



1801 South 2nd Street, Ste. 330 McAllen, TX 78503

Addendum No. 1

DATE: Monday, June 17, 2019

PROJECT: City of Pharr/PSJA Aquatic Facility

PROJECT NO: 971805/ 1819-35-510-C011-051

LOCATION: 3001 N. Cage Blvd., Pharr, Texas 78577

FROM: Laura N. Warren, The Warren Group Architects, Inc.

The following revisions and clarifications shall be considered part of the record contract documents dated June 7, 2019 for the above referenced project and included in the contract amount. All general notes and specifications shall apply to this addendum. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.

The following scope adjustments have been made. Please adjust bids with the following noted changes:

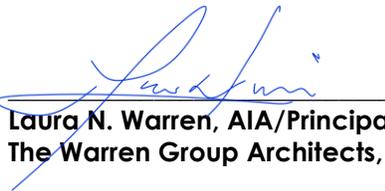
Specifications

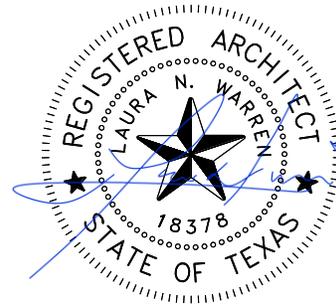
- Item No. 1:** Refer to Project Manual dated June 7, 2019. **Spec Section 07 54 23 - Thermoplastic Polyolefin Membrane Roofing_ADD1** dated June 17, 2019 has been added. Insert this section.
- Item No. 2:** Refer to Project Manual dated June 7, 2019. **Spec Section 08 41 00 Aluminum Entrances & Storefronts ADD 1** dated June 17, 2019 has been added to replace **Spec Section 08 41 00 Aluminum Framed Entrances and Storefront (Medium Stile Doors)** and **Spec Section 08 41 11 Aluminum Storefronts (Series 3000 Flush Glaze)**. Insert this section.
- Item No. 3:** Refer to Project Manual dated June 7, 2019. **Spec Section 09 50 00 - Curved Profile Ceiling Suspension Assemblies_ADD 1** dated June 17, 2019 has been added to replace **09 50 00 - Curved Profile Ceiling Suspension Assemblies** dated June 7, 2019. Insert this section.

Drawings

- Item No. 4:** Refer to Construction Documents dated June 7, 2019. Irrigation Plan has been provided. Refer to 24x36 sheet L2.0 dated 6/17/2019.
- Item No. 5:** Refer to Construction Documents dated June 7, 2019. Floor Pattern Plan has been provided. Refer to 30x42 sheet A1.41 ADD1 dated 6/17/2019.
- Item No. 6:** Refer to Construction Documents sheet A2.11 dated June 7, 2019. Note to provide different color on Building Elevation reveals has been noted. Refer to 30x42 sheet A2.11 ADD1 dated 6/17/2019.
- Item No. 7:** Refer to Construction Documents sheet A2.12 dated June 7, 2019. Additional elevations have been provided. Refer to 30x42 sheet A2.12 ADD1 dated 6/17/2019.
- Item No. 8:** Refer to Construction Documents dated June 7, 2019. Building sections have been provided. Refer to 30x42 sheets A3.01 ADD1 and A3.02 ADD1 dated 6/17/2019.
- Item No. 9:** Refer to Construction Documents sheet A6.11 dated June 7, 2019. Stonehard finish has been provided to legend and finishes have been modified in schedule. Refer to 30x42 sheet A6.11 ADD1 dated 6/17/2019.

ISSUED BY:


Laura N. Warren, AIA/Principal
The Warren Group Architects, Inc.



Attachments:

- PDF Format – 8.5"x11" 07 54 23 Thermoplastic Polyolefin Membrane Roofing ADD1 dated 06/17/2019
- PDF Format – 8.5"x11" 08 41 00 Aluminum Entrances & Storefronts ADD 1 dated 06/17/2019
- PDF Format – 8.5"x11" 09 50 00 Curved Profile Ceiling Suspension Assemblies ADD 1 dated 06/17/2019
- PDF Format – 24"x36" L2.0 dated 06/17/2019
- PDF Format – 30"x42" A1.41 ADD 1 dated 06/17/2019
- PDF Format – 30"x42" A2.11 ADD 1 dated 06/17/2019
- PDF Format – 30"x42" A2.12 ADD 1 dated 06/17/2019
- PDF Format – 30"x42" A3.01 ADD 1 dated 06/17/2019
- PDF Format – 30"x42" A3.02 ADD 1 dated 06/17/2019
- PDF Format – 30"x42" A6.11 ADD 1 dated 06/17/2019

Distribution:

Bidding Vendors
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SECTION 07 54 23
THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING

The requirements of the "General Conditions", the "Supplementary Conditions", and "Division 1" sections of the Specifications, shall apply to this section of the Specifications.

PART 1 GENERAL

- A. Related Sections: The following items of related Work will be provided under other sections of the Specifications:
 - 1. Thermoplastic Polyolefin Membrane Roofing.
 - 2. Membrane Flashings.
 - 3. Metal Flashings.
 - 4. Roof Insulation.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-In-Place Concrete: Structural concrete roof decks.
- B. Section 05310 - Metal Roof Deck.
- C. Section 06100 - Rough Carpentry: Roof blocking installation and requirements.
- D. Section 07620 - Sheet Metal Work.
- E. Section 07700 - Roof and Wall Specialties and Accessories: Roof hatches, expansion joints, pavers and other related roof accessories.
- F. Section 15430 - Plumbing Specialties: roof drains, scuppers, gutters and downspout installation and requirements.

1.3 REFERENCES

- A. American Society of Civil Engineers (ASCE) - ASCE 7 - Minimum Design Loads for Buildings and Other Structures, Current Revision.
- B. ANSI/SPRI WD-1 Wind Design Standard for Roofing Assemblies.
- C. ASTM International (ASTM):
 - 1. ASTM C 208 - Standard Specification for Cellulosic Fiber Insulating Board.
 - 2. ASTM C 578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

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3. ASTM C 1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 4. ASTM D 41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing.
 5. ASTM D 226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
 6. ASTM D 312 - Standard Specification for Asphalt Used in Roofing.
 7. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
 8. ASTM D 1079 - Standard Terminology Relating to Roofing, Waterproofing, and Bituminous Materials.
 9. ASTM D 2178 - Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing.
 10. ASTM D 4263 - Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.
 11. ASTM D 4491 - Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 12. ASTM D 4869 - Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing.
 13. ASTM D 6878 - Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing.
 14. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
- D. Factory Mutual (FM Global):
1. Approval Guide.
 - a. Factory Mutual Standard 4470 - Approval Standard for Class 1 Roof Covers.
 - b. Loss Prevention Data Sheets 1-28, 1-29.

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- E. International Code Council (ICC):
 - 1. International Building Code (IBC) 2012 edition.
 - F. National Roofing Contractors Association (NRCA) - Low Slope Roofing and Waterproofing Manual, Current Edition.
 - G. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Sheet Metal Manual.
 - H. Underwriters Laboratories (UL):
 - 1. TGFU R1306 - "Roofing Systems and Materials Guide".
 - 2. UL-790 - Standard Test Method for Fire Tests of Roof Coverings.
 - I. ANSI/ASHRAE/IESNA Standard 9.1 (2007): Energy Standard for Buildings Except Low-Rise Residential Buildings.
- 1.4 DESIGN CRITERIA
- A. Wind Uplift Performance:
 - 1. Roof system is designed to withstand wind uplift forces as calculated using the current revision of ASCE-7.
 - 2. Comply with all applicable wind speed code requirements.
 - B. Fire Resistance Performance:
 - 1. Roof system will achieve a UL Class A rating when tested in accordance with UL-790.
 - 2. Roof system will achieve a UL Class B rating when tested in accordance with UL-790.
 - 3. Roof system will achieve a UL Class C rating when tested in accordance with UL-790.
 - C. Thermal Performance: Roof system will achieve a minimum R value not less than 30.
 - D. Drainage: Provide a roof system with positive drainage where all standing water dissipates within 48 hours after precipitation ends.

- E. Building Codes:
 - 1. Roof system will meet the requirements of all federal, state and local code bodies having jurisdiction.
- 1.5 SUBMITTALS
- A. General: Submit Shop Drawings and Product Data to the Architect for review in accordance with the requirements in Section 01 33 23 - Shop Drawings and Samples, and as specified herein.
 - B. Submit under provisions of Section 01 30 00.
 - C. Reports: Submit test reports, procedure specifications and certifications as required to substantiate welded connections design and welding qualifications to the Owner's Representative and the General Contractor for review.
 - D. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - E. Detail Drawings:
 - 1. Submit approved plan, section, elevation or isometric drawings which detail the appropriate methods for all flashing conditions found on the project.
 - 2. Coordinate approved drawings with locations found on the Contract Drawings.
 - F. Selection Samples: For each finish product specified, two complete sets of chips representing manufacturer's full range of available colors, membranes, and thicknesses.
 - G. Verification Samples: For each finish product specified, two samples, minimum size 4 inches (100 mm) square representing actual product, color, and patterns.
- 1.6 QUALITY ASSURANCE
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- A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of fifteen (15) years experience.
 - B. Installer Qualifications:
 - 1. All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.
 - 2. Installer must be capable of extending the Manufacturer's Labor and Materials guarantee.
 - 3. Installer must be capable of extending the Manufacturer's No Dollar Limit guarantee.
 - C. Mock-Up: Provide a mock-up for evaluation of surface preparation, installation techniques and workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging until ready for installation.
 - B. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.
 - C. Material Safety Data Sheets (MSDS) must be on location at all times during the transportation, storage and application of materials.
 - D. When loading materials onto the roof, the Carlisle Authorized Roofing Applicator must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building structure.

1.8 PROJECT CONDITIONS

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- A. Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.
 - B. Proceed with work so new roofing materials are not subject to construction traffic. When necessary, new roof sections shall be protected and inspected upon completion for possible damage.
 - C. Provide protection, such as ½ inch thick plywood, for all roof areas exposed to traffic during construction. Plywood must be smooth and free of fasteners and splinters.
 - D. The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application of or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.
 - E. New roofing shall be complete and weather tight at the end of the work day.
 - F. Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with the roofing membrane.

1.9 WARRANTY

- A. At project closeout, provide to Owner or Owners Representative an executed copy of the manufacturer's Total System warranty, outlining its terms, conditions, and exclusions from coverage.
 - 1. Duration: 20 Years.
- B. When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain sumps. All field splices should be shingled to prevent bucking of water.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Carlisle SynTec, contact Amanda Carrington at 713-851-6153 or acarrington@southern-sustainability.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Manufacturers with comparable equivalent products may be acceptable, subject to conformance with these Specifications, the requirements of the Drawings, and the Architect's review. Refer to Specification 01 25 00 – Substitution Procedures. Please note: No substitutions will be approved after bid has been awarded.

2.2 SCOPE / APPLICATION

- A. Roof System: Provide a waterproof roof system, capable of withstanding uplift forces as specified in the Design Criteria article of this section.
 - 1. Membrane Attachment: Mechanically Attached.
- B. Base Flashing: Provide a waterproof, fully adhered base flashing system at all penetrations, plane transitions and terminations.
- C. Insulation: Provide a roof insulation system beneath the finish membrane.

2.3 INSULATION

- A. Polyisocyanurate HP-H: Rigid board with fiber reinforced facers on both sides, meeting or exceeding the requirements of ASTM C 1289. Carlisle HPH.
 - 1. Compressive Strength: 20 psi (138 kPa).
 - 2. Density: 2 lb per cubic foot (24 kg/cu m) minimum.
 - 3. Achieve R Value = 30

2.4 THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE

- A. Sure-Weld Membrane:
 - 1. Color: White.
 - 2. Membrane Thickness: 60 mil nominal.
 - a. Thickness over Scrim: 0.020 inches (0.508mm).
 - b. Breaking Strength (ASTM D 751): 250 lbf/in (1.1 kN/m) minimum.
 - c. Tear Resistance (ASTM D 751): 55 lbf/in (245 N/m) minimum.
 - d. Elongation (ASTM D 751): 25 percent.
 - 3. Field Sheet Dimensions:
 - a. Width: 10 feet (3.05 m) maximum.
 - b. Length: 100 feet (30.5 m) maximum.

2.5 FLASHING ACCESSORIES

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- A. Inside Corners: Pre-molded corner flashing for inside corners. 60 mil thickness. Color to match membrane. Special colors require custom fabrication process.
 - B. Outside Corners: Injection molded corner used for flashing outside corners. 60 mil thickness. Color to match membrane. Special colors require custom fabrication process.
 - C. TPO Curb Wrap Corners: Pre-fabricated corner flashings made from 45 mil thick reinforced Sure-Weld membrane. 6 inch (152mm) wide base flange and a 12 inch (305mm) overall height. Sizes available to fit curbs up to 6 foot by 6 foot (1828 x 1828 mm) in size. Color to match membrane. Gray, tan and special colors require custom fabrication process.

2.6 FASTENING COMPONENTS

- A. HP Fastener: Threaded, coated (E-Coat) fastener for use with steel, wood plank or oriented strand board (OSB). For insulation fastening only on TPO Mechanically Fastened Roofing Systems.
- B. HP-X Fasteners: Heavy-duty #15 threaded fastener with a Phillips head for standard TPO seam fastening (Mechanically Fastened Roofing Systems) and where increased pullout resistance is necessary for steel and wood decks (Fully Adhered Roofing Systems).
- C. HP-Xtra Fasteners: An oversized diameter #21 steel threaded fastener used with HP Extra Polymer Seam Plates for membrane securement on Mechanically Fastened Roofing Systems.
- D. InsulFast Fasteners: Threaded, #12 fastener with a #3 Phillips head used with 3 inch (76mm) diameter Insulation Plates. For insulation attachment into steel or wood decks.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Refer to Section 01 31 00-Project Management & Coordination.
- B. Refer to Section 01 73 00-Execution
- C. Do not begin installation until substrates have been properly prepared.
- D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for

achieving the best result for the substrate under the project conditions.

- C. Do not commence work until all other work trades have completed jobs that require them to traverse the deck on foot or with equipment.
- D. A vapor retarder / temporary roof (Carlisle 725 TR Air & Vapor Barrier/Temporary Roof) may be applied to protect the inside of the structure prior to the roof system installation.

3.3 INSULATION PLACEMENT

- A. Install insulation or membrane underlayment in multiple layers over the substrate with boards butted tightly together with no joints or gaps greater than 1/4 inch (6 mm). Stagger joints both horizontally and vertically if multiple layers are provided.
- B. Secure insulation to the substrate with the required mechanical fasteners or insulation adhesive in accordance with the manufacturer's current application guidelines.
- C. Do not install wet, damaged or warped insulation boards.
- D. Stagger joints in one direction unless joints are to be taped. Install insulation boards snug. Gaps between board joints shall not exceed 1/4 inch (6 mm). Fill all gaps in excess of 1/4 inch (6 mm) with same insulation material.
- E. Wood nailers must be at least 3 1/2 inches (89 mm) wide or 1 inch (25 mm) wider than adjacent metal flange. Thickness must equal that of insulation but not less than 1 inch (25 mm) thickness.
- F. Miter and fill the edges of the insulation boards at ridges, valleys and other changes in plane to prevent open joints or irregular surfaces. Avoid breaking or crushing of the insulation at the corners.
- G. Do not install any more insulation than will be completely waterproofed each day.

3.4 INSULATION ATTACHMENT

- A. Securely attach insulation to the roof deck for Mechanically Fastened Roofing Systems. Attachment must have been successfully tested to meet or exceed the calculated uplift pressure required by the International Building Code (ASCE-7) or ANSI/SPRI WD-1.
- B. Enhance the perimeter and corner areas in accordance with the International Building Code (ASCE-7) or ANSI/SPRI WD-1.
- C. Install insulation layers, maximum 4 feet by 4 feet (1220 mm by 1220 mm), applied with adhesive, coverage rate as necessary to achieve the specified attachment and uplift rating. Press each board firmly into place after adhesive develops strings when touched, typically 1-1/2 to 2 minutes after adhesive was applied, and roll with

a weighted roller. Add temporary weight and use relief cuts to ensure boards are well adhered. Stagger the joints of additional layers by a minimum of 6 inches (152 mm).

3.5 MEMBRANE PLACEMENT AND ATTACHMENT (Mechanically Attached)

- A. Unroll and position membrane without stretching. Allow the membrane to relax for approximately 1/2 hour prior to attachment. Provide and secure both perimeter and field membrane sheets in accordance with the manufacturer's most current specifications and details.
- B. Secure the membrane with the required Carlisle Fasteners and Plates centered over the pre-printed marks approximately 1-1/2 inches from the edge of the membrane sheet.
- C. Install adjoining membrane sheets in the same manner in accordance with the manufacturer's current application requirements.

3.6 SEAM WELDING

- A. Hot-air weld membrane using an Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's current guidelines. At all splice intersections, roll the seam with a silicone roller to ensure a continuous hot air welded seam.
- B. Overlay all splice intersections with Sure-Weld T-Joint Cover.
- C. Probe all seams once the hot air welds have thoroughly cooled (approximately 30 minutes).
- D. Repair all seam deficiencies the same day they are discovered.
- E. Apply Cut Edge Sealant on all cut edges of reinforced membrane (where the scrim reinforcement is exposed) after seam probing is complete. Cut Edge Sealant is not required on vertical splices.

3.7 FLASHING

- A. Flashing of parapets, curbs, expansion joints and other parts of the roof must be performed using Sure-Weld reinforced membrane or prefabricated accessories. Sure-Weld non-reinforced membrane may be used for flashing pipe penetrations, Sealant Pockets, and scuppers, as well as inside and outside corners, when the use of pre-molded or prefabricated accessories is not feasible.
- B. Follow manufacturer's typical flashing procedures for all wall, curb, and penetration flashing including metal edging/coping and roof drain applications.

3.8 DAILY SEALS

- A. On phased roofing, when the completion of flashings and terminations is not

achieved by the end of the work day, a daily seal must be performed to temporarily close the membrane to prevent water infiltration.

- B. Complete an acceptable membrane seal in accordance with the manufacturer's requirements.

3.9 CLEAN UP

- A. Perform daily clean-up to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally acceptable manner.
- B. Prior to the manufacturer's inspection for warranty, the applicator must perform a pre-inspection to review all work and to verify all flashing has been completed as well as the application of all caulking.
- C. Packaging Waste Management: Separate packaging waste materials for reuse, recycling and/or landfill.

3.10 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 08 41 00
ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.01 SUMMARY

- A. Related Documents: Conditions of the Contract, Division 1 - General Requirements, and Drawings apply to Work of this Section.
- B. Section Includes:
1. Aluminum doors complete with hardware.
 2. Thermally broken storefronts for 1" glazing.
 3. Non-thermal storefronts for 1/4" glazing.
- C. Products Furnished But Not Installed Under This Section:
1. Anchoring devices which are built into masonry.
 2. Anchoring devices which are cast in concrete.
- D. Related Sections:
1. Section 01 43 39 Mockup
 2. Section 05 50 00 Metal Fabrications.
 3. Section 06 10 00 Rough Carpentry.
 4. Section 07 92 00 Joint Sealants.
 5. Section 08 71 00 Door Hardware.
 6. Section 08 81 00 Glass Glazing.

1.02 REFERENCES

- A. Aluminum Association (AA):
1. DAF-45 Designation System for Aluminum Finishes.
- B. American Architectural Manufacturers Association (AAMA):
1. 501.2 Field Check of Metal Curtain Walls for Water Leakage.
 2. 2605 Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
 3. 606.1 Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum.
 4. 607.1 Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
 5. 608.1 Specification and Inspection Methods for Electrolytically Deposited Color Anodic Finishes for Architectural Aluminum.
 6. 701.2 Specifications for Pile Weatherstripping.
 7. Manual #10 Care and Handling of Architectural Aluminum From Shop to Site.
 8. SFM-1 Aluminum Storefront and Entrance Manual.
- C. American National Standards Institute (ANSI):
1. A117.1 Safety Standards for the Handicapped.
- D. American Society for Testing and Materials (ASTM):
1. A36 Structural Steel.
 2. A123 Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 3. B209 Aluminum and Aluminum - Alloy Sheet and Plate.

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- 4. B221 Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
 - 5. B308 Aluminum-Alloy 6061-T6 Standard Structural Shapes, Rolled or Extruded.
 - 6. E283 Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors.
 - 7. E330 Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
 - 8. E331 Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
 - E. Federal Specifications (FS):
 - 1. TT-P-641G(1) Primer Coating, Zinc Dust-Zinc Oxide (For Galvanized Surfaces).
 - 2. TT-P-645A Primer, Paint, Zinc Chromate, Alkyd Type.
 - F. Steel Structures Painting Council (SSPC):
 - 1. Paint 12 Cold-Applied Asphalt Mastic (Extra Thick Film).

1.03 SYSTEM REQUIREMENTS

- A. Design Requirements:
 - 1. Drawings are diagrammatic and do not purport to identify nor solve problems of thermal or structural movement, glazing, anchorage, or moisture disposal.
 - 2. Requirements shown by details are intended to establish basic dimension of units, sight lines and profiles of members.
 - 3. Provide concealed fastening.
 - 4. Provide entrance and storefront systems, including necessary modifications, to meet specified requirements and maintaining visual design concepts.
 - 5. Attachment considerations are to take into account site peculiarities and expansion and contraction movements so there is no possibility of loosening, weakening or fracturing connection between units and building structure or between units themselves.
 - 6. Anchors, fasteners and braces shall be structurally stressed not more than 50% of allowable stress when maximum loads are applied.
 - 7. Provide for expansion and contraction due to structural movement without detriment to appearance or performance.

1.04 SUBMITTALS

- A. General: Submit in accordance with Section 01 30 00.
- B. Product Data:
 - 1. Submit manufacturer's descriptive literature and product specifications.
 - 2. Include information for factory finishes, hardware, accessories, and other required components.
 - 3. Include color charts for finish indicating manufacturer's standard colors available for selection.
- C. Shop Drawings:
 - 1. Submit shop drawings covering fabrication, installation and finish of specified systems.
 - 2. Include following:
 - a. Fully dimensioned plans and elevations with detail coordination keys.
 - b. Locations of exposed fasteners and joints.
 - 3. Provide detailed drawings of:
 - a. Composite members.
 - b. Joint connections for framing systems and for entrance doors.
 - c. Anchorage.
 - d. System reinforcements.

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- e. System expansion and contraction provisions.
 - f. Glazing methods and accessories.
 - g. Internal sealant requirements and recommended types.
 - 4. Schedule of finishes.
 - D. Samples:
 - 1. Submit manufacturers standard samples indicating quality of finish.
 - 2. Where normal texture or color variations are expected, include additional samples illustrating range of variation.
 - 3. Submit samples for each type of glass, 12 x 12 inch size.
 - E. Qualification Data:
 - 1. Submit installer qualifications verifying years of experience.
- 1.05 QUALITY ASSURANCE
- A. Single Source Responsibility:
 - 1. To ensure quality of appearance and performance, obtain materials for systems from either a single manufacturer or from manufacturer approved by systems manufacturer.
 - B. Installer Qualifications: Certified in writing by system manufacturer as qualified for installation of specified systems.
 - C. Perform Work in accordance with AAMA SFM-1 and manufacturer's written instructions.
 - D. Conform to requirements of ANSI A117.1 and local amendments.
- 1.06 DELIVERY, STORAGE, AND HANDLING
- A. Comply with requirements of Section 01 65 00 - 01 66 00.
 - B. Protect finished surfaces as necessary to prevent damage.
 - C. Do not use adhesive papers or sprayed coatings which become firmly bonded when exposed to sun.
 - D. Do not leave coating residue on any surfaces.
 - E. Replace damaged units.
- 1.07 WARRANTY
- A. Provide warranties in accordance with Section 01 78 36.
 - B. Provide written warranty in form acceptable to Owner jointly signed by manufacturer, installer and Contractor warranting work to be watertight, free from defective materials, defective workmanship, glass breakage due to defective design, and agreeing to replace components which fail within 5 years from date of Substantial Completion.
 - C. Warranty shall cover following:
 - 1. Complete watertight and airtight system installation within specified tolerances.
 - 2. System is structurally sound and free from distortion.
 - D. Provide written warranty stating organic coating finish will be free from fading more than 10%, chalking, yellowing, peeling, cracking, pitting, corroding or non-uniformity of color, or gloss deterioration beyond manufacturer's descriptive standards for 5 years from date of Substantial Completion and agreeing to promptly correct defects.

PART 2 - PRODUCTS

2.01 MANUFACTURERS AND PRODUCTS

- A. Subject to compliance with requirements indicated, provide products by one of the following:
 - 1. Oldcastle BuildingEnvelope®, Terrell, TX.
- B. Substitutions: Submit under provisions of Section 01 63 00, a minimum of 10 days prior to bid date.
- C. Basis of Design: Oldcastle Building Envelope® Entrance & Storefront Systems:
 - 1. **Series 500 Wide Stile Doors:** (0.125" wall thickness; 1-3/4" deep), (10" bottom rail, 4-1/2" top rail, 5-1/2" verticals)
 - 2. **Series 3000 Thermal Multiplane – Center Set:** 2" x 4-1/2" thermally-broken. Door frames will be non-thermal. All designed to receive 1" glazing infill.
 - 3. **Series 2000 Non-Thermal – Center Set:** 1-3/4" x 4-1/2" for 1/4" glazing infill.

2.02 FRAMING MATERIALS AND ACCESSORIES

- A. Aluminum:
 - 1. ASTM B221, alloy 6063-T5 for extrusions; ASTM B209, alloy 5005-H16 for sheets; or other alloys and temper recommended by manufacturer appropriate for specified finish.
- B. Internal Reinforcing:
 - 1. ASTM A36 for carbon steel; or ASTM B308 for structural aluminum.
 - 2. Shapes and sizes to suit installation.
 - 3. Steel components factory coated with alkyd type zinc chromate primer complying with FS TT-P-645.
- C. Anchorage Devices:
 - 1. Manufacturer's standard formed or fabricated steel or aluminum assemblies of shapes, plates, bars or tubes.
 - 2. Hot-dip galvanize steel assemblies after fabrication, comply with ASTM A123, 2.0 ounce minimum coating.
- D. Fasteners:
 - 1. Aluminum, non-magnetic stainless steel or other non-corrosive materials compatible with items being fastened.
 - 2. Provide concealed fasteners wherever possible.
 - 3. For exposed locations, provide Phillips flathead screws with finish matching item fastened.
 - 4. For concealed locations, provide manufacturer's standard fasteners.
- E. Expansion Anchor Devices: Lead-shield or toothed-steel, drilled-in, expansion bolt anchors.
- F. Protective Coatings: Cold-applied asphalt mastic complying with SSPC-Paint 12, compounded for 30 mil thickness for each coat; or alkyd type zinc chromate primer complying with FS TT-P-645.
- G. Touch-Up Primer for Galvanized Components: Zinc oxide conforming with FS TT-P-641.
- H. Glazing Gaskets:
 - 1. Compression type design, replaceable, molded or extruded, of neoprene, polyvinyl chloride (PVC), or ethylene propylene diene monomer (EPDM).
 - 2. Profile and hardness as required to maintain uniform pressure for watertight seal.

-
- I. Weather-stripping:
1. Wool pile conforming to AAMA 701.2.
 2. Provide EPDM or vinyl-blade gasket weatherstripping in bottom door rail, adjustable for contact with threshold.
- 2.03 GLASS AND GLAZING ACCESSORIES
- A. Refer to Section 08 80 00.
- 2.04 DOOR HARDWARE: **Coordinate with 08 71 00**
- 2.05 FABRICATION
- A. Coordination of Fabrication:
1. Check actual frame or door openings required in construction work by accurate field measurements before fabrication.
 2. Fabricate units to withstand loads which will be applied when system is in place.
- B. General
1. Conceal fasteners wherever possible.
 2. Reinforce work as necessary for performance requirements, and for support to structure.
 3. Separate dissimilar metals and aluminum in contact with concrete utilizing protective coating or preformed separators which will prevent contact and corrosion.
 4. Comply with Section 08810 for glazing requirements.
- D. Entrance Doors:
1. Fabricate with mechanical joints using internal [steel] reinforcing plates and shear blocks attached with fasteners and by welding.
 2. Provide extruded aluminum glazing stops, permanently anchored on security side and removable on opposite side.
- E. Hardware:
1. **Receive hardware supplied in accordance with Section 08 71 00 and install in accordance with requirements of this Section.**
 2. Cut, reinforce, drill and tap frames and doors as required to receive hardware.
 3. Comply with hardware manufacturer's templates and instructions.
 4. Use concealed fasteners wherever possible.
- F. Welding:
1. Comply with recommendations of the American Welding Society.
 2. Use recommended electrodes and methods to avoid distortion and discoloration.
 3. Grind exposed welds smooth and flush with adjacent surfaces; restore mechanical finish.
- G. Flashings: Form from sheet aluminum with same finish as extruded sections. Material thickness as required to suit condition without deflection or "oil-canning".
- 2.06 FINISHES: Where indicated on the drawings shall be either:
- A. Organic Coating (high performance fluorocarbon):
1. Comply with requirements of AAMA 2605.
 2. Surfaces cleaned and given conversion coating pre-treatment prior to application of 0.3 mil dry film thickness of epoxy or acrylic primer following recommendations of finish coat manufacturer.
 3. Color to be **Valspar 396B031 Deep Blue**

:::::: OR :::::

- B. Clear Anodized:
 - 1. Conforming to AA-M12C22A31 and AAMA 607.1.
 - 2. Architectural Class I, etched, medium matte, clear anodic coating, 0.7 mil minimum thickness.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine conditions and proceed with Work in accordance with Section 01 40 00.

3.02 INSTALLATION

- A. Erection Tolerances:
 - 1. Limit variations from plumb and level:
 - a. 1/8 inch in 10'-0" vertically.
 - b. 1/8 inch in 20'-0" horizontally.
 - 2. Limit variations from theoretical locations: 1/4 inch for any member at any location.
 - 3. Limit offsets in theoretical end-to-end and edge-to-edge alignment: 1/16 inch from flush surfaces not more than 2 inches apart or out-of-flush by more than 1/4 inch.
- B. Install doors and hardware in accordance with manufacturer's printed instructions.
- C. Set units plumb, level and true to line, without warp or rack of frame.
- D. Anchor securely in place, allowing for required movement, including expansion and contraction.
- E. Separate dissimilar materials at contact points, including metal in contact with masonry or concrete surfaces, with bituminous paint or preformed separators to prevent contact and corrosion.
- F. Set sill members in bed of sealant. Set other members with internal sealants and baffles to provide weathertight construction.
- G. Coordinate installation of perimeter sealant and backing materials between assemblies and adjacent construction in accordance with requirements of Section 07 92 00.
- H. Glazing: Refer to requirements of Section 08 80 00.

3.03 ADJUSTING

- A. Test door operating functions. Adjust closing and latching speeds and other hardware in accordance with manufacturer's instructions to ensure smooth operation.

3.04 CLEANING

- A. Clean surfaces in compliance with manufacturer's recommendations; remove excess mastic, mastic smears, foreign materials and other unsightly marks.
- B. Clean metal surfaces exercising care to avoid damage.

END OF SECTION

SECTION 09 50 00
CURVED PROFILE CEILING SUSPENSION ASSEMBLIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Metal ceiling panels
 - 2. Exposed grid suspension system.
 - 3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings.
- B. Related Sections:
 - 1. Section 09 51 00 (09510) - Acoustical Ceilings
 - 2. Section 09 20 00 (09250) - Plaster and Gypsum Board
 - 3. Divisions 23 (15) - HVAC
 - 4. Division 26 (16) Sections - Electrical Work
- C. Alternates
 - 1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products which have not been approved by Addenda, the specified products shall be provided without additional compensation.
 - 2. Submittals which do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Panel design, size, composition, color, and finish; Suspension system component profiles and sizes; Compliance with the referenced standards.

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
 - 2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
 - 3. ASTM A 1008 "Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability"
 - 4. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
 - 5. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 6. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 7. ASTM E 1264 Classification for Acoustical Ceiling Products.
 - 8. ASTM E 1477 Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
- B. Samples: Minimum 3 inch x 3 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.
- C. Shop Drawings: Layout and details of acoustical ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.
- B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
 - a. Flame Spread: 25 or less
 - b. Smoke Developed: 50 or less
- C. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing ceiling units, permit them to reach room temperature and a stabilized moisture content.
- C. Handle ceiling units carefully to avoid any distortion or damaged units in any way.

1.7 PROJECT CONDITIONS

- A. Space Enclosure:

HumiGuard Plus Ceilings: Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard Plus performance and hot dipped galvanized steel, aluminum or stainless steel suspension systems can be installed up to 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. Cannot be used in exterior applications where standing water is present or where moisture will come in direct contact with the ceiling.

1.8 WARRANTY

-
- A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
 - 1. Acoustical Panels: Sagging and warping
 - 2. Grid System: Rusting and manufacturer's defects
 - B. Warranty Period:
 - 1. Acoustical panels: Thirty (30) years from date of substantial completion.
 - 2. Grid: Thirty (30) years from date of substantial completion.
 - 3. Acoustical panels and grid systems with HumiGuard Plus performance supplied by one source manufacturer is thirty (30) years from date of substantial completion.
 - C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.
 - 1. Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.
 - 2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Ceiling Panels:
 - 1. Armstrong World Industries, Inc.
- B. Suspension Systems:
 - 1. Armstrong World Industries, Inc.

2.2 ACOUSTICAL CEILING UNITS

- A. Acoustical Panels Type:
 - 1. Patterns:
 - a. Unperforated Panel (UPA)
 - 2. Composition: Aluminum infill panels, **660 Hill/Valley Combination**
 - 3. Color: **White**
 - 4. Size: (2' x 6') square edge lay-in
 - 5. Noise Reduction Coefficient (NRC): NA
 - 6. Flame Spread: Class A as per ASTM E 1264
 - 7. Acceptable Product: (Serpentina 3-Dimensional Ceiling System) as manufactured by Armstrong World Industries.
- B. Accessories
 - 1. Acoustical Fleece laminated backing
 - 2. Infill Panel (fiberglass infill) #820-01-00

2.3 SUSPENSION SYSTEMS

- A. Components: Main beams fabricated from painted commercial quality extruded aluminum and cross tees, base metal and end detail, fabricated from painted commercial quality hot dipped galvanized steel complying with ASTM A 653. Main beams and cross tees have a 15/16" type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel in baked polyester paint. No visual crimp marks or punch-outs on main beams or cross tees.
1. Color: **White**
 2. Serpentina vault or hill main beams curved to 60 degree arcs, hung 24" or 48" OC; straight main beam options also available for flat ceiling applications.
 3. **Prelude Cross Tees:**
 - a. **#660H/V: 2 foot, 15/16 inch**
 4. Corner Post (SPTOSCP): Pre-assembled corner
 5. Cross Tee Connector Clip (AXCCLT): Twist-in clip with pre-punched holes for attachment of cross tees to perimeter trim
 6. Semi-Concealed Components:
 - a. Inner Module Connector (SCXT24MR): Connector tee between two main runners.
 - b. Outer Module Connector (SCXT24SPT): Connector tee between main runner and perimeter trim.
 - c. Outer-to-Outer Module Connector (SCXT24SPT2): Connector tee is connection between two pieces of perimeter trim.
 - d. Speed Clip: Used to splice two semi-concealed panels together.
 7. Strong Back: Used for aid stability and squaring of the system during installation. Also eliminates hanger wires on perimeter cross tees. Note: Hanger wires are still to be attached to the main runners, not the StrongBack
- B. Edge Moldings and Trim:
1. Extruded aluminum perimeter "J" moldings (SJMS - Serpentina J Molding for shallow arcs & SJMT - Serpentina J Molding for tight arcs).
 2. For floating ceiling applications, use Serpentina Perimeter Trim (SPT) optionally.
- C. Accessories: Serpentina Hold Down Clips (#SPTCHDC) used as necessary to hold infill panels flush with suspension system.
- D. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- E. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations.

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.
- B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.

1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

- A. Install suspension system and panels in accordance with the manufacturer's installation instructions, LA 295589 and in compliance with ASTM C 636 and with the authorities having jurisdiction.
- B. Suspend main beam from overhead construction with hanger wires spaced 4'-0" on center along the length of the main runner. Install hanger wires plumb and straight.
- C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- D. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SHEET NOTES

1. REFER TO SHEET A6.21 FOR DOOR AND WINDOW SCHEDULE.
2. REFER TO SHEET A6.22 FOR DOOR AND WINDOW ELEVATIONS.
3. REFER TO SHEET A6.11 FOR FINISH SCHEDULE.

SHEET LEGEND

- CMU BLOCK
- PORCELAIN TILE
- C.J. CONTROL "V" JOINTS REFER TO 2/A5.11

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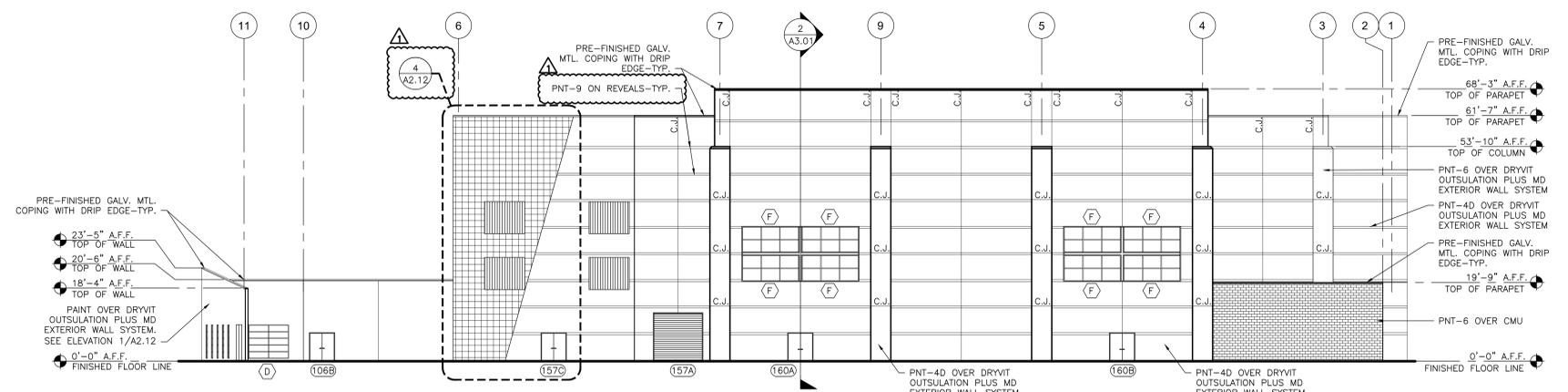


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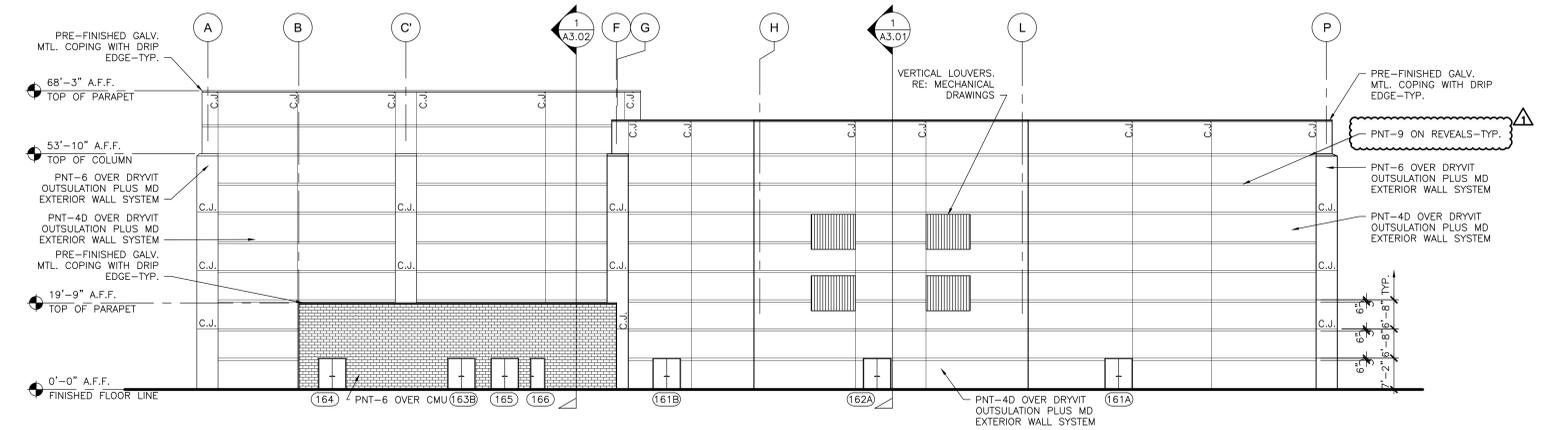
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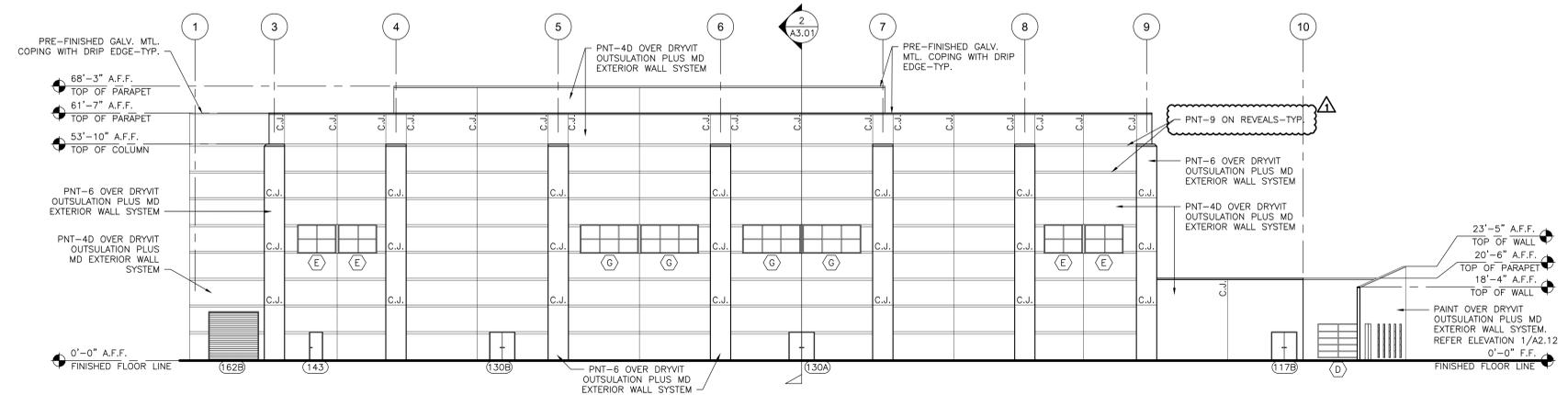
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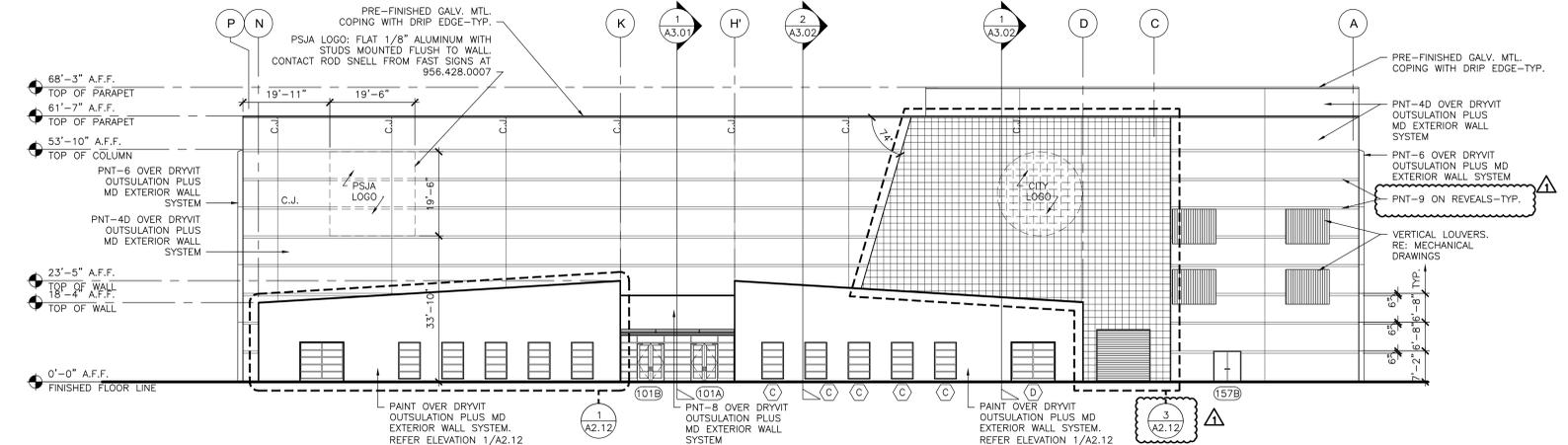
4 NORTH ELEVATION
SCALE: 1/16"=1'-0"



3 WEST ELEVATION
SCALE: 1/16"=1'-0"



2 SOUTH ELEVATION
SCALE: 1/16"=1'-0"



1 EAST ELEVATION
SCALE: 1/16"=1'-0"

SHEET NOTES

1. REFER TO SHEET A6.21 FOR DOOR AND WINDOW SCHEDULE.
2. REFER TO SHEET A6.22 FOR DOOR AND WINDOW ELEVATIONS.
3. REFER TO SHEET A6.11 FOR FINISH SCHEDULE.



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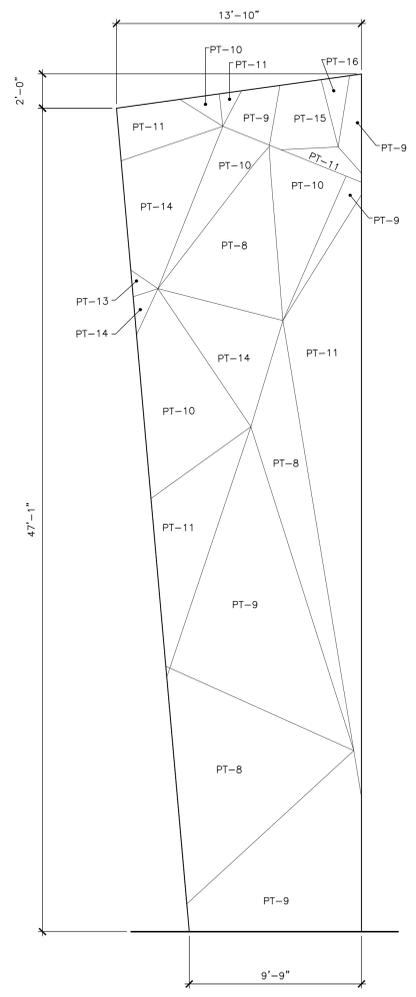


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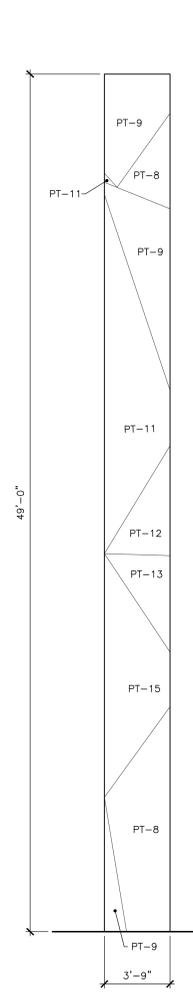
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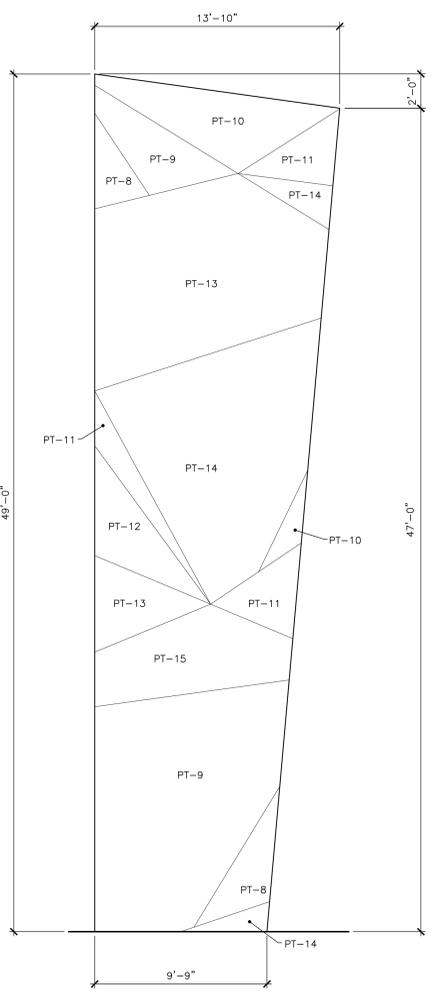
A2.12 ADD1
PARTIAL
ENLARGED ELEVATIONS



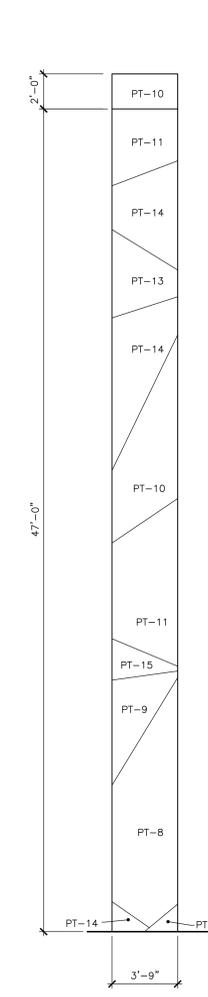
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SCALE: 1/4"=1'-0"



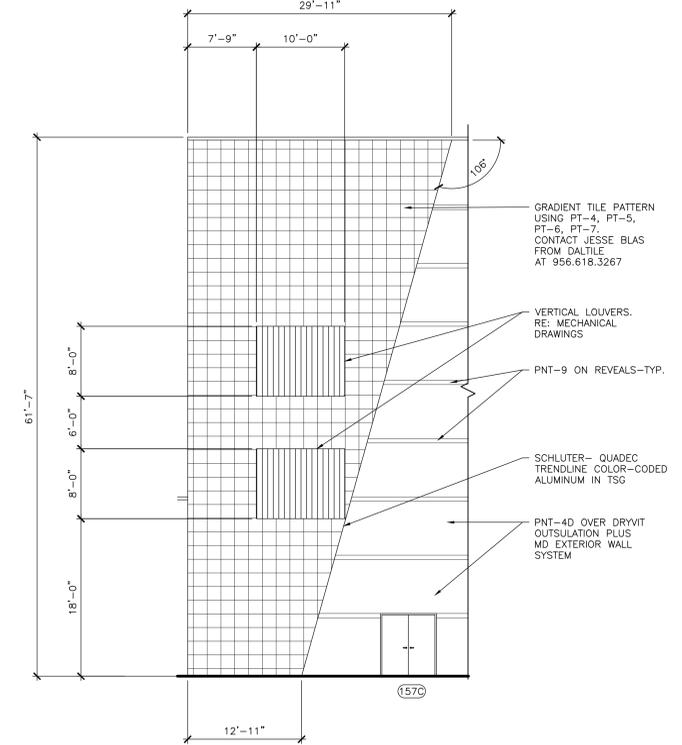
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SCALE: 1/4"=1'-0"



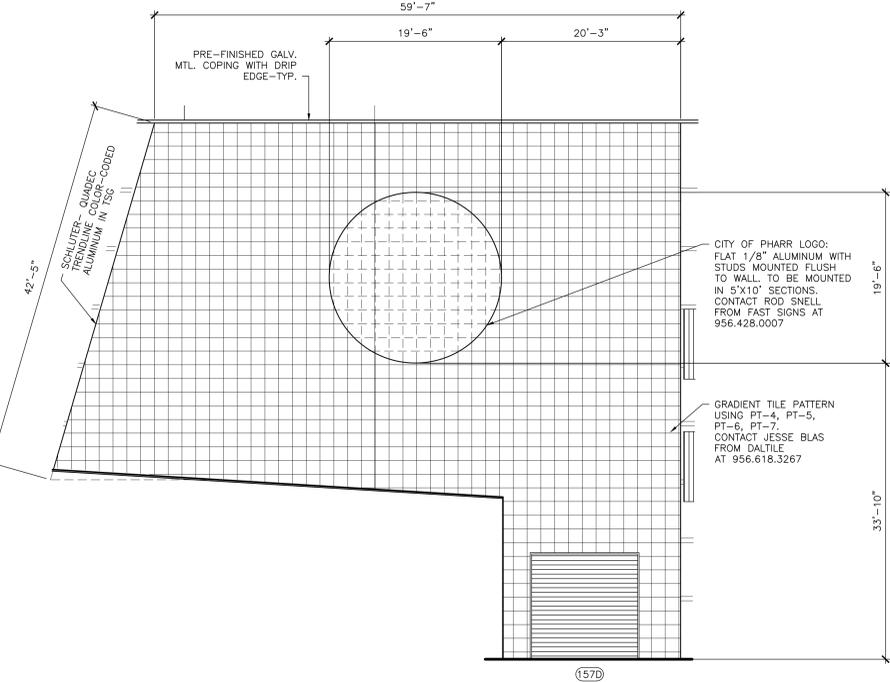
6 DIVE TOWER SOUTH SIDE ELEVATION
SCALE: 1/4"=1'-0"



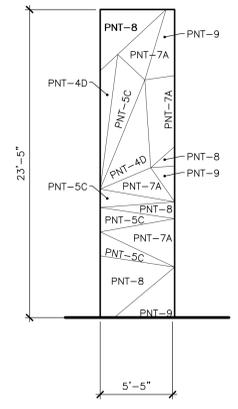
5 DIVE TOWER EAST SIDE ELEVATION
SCALE: 1/4"=1'-0"



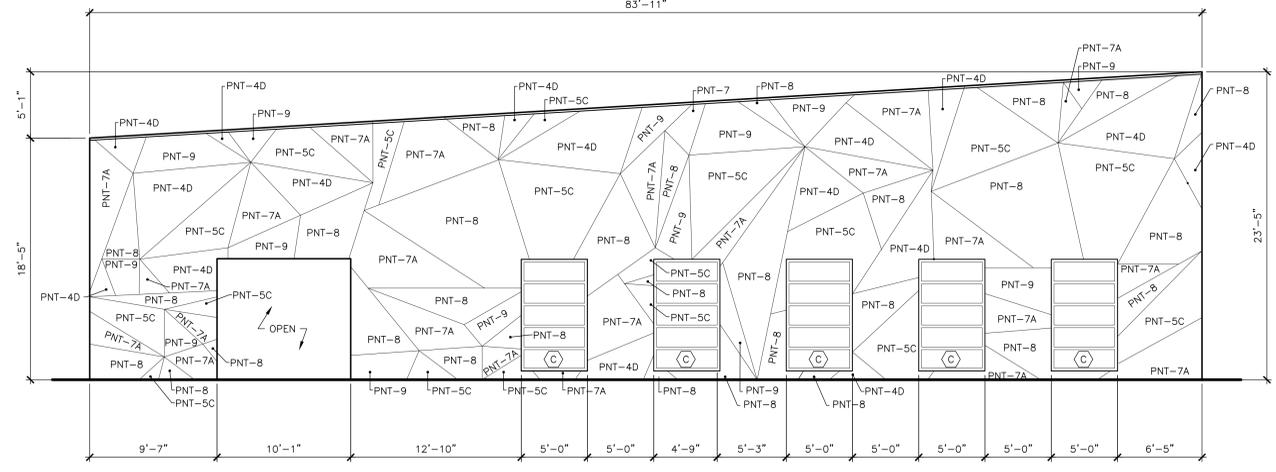
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SCALE: 1/8"=1'-0"



3 EAST ELEVATION ENLARGEMENT
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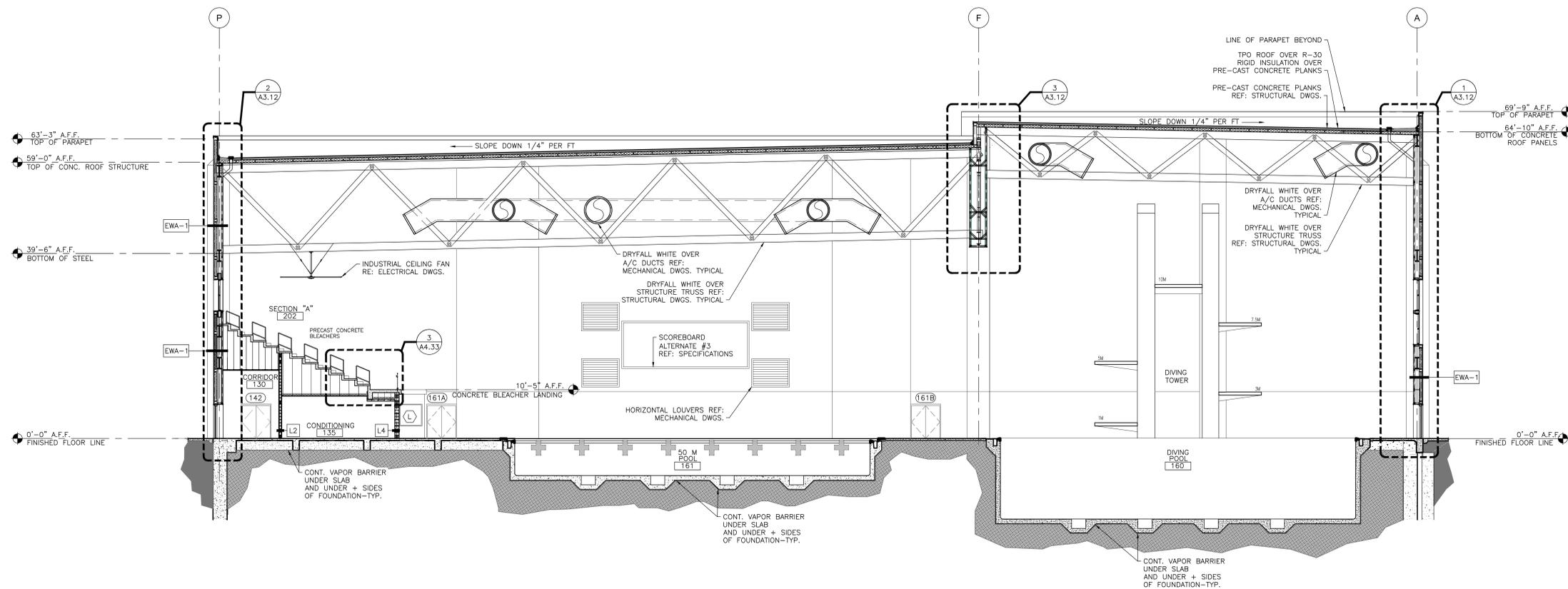


2 NORTH ELEVATION ENLARGEMENT WALL PAINT PATTERN
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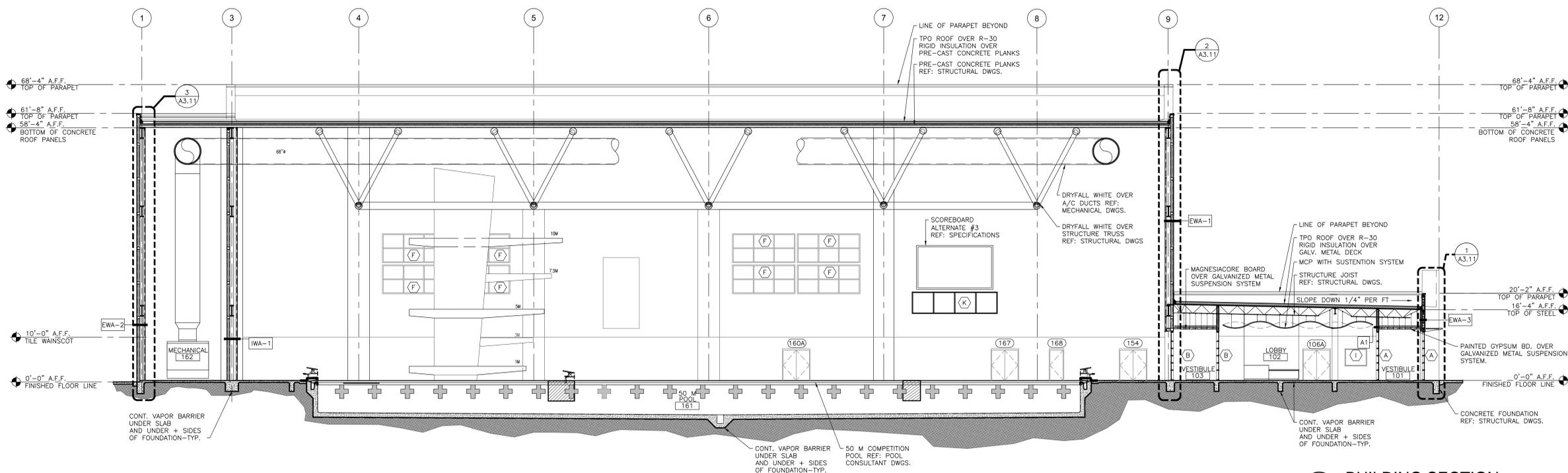


1 EAST ELEVATION ENLARGEMENT WALL PAINT PATTERN
SCALE: 3/16"=1'-0"

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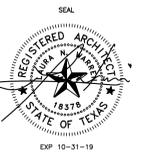


2 BUILDING SECTION
SCALE: 3/32"=1'-0"



1 BUILDING SECTION
SCALE: 3/32"=1'-0"

REVISION	DATE	DESCRIPTION
ADD1	6/17/2019	ADDITIONAL INFORMATION PROVIDED



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A3.01 ADD1
BUILDING SECTIONS

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APPROVED BY: DESCRIPTION: ADDITIONAL INFORMATION: PROVIDED:
TWG

REVISION: DATE: F/17/2019

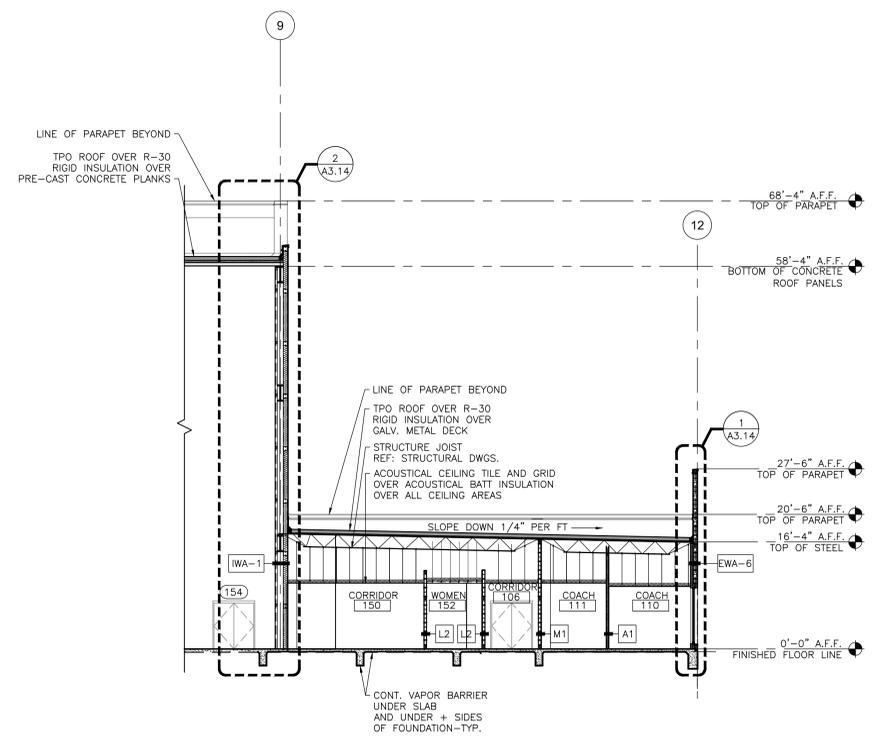


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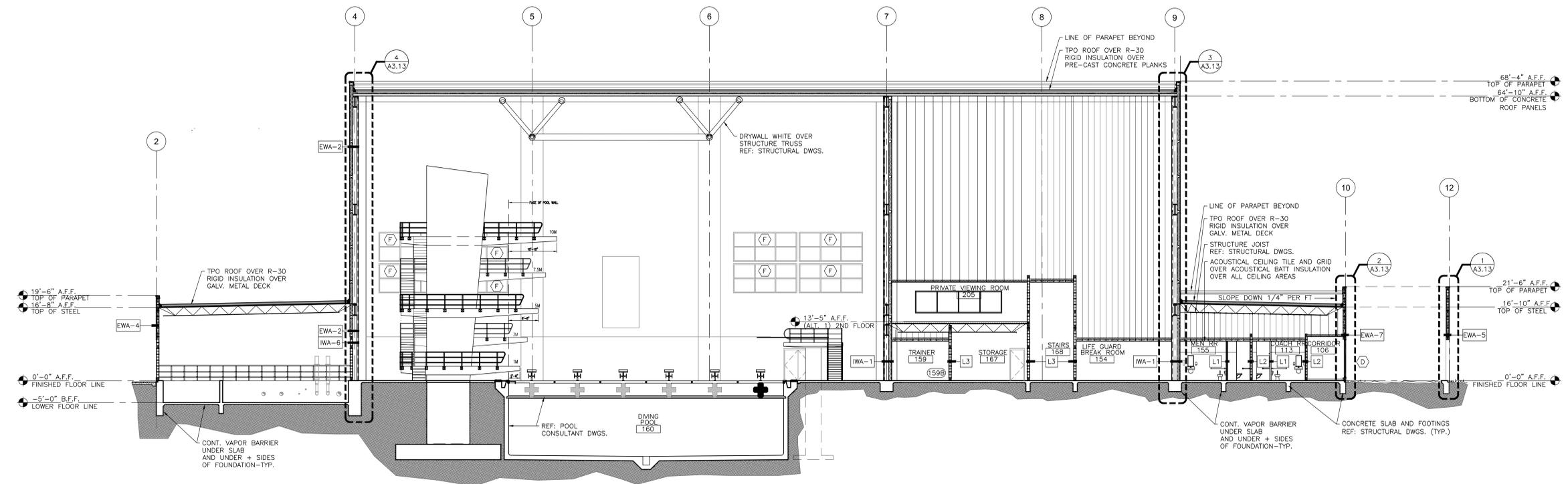
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REVISED: 06/17/2019

A3.02 ADD1
BUILDING SECTIONS



2 PARTIAL BUILDING SECTION
SCALE: 3/32"=1'-0"



1 BUILDING SECTION
SCALE: 3/32"=1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
101	VESTIBULE	-	CONC-1; RE: SPECS	PNT-1B	PNT-1B	PNT-1B	PNT-1B	GYP.BD.-2, PNT-1C	
102	LOBBY	RB-1	CONC-1; RE: SPECS	GYP.BD.-1, PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-4B	GYP.BD.-1, PNT-1B	MCP; GYP-1, PNT-2C, PNT-3C	
103	VESTIBULE	-	CONC-1; RE: SPECS	PNT-1A	PNT-1A	PNT-1A	MG, PNT-1A	MG; PNT-1A	
104	UTRGV RECEPTION	-	CONC-1	PNT-4B	PNT-1B	PNT-1B	PNT-1B	ACG-1, ACT-1; GYP-1, PNT-2C, PNT-3C	
105	ADMIN	RB-1	CONC-1	GYP.BD.-1, PNT-3B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1; GYP-1, PNT-1C	
106	CORRIDOR	-	CONC-1	PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1	
107	CORRIDOR	-	CONC-1	PNT-1B	GYP.BD.-1; PNT-1B	PNT-1B	PNT-1B	ACG-1, ACT-1	
108	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-5B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
109	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-5B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
110	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-5B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
111	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-5B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
112	CONFERENCE	RB-1	CONC-1	GYP.BD.-1, PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-4B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1; GYP-1, PNT-1C	
113	COACH RR	PT-2; GRT-2	PT-2; GRT-2	PNT-1B; CT-1; CT-2; CT-3; GRT-3	GYP-2, PNT-1C				
114	ELECTRICAL	-	CONC-1	PNT-2B	PNT-1B	PNT-1B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1	
115	PSJA RECEPTION	-	CONC-1	PNT-1B	PNT-1B	PNT-4B	PNT-4B	ACG-1, ACT-1; GYP-1, PNT-1C	
116	ADMIN.	RB-1	CONC-1	GYP.BD.-1, PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-3B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1	
117	CORRIDOR	RB-1	CONC-1	PNT-4B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-3B	PNT-4B	ACG-1, ACT-1	
118	CORRIDOR	-	CONC-1	PNT-1B	PNT-1B	PNT-2B	PNT-1B	ACG-1, ACT-1	
119	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-5B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
120	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-6B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-6B	ACG-1, ACT-1	
121	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-2B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-5B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1	
122	COACH	RB-1	CONC-1	GYP.BD.-1, PNT-1B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-5B	GYP.BD.-1, PNT-5B	ACG-1, ACT-1	
123	COACH RR	PT-2; GRT-2	PT-2; GRT-2	PNT-1B; CT-1; CT-2; CT-3; GRT-3	GYP-2, PNT-1C				
124	CONFERENCE	RB-1	CONC-1	GYP.BD.-1, PNT-4B	GYP.BD.-1; PNT-1B	GYP.BD.-1, PNT-1B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1; GYP-1, PNT-1C	
125	JANITOR	-	CONC-1	PNT-1B	PNT-1B	PNT-3B	PNT-1B	ACG-1, ACT-1	
126	IT	-	CONC-1	PNT-1B	PNT-1B	PNT-1B	GYP.BD.-1, PNT-1B	ACG-1, ACT-1	
127	CORRIDOR	RB-1	CONC-1	GYP.BD.-1, PNT-1A	GYP.BD.-1; PNT-1A	GYP.BD.-1, PNT-1A	GYP.BD.-1, PNT-1A	MG; PNT-1A	
128	ELEVATOR			REFER SPECIFICATIONS					
129	ELEVATOR EQUIPMENT	-	CONC-1	PNT-1B	PNT-1B	PNT-1B	PNT-1B	EXPOSED	
130	CORRIDOR	-	CONC-1	PNT-1A	PNT-1A	MG, PNT-2A, PNT-4A	PNT-1A	MG; PNT-1A	
131	STAIRS	-	CONC-1	PNT-2A	PNT-1A	PNT-1A	PNT-1A	PNT-1A	
132	CONCESSION	-	CONC-1	PNT-3A, PNT-1A	PNT-1A	PNT-1A	PNT-1A	ACG-1, ACT-2	
133	STAIRS	-	CONC-1	PNT-1A	PNT-1A	PNT-1A	PNT-1A	EXPOSED	
134	RR	-	CONC-1	PNT-1A; CT-1; CT-2; CT-3; GRT-3	MG; PNT-1A				
135	CONDITIONING	-	CONC-1	PNT-5A	PNT-1A	PNT-1A	PNT-1A	EXPOSED, DRYFALL BLACK	
136	STAIRS	-	CONC-1	PNT-1A	PNT-1A	PNT-1A	PNT-1A	PNT-1A	
137	CORRIDOR	-	CONC-1	PNT-1A	PNT-3A	PNT-3A	PNT-1A	MG; PNT-1A	
138	WOMEN RR	-	CONC-1	MG, PNT-1A; CT-1; CT-2; CT-3; GRT-3	MG; PNT-1A				
139	MEN RR	-	CONC-1	MG, PNT-1A; CT-1; CT-2; CT-3; GRT-3	MG; PNT-1A				
140	CLASSROOM	-	CONC-1	PNT-2A	PNT-1A	PNT-1A	PNT-1A	ACG-1, ACT-1	
141	STAIRS	-	CONC-1	PNT-1A	PNT-2A	PNT-1A	PNT-1A	PNT-1A	
142	STAIRS	RB-1	CONC-1	GYP.BD.-1; PNT-1B	GYP.BD.-1; PNT-3B	MG, PNT-3B	GYP.BD.-1, PNT-3B	EXPOSED	
143	RISER ROOM	RB-1	CONC-2	GYP.BD.-1, PNT-1A	GYP.BD.-1; PNT-1A	MG, PNT-1A	MG, PNT-1A	EXPOSED	
144	TIMING	RB-1	CONC-1	GYP.BD.-2, PNT-1A	GYP.BD.-2; PNT-1A	GYP.BD.-2, PNT-3A	GYP.BD.-2, PNT-1A	ACG-1, ACT-2	
145	STAIRS	RB-1	CONC-1	GYP.BD.-1; PNT-2B	GYP.BD.-1; PNT-3B	MG, PNT-3B	GYP.BD.-1, PNT-3B	EXPOSED	
146	CORRIDOR	PT-2; GRT-2	PT-2; GRT-2	GYP.BD.-1; PNT-1A	GYP.BD.-1; PNT-1A	GYP.BD.-1, PNT-1A	MG, PNT-2A	ACG-1, ACT-2	
147	HEAD COACH	-	CONC-1	MG; PNT-1A	GYP.BD.-2; PNT-1A	GYP.BD.-2; PNT-2A	MG; PNT-2A	MG; PNT-1A	
148	MENS RR	PT-2; PT-17; GRT-2;	PT-2; PT-17; GRT-2;	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	GYP.BD.-2, PNT-1B; CT-1; CT-2; CT-3; GRT-3	MG; PNT-1A	
149	CHANGING ROOM			NOT USED					
150	CORRIDOR	PT-2; GRT-2	PT-2; GRT-2	GYP.BD.-2, PNT-2A	GYP.BD.-2; PNT-1A	GYP.BD.-2; PNT-1A	MG, PNT-1A	ACG-1, ACT-2	
151	HEAD COACH	RB-1	CONC-1	MG; PNT-1A	GYP.BD.-2; PNT-1A	GYP.BD.-2, PNT-2A	MG, PNT-1A	MG; PNT-1A	
152	WOMENS RR	PT-2; PT-17; GRT-2;	PT-2; PT-17; GRT-2;	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; PT-1; PT-3; GRT-3	GYP-2; PNT-1B; CT-1; CT-2; CT-3; GRT-3	MG; PNT-1A	
153	CHANGING ROOM			NOT USED					
154	LIFE GUARD BREAK ROOM	-	CONC-1	PNT-3A	PNT-1A	PNT-1A	PNT-3A	MG; PNT-1A	
155	MEN RR	PT-2; GRT-2	PT-2; GRT-2	PNT-1B; CT-1; CT-2; CT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; GRT-3	MG, PNT-1B; CT-1; CT-2; CT-3; GRT-3	GYP-2, PNT-1C	
156	WOMEN RR	PT-2; GRT-2	PT-2; GRT-2	PNT-1B; CT-1; CT-2; CT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; GRT-3	PNT-1B; CT-1; CT-2; CT-3; GRT-3	MG, PNT-1B; CT-1; CT-2; CT-3; GRT-3	GYP-2, PNT-1C	
157	MECHANICAL	-	CONC-2	PNT-1A	PNT-1A	PNT-1A	PNT-1A	EXPOSED, DRYFALL WHITE	
158	FIRST AID	-	CONC-1	PNT-3A	PNT-3A	PNT-1A	PNT-1A	MG; PNT-1A	
159	TRAINER	-	CONC-1	PNT-1A	PNT-3A	PNT-3A	PNT-1A	MG; PNT-1A	
160	DIVING POOL	PT-2; GRT-1	PT-1; PT-2; PT-3; GRT-1	MG, PNT-1A	PNT-1A	PNT-1A	MG; PNT-1A, CT-2, CT-3, CT-1; GRT-3	EXPOSED, DRYFALL WHITE	
161	SOM POOL	PT-2; GRT-1	PT-1; PT-2; PT-3; GRT-1	PNT-1A	MG, PNT-1A	PNT-1A	MG; PT-4, PT-5, PT-6, PT-7, GRT-1; PT-8, PT-9, PT-10, PT-11, PT-12, PT-13, PT-14, PT-15, PT-16	EXPOSED, DRYFALL WHITE	
162	MECHANICAL	-	CONC-2	MG, PNT-1A	MG; PNT-3A	MG, PNT-1A	MG, PNT-1A	EXPOSED, DRYFALL WHITE	
163	POOL EQUIPMENT YARD	ST-1	ST-1	PNT-1A	PNT-1A	PNT-1A	PNT-1A	EXPOSED, DRYFALL WHITE	4" INTEGRAL BASE
164	ELECTRICAL	-	CONC-2	PNT-1B	PNT-1B	PNT-1B	PNT-1B	EXPOSED, DRYFALL WHITE	
165	CALCIUM HYPO SYST.	-	CONC-2	PNT-1B	PNT-1B	PNT-1B	PNT-1B	EXPOSED, DRYFALL WHITE	
166	ACID ROOM	-	CONC-2	PNT-1B	PNT-1B	PNT-1B	PNT-1B	EXPOSED, DRYFALL WHITE	
167	STAIRS	-	CONC-1	PNT-1A	PNT-1A	PNT-1A	PNT-1A	EXPOSED, DRYFALL WHITE	
168	STAIRS	-	CONC-1	PNT-1A	PNT-1A	PNT-1A	PNT-1A	PNT-1A	

GENERAL NOTES

- ALL CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISE NOTED.
- ALL WALL FINISH SURFACES TO HAVE SMOOTH FINISH - NO TEXTURE.
- ALL WALLS WITH NEW FINISHES TO RECEIVE ONE PRIMER COAT AND TWO FINISH COATS OF NEW PAINT FINISH. REFER SPECIFICATIONS.
- WOMENS RR & MENS RR ALL WALLS TO BE MOISTURE RESISTANT GYPSUM BOARD. REFER SCHEDULE FOR APPLIED FINISHES.
- REFER TO SHEET A1.41 FOR FLOOR PATTERN PLAN.
- REFER TO SHEET A1.42 FOR WALL ACCENT PAINT PLANS.
- REFER TO SHEET A4.12 FOR RESTROOM WALL TILE PATTERNS.

03 35 00 CONCRETE FINISHING

CONC-1 SEALED
CONC-2 EXPOSED

09 20 00 PLASTER & GYPSUM BOARD

GYP-1 STANDARD
GYP-2 MOISTURE RESISTANT

MG(MAGNESIACORE)
RE: SPECIFICATIONS

09 30 00 TILING

CT-1 MANUFACTURER: DALTILE
LINE/BRAND: WALL TILE
COLOR: 0190 ARCTIC WHITE
FINISH: SEMI-GLOSS
SIZE: 4"X8"

CT-2 MANUFACTURER: DALTILE
LINE/BRAND: WALL TILE
COLOR: K176 ICE CRYSTAL
FINISH: SEMI-GLOSS
SIZE: 4"X8"

CT-3 MANUFACTURER: DALTILE
LINE/BRAND: WALL TILE
COLOR: Q174 SEA BREEZE
FINISH: SEMI-GLOSS
SIZE: 4"X8"

GRT-1 MANUFACTURER: MAPEI
COLOR: 38 AVALANCHE

GRT-2 MANUFACTURER: MAPEI
COLOR: G2 PEWTER

GRT-3 MANUFACTURER: MAPEI
COLOR: 93 WARM GRAY

09 50 00 CEILINGS

ACG-1 REFER SPECIFICATIONS
SECTION 09 51 00

ACT-1 REFER SPECIFICATIONS
SECTION 09 51 13

MCP MANUFACTURER: ARMSTRONG CEILING
LINE/BRAND: SERPENTINA
COLOR: WHITE
SIZE: 24X72
PATTERN: HILL AND VALLEY

ACT-2 REFER SPECIFICATIONS
SECTION 09 51 13

09 60 00 FLOORING

PT-1 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D037- PEPPER WHITE
SIZE: 2"X2" WITH BUILD-UP BASE

PT-2 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D200 DESERT GRAY SPECKLE
SIZE: 2"X2" WITH BUILD-UP BASE

PT-3 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D159- OCEAN BLUE
SIZE: 2"X2" WITH BUILD-UP BASE

PT-4 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D617- ARCTIC WHITE
SIZE: 2"X2"

PT-5 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D159- OCEAN BLUE
SIZE: 2"X2"

PT-6 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D621- NAUTICAL BLUE
SIZE: 2"X2"

PT-7 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D189- NAVY
SIZE: 2"X2"

PT-8 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D920- SUNSHINE
SIZE: 2"X2"

PT-9 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D090- PUMPKIN SPICE
SIZE: 2"X2"

PT-10 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D017- RED
SIZE: 2"X2"

PT-11 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D622- CLEMENTINE
SIZE: 2"X2"

PT-12 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D139- CRISP LINEN
SIZE: 2"X2"

PT-13 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 4
COLOR: D091- MOON BEAM
SIZE: 2"X2"

PT-14 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 4
COLOR: D181- MUSTARD
SIZE: 2"X2"

PT-15 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 3
COLOR: D007- CINNAMON RANGE
SIZE: 2"X2"

PT-16 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 3
COLOR: D171- CITYLINE KOHL
SIZE: 2"X2"

PT-17 MANUFACTURER: DALTILE
LINE/BRAND: KEYSTONE GROUP 1
COLOR: D037- PEPPER WHITE
SIZE: 1"X1" WITH BUILD-UP BASE

CPT-1 MANUFACTURER: MANNINGTON
LINE/BRAND: RIDGELINE
COLOR: 15906 NATIVE
SIZE: 12"X48" PLANK

RB-1 MANUFACTURER: ROPPE
COLOR: 175 SLATE
SIZE: 4" COVE BASE

ST-1 MANUFACTURER: STONHARD
LINE/BRAND: 441 STONCHEM
COLOR: TO BE SELECTED BY ARCHITECT

09 90 00 PAINTING AND COATING

PNT-1A MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7757 HIGH REFLECTIVE WHITE
FINISH: EPOXY

PNT-1B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7757 HIGH REFLECTIVE WHITE
FINISH: EGGSHELL

PNT-1C MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7757 HIGH REFLECTIVE WHITE
FINISH: FLAT

PNT-2A MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6803 DANUBE
FINISH: EPOXY

PNT-2B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6803 DANUBE
FINISH: EGGSHELL

PNT-2C MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6803 DANUBE
FINISH: FLAT

PNT-3A MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9061 REST ASSURED
FINISH: EPOXY

PNT-3B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9061 REST ASSURED
FINISH: EGGSHELL

PNT-3C MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9061 REST ASSURED
FINISH: FLAT

PNT-4B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6253 OLYMPUS WHITE
FINISH: EGGSHELL

PNT-4C MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6253 OLYMPUS WHITE
FINISH: FLAT

PNT-4D MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6253 OLYMPUS WHITE
FINISH: ELASTOMERIC

PNT-5A MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7072 ONLINE
FINISH: EPOXY

PNT-5B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7072 ONLINE
FINISH: ELASTOMERIC

PNT-6 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6966 BLUEBLOOD
FINISH: ELASTOMERIC

PNT-7A MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9162 AFRICAN GRAY
FINISH: ELASTOMERIC

PNT-7B MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW9162 AFRICAN GRAY
FINISH: ENAMEL

PNT-9 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7076 CYBERSPACE
FINISH: GLOSS

PL-1 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: CITADEL 1097-MC
FINISH: MICRODOT

PL-2 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: BRITE WHITE 459-90
FINISH: GLOSS

PL-3 (REVEALS) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: BLACK 909-58
FINISH: MATTE

PL-4 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: SATURN GREY 2770-58
FINISH: MATTE

PL-5 (HORIZONTAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: WHITE DROPS 8824-58
FINISH: MATTE

SS-1 MANUFACTURER: LG HAUSYS
LINE: HI-MACS
COLOR: ARCTIC WHITE G034

12 30 00 CASEWORK

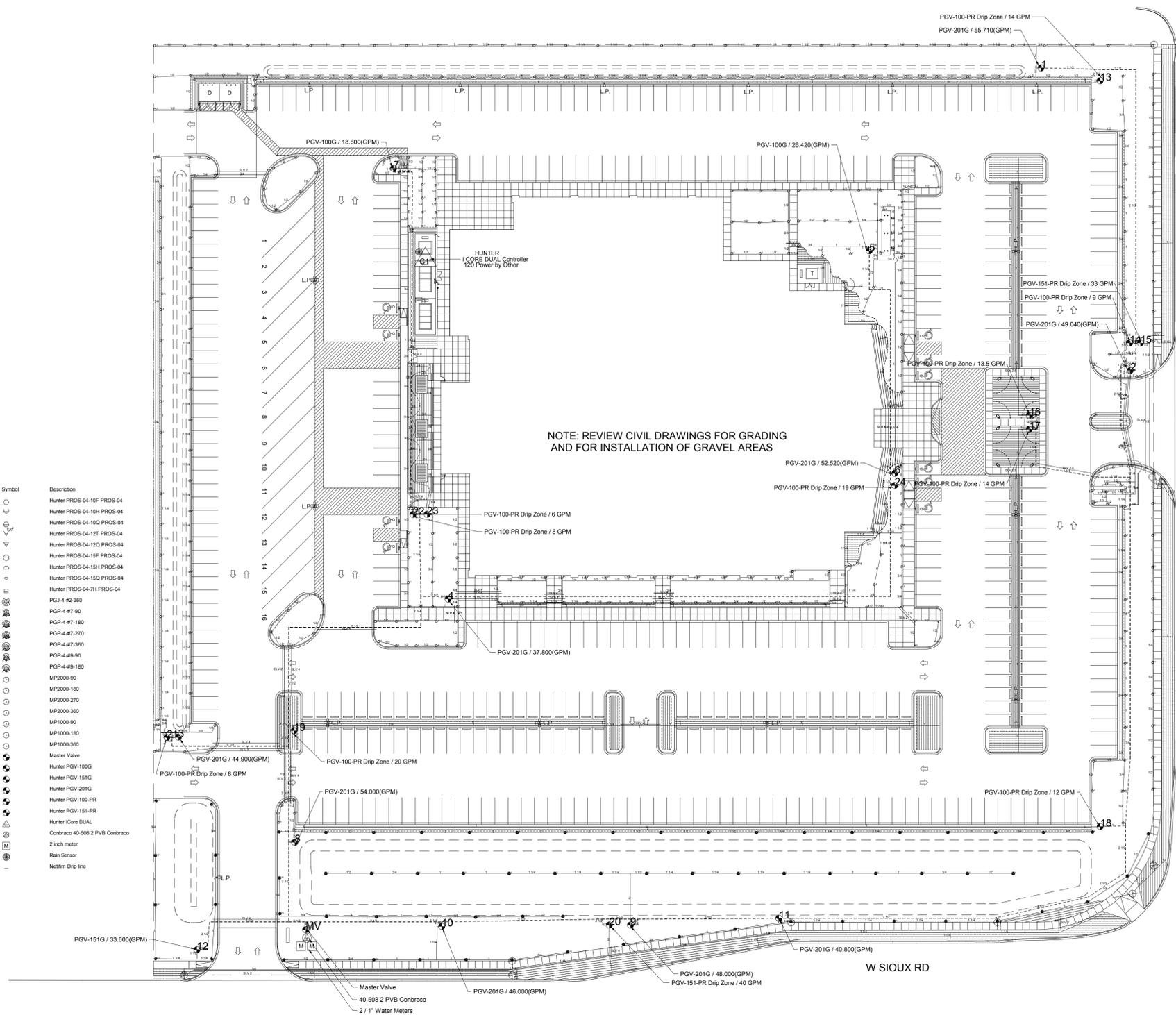
PL-1 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: BRITE WHITE 459-90
FINISH: GLOSS

PL-2 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: SATURN GREY 2770-58
FINISH: MATTE

PL-3 (REVEALS) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: BLACK 909-58
FINISH: MATTE

PL-4 (VERTICAL) MANUFACTURER: FORMICA
LINE: PLASTIC
COLOR: SATURN GREY 2770-58
FINISH: MATTE

PL-5 (HORIZONTAL) MANUFACTURER: FORMICA
LINE: PLAST



NOTE: REVIEW CIVIL DRAWINGS FOR GRADING AND FOR INSTALLATION OF GRAVEL AREAS

- Symbol Description
- Hunter PROS-04 10P PROS-04
 - Hunter PROS-04 10H PROS-04
 - Hunter PROS-04 10Q PROS-04
 - Hunter PROS-04 12T PROS-04
 - Hunter PROS-04 12Q PROS-04
 - Hunter PROS-04 15H PROS-04
 - Hunter PROS-04 15Q PROS-04
 - Hunter PROS-04 7H PROS-04
 - PGV-4-45-360
 - PGV-4-47-90
 - PGV-4-47-180
 - PGV-4-47-270
 - PGV-4-47-360
 - PGV-4-49-90
 - PGV-4-49-180
 - MP2000-90
 - MP2000-180
 - MP2000-270
 - MP2000-360
 - MP1000-90
 - MP1000-180
 - MP1000-360
 - Master Valve
 - Hunter PGV-100G
 - Hunter PGV-151G
 - Hunter PGV-201G
 - Hunter PGV-100-PR
 - Hunter PGV-151-PR
 - Hunter I-Core DUAL
 - Contraco 40-508 2 PVB Contraco
 - 2 inch meter
 - Rain Sensor
 - Netlim Drip line

CITY OF PHARR PARKING LOT CALCULATION:
 SFT OF LANDSCAPING PER STALL 18 SFT X 411 = 7,398 SFT OF LANDSCAPE AREA
 7,398 SFT / 600 = 13 UNITS
 13 Units x 2 Tree = 26 TREES 13 UNITS x 4 Shrubs = 52 SHRUBS

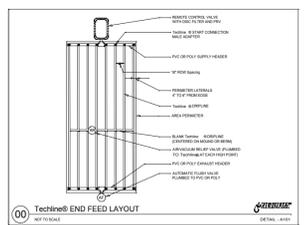
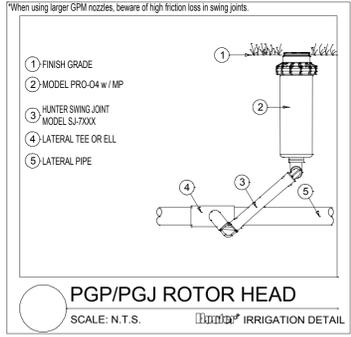
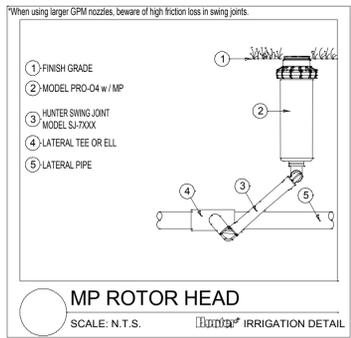
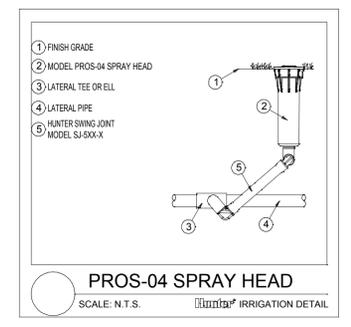
CITY OF PHARR STREET TREE CALCULATION:
 LOT FRONTAGE LINEAR FT 1,271 LFT / 50 = 26 Trees
 STREET TREES MAY COUNT TOWARDS THE PRIMARY LANDSCAPE

CITY OF PHARR LANDSCAPE CALCULATION:
 IMPERVIOUS COVERAGE 286,570 S.F. X 15% = 42,986 SFT OF LANDSCAPE AREA
 42,986 SFT / 1000 = 43 UNITS

43 UNITS x 2 Tree = 86 TREES
 > 86 Trees Provided 43 UNITS x 4 Shrubs = 176 SHRUBS
 > 176 Shrubs Provided

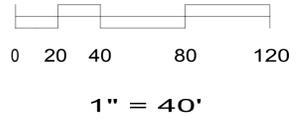
CITY OF PHARR TREE CANOPY CALCULATION:
 TOTAL LOT AREA 400,433 SFT X 10% = 40,043 SFT OF TREE CANOPY AT MATURE GROWTH

COMMON NAME OF TREE	MATURE CANOPY S.F.	QUANTITY OF TREES
3" Live Oak	1,256 SFT	29 x 1,256 = 36,424
3" FAN-TEX ASH	1,256 SFT	1 x 1,256
3" Cedar Elm	710 SFT	14 x 710 = 9,940
3" Mesquite	710 SFT	4 x 710 = 2,840
3" Wild Olive	710 SFT	4 x 710 = 2,840
8" Crape Myrtle	79 SFT	7 x 79 = 553
6-12' Washingtonia Palm	79 SFT	22 x 79 = 1,738
2.5" Retama	710 SFT	4 x 710 = 2,840
3" Royal Poinciana	710 SFT	5 x 710 = 3,550
3" Jacaranda	710 SFT	4 x 710 = 2,840
3" Mesquite	710 SFT	4 x 710 = 2,840
10' Queen Palm	79 SFT	13 x 79 = 1,027
6' TX Sabal	79 SFT	3 x 79 = 237
3" Mont. Cypress	1,256 SFT	10 x 1,256 = 12,560
		TOTAL: 81,485 SFT



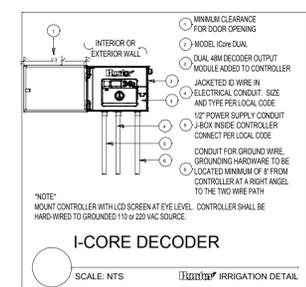
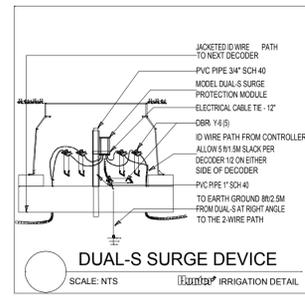
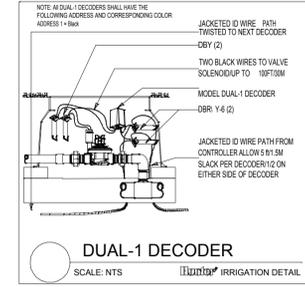
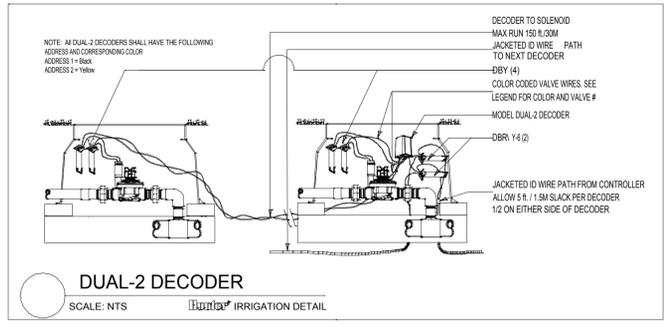
IRRIGATION PLAN

System Designed at 45 PSI.
 Irrigation Contractor Shall Notify Sprinkler System Designer of Pressure Deficiencies or Any Other Site Problems That May Alter The Effectiveness of the System.
 All Valves and Pipe to be Installed Behind Back of Curb Piping and Valves Outside of These Areas Only Shown for Drawing Purposes
 Keep All Pipe, Sprinklers, and Valves Outside of Detention Areas.



SPECIFICATIONS

Contractor shall examine the site and familiarize themselves with all conditions pertinent to his work.
 The contractor shall not willfully install the system shown when it is obvious field conditions exist which should have been considered in the design.
 This system has been design to a static pressure of 60 PSI.
 All materials to be as specified. No substitutions shall be permitted without prior approval.
 All necessary permits are the responsibility of the Irrigation contractor.
 All utility locations, cables, gas lines, water lines etc. are the responsibility of the Irrigation contractor.
 The Irrigation contractor shall have a current Texas State Irrigators licence and be bonded and insured.
 Up sizing of pipe at end locations shall be permitted at the installers discession
 Down sizing of pipe at any location is prohibited
 Pipe schedule shall be Schedule 200.
 All glue junctions shall be primed.
 Main line and lateral line depth to be 12"
 The completed Irrigation system shall be warranted for a period of 1 year.
 Irrigation contractor shall provide an as built print.



EARTH IRRIGATION & LANDSCAPING INC.
 1101 E. VALENT ST. McALEER, TX 78504
 PH. 361.956.831 FAX 361.956.831

Company Information

PROJECT TITLE
 Pharr Aquatic Center
 Pharr, TX

IRRIGATION PLAN

Seal

DATE: 6/17/2019
 FILE:
 DRAWN BY: JT
 SCALE: 1" = 40'
 SHEET: L2.0

ADJUDICATOR OF THE WORK OF THE LANDSCAPE IRRIGATOR.
 WILLIAM N. GOSSETT
 1306