GR.	GRADE	PTN.	PARTITION
BOT. BRG.	BEARING	GYP.	GYPSUM	PVC	POLYVINYL CHLORIDE
BTWN.	BETWEEN			R.	RADIUS
в.U.R.	BUIL I-UP ROOF(ING)	H.B.	HOSE BIBB	R	THERMAL
<u> </u>		HBD.	HARDBOARD	R.A.	RETURN AIR
C&G CAB.	CORB AND GUITER CABINET	H.C.	HOLLOW CORE	R.D.	ROOF DRAIN
C.B.	CARRIAGE BOLT	HD. H.D.	HEAD HEAVY DUTY	REFL. REFR.	REFLECTED
CEM. CER	CEMENT CERAMIC	HDR.	HEADER	REINF.	REINFORCED
C.F.	CUBIC FOOT	HDW. HDWD.	HARDWORD	REM.	REMOVE
C.I.	CAST IRON	H.M.	HOLLOW METAL	RESIL.	RESILIENT
C.L.	CENTER LINE	H.M.D.	HOLLOW METAL DOOR	R.H. R.H.W.S.	RIGHT HAND ROUND HEAD WOOD
C.L.F.		H.M.F.	HOLLOW METAL FRAME		SCREW
CLO.	CLOSET	HORIZ.	HORIZONTAL	RM.	ROOM ROUGH OPENING
CLR.	CLEAR CLASS BOOM	HR.	HOUR	R.O.W.	RIGHT-OF-WAY
CMU	CONCRETE MASONRY UNIT	HT. HVAC	HEIGHT HEATING/VENTIL-	RWD.	REDWOOD
CTR	COUNTER		ATING/AIR COND-		
COL.	COLUMN	HWY	ITIONING HIGH WAY	S	SOUTH
CONC.	CONCRETE			S.A. S.C.	SUPPLY AIR SOLID CORE
CONN. CONSTR.	CONNECTION			SCH.	SCHEDULE
CONT.	CONTINUOUS	I.D.	INSIDE DIAMETER/ DIMENSION	S.D.	STORM DRAIN
CONTR.	CONTRACTOR	INFO	INFORMATION	SECT.	SQUARE FEET/FOOT
CF1. CRC	COLD ROLLED CHANNEL	INSUL.		SHR.	SHOWER
		INT.	INTERIOR	SHTG. SIM.	SHEATHING SIMILAR
CTR. CTSK	CENTER COUNTERSUNK	JAN.	JANITOR	S.M.	SHEET METAL
C.Y.	CUBIC YARD	JT.	JOINT	S.O.G. SPEC(S).	SLAB-ON-GRADE SPECIFICATION(S)
		KIT.	KITCHEN	SPKR.	SPEAKER
D.A.	DISABLED ACCESS	K.O.	KNOCK OUT	SQ.	SQUARE STAINI ESS STEEI
DBL.	DOUBLE DEMOLISH/	K.O.P.	KNOCK OUT PANEL	STA.	STATION
DEMO	DEMOLITION			STC	SOUND TRANS-
D.F.	DRINKING FOUNTAIN	LAB. LAM.	LABORATORY	STD.	STANDARD
DET	OR DOUGLAS FIR	LAV.	LAVATORY	STL.	STEEL
DIAG.	DIAGONAL	LB(S)	POUND (POUNDS)	STOR. STRUCT.	STORAGE
DIA. DIM		L.F.	LINEAL FOOT	SUSP.	SUSPENDED
DISP.	DISPENSER	L.H.		S.W.	SIDE WALK
DN.	DOWN	LIB. LT.	LIGHT	01111.	O HAMME HAIOAE
DF. DS	DOWN SPOUT	LT.WT.	LIGHT WEIGHT	T.C.	TOP OF CONCRETE
DWG.(S)				TEMP.	TEMPORARY
	2.5.00 - 11	MACH.	MACHINE	T&G	I EIVIPERED
_		MAINT.		T	GROOVE
E EA	EAST EACH	M.B.	MACHINE BOLT	THD.	I HKEADED THICK
E.F.	EXHAUST FAN	M.B.M.	METAL BUILDING MANUFACTURER	Т.І.	TENANT
EGR.	ENGINEER	MECH.	MECHANICAL		IMPROVEMENT
EL.	ELEVATION	MED.	MEDIUM MEMBRANE	T.O.S.	TOP OF STEEL
ELEC.		MET.	METAL	T.P.	TOP OF PAVEMENT
ELEV. EMB.	ELEVATOR	MFR.		TEL.	TELEPHONE
EMER.	EMERGENCY	MH. MKR.	MANHOLE	ТТВ	TELEPHONE TERM-
E.N. ENCL.	ENCLOSURE	MIN.		ти	TELEVISION
EQ.		MISC. M.O.	MISCELLANEOUS MASONRY OPENING	TYP.	TYPICAL
EVAP.	EVAPORATIVE	MTD.	MOUNTED		
E.W. EXH	EACH WAY EXHAUST	м ſG. MULL.	MEETING MULLION	U.G. U.N.O.	UNDERGROUND
EXST.	EXISTING				OTHERWISE
EXP.	EXPANSION	N	NORTH	UR.	URINAL
EAL.	EATERIUK	N.I.C.	NOT IN CONTRACT		
		NO.		VCT	VINYL COMPOSITION
		N.R.C.	NOISE REDUCTION	VERT.	VERTICAL
		NTO		VTR	
		N. I.S.	NUT TO SCALE	VVVC	
0000		I		1	-
				w	WEST OR
CEC			<u>-</u>	14//	WIDTH/WIDE
CFC	CALIFORNIA FIRE COL)E	-	W/ W.C.	WITH WATER CLOSFT
CMC	CALIFORNIA MECHAN	ICAL COD	E	W.CH.	WHEEL CHAIR
CPC		G CODE	TECT	WD.	
ICB0	INTERNATIONAL CON		OF BUILDING	WF	WIDE FLANGE
	OFFICIALS		-	W.H.	WATER HEATER
NSF	NATIONAL SANITATIO		ATION	W/O W P	
NFPA NFC	NATIONAL FIRE PROT		SOUIATION	W.S.	WOOD SCREW
NEC	NATIONAL ELECTRICA			WT.	WEIGHT
				WWF	WELDED WIRE

	TYPICAL	SYMBOLS
SS	<u>SYMBOLS</u>	
	ي (ANGLE
	φ.	
OCCUPANT LOAD	ψ ι I	
ON CENTER OUTSIDE DIAMETER/	⊢ ⊢ I	PERPENDICULAR
DIMENSION OFFICE	& /	AND
OWNER FURNISHED, CONTR. INSTALLED	@ /	AT
OWNER FURNISHED, OWNER INSTALLED	¢ (CENTER LINE
OVER FLOW ROOF DRAIN	# F	POUND OR NUMBER
OPPOSITE HAND OVER HEAD COILING	_	
DOOR OVAL HEAD MACH.		
SCREW OVAL HEAD WOOD		STATION LINE
SCREW OPENING		
OPPOSITE OVER		
ORIGINAL OVER HEAD		
OPEN WEB JOIST		
PLYWOOD BOUNDARY		
PLYWOOD EDGE		
PLYWOOD EDGE		DOOR REFERENCE
		WINDOW SYMBOL
PLATE		
PLASTER PLYWOOD		
PAIR POUNDS PER		
POUNDS PER	00.00	KEYNOTE SYMBOL
SQUARE INCH POINT		KEYNOTE REFERENCE, REFER TO
PAPER TOWEL DISP. PRESSURE TREATED		KEYNOTE LIST ON SHEET
PARTITION		
POLYVINYL CHLORIDE	•	WORK POINT, CONTROL POINT OR DATUM POINT
RADIUS THERMAL	¥	
RESISTANCE RETURN AIR		
ROOF DRAIN REFLECTED		WALL SYMBOL
REFRIGERATOR REINFORCED		
REMOVE REQUIRED		
RESILIENT RIGHT HAND		
ROUND HEAD WOOD SCREW		SECTION
ROOM ROUGH OPENING		LOCATION ON SHEET REFERENCED
RIGHT-OF-WAY REDWOOD		SHEET NUMBER WHERE SECTION IS LOCATED
RAIN WATER LEADER		
SOLID CORE		DETAIL
STORM DRAIN	VVV -	LOCATION ON SHEET REFERENCED
SQUARE FEET/FOOT		
SHEATHING		SHEET NUMBER WHERE DETAIL IS LOCATED
SIMILAR SHEET METAL		
SLAB-ON-GRADE SPECIFICATION(S)		
SPEAKER SQUARE		ROOM IDENTIFICATION
STAINLESS STEEL STATION		ROOM NAME
SOUND TRANS- MISSION CLASS		ROOM NUMBER
STANDARD STEEL		
STORAGE STRUCTURAL		
SUSPENDED SIDE WALK	+10-0	CEILING HEIGHT
	1	







SITE PLAN

KEYNOTES 🚥

LEGEND



EXISTING PROPERTY LINE EXISTING 6' CHAIN LINK FENCING TO REMAIN BUILDING(S) NOT INCLUDED IN THE PROJECT SCOPE OF WORK BUILDING ALTERATION IN THIS APPLICATION EXISTING TURF TO REMAIN EXISTING A.C. PAVING TO REMAIN EXISTING CONCRETE TO REMAIN

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ACCESSIBLE ROUTE (2019 C.B.C. SECTION 11B - 206) THE ACCESSIBLE ROUTE IS A CONTINUOUS UNOBSTRUCTED PATH

CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. ACCESSIBLE ROUTES SHALL COMPLY WITH CBC 11B-402. IN GENERAL, EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH THE FOLLOWING: SHALL BE STABLE, FIRM, AND SLIP RESISTANT; HAVE A 1:20 MAXIMUM RUNNING SLOPE FOR WALKS; HAVE A 1:12 MAXIMUM SLOPE FOR RAMPS AND CURB RAMPS; HAVE A 1/4:12 MAXIMUM CROSS SLOPE; HAVE A 48" MINIMUM WIDTH; HAVE NO VERTICAL OFFSETS GREATER THAN 1/4"; OFFSETS BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT EXCEEDING 1V:2H; HAVE NO OPENINGS ALLOWING THE PASSAGE OF A 1/2" DIAMETER SPHERE; ELONGATED OPENINGS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL; HAVE A MINIMUM 6" HIGH CURB OR GUARDRAIL AT EDGES WHERE THE DROP OFF EXCEEDS 4" EXCEPT WHERE ADJACENT TO VEHICULAR WAYS; BE FREE OF ELEMENTS PROJECTING MORE THAN 4" FROM WALLS BETWEEN 27" AND 80" ABOVE THE WALKING SURFACE; AND HAVE 80" MINIMUM VERTICAL CLEARANCE.

DESIGN PROFESSIONAL IN CHARGE STATEMENT:

- THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.
- AS PART OF THE DESIGN OF THIS PROJECT. THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
- ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES - SITE PLAN

A. EXISTING UNDERGROUND UTILITIES & IMPROVEMENTS ARE SHOWN IN THEIR APPROX. LOCATIONS BASED UPON RECORD INFO. AVAILABLE TO THE ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD & NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFO. SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A), 1-800-642-2444.







KEYNOTES 000

2.11	EXISTING PLUMBING FIXTURE
2.12	EXISTING HVAC EQUIPMENT
2.16	EXISTING BRACKET MOUNTED FIRE EXTINGUISHER, TO REMAIN
2.19	EXISTING SIGNAGE TO REMAIN
2.21	EXISTING TOILET ACCESSORIES TO REMAIN
2.22	EXISTING SUSPENDED ACOUSTICAL CEILING TO REMAIN
2.23	EXISTING LIGHT FIXTURES TO REMAIN
2.25	EXISTING FIRE ALARM DEVICE TO REMAIN, PROTECT FROM DAMAGE, TYP.
2.53	REMOVE EXISTING DOOR AND DOOR FRAME
2.54	REMOVE EXISTING WALL
2.56	REMOVE EXISTING PLUMBING FIXTURE. SEE PLUMBING
2.58	REMOVE EXISTING PLUMBING FIXTURE FOR INSTALLATION OF NEW FLOORING, SALVAGE FOR REINSTALLATION
2.59	REMOVE EXISTING TOILET ACCESSORIES
2.61	REMOVE EXISTING FULL HEIGHT FRP
2.63	REMOVE PORTION OF EXISTING BASE CABINET FOR INSTALLATION OF NEW DISHWASHER, EXISTING COUNTER TO REMAIN
2.78	REMOVE EXISTING FLOORING AND BASE
2.83	REMOVE MECHANICAL EXHAUST FAN, SALVAGE ONE (1) & PROTECT FOR REINSTALLATION
2.84	REMOVE LIGHT FIXTURE, SALVAGE & PROTECT FOR REINSTALLATION
2.85	REMOVE CEILING HATCH SALVAGE AND PROTECT ONE (1) FOR REINSTALLATION
2.86	REMOVE CEILING GYP. BD AND FRAMING
2.87	REMOVE EXISTING SMOKE DETECTOR, SALVAGE FOR REINSTALLATION (TYP. OF 2)
2.88	REMOVE PORTION OF EXISTING GYP. BD. AS REQUIRED FOR INSTALLATION OF NEW LAVATORY
6.01	WOOD STUD INFILL FRAMING & FINISH TO MATCH EXISTING FILL STUD CAVITIES WITH ACOUSTIC BATTS
6.04	2x6 CEILING JOIST @ 24" O.C., W/ LEDGER ATTACHMENT @ WALL PROVIDE GYP. BD AND PAINT, SEE 5 / A102
6.29	UPPER CASEWORK (PLASTIC LAMINATE) TO MATCH EXISTING, SEE 8 / A103
6.31	PROVIDE CABINET FACE TRIM TO MATCH EXISTING
9.23	GYPSUM BOARD, PATCH TO MATCH EXISTING
9.52	RUBBER FLOORING AND 4" TOPSET BASE (TYP.) PROVIDE RUBBER TRANSITION TO CARPET FLOORING SHALL BE MONDO HARMONI, COLOR TO MATCH EXISTING
9.56	WALK-OFF CARPET O.F.C.I. TANDUS ABRASIVE ACTION, CHARCOAL COLOR, TO MATCH EXISTING
9.58	RUBBER FLOORING WITH 6" COVE BASE
9.59	PATCH FLOOR SUBSTRATE FLUSH WITH ADJACENT SURFACE, WHERE EXISTING WATER CLOSET HAS BEEN REMOVED
9.61	FULL HEIGHT TACKABLE WALL PANELS OVER GYP BD, MATCH EXISTING
9.64	FULL HEIGHT FRP. COLOR AND FINISH TO MATCH. EXISTING SUBSTRATE TO REMAIN
10.46	PAPER TOWEL DISPENSER, O.F.O.I.
10.49	SOAP DISPENSER O.F.O.I, WALL MOUNTED
10.52	MIRROR, 18 x 24
11.15	REFRIGERATOR, O.F.O.I.
11.19	WASHER AND DRYER, O.F.O.I.
22.01	REINSTALL EXISTING PLUMBING FIXTURE
22.16	NEW ACCESSIBLE PLUMBING FIXTURE
22.19	WATER HEATER, SEE MECHANICAL
22.21	DISHWASHER, C.F.C.I LG BRAND, 24" FRONT CONTROL 48dba, STAINLESS STEEL, 32-1/16" HEIGHT, MODEL ADFD5448AT OR APPROVED EQUAL
23.02	REINSTALL EXHAUST FAN, SEE MECHANICAL AND 14 / A102
23.07	REINSTALL EXISTING ACCESS HATCH
26.11	REINSTALL EXISTING LIGHT FIXTURE (TYP. OF 2), SEE 13 / A102
26.12	REINSTALL EXISTING SMOKE DETECTOR (TYP. OF 2)

GENERAL NOTES - FLOOR PLAN

A. FOR TYP. INFO. REGARDING ACCESSIBLE CLEARANCES, AND FIXTURE MOUNTING HEIGHTS, SEE SHEET A103

B. INTERIOR EXPOSED CONDUIT SHALL BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT



CLEAR & LEVEL LANDING

DOOR SHALL BE ABLE TO OPEN 90 DEGREES MINIMUM.

24" MIN. CLEAR AT EXTERIOR DOORS, 18" MIN. CLEAR AT INTERIOR DOORS, 36" MIN. CLEAR AT DOORS APPROACH FROM THE HINGE EDGE OF THE DOOR

8" MAX., FACE OF WALL/ FRAME TO FACE OF DOOR

12" MIN. CLEAR AT DOORS EQUIPPED WITH BOTH A LATCH AND CLOSER

SRH_12_2019

U Ζ -EILING R \overline{O} ATION ENTA OOR PLAN, REFLECTED AN, & DETAILS סט. דברבו ברבו 4 DEWITT WELDO 0 Ñ Ц Ц Ц PROJECT NO. 23-12689 DRAWING A102

1/4" = 1'-0" 8 ACCESS. CLEARANCE AT DOORS 1/4" = 1'-0" 4

DT DATE: 5/2/2023 10:07:03 AM	\\tetr-file1\Users\Sonia.Orozco_TETR\Documents\12689-A-WELD0	ON ES PORTABLE MODIFICATION_sonia.orozco.rvt
ACCESSIBLE FIXTURE & ACCESSO	ADJACENT P SCREEN SLBS. MAX. FO OPERATE FLU NOTE: SEE LAVATOR CLEAR FLOOP JG" MIN. CLR.	Image: Second state of the second s



PLUMBING SCHEDULE

PLUMBIN	IG FIXTURE SCHED	ULE				
MARK	FIXTURE	S OR W	v	CW	HW	DESCRIPTION
L-1	LAVATORY ADA	2"	1-1/2"	1/2"		KOHLER K-2005-0, KINGSTON WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, 4" CENTER FAUCET HOLES, CHICAGO 3400-ABCP VANDAL PROOF METERING FAUCET WITH PUSH KNOB HANDLE AND 0.5 GPM VANDAL PROOF AERATOR, ADJUST FAUCET CYCLE TIME FOR 10 SECONDS, MCGUIRE 155WC OFFSET GRID DRAIN, AND JAY R. SMITH 723 SUPPORT CARRIER CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
WMB-1	WASHING MACHINE BOX	2"	1-1/2"	3/4"	3/4"	GUY GRAY T200TPCPVCHA, RECESSED METAL CLOTHES WASHER SUPPLY BOX WITH WHITE FINISH, INTEGRAL CW AND HW SUPPLY HOSE BIBBS WITH HAMMER ARRESTORS, AND 2" DIAMETER DRAIN OUTLET.
WH-1	WATER HEATER			3/4"	3/4"	A.O. SMITH ECJ-30 PROMAX RESIDENTIAL ELECTRIC, 30 GALLON STORAGE CAPACITY, GLASS LINED TANK, 4,500 WATTS, 240V/1PH, 20 GPH RECOVERY RATE AT 90°F TEMPERATURE RISE, AND 3/4" P&T RELIEF VALVE. DIMENSIONS: 22" DIAMETER x 30" HEIGHT. OPERATING WEIGHT: 280 LBS.

MECHANICAL & PLUMBING SHEET INDEX

MP001 MECHANICAL & PLUMBING SCHEDULE, LEGEND, AND NOTES

- MP002 MECHANICAL & PLUMBING SPECIFICATIONS
- MP200 MECHANICAL & PLUMBING FLOOR PLANS
- MP800 MECHANICAL & PLUMBING DETAILS

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- 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.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY THE AHJ. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS 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 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, 2. FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- 3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. 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.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE 5.
- NOTED. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF 6.
- SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
- MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
- ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. 8. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
- MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO 9. FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS

			_		
SYMBOL	ITEM	ABBR.	SYMBOL	ITEM	ABBR.
	ABOVE	ABV	RWL	RAIN WATER LEADER	RWL
	ABOVE CEILING	ABV CLG	OD	OVERFLOW DRAIN	OD
	ABOVE FINISHED FLOOR	AFF	SD	STORM DRAIN	SD
	ALTERNATE	ALT		SOIL or WASTE	S or W
&	AND		MA	MEDICAL AIR	MA
	ARCHITECT / ARCHITECTURAL	ARCH	0_2	OXYGEN	0 ₂
@	AT		VAC	VACUUM	VAC
	BELOW FLOOR	BEL FLR		VENT	V
	BELOW GRADE	BEL GR	0	VENT RISER	VR
	CALIFORNIA MECHANICAL CODE	СМС	C	VENT THRU ROOF	VTR
	CALIFORNIA PLUMBING CODE	CPC	Φ	CLEANOUT TO GRADE	COTG
	CEILING	CLG	++++++++	DEMOLITION	DEMO
գ	CENTER LINE			EXISTING PIPING	
2	CONTINUATION	CONT	Φ	FLOOR CLEANOUT	FCO
	CUBIC FEET PER HOUR	CFH		HOSE BIBB	
Ø	DIAMETER	DIA	0	PIPING TURN UP	
	DOWN	DN	СЭ	PIPING TURN DOWN	
	DRAWING	DWG		PIPING CAP	
	ELBOW	ELL	— × —	POINT OF CONNECTION	POC
	ELECTRICAL	ELEC		TO EXISTING	FUC
	EXISTING	(E)		SUPPLY AIR DUCT DROP	
	FEET	FT		SUPPLY AIR DUCT RISE	
	FLOOR			RETURN AIR DUCT DROP	1
				RETURN AIR DUCT RISE	
		FL		EXHAUST AIR DUCT DROP	
	GALLON	GAL			
	GALLONS PER HOUR	GPH			
	GALLONS PER MINUTE	GPM		ANGLE VALVE	
	GAUGE	GA		BALANCE VALVE	
		ID		BALL VALVE	
		I.E.		CHECK VALVE	
	MAXIMUM	MAX		CONCENTRIC REDUCER	
	MINIMUM	MIN	£	TWO-WAY CONTROL VALVE	
	NEW	(N)			
	NOT IN CONTRACT	NIC			
	NOT TO SCALE	NTS			SOV
#	NUMBER	NO.			50V
	OUTSIDE DIAMETER	OD			300
	POUNDS	LBS		THERMOSTATIC MIXING VALVE	
	POUNDS PER SQUARE INCH	PSI	Ŋ. Ŋ. Ŋ. Ŋ. Ŋ. Ŋ. Ŋ. Ŋ. Ŋ. Ŋ.	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA			
	POUNDS PER SQUARE INCH GAUGE	PSIG			WCO
	POLYVINYL CHLORIDE	PVC			
	ROOM	RM			
			P	PRESSURE GAUGE	
	SPECIFICATION	SPEC			
	SPECIFICATION SQUARE FEET	SPEC SQ FT	\bigcirc		
	SPECIFICATION SQUARE FEET STAINLESS STEEL	SPEC SQ FT SS		KEYNOTE	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE	SPEC SQ FT SS TEMP	$\begin{array}{c} () \\ () \\ \hline \end{array}$	KEYNOTE DETAIL REFERENCE	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH	SPEC SQ FT SS TEMP	() (1) (2) (P202)	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL	SPEC SQ FT SS TEMP THRU (TVD)	() (1) (2) (P202)	NEWPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL	SPEC SQ FT SS TEMP THRU (TYP)	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	TEMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPL F: SECTION 3, SHEET	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL UNDER GROUND	SPEC SQ FT SS TEMP THRU (TYP) U/G	() (1) (2) P202 (2) P202 (3) P400	TEMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL UNDER GROUND WATER COLUMN	SPEC SQ FT SS TEMP THRU (TYP) U/G WC	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	TEMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL UNDER GROUND WATER COLUMN WITH	SPEC SQ FT SS TEMP THRU (TYP) U/G WC W/	() (1) (2) P202 (2) P202 (3) P400	REMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL UNDER GROUND WATER COLUMN WITH WITHOUT	SPEC SQ FT SS TEMP THRU (TYP) U/G WC W/ W/ W/O	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	TEMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
A	SPECIFICATION SQUARE FEET STAINLESS STEEL TEMPERATURE THROUGH TYPICAL UNDER GROUND WATER COLUMN WITH WITHOUT COMPRESSED AIR	SPEC SQ FT SS TEMP THRU (TYP) U/G WC W/ W/ W/O A	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	TEMPERATORE GAUGE KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
A	SPECIFICATIONSQUARE FEETSTAINLESS STEELTEMPERATURETHROUGHTYPICALUNDER GROUNDWATER COLUMNWITHCOMPRESSED AIRACID VENT	SPEC SQ FT SS TEMP THRU (TYP) U/G W/ W/ W/O A AV	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Image: Temperature Gauge KEYNOTE DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
A AV AW	SPECIFICATIONSQUARE FEETSTAINLESS STEELTEMPERATURETHROUGHTYPICALUNDER GROUNDWATER COLUMNWITHWITHOUTCOMPRESSED AIRACID VENTACID WASTE	SPEC SQ FT SS TEMP THRU (TYP) U/G W/ W/ W/O A AV AW	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Implementation Reference DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
A AV AW 	SPECIFICATIONSQUARE FEETSTAINLESS STEELTEMPERATURETHROUGHTYPICALUNDER GROUNDWATER COLUMNWITHWITHOUTCOMPRESSED AIRACID VENTACID WASTEACID VENT RISER	SPEC SQ FT SS TEMP THRU (TYP) U/G W/ W/ W/O A AV AV AVR	() (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Implementation Reference DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202 SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	
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<u>·ECTION 220000</u> <u>·LUMBING</u>	7. <u>MISCELLANEOUS:</u>	<u>SECTION 2300</u> HEATING, VEI
	A. UNIONS: 2" AND SMALLER: AAR MALLEABLE IRON, BRONZE TO IRON GROUND SEAT, 300 PSI, GRINNELL. UNIONS SHALL BE INSTALLED ON THE LEAVING SIDE OF EACH VALVE, AT ALL EQUIPMENT	PART 1 - GEN
ATERIALS AND LABOR REQUIRED TO MEET PERFORMANCE, CAPACITY, AND QUALITY REQUIREMENTS OF CONTRACT OCUMENTS.	B. DIELECTRIC COUPLING: INSULATING UNION OR FLANGE RATED FOR 250 PSIG. EPCO. DIELECTRIC UNIONS SHALL BE INSTALLED WHEREVER PIPING OF DISSIMILAR METALS ARE JOINED, EXCEPT THAT BRONZE	1.1 RELAT A
<u>CODES AND REGULATIONS</u> : ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	VALVES MAY BE INSTALLED IN FERROUS PIPING WITHOUT DIELECTRIC COUPLINGS. C. ALL JOINTS AND CHANGES IN DIRECTION SHALL BE MADE WITH STANDARD FITTINGS. CLOSE NIPPLES SHALL NOT BE USED. PRO-PRESS MECHANICAL CRIMPED FITTINGS ARE ACCEPTABLE. PIPE SIZE	1.2 GENE
A. CALIFORNIA BUILDING CODE B. CALIFORNIA MECHANICAL CODE	D. ESCUTCHEONS: PROVIDE CHROME PLATED METAL ESCUTCHEONS WHERE PIPING PENETRATES WALLS,	А.
 CALIFORNIA PLOMBING CODE D. CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS E. CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS E. LOCAL CODES 	8. <u>PIPE SUPPORT:</u>	1.3 SCOP OPER BUT IS
PERMITS, INSPECTIONS AND SERVICE CONNECTION CHARGES: OBTAIN ALL PERMITS REQUIRED FOR PERFORMING WORK AND PAY ALL RELATED FEES. PAY ALL CHARGES FOR SERVICE CONNECTIONS, METERS, ETC. BY UTUITY COMPANIES OF DISTRICTS. CALL FOR ALL PEOLIDED INSPECTIONS AND BAY ALL PELATED FEES	A. PIPE HANGER: STEEL "J" HANGER WITH SIDE BOLT FOR PIPING 4" AND SMALLER. LOAD AND JAMB NUTS. SIZE AND MAXIMUM LOAD PER MANUFACTURERS RECOMMENDATION. FELT LINER FOR COPPER PIPING. HANGER AND ROD SHALL HAVE GALVANIZED FINISH. B-LINE, GRINNELL, UNISTRUT.	A. B.
WORK BY OTHERS: UNLESS OTHERWISE NOTED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING, MOTOR STARTERS IN MOTOR CONTROL CENTERS, DISCONNECTS, CONTROL WIRING AND CONDUIT AND	B. ISOLATING SHIELD: GALVANIZED STEEL SHELL AND REINFORCING RIBS. 1/4" NON-CONDUCTING HAIR FELT PAD. PIPE HANGER IN ACCORDANCE WITH PARAGRAPH ABOVE. INCREASE HANGER SIZE PER MANUFACTURERS RECOMMENDATION. B-LINE, SEMCO, SUPERSTRUT.	PART 2 - PRO 2.1 DUCT
<u>GUARANTEE</u> : THE CONTRACTOR SHALL REPAIR ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH APPEARS WITHIN A PERIOD OF ONE	C. CONSTRUCTION CHANNEL: 12 GA. 1-5/8"x1-5/8" GALVANIZED STEEL CHANNEL. SINGLE OR MULTIPLE SECTION. SELF-LOCKING NUTS AND FITTINGS. B-LINE, UNISTRUT.	A.
OPERATING AND MAINTENANCE INSTRUCTIONS: TWO COPIES OF ALL EQUIPMENT OPERATION AND MAINTENANCE	9. <u>PIPE INSULATION MATERIAL</u> A. GENERAL: ALL PIPING INSULATION MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS	В.
INSTRUCTIONS AND WIRING DIAGRAMS SHALL BE FURNISHED TO THE OWNER, THROUGH THE ENGINEER. <u>MATERIALS, EQUIPMENT AND INSTALLATION</u> : EACH ITEM REFERRED TO ON THE DRAWINGS AND IN THE SPECIFICATIONS REPRESENTS THE STANDARD OF QUALITY DESIRED FOR MATERIALS, EQUIPMENT AND	TESTED UNDER ASTM E_84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. ALL PIPING INSULATION MATERIALS SHALL HAVE A MOLD, HUMIDITY, AND EROSION-RESISTANT SURFACE AS TESTED UNDER UL 181. ALL MATERIALS SHALL BE PLENUM RATED.	C.
INSTALLATION. ALL SUBSTITUTIONS MUST BE SUBMITTED TO AND REVIEWED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE A RESUBMITTAL IF REQUESTED BY THE ENGINEER. ENGINEER WILL REVIEW EACH	B. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT ² -F AT A MEAN TEMPERATUR OF 75°F.	D.
THE ENGINEER, THE CONTRACTOR SHALL BEAR THE COST OF THE ENGINEERS REVIEW ON A TIME AND MATERIAL BE AND BASIS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM DEFECTS. ALL INSTALLATIONS SHALL BE	AND PRESSURE SEALING VAPOR BARRIER LAP. INSULATE HOT WATER PIPING WITH 1" THICK FOR PIPE SIZES LESS THAN 1", 1-1/2" THICK FOR PIPE SIZES 1" AND LARGER. FIBERGLASS WITH ALL	
AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN ON DRAWINGS.		2.2 AIR TE
A. <u>GENERAL</u> : UNLESS OTHERWISE NOTED, MINIMUM EARTH COVER ABOVE TOP OF PIPE OR TUBING OUTSIDE BUILDING WALLS SHALL BE 24", NOT INCLUDING BASE AND PAVING IN PAVED AREAS. BARREL OF PIPE SHALL HAVE UNIFORM SUPPORT ON SAND BED. SAND SHALL BE FREE FROM	CELL VINYL, 3/16" THICK, INTERNAL RIBS ON DRAIN INSULATION ONDER ADA LAVATORIES AND SINKS). FULLY MOLDED CLOSED CELL VINYL, 3/16" THICK, INTERNAL RIBS ON DRAIN INSULATION TO PROVIDE AIR GAP. THERMAL CONDUCTIVITY SHALL NOT EXCEED 1.17 BTU-IN/HR-FT ² -°F AT AVG. TEMP OF 73°F. WEEP HOLE IN CLEANOUT NUT ENCLOSURE. OUT OF SIGHT NYLON FASTENING SYSTEM. HINGED CAP OVER VALVE TO ALLOW ACCESS FOR SERVICING. TRUEBRO LAV-GUARD	A.
CLAY OR ORGANIC MATERIAL, SUITABLE FOR THE PURPOSE INTENDED AND SHALL BE OF SUCH SIZE THAT 90 PERCENT TO 100 PERCENT WILL PASS A NO. 4 SIEVE AND NOT MORE THAN 5 PERCENT WILL PASS A NO. 200 SIEVE	11. <u>FIXTURES:</u> ALL FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED. ALL ENAMELED FIXTURES SHALL BE ACID RESISTING, ALL FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM, SEALS, CARRIERS, STOPS	3.1 DUCT
B. EXCAVATION: WIDTH OF TRENCHES AT TOP OF PIPE SHALL BE MINIMUM OF 16", PLUS THE OUTSIDE	ETC. ALL TRIM, VALVES AND PIPING NOT CONCEALED IN WALL STRUCTURE, ABOVE CEILING OR BELOW FLOOR SHALL BE BRASS WITH POLISHED CHROME PLATE FINISH UNLESS NOTED OTHERWISE. CAULK WALL MOUNTED	А.
DIAMETER OF THE PIPE. PROVIDE ALL SHORING REQUIRED BY SITE CONDITIONS. WHERE OVER EXCAVATION OCCURS, PROVIDE COMPACTED SAND BACKFILL TO PIPE BOTTOM. WHERE GROUNDWATER IS ENCOUNTERED, REMOVE TO KEEP EXCAVATION DRY, USING WELL POINTS AND PUMPS AS REQUIRED.	FIXURES AGAINST WALL WITH WHITE G.E. "SANITARY 1700" SILICONE SEALANT. CAULKING SHALL BE SMOOTH AND FLUSH WITH FIXTURE (NOT CONCAVE). GROUT AT THE FLOOR WITH WATERPROOF CERAMIC TILE GROUT AROUND FLOOR MOUNTED FIXTURES.	
C. <u>BACKFILL</u> :	A. STOPS: ALL HOT AND COLD WATER SUPPLIES SHALL BE 1/2" I.P.S. INLET ANGLE STOPS WITH STUFFING BOX, LOOSE KEY LOCK SHIELD, AND BRASS RISER (3/8" FOR 2-1/2 GPM AND LESS, OTHERWISE 1/2"). MCGUIRE, SPEEDWAY.	
(1) <u>6" BELOW, AROUND, AND TO 12" ABOVE PIPE:</u> MATERIAL SHALL BE SAND. PLACE CAREFULLY AROUND AND ON TOP OF PIPE, TAKING CARE NOT TO DISTURB PIPING, CONSOLIDATE WITH VIBRATOR.	B. P-TRAPS: SEMI-CAST BRASS, GROUND JOINT, 17 GAGE, CLEANOUT PLUG, UNOBSTRUCTED WATERWAY. MCGUIRE.	
(2) <u>ONE FOOT ABOVE PIPE TO GRADE</u> : MATERIAL SHALL BE SANDY OR SILTY LOAM, FREE OF LUMPS, LAID IN 6" LAYERS, UNIFORMLY MIXED TO PROPER MOISTURE AND COMPACTED TO REQUIRED DENSITY. IF BACKFILL IS DETERMINED TO BE SUITABLE AND REQUIRED COMPACTION IS DEMONSTRATED BY LABORATORY TEST, WATER COMPACTION IN 6" LAYERS MAY BE USED, SUBJECT TO REVIEW BY ENGINEER.	12. <u>TESTS AND DISINFECTION:</u> PERFORM ALL TESTS AND DISINFECTION AS REQUIRED BY APPLICABLE CODES IN PRESENCE OF PLUMBING INSPECTOR. WORK TO BE CONCEALED SHALL NOT BE ENCLOSED UNTIL PRESCRIBED TESTS ARE MADE. SHOULD ANY WORK BE ENCLOSED BEFORE SUCH TESTS, THE CONTRACTOR SHALL, AT HIS EXPENSE, UNCOVER, TEST AND REPAIR ALL WORK TO ORIGINAL CONDITIONS. LEAKS AND DEFECTS SHOWN BY TESTS SHALL BE REPAIRED AND ENTIRE WORK RETESTED.	
D. <u>COMPACTION:</u> COMPACT TO DENSITY OF 95% WITHIN BUILDING AND UNDER WALKWAYS, DRIVEWAYS, TRAFFIC AREAS, PAVED AREAS, ETC. AND TO 90% ELSEWHERE. DEMONSTRATE PROPER COMPACTION BY TESTING AT TOP, BOTTOM AND ONE-HALF OF THE TRENCH DEPTH. PERFORM THESE TESTS AT THREE LOCATIONS PER 100' OF TRENCH. <u></u>	A. SANITARY SEWER: ALL ENDS OF THE SANITARY SEWER SYSTEM SHALL BE CAPPED AND LINES FILLED WITH WATER TO THE TOP OF THE HIGHEST VENT, 10' ABOVE GRADE MINIMUM. THIS TEST SHALL BE MADE BEFORE ANY FIXTURES ARE INSTALLED. TEST SHALL BE MAINTAINED UNTIL ALL JOINTS HAVE BEEN INSPECTED, BUT NO LESS THAN 2 HOURS.	3.2 EQUIP A.
<u>PIPES PASSING THROUGH FIRE RATED SURFACES:</u> PIPES PASSING THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, PARTITIONS, ETC. SHALL HAVE THE ANNULAR SPACE SURROUNDING THE PIPE OR PIPE INSULATION SEALED WITH FIRE PATED MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE AUTHORITY.	B. DRAINS (INCLUDING CONDENSATE): SIMILAR TO SANITARY SEWER.	
HAVING JURISDICTION.	13. <u>DISINFECTION</u> : DISINFECT ALL DOMESTIC WATER PIPING SYSTEMS IN ACCORDANCE WITH AWWA STANDARD C651, "AWWA STANDARD FOR DISINFECTING WATER MAINS" AND IN ACCORDANCE WITH AUTHORITY HAVING	В.
UMBING SPECIFICATIONS:	JURISDICTION. DISINFECTION PROCESS SHALL BE PERFORMED IN COOPERATION WITH THE HEALTH DEPARTMENT HAVING JURISDICTION AND WITNESSED BY A REPRESENTATIVE OF THE ENGINEER. DURING PROCEDURE SIGNS	
GENERAL: ALL GENERAL MECHANICAL SPECIFICATIONS APPLY TO THIS SECTION. SCOPE: PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETE, LAWFUL AND OPERATING	SHALL BE POSTED AT EACH WATER OUTLET STATING, "CHLORINATION - DO NOT DRINK". AFTER DISINFECTION, WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS. CERTIFICATE OF BACTERIOLOGICAL PURITY SHALL BE OBTAINED AND DELIVERED TO THE OWNER THROUGH THE ENGINEER.	
NECESSARILY LIMITED TO, THE FOLLOWING:	END SECTION	C.
B. DOMESTIC WATER SYSTEM C. ALL EQUIPMENT AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED		
. <u>LAYOUT:</u> ROUTE PIPING TO AVOID CUTTING STRUCTURAL MEMBERS. WHERE CUTTING OR NOTCHING IS REQUIRED, THE STRUCTURAL MEMBER SHALL BE REINFORCED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. NOTIFY ARCHITECT PRIOR TO ANY CUTTING OR DRILLING OF STRUCTURAL MEMBERS. PIPING SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS OR BELOW GRADE UNLESS OTHERWISE NOTED. PIPING SHALL BE INSTALLED TO ENSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS, PREVENT UNUSUAL NOISE AND PERMIT OMPLETE DRAINAGE OF THE SYSTEM. ALL PIPING SHALL BE INSTALLED TO PERMIT EXPANSION AND CONTRACTION WITHOUT STRAIN ON PIPING OR EQUIPMENT. VERTICAL LINES SHALL BE INSTALLED TO ALLOW BUILDING SETTLEMENT WITHOUT DAMAGE TO PIPING. PROVIDE INDIVIDUAL SHUT OFF VALVES AT EACH FIXTURE AND EQUIPMENT ITEM AND AS INDICATED ON THE DRAWINGS. PROVIDE SECONDARY DRAIN PIPING WHERE REQUIRED.		
PIPING MATERIALS:		
A. DOMESTIC WATER - HARD TEMPER SEAMLESS COPPER, ASTM B88, WROUGHT COPPER FITTINGS, ANSI B16.22, TYPE L WITH BRAZED JOINTS (1100F, MIN). 1-1/2" AND SMALLER ABOVE GRADE MAY BE SOLDERED, 95-5 TIN-ANTIMONY SOLDER. ALL NIPPLES SHALL BE RED BRASS (85% COPPER). MECHANICAL PRESS FIT CRIMPED FITTINGS ARE ACCEPTABLE (PROPRESS)		
B. SOIL, WASTE & VENT (INSIDE BUILDING AND WITHIN 5' OF BLDG WALLS) - CAST IRON, CISPI 301, HEAVY DUTY COUPLINGS (HUSKY HD 2000 SERIES OR EQUIV.). 2" AND SMALLER EXPOSED TO VIEW SHALL BE GALVANIZED STEEL, ASTM A120/A53, WITH COATED CAST IRON RECESSED DRAINAGE FITTINGS, ANSI B16.12.		
C. DRAIN (INCLUDING CONDENSATE DRAIN) - SAME AS DOMESTIC WATER -OR- SCHEDULE 40 GALVANIZED STEEL PIPE, ASTM 120/ A53 W/ 150 LBS GALV. SCREWED FITTINGS.		
. <u>CLEANOUTS:</u> COMPARABLE MODELS OF JOSAM, WADE OR ZURN. FLOOR CLEANOUT: SMITH 4028 NICKEL BRONZE TOP IN FINISHED AREAS, SMITH 4228 IN UTILITY AREAS. WALL CLEANOUT: SMITH 4532 WITH STAINLESS STEEL COVER AND SCREW. PIPE CLEANOUT: IRON BODY WITH THREADED BRASS PLUG.		

<u>VALVES:</u> ALL VALVES SHALL BE FULL LINE SIZE OF UPSTREAM PIPING, EXCEPT THAT GAS VALVES WITHIN 18" OF THE POINT OF CONNECTION TO THE EQUIPMENT MAY BE SAME SIZE AS THE EQUIPMENT CONNECTION. PROVIDE SHUT-OFF VALVE AT EACH EQUIPMENT CONNECTION. PROVIDE SHUT-OFF VALVE AT EACH POINT OF CONNECTION TO EXISTING PIPING.

> A. GATE: SIZE 2" AND SMALLER: RISING STEM, UNION BONNET ALL BRONZE, WEDGE DISC, 125 WSP, STOCKHAM B-105.

> B. BALL: FULL PORT, BRONZE OR BRASS BODY, CAP, STEM, DISK AND BALL. SCREWED CONNECTION. LEVER HANDLE TFE SEAT, O-RING SEALS. 300 PSI WOG. APOLLO, GRINNELL, JOMAR.

IANICAL SPECIFICATIONS

LATING AND AIR CONDITIONING

AL

DOCUMENTS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS DIVISION.

L MECHANICAL PROVISIONS

THE PRECEDING GENERAL MECHANICAL PROVISIONS SHALL FORM A PART OF THIS DIVISION WITH THE SAME FORCE AND EFFECT AS THOUGH REPEATED HERE.

PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETE, LAWFUL AND TING SYSTEMS AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED HERE. THE WORK INCLUDES, NOT NECESSARILY LIMITED TO, THE FOLLOWING:

AIR DISTRIBUTION SYSTEM. ALL EQUIPMENT AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED.

UCTS

ORK MATERIALS

GENERAL: ALL DUCTWORK MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E 84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. SHALL COMPLY WITH 1994 UMC STANDARD 6-1. METAL DUCTWORK: METAL DUCTWORK SHALL BE GALVANIZED SHEET STEEL, LOCK FORMING QUALITY,

ASTM A_653, WITH GAGE AND CONSTRUCTION TO MATCH SMACNA STANDARD FOR PRESSURE REQUIRED (26 GAGE MINIMUM). FLEXIBLE DUCTWORK: INSULATED FLEXIBLE DUCTWORK. 1 LB/FT3 GLASS FIBER INSULATION, 1" THICK.

R-6. SEAMLESS VAPOR BARRIER JACKET. DUCT SHALL COMPLY WITH NFPA 90A. CONTINUOUS INTERNAL LINER BONDED TO GALVANIZED STEEL WIRE HELIX. DUCT SHALL BE CAPABLE OF CONTINUOUS OPERATION AT 1-1/2" OF WATER STATIC PRESSURE AND 4,000 FT/MIN AIR VELOCITY. GENFLEX, WIREMOLD.

DUCT SEALANTS: <u>ALL JOINTS EXPOSED TO WEATHER</u>: SEALANT SHALL BE HARDCAST CCWI-181. <u>JOINTS</u> NOT EXPOSED TO WEATHER: WATER-BASED DUCT SEALANT, WITHOUT SUBSTITUTION. 'UNI-MASTIC 181' BY MCGILL AIRSEAL OR DESIGN POLYMETRICS DP-1010.

RMINALS AND DUCT FITTINGS

FLEXIBLE CONNECTION: UL LISTED NEOPRENE COATED 30 OUNCE FIBERGLASS CLOTH. 3" METAL, 3" FABRIC, 3" METAL. VENTGLAS.

JTION

ORK INSTALLATION

GENERAL:

- STANDARDS: UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS. DUCTWORK SHALL BE BUILT TO A PRESSURE CLASSIFICATION EQUAL TO OR GREATER THAN THE MAXIMUM OPERATING PRESSURE AT THAT POINT IN THE DUCTWORK. A COPY OF THESE STANDARDS SHALL BE MAINTAINED AT THE JOB SITE AT ALL TIMES. DUCT WORK AND ACCESSORIES SHALL BE INSTALLED IN A MANNER TO PREVENT VIBRATION AND RATTLING. ACCESS: PROVIDE DUCT ACCESS DOORS AS REQUIRED TO ADJUST EQUIPMENT AND DAMPERS.
- PROVIDE WALL OR CEILING ACCESS PANELS, OR REMOTE ACTUATORS AS REQUIRED WHERE EQUIPMENT AND DAMPERS ARE NOT OTHERWISE ACCESSIBLE. VENTLOK 666 CONCEALED REMOTE ACTUATOR WITH ZINC FINISH ON COVER. FLEXIBLE CONNECTIONS: CONNECTION OF DUCTWORK TO ANY VIBRATING EQUIPMENT SHALL BE
- WITH 3" (MIN.) FLEXIBLE CONNECTION. INSTALL WITH AMPLE SLACK AND UNIFORM GAP. THERE SHALL BE NO METAL TO METAL CONTACT ACROSS FLEXIBLE CONNECTION. FLEXIBLE CONNECTIONS EXPOSED TO WEATHER SHALL HAVE A PROTECTIVE SHEET METAL COVER. FLANGES AND ESCUTCHEON: WHERE DUCTWORK PENETRATES WALLS, CEILINGS, OR FLOORS,
- FURNISH AND INSTALL FLANGE OR ESCUTCHEON OF SAME MATERIAL AS DUCT. ENT INSTALLATION

GENERAL: IT SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER TO ENSURE THAT NO WORK DONE UNDER OTHER SPECIFICATION SECTIONS SHALL IN ANY WAY BLOCK OR OTHERWISE HINDER THE EQUIPMENT. ALL EQUIPMENT SHALL BE SECURELY ANCHORED IN PLACE. ALL EQUIPMENT SHALL BE INSTALLED LEVEL.

AIR CONDITIONING UNITS:

- CONTRACTOR SHALL VERIFY THAT ROOF IS READY TO RECEIVE WORK AND OPENING
- DIMENSIONS ARE AS INDICATED ON SHOP DRAWINGS. CONTRACTOR SHALL VERIFY THAT PROPER POWER SUPPLY IS AVAILABLE.
- CONTRACTOR SHALL INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- MOUNT UNITS PROVIDING WATERTIGHT ENCLOSURE TO PROTECT DUCTWORK AND UTILITY SERVICES. INSTALL ROOF MOUNTING CURB LEVEL. SPRING ISOLATORS SHALL BE ADJUSTED TO ALLOW MOVEMENT TO MAXIMUM FREE SPRING LENGTH.

CONNECTIONS TO EQUIPMENT: WHERE SIZE CHANGES ARE REQUIRED FOR CONNECTIONS TO EQUIPMENT, THEY SHALL BE MADE IMMEDIATELY ADJACENT TO THE EQUIPMENT AND, IF POSSIBLE, INSIDE THE EQUIPMENT CABINET.

END OF SECTION

ULAR MODIFICATION					Teter, Inc. expressly
		PROFESSION.			reserves its common law copyright and other
		100 00 000 44			property rights in these
DEWITT AVE		GINE GINE STATISTICS			plans. This document, t ideas and designs
					incorporated herein, as
Å					instrument of profession
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ANICAL & PLIIMRING SPECIFICATIONS			A 4/28/23 FOR COI	NSTRUCTION	any other project without



KEYNOTES

- REMOVE (E) CEILING MOUNTED EXHAUST FAN AND CAP 1 (E) EA DUCT ABV. CLG. 2 REMOVE (E) CEILING MOUNTED EXHAUST FAN AND SALVAGE FOR REINSTALLATION. REINSTALL (E) CEILING MOUNTED EXHAUST FAN IN (N) 3 CEILING. SEE 14/A102 FOR SUPPORT. 4 REMOVE (E) FLOOR MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION. REMOVE (E) FLOOR MOUNTED WATER CLOSET. CAP (E) 5 S BEL. GR. AND CW IN WALL FOR RECONNECTION. REMOVE (E) VENT PIPING BEL GR. AND CAP IN WALL. 6 REMOVE (E) INSTANT HOT WATER HEATER AND ASSOCIATED PIPING. (E) SINK TO REMAIN. ROUTE (N) 2" S THRU EXTERIOR WALL AND ROUTE PIPE 7 ALONG EXTERIOR OF WALL. MAINTAIN 1/4" PER FOOT SLOPE FOR HORIZONTAL PIPING. SEE DETAIL 2/P800 FOR SUPPORT. SEE DETAIL 6/P800 FOR PENETRATION. 8 ROUTE (N) 2" S DN. ALONG EXTERIOR OF WALL TO BEL. GR. AND CONNECT TO (E) 4" S. 9 POC (N) 1" CW TO (E) 1" CW ABV. CLG. SEE 3/P800 FOR PIPE SÚPPORT ABV. CLG. 10 3/4" CW & 3/4" HW DN. THRU CEILING. ROUTE ALONG FACE OF WALL AND DN. THRU TOP OF CABINET. ROUTE DN. ALONG BACK OF CABINET TO (N) WATER HEATER. 11 2" SEWER W/ STANDPIPE DRAIN, 1-1/2" VR, 3/4" CW, & 3/4" HW FOR CLOTHES WASHER. ROUGH-IN WITH RECESSED BOX. 12 ROUTE 3/4" P&T RELIEF THRU EXTERIOR WALL AND TERMINATE WITH 90° ELL DN. AT +6" MIN. +24" MAX. ABV. GR. 13 ELECTRIC WATER HEATER MOUNTED ON BASE OF CABINET. SEE 4/P800 FOR SUPPORT AND PIPING CONNECTIONS.
- 14 2" S, 1-1/2" V, & 3/4" CW FOR (N) LAVATORY. CONNECT (N) 2" S TO (E) 4" S BEL. FLR. CONNECT (N) 1-1/2" VR TO (E) 2" VR IN WALL. CONNECT (N) 3/4" CW TO (E) 1" CW IN WALL. SEE 1/P800 FOR LAVATORY SUPPORT.
- 15 1/2" HW DN. FOR DISHWASHER. BRANCH 1/2" CW FROM (E) SINK TO DISHWASHER. ROUTE DISHWASHER DRAIN DISCHARGE TO (N) VACUUM BREAKER AT (E) REAR SINK LEDGE AND TERMINATE AT SINK TAILPIECE.
- 16 RE-INSTALL (E) FLOOR MOUNTED WATER CLOSET IN SAME LOCATION AND RE-CONNECT TO (E) PIPING.
- 17 1/2" HW DN. AND CONNECT TO (E) SINK.









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-WELDON ES PORTABLE MODIFICATION matt.soderstrom.rvt			2"x2"x3" ANGLE CLIP. ATTACH WITH (2) #10 SMS. (TYP) ALL-THREAD HANGER ROD. (TYP) C' C' CHANI BRACING
689-MP-			UPPER ATTACHMENT
\\tetr-file1\Users\matt.soderstrom_TETR\Documents\12			EXISTING WALL. PIPING THRU WALL. SEAL ENDS WITH DOW CORNING 3-6548 SILICONE FOAM.
-			PIPE THRU WALL
PLOT DATE: 4/28/2023 1:24:27 PM			
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ELECTRICAL POWER, LIGHTING, AND FIRE ALARM PLAN

KEYNOTES

- 1 REMOVE (E) LIGHT FIXTURE AND SALVAGE FOR REINSTALLATION, TYPICAL.
- 2 REMOVE (E) CEILING MOUNTED FIRE ALARM DEVICES AND SALVAGE FOR REINSTALLÁTION AFTER (N) CEILING INSTALLATION, TYPICAL.
- (3) DISCONNECT AND REMOVE (E) LIGHT SWITCH AND REMOVE SWITCH
- CIRCUIT. DISCONNECT BRANCH CIRCUIT AND ROUTE TO LOCATION FOR CONNECTION TO NEW LIGHT SWITCH.
- 4 PROVIDE (N) LIGHT SWITCH WITH INTEGRAL OCCUPANCY SENSOR AND CONNECT THE CONTROLLED HOT TO EACH LIGHTING FIXTURE. CONNECT THE CONTROLLED HOT TO EACH LIGHTING FIXTURE.
- 5 PROVIDE (N) NEMA 14-30R, 125/250V, 30A, 3-POLE, 4-WIRE GROUNDING TYPE ELECTRIC DRYER RECEPTACLE.
- 6 ONE 1"C WITH 2#8 CU THWN AND 1#10 CU GND.
- 7 PROVIDE GENERAL DUTY 250V, 60A, 3-POLE DISCONNECT. PROVIDE CONNECTION FOR 208V, 1¢, 4500W, WATER HEATER, 'WH-1'.
- (8) ONE 3/4"C WITH 3#10 CU THWN AND 1#10 CU GND.
- 9 DISCONNECT AND REMOVE (E) EXHAUST FAN. REMOVE EXHAUST FAN BRANCH CIRCUIT BACK TO SOURCE BRANCH CIRCUIT BACK TO SOURCE.
- 10 INTERLOCK (E) EXHAUST FAN WITH CONTROLLED LIGHTING BRANCH CIRCUIT ON (N) INTEGRAL OCCUPANCY LIGHT SWITCH.
- (11) REMOVE (E) EXHAUST FAN AND SALVAGE FOR REINSTALLATION.
- (E) WALL MOUNTED FIRE ALARM DEVICES TO REMAIN, TYPICAL. PRESERVE AND PROTECT FIRE ALARM DEVICES DURING CONST
- PRESERVE AND PROTECT FIRE ALARM DEVICES DURING CONSTRUCTION.
- 13 PROVIDE (N) GFCI RECEPTACLE FOR POWER CONNECTION OF DISHWASHÉR.
- 14 DISCONNECT AND REMOVE (E) BRANCH CIRCUIT FOR INSTA-HOT WATER HEATER TURN OF (E) 20A 2-POLE CIRCUIT BREAKER AND MARK AS HEATER. TURN OF (E) 20A, 2-POLE CIRCUIT BREAKER AND MARK AS 'SPARE'.





- A. ELECTRICAL FACILITIES SHOWN DASHED ARE EXISTING:
 - THOSE SHOWN LIGHTWEIGHT (FADED) SHALL REMAIN AND 1. REQUIRE MODIFICATION AS NOTED.
 - 2. 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.

GENERAL NOTES

- A. CONDUIT AND CONDUCTORS FOR NEW OUTLETS SHALL BE CONCEALED, U.O.N.
- B. PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND/OR ROOFS SHALL BE SEALED.
- EXISTING ELECTRICAL DEVICES AND COVER PLATES ON WALLS C. RECEIVING NEW WALL FINISHES SHALL BE REMOVED AND PRESERVED FOR RE-INSTALLATION, OUTLET BOXES SHALL BE EXTENDED TO ACCOMMODATE NEW WALL FINISHES, AND DEVICES AND COVER PLATES SHALL BE CLEANED AND RE-INSTALLED. REFER TO ARCHITECTURAL INTERIOR FINISH SCHEDULE FOR LOCATIONS RECEIVING NEW WALL FINISHES.
- ALL 120V, 15A AND 20A RECEPTACLES WITHIN KITCHENS AND D. RESTROOMS SHALL BE GFCI TYPE RECEPTACLES. IN ALL OTHER SPACES, 120V, 15A AND 20A RECEPTACLES WITHIN 6' OF SINKS OR FAUCETS SHALL BE GFCI TYPE RECEPTACLES.



NORTH



N.T.S. 20 PANEL SCHEDULE

								(E) DISTR	BUTION SWIT	CHBO/		'DB'	- SQL	JARE	D			
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	⊥ E) ⊥ TABLE	POF	_ ⊥ (E) ⊔ RTABI F	⊢ _ ⊥ ⊢ (E) PORTA		SPARE		⊥ (E) ⊔ RTABLE	⊥ - (E) PORTABLE	STAG	I BE GI	FI	PO	⊥ (E) RTABL				
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) : PS) :			3564	47 4604 7.1 383.	7 3435 7 286	56 TOTAL CA	LCULATED	LOAD FOR PA 16050 VA	NEL:									
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			A 9740	B	LOAD	DECEDIACI		SERVES			ER POLE	CIR PNL SPACE	CUIT CKT NO.					
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N.T.S. 12 SYMBOL LEGEND AND NOTES

ABOVE

34 34

36 36

38 38

40 40

42 42

16800 17729 TOTAL CALCULATED LOAD FOR PANEL:

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0 SPACE

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	ELECTRICAL SY DIMENSIONS INDICATED ARE MEASURED TO CENTER NOTE: SOME SYMBOLS SHOWN M	MBC RLINE OF AY NOT A	DL LEGEND ENCLOSURE, UNLESS OTHERWISE NOTED PPLY TO THIS PROJECT	essly	ımon law :her n these	iment, the ns rein, as an	ofessional o be used	art, for st without thorization.
SYMBOL		SYMBOL	DESCRIPTION ISINGLE POLE AC SNAP SWITCH @ +48" TO TOP	expr	s com und ot ghts i	docu lesign ed her	of pr not to	r in pa projec
E.P.	DENOTES EXPLOSION PROOF CONSTRUCTION	\$a ∳	OF BOX, U.C.N. CONTROLLED SWITCHLEG OF CIRCUIT	<u> </u>	/esit: ighta rtyric	This and d borate	ment e, is I	ole or ther p writte
D.1.		\$2 ¢	TWO POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.	Teter	reser copyr prope	plans, ideas incorț	instru servic	in wh any of arior
0.0. R.T.	DENOTES BANKING DIMENSION ON CENTER LINE OF DEVICE	₽ 3 ¢ 7	FOUR WAY AC SNAP SWITCH $@$ +48" TO TOP OF BOX 11.0 N					
UG			HORSEPOWER RATED AC SNAP SWITCH $@$ +48" TO TOP OF BOX U O N					
V.P.	DENOTES VAPOR TIGHT CONSTRUCTION		SINGLE POLE AC SNAP SWITCH WITH PILOT LAMP @ +48" TO TOP OF BOX U.O.N.					_
W.P.	DENOTES WEATHERPROOF CONSTRUCTION	¥Ρ \$⊤	DIGITAL TIMER SWITCH. FLUSH MOUNTED @ +48" TO TOP OF BOX U.O.N.					<u></u>
W.T.	DENOTES WATER TIGHT CONSTRUCTION	\$ ^	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.					CT
A.F.F.	DENOTES ABOVE FINISHED FLOOR	\$κ	KEY OPERATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.					RU L
A.F.G.	DENOTES ABOVE FINISHED GRADE	\$ cs	SYSTEM CONTROL SWITCH PER PLANS, @ 48" TO TOP OF BOX U.O.N.				z	LSV
F.B.O.	DENOTES FURNISHED BY OTHERS	\$	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX, U.O.N.				DIT	ō,
U.O.N.	DENOTES UNLESS OTHERWISE NOTED	M	OCCUPANCY SENSOR - CEILING MOUNTED				CRIF	Ц С
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.	$\langle M \rangle_W$	OCCUPANCY SENSOR - WALL MOUNTED @ +90" TO TOP OF BOX, U.O.N.				DES	С Ц Ц
(N)	DENOTES NEW	$\langle P \rangle$	LIGHTING CONTROL SYSTEM DIMMING/POWER PACK MOUNTED IN ATTIC					53
1	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET	(RP)	LIGHTING CONTROL SYSTEM PLUG LOAD RELAY PACK MOUNTED IN ATTIC				Щ	28/2
A-3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N.	(C1)	LIGHTING CONTROL SYSTEM 2-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.				DA ⁻	04/2
	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE	C 4	LIGHTING CONTROL SYSTEM 4-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.					\vdash
	CONDUIT IN ATTIC/WALL: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(C1)	LIGHTING CONTROL SYSTEM DIMMING WALL SWITCH WITH LOCKING COVER @ +48" TO TOP OF BOX, U.O.N.				ARK	
<u> </u>	CONDUIT IN FLOOR/U.G.: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(DS)	LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR - CEILING MOUNTED				M/	
	DENOTES EXISTING CONDUIT RUN TO REMAIN	nB	LIGHTING CONTROL SYSTEM NETWORK BRIDGE					
	CONDUIT RUN - STUBBED, CAPPED AND LABELED.	(nG)	LIGHTING CONTROL SYSTEM NETWORK GATEWAY		N	SINEER \star		
	CONDUIT RUN: DENOTES 3/4"C - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(AD)	LIGHTING CONTROL SYSTEM AUTOMATED DEMAND RESPONSE MODULE			S. N.	1 I E	
	CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		LIGHTING CONTROL SYSTEM TIME CLOCK		4. SS10	1777	RICK	AL.
	CONDUIT RUN: DENOTES 3/4"C - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	PC	PHOTOCELL CONTROL MOUNTED ON ROOF		ROFE	<u>96-</u> 3	LECT	5 5
+++++++	CONDUIT RUN: DENOTES 1"C - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.				C. T.	48 × 14	Ž,×)	//
$\Box \Phi$	SEPARATE POWER AND DATA FLOOR BOXES (2)	T	LOW VOLTAGE CONTROL TRANSFORMER			KEGIS	/	
(DIQ)	FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N. (2)							
θ-	TAMPER-RESISTANT SINGLE RECEPTACLE IN WALL @ +18", U.O.N.	TEZZI	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL (4)					
₽	TAMPER-RESISTANT DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	2223	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL		_	lisP(ц н	<u> </u>
€=	TAMPER-RESISTANT DUPLEX GFI RECEPTACLE, IN WALL @ 18", U.O.N.	M	TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL (5)			S OB	C L	ל ש
€	TAMPER-RESISTANT SWITCHED GFCI RECEPTACLE IN WALL @ +18" A.F.F. U.O.N. (OCC. SENSOR OR WALL SWITCH CONTOLLED)	\boxtimes	TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL		$\mathbf{\Sigma}$	FUIS	2	2 Z
€ _{WP}	TAMPER-RESISTANT WEATHER RESISTANT (W/R) DUPLEX GFCI RECEPTACLE W/ W.P. COVER @+18", U.O.N.		CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (5)		Ζ	E RS SAN		נ ג
Ð	TAMPER-RESISTANT DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", U.O.N. (7)		CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL			o I	U	n
	TAMPER-RESISTANT QUADRUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	шш	LIGHTING CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (5)		F	AUA EST	0 Ц	2 U
₽	SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ 18" U.O.N.		LIGHTING CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL			AD(Ц 2	LI Z
÷			FIRE ALARM PANEL PER PLANS, FLUSH MOUNTED IN WALL (5)			₩ _	Ċ	- 5 -
	UNSWITCHED RECEPTACLE AND ONE SWITCHED (OCC. SENSOR CONTROLLED) RECEPTACLE		FIRE ALARM PANEL PER PLANS, SURFACE MOUNTED ON WALL				Ľ	5
۵ ا	JUNCTION BOX	<u> </u>				RES ERSF	U F	0 -
	JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT	⊳s	EXTERIOR SPEAKER, ELEVATION AS NOTED		ш	FI BAKE	۔ د لا	С Ц
	NON-FUSIBLE DISCONNECT SWITCH	(s)	SPEAKER IN CEILING, U.O.N.				-	-
	FUSIBLE DISCONNECT SWITCH	<u>so</u>	SPEAKER/CLOCK IN COMMON BACKBOX PER PLAN @ 12" BELOW CEILING, U.O.N.			SALI <i>P</i>	1 ()	2
	FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER	<u> </u>	WALL CLOCK PER PLAN @ 12" BELOW CEILING, U.O.N.			NIS N		Ĩ
<u>Š</u>	ELECTRIC MOTOR	S	SPEAKER ON WALL @ 12" BELOW CEILING, U.O.N.					
Q	EXHAUST FAN OR FRACTIONAL HORSEPOWER MOTOR	\frown						
	SURFACE MOUNTED RACEWAY, MOUNT @ +18" A.F.F. U.ON.		INTRUSION ALARM SYSTEM MOTION DETECTOR (3)					
			INTRUSION ALARM SYSTEM MAGNETIC DOOR CONTACT (3)					
	RECESSED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP		INTRUSION ALARM SYSTEM MAGNETIC WINDOW CONTACT (3)			i j		
			INTRUSION ALARM SYSTEM GLASS BREAK DETECTOR (3)					
			INTRUSION ALARM SYSTEM RETPAD (3)					
			INTRUSION ALARM SYSTEM CARD READER (3)					
7			(3) SECURITY CAMERA ROUCH IN LOCATION DEP DI AN					
2		\bigcirc						
<u>n</u>		เริก						
	CEILING MOUNTED LIGHTING FIXTURE	SM	FIRE ALARM SYNC MODULE					
<u> </u>	CEILING MOUNTED LIGHTING FIXTURE WITH FMERGENCY BATTERY BACKLIP	HD	FIRE ALARM HEAT DETECTOR ON CEILING. U.O.N.					S Ш
	RECESSED LIGHTING FIXTURE		FIRE ALARM DUCT DETECTOR IN HVAC DUCT					Ē
	RECESSED FIXTURE WITH EMFRGENCY BATTERY BACKLIP	WF	FIRE ALARM WATERFLOW DETECTION SWITCH					Z
	SURFACE MOUNTED ROUND LIGHTING FIXTURE	WT	FIRE ALARM ADDRESSABLE WATERFLOW / TAMPER SWITCH MODULE					Δ
	SURFACE MOUNTED ROUND LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	TS	FIRE ALARM TAMPER SWITCH					Z
Ø	ILLUMINATED EXIT SIGN MOUNTED ON CEILING		FIRE ALARM ADDRESSABLE INPUT/OUTPUT MODULE		7			
8	ILLUMINATED EXIT SIGN MOUNTED ON WALL		FIRE ALARM ADDRESSABLE CONTROL RELAY MODULE	2	5			の 〇
Ø	LOW LEVEL PHOTOLUMINESCENT EXIT SIGN MOUNTED ON WALL	DR	FIRE ALARM DOOR RELEASE		- ≻			Z
 @-[]	POLE MOUNTED EXTERIOR LIGHTING FIXTURE	AM	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE	╘┍				山 つ
		F	FIRE ALARM MANUAL PULL STATION @ +48" TO TOP OF BOX, U.O.N.		, ≺			Щ
2/2 🗅	COMBINATION VOICE AND DATA OUTLET IN WALL, WITH TWO 'D' CABLES TO IDF		FIRE ALARM VISUAL ALARM UNIT @ +80" MINIMUM, U.O.N.		<i>4</i> 5			لــ تر ر
хÞ	DATA OUTLET IN WALL @ +18", U.O.N., WITH 'D' CABLES TO IDF OR MDF (SUBSCRIPT INDICATES OLIANTITY OF CABLES AND STATION SUPE LACKS) (1) (6)	 ⊣	INTERIOR FIRE ALARM HORN @ +10'-0", U.O.N.	🏨				S Ш
τν⊳	TELEVISION OUTLET IN WALL @ +18", U.O.N. (1)	<u> </u>	EXTERIOR FIRE ALARM HORN		ר א	ΎΕ		٦L
мÞ	MICROPHONE OUTLET IN WALL @ +18", U.O.N. (1)	AV	FIRE ALARM HORN/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.	「て) 🛁	\mathbf{A}		Ы
s⊳	SPEAKER OUTLET IN WALL @ +18", U.O.N. (1)	SV	VOICE EVACUATION SPEAKER/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.			`		뿌
ic⊳	INTERCOMMUNICATIONS HANDSET ON WALL @ +48" TO TOP OF BOX U.O.N.	<u> </u>	EXTERIOR VOICE EVACUATION SPEAKER					С С
WAP	WIRELESS ACCESS POINT LOCATION, PROVIDE TWO TYPE 'D' CABLES TO IDF OR MDF	- W	FIRE ALARM CIRCUIT END OF LINE RESISTOR	ľα	; –	-1		S S
			<u>.</u>	∣ ⊲	ì	\leq		AL
				=	ζ×	Щ,	ш	<u>0</u>
(1) RUN ABO	TTO CONCEALED IN WALL AND STUB INTO ACCESSIBLE ATTIC SPACE VE NEAREST T-BAR CEILING, U.O.N.	(5) IN A 3/4"(C (SPARE) INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR	「て		<u>с</u>		L L L
(2) RUN	1"C TO NEAREST WALL, THEN RISE CONCEALED IN WALL AND STUB	CEIL INDI	LING U.O.N REQUIREMENT APPLIES TO EACH SIGNAL SYSTEM T.C. CATED FLUSH MOUNTED ON SIGNAL PLAN.	ーて			ING	С С
INTC FOR SYS) ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. SINGLE SYSTEMS INDIVIDUAL FLOORBOXES. WHERE MULTIPLE TEMS OCCUR WITHIN A COMMON FLOOR BOX. RUN TWO 1"C PER	(6) 4S E	BACKBOX WITH SINGLE GANG TRIM AND COVERPLATE.		<pre>></pre>	1 0 CLO	DRAM	

(3) SYSTEM IS ROUGH IN ONLY, PROVIDE BACKBOX, BLANK COVERPLATE AND CONDUIT STUB PER DETAIL PLANS.

(4) IN ADDITION TO CONDUITS SHOWN ON PLANS, STUB ONE 1 1/4"C, ONE 1"C AND TWO 3/4"C (SPARE) INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. THIS REQUIREMENT APPLIES TO EACH POWER AND LIGHTING PANEL INDICATED FLUSH MOUNTED ON POWER PLAN.

(6) 4S BACKBOX WITH SINGLE GANG TRIM AND COVERPLATE.

(7) ORANGE DEVICE (ISOLATED GROUND DUPLEX RECEPT. ONLY) WITH ENGRAVED WORDING ON COVER PLATE ABOVE ISOLATED GROUND RECEPT .: "COMPUTER ONLY".

PROJECT NO. 23-12689

E800

DRAWING



PLOT DATE: 4/28/2023 10:04:10 PN

etr-file1\| Isers\iason march\Dociments\12689-F_WEI DON ES PORTABI E MODIFICATION march iason n/

LIGHTING SPECIFICATIONS

THE CONTRACTOR SHALL PROVIDE, INSTALL, CONNECT, COMI AND PLACE INTO OPERATION A COMPLETE LIGHTING SYSTEM WITH THE REQUIREMENTS OF 2022 CALIFORNIA ENERGY CODI CODE OF REGULATIONS TITLE 24, PART 6, AND AS HEREIN SPE

1.

- 2. BASIS OF DESIGN FOR LIGHTING AND LIGHTING CONTROL SYS LIGHTING SYSTEMS ARE PRIMARILY BASED ON THE USE OF DII FIXTURES AS SPECIFIED HEREIN. LIGHTING CONTROL SYSTEM BASED ON THE USE OF A DISTRIBUTED DIGITAL LIGHTING MAN SYSTEM FOR CONTROL OF INDOOR LIGHTING SYSTEMS AND A CLOCK CONTROLS FOR OUTDOOR LIGHTING SYSTEMS AND SH
- 3. PROVIDE LIGHTING FIXTURES AND CONTROL EQUIPMENT OF S RATINGS AS INDICATED BY DRAWINGS AND SCHEDULES, INCL LIMITED TO, HOUSING, LIGHT EMITTING DIODE (LED) MODULES REFLECTORS, DIFFUSERS, EMERGENCY LIGHTING UNITS, STAL ACCESSORIES, POLES AND MOUNTING HARDWARE, DIGITAL LI MANAGEMENT SYSTEM DIMMING EQUIPMENT, OCCUPANCY SE DAYLIGHT SENSORS (PHOTOSENSORS), ASTRONOMIC TIME CI POLE LIGHTING RELAYS AND CONTACTORS AND WIRING
- 4. ACCEPTANCE TESTING AND COMMISSIONING
 - A. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF STATE CERTIFIED LIGHTING CONTROLS ACCEPTANCE (CLCATT) TO ACT AS THE ACCEPTANCE TESTING AGEN THE INSTALLATION OF THE LIGHTING CONTROL SYSTE
 - B. PROVIDE THE SERVICES OF A MANUFACTURER'S FACT TIME TO ASSIST THE CLCATT REVIEW THE FUNCTIONAL SETTINGS OF THE LIGHTING CONTROL HARDWARE PEI REQUIREMENTS IN THE CALIFORNIA STATE FORMS.
 - C. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF COMMISSIONING AGENT TO PROVIDE COMMISSIONING AND OUTDOOR LIGHTING SYSTEMS. THE FOLLOWING TASKS SHALL BE COMPLETED IN ACCORDANCE WITH 2 ENERGY CODE, SECTION 120.8 BUILDING COMMISSION
- 5. TITLE 24 PART 6 DOCUMENTATION OF INSTALLATION AND ACC INDOOR AND OUTDOOR LIGHTING
 - A. THE CONTRACTOR SHALL PREPARE AND SUBMIT THE I CERTIFICATES OF INSTALLATION:
 - INDOOR LIGHTING:
 - a. CERTIFICATE OF INSTALLATION VALIDATION O COMPLIANCE (NRCI-LTI-01-E)
 b. CERTIFICATE OF INSTALLATION - ENERGY MAN
 - CONTROL SYSTEM OR LIGHTING CONTROL SYS E)
 - c. CERTIFICATE OF INSTALLATION LINE-VOLTAGE (NRCI-LTI-03-E)
 - d. CERTIFICATE OF INSTALLATION TWO INTERLO SYSTEMS (NRCI-LTI-04-E)
 - e. CERTIFICATE OF INSTALLATION POWER ADJU
 - (NRCI-LTI-05-E)
 f. CERTIFICATE OF INSTALLATION ADDITIONAL
 VIDEOCONFERENCE STUDIO LIGHTING (NRCI-L⁻)
 - OUTDOOR LIGHTING:
 - a. CERTIFICATE OF INSTALLATION OUTDOOR LIG LTO-01-E)
 b. CERTIFICATE OF INSTALLATION - EMCS - LIGHT SYSTEM (NRCI-LTO-02-E)
 - SIGN LIGHTING:
 - a. CERTIFICATE OF INSTALLATION SIGN LIGHTING
 - B. THE CERTIFIED LIGHTING COMPLIANCE ACCEPTANCE ⁻ SHALL PREPARE AND SUBMIT THE FOLLOWING CERTIF ACCEPTANCE:
 - INDOOR LIGHTING:
 - a. CERTIFICATE OF ACCEPTANCE LIGHTING CON LTI-02-A)
 - b. CERTIFICATE OF ACCEPTANCE AUTOMATIC D (NRCA-LTI-03-A)
 - . CERTIFICATE OF ACCEPTANCE DEMAND RESP CONTROLS (NRCA-LTI-04-A)
 - OUTDOOR LIGHTING:
 - a. CERTIFICATE OF ACCEPTANCE OUTDOOR MO LIGHTING SHUT-OFF CONTROLS (NRCA-LTO-02-
 - C. THE CONTRACTOR SHALL PROPERLY CALIBRATE ALL L CONTROL DEVICES AND SYSTEMS. TO VERIFY THAT TH CONTROL DEVICES AND SYSTEMS HAVE BEEN PROPER THE CONTRACTOR SHALL CONDUCT THE FOLLOWING OUTLINED IN CHAPTER 13 OF THE 2022 CALIFORNIA EN COMMISSION NONRESIDENTIAL COMPLIANCE MANUAL, TEST PROCEDURES FOR INDOOR & OUTDOOR LIGHTIN MODIFICATIONS TO THE CONTROL UNTIL IT PASSES TH
 - INDOOR LIGHTING:
 - a. 13.88 NA7.6.1 AUTOMATIC DAYLIGHTING CONTR
 b. 13.89 NA7.6.2.4 AND NA7.6.2.5 AUTOMATIC TIME ACCEPTANCE
 - c. 13.90 NA7.6.2.2 AND 7.6.2.3 OCCUPANT SENSOR
 d. 13.91 NA 7.6.3 DEMAND RESPONSIVE CONTROLS

OUTDOOR LIGHTING a. 13.92 (NA7.8) OUTDOOR LIGHTING SHUT-OFF CO

5	ELECTRICAL SPECIFICATION	a w the control of the control of th
IMISSION, TEST I IN ACCORDANCE DE, CALIFORNIA ECIFIED. STEMS: INDOOR IMMABLE LED MS ARE PRIMARILY NAGEMENT ASTRONOMIC TIME	1. ALL ELECTRICAL WORK SHOWN HEREIN SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE CURRENT REGULATIONS OF THE CALIFORNIA STATE FIRE MARSHAL, TITLES 8 AND 19 THROUGH 24 OF THE CALIFORNIA BUILDING CODE, THE CURRENT SERVING UTILITY RULES AND ALL OTHER APPLICABLE STATE AND LOCAL CODES, SAFETY ORDERS, LAWS AND ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE INTERPRETED AS TO PERMIT ANY WORK NOT IN CONFORMANCE WITH THESE REGULATIONS, CODES AND RULES. WHERE WORK IS DETAILED AND/OR SPECIFIED TO A MORE RESTRICTIVE STANDARD OR HIGHER REQUIREMENT, THAT STANDARD OR REQUIREMENT SHALL GOVERN SUCH WORK.	Teter, Inc. expressly reserves its common la copyright and other property rights in these plans. This document, t ideas and designs incorporated herein, as instrument of professio service, is not to be us, in whole or in part, for any other project witho prior written authorizat
SIGN LIGHTING. SIZES, TYPES AND LUDING, BUT NOT S, LED DRIVERS, ARTERS, WIRING, LIGHTING	2. ALL ELECTRICAL MATERIAL SHALL BE NEW AND LISTED WITH THE UNDERWRITERS LABORATORIES INC., SHALL MEET THEIR REQUIREMENTS, AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY. ALL MATERIAL FOR SIMILAR USES SHALL BE OF THE SAME TYPE, MATERIAL AND MANUFACTURER FOR EASE OF FUTURE MAINTENANCE.	TRUCTION
ENSORS, CLOCKS AND MULTI-	3. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION, AND PERFORM ALL OPERATIONS NECESSARY TO OR INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" CALLED FOR BY NOTES, SCHEDULES OR OTHERWISE INDICATED ON THESE DRAWINGS, WHETHER OR NOT SPECIFICALLY MENTIONED. MATERIALS	ESCRIPTION
A CALIFORNIA TEST TECHNICIAN NT AND VERIFY EMS. TORY TECHNICIAN	 AND EQUIPMENT PROVIDED BY OWNER WILL BE AS SPECIFICALLY NOTED. CONTRACTOR SHALL PROVIDE COMPLETE AND OPERABLE SYSTEMS OF ELECTRICAL POWER, LIGHTING, AND SIGNAL AND COMMUNICATION, AND CONNECTIONS TO ALL MECHANICAL EQUIPMENT AND CONTROLS AS INDICATED OR REQUIRED. CONTRACTOR SHALL FURNISH LABOR AND MATERIALS TO 	DATE DI 04/28/23 F
ALTEY AND THE A GOF THE INDOOR COMMISSION 2022 CALIFORNIA	 5. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN THAT ALL PROVISIONS NECESSARY TO CONFORM TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING SYSTEMS CANNOT BE SHOWN. 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. ALL INSTALLATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM 	SINEER *
NING: CCEPTANCE FOR FOLLOWING	 TO OR AVOID OBSTRUCTIONS, WITHOUT ADDITIONAL COST TO THE OWNER. ELECTRICAL CONTRACTOR SHALL PERFORM ALL CUTTING AND DRILLING OF WALLS, CEILINGS, FLOORS OR OTHER STRUCTURES NECESSARY TO FACILITATE INSTALLATION OF EQUIPMENT SPECIFIED IN THESE DRAWINGS. WHERE PATCHING OF WORK IS REQUIRED, CONTRACTOR SHALL MATCH SURROUNDING MATERIAL, FINISH AND WORKMANSHIP. 	ACJ PROFESSIONAL CRATINIA CLANAL NO. E 17773 NO. E 17773 NO. E 17773 NO. E 17773 OG-30-24 OF CALIFORNIC
OF CERTIFICATE OF	7. CONTRACTOR SHOULD VISIT THE SITE AND BECOME ACQUAINTED WITH CONDITIONS TO BE ENCOUNTERED. FUTURE FUNDS WILL NOT BE ALLOWED DUE TO FAILURE OF CONTRACTOR TO EXAMINE SITE AND TO INCLUDE EXISTING CONDITIONS IN BID.	B O
STEM (NRCI-LTI-02- EE TRACK LIGHTING DCKED LIGHTING	8. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. ARTICLES 250. ALL CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. THE GROUNDING CONDUCTOR SHALL BE BONDED TO THE METAL FRAMES OF THE FIXED ELECTRICAL EQUIPMENT.	SS AN LUIS OBISF ON NE CTE
JSTMENT FACTORS _TI-06-E)	9. CONDUIT ROUTING SUGGESTED ONLY. ALL INTERIOR BUILDING CONDUIT SHALL BE MINIMUM 3/4" EMT CONFORMING TO ANSI STANDARD C80.3, UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT MAY BE USED ONLY FOR MAKING FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT. ALL EMPTY CONDUITS SHALL BE CAPPED, LABELED AND EQUIPPED WITH A 3/16" POLYPROPYLENE	A, La
GHTING (NRCI- TING CONTROL	PULL LINE. 10. CONDUCTOR SHALL BE STRANDED COPPER TYPE THHN OR THWN, MINIMUM #12 AWG, UNLESS OTHERWISE NOTED.	
IG (NRCI-LTS-01-E) TEST TECHNICIAN	11. DEVICE PLATES ARE REQUIRED FOR ALL WIRING DEVICES, SWITCHES, OUTLETS, AND SIMILAR APPLICATIONS. SWITCHES SHALL BE IVORY IN COLOR, RATED AT 20 AMPS AND MOUNTED AT 48" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. MOUNT ALL RECEPTACLES MIN. 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.	ALA BAKERS CHITECTS
FICATES OF	12. ALL RECEPTACLES SHALL BE GROUNDED DUPLEX TYPE. RECEPTACLES IN CODE REQUIRED AREAS SHALL ADDITIONALLY BE GFCI TYPE.	A R
NTROLS (NRCA- DAYLIGHTING	13. GENERAL CONTRACTOR SHALL PAY ALL FEES FOR AND SECURE ALL NECESSARY PERMITS.	
PONSIVE LIGHTING DTION SENSOR AND 2-A)	14. 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.	
	15. CONTRACTOR SHALL PROVIDE OWNER WITH ONE COMPLETE SET OF ELECTRICAL 'AS BUILT' DRAWINGS AT THE COMPLETION OF THE JOB.	
TESTS AS NERGY , ARTICLE 13.87	16. CONTRACTOR SHALL TURN OVER TO OWNER ALL SHOP DRAWINGS, BROCHURES, CATALOGS, OPERATING MANUALS, TEST DATA AND CERTIFICATES OF COMPLETION AT JOB COMPLETION.	
NG, AND MAKE HE TEST:	17. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, IN COMPLIANCE WITH THE DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH (OSHA)	
ROL ACCEPTANCE E SWITCH R ACCEPTANCE LS ACCEPTANCE	18. ALL LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH ALL FITTINGS, LENSES, ACCESSORIES AND LAMPS, SEE NOTES AND DETAILS ON LIGHTING SHEETS AND FIXTURE SCHEDULES. REQUESTS FOR ENGINEER'S APPROVAL OF SUBSTITUTIONS SHALL INCLUDE CATALOG CUTS OF SPECIFIED ITEMS AND SUBSTITUTIONS FOR COMPARISON	
ONTROLS	19. NEMA 3R ENCLOSURES SHALL BE USED ON ALL EQUIPMENT INSTALLED OUTDOORS.	Z
	20. ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE COVERED OR SEALED UPON INSTALLATION AS TO PROVIDE FOR SAFETY AND TO ENSURE THAT OPERATION AND APPEARANCE WILL BE MAINTAINED AFTER SUBSEQUENT CONSTRUCTION OPERATIONS. 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. CONTRACTOR SHALL REMOVE ALL CEMENT, PAINT, GREASE, OIL AND OTHER FOREIGN MATERIAL.	IFICATIC ENTARY E. ATIONS
	21. CONTRACTOR SHALL TEST ALL WIRING FOR SHORTS, OPENS OR OTHER DEFECTS AND CORRECT ANY DEFECTS FOUND. CONTRACTOR SHALL DEMONSTRATE CONTINUOUS SATISFACTORY OPERATION OF ALL ELECTRICAL EQUIPMENT. THE OWNER RESERVES THE RIGHT TO OPERATE ANY SYSTEM OR EQUIPMENT PRIOR TO FINAL COMPLETION AND ACCEPTANCE OF THE WORK. SUCH PRELIMINARY OPERATION SHALL NOT BE CONSTRUED AS AN ACCEPTANCE OF ANY WORK. EACH PIECE OF EQUIPMENT AND ALL OF THE SYSTEMS SHALL BE ADJUSTED TO INSURE PROPER FUNCTIONING AND SHALL BE LEFT IN FIRST CLASS OPERATING CONDITION.	MODULAR MOD WELDON ELEM 150 DEWITT AVI CLOVIS, CA DRAWIG TITLE ELECTRICAL SPECIFIC,
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		E900