# Addendum #5

**PROJECT:** CHINO AIRPORT UPGRADE PERIMETER FENCING AND SIGNAGE

ADDRESS: 7000 MERRILL AVE - CHINO, CA 91710

## **NARRATIVE OF CHANGES:**

#### **GENERAL SHEET G0.12:**

SPECIFICATION SECTION 32 31 19 PART 2 PRODUCTS – HAS BEEN REVISED TO SHOW MONTAGE II INVINCIBLE FENCE.

### **ARCHITECTURAL SHEET A10.01:**

DETAILS 1, 2 8 & 9 HAVE BEEN REVISED TO SHOW MONTAGE II INVINCIBLE FENCE.

#### **ATTACHED DOCUMENTS:**

01 60 00.A SUBSTITUTION REQUEST FORM



**SECTION 02 41 19 – SELECTIVE DEMOLITION** 

B. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work. 1. Hazardous materials have been or will be removed by Owner before start of the Work. 2. If materials suspected of containing hazardous materials are encountered, do not disturb:

immediately notify Architect and Owner per the General Conditions. Owner will remove hazardous materials under a separate contract. a. In the case of asbestos, stop work in the area of potential hazard, shut off fans and other air handlers ventilating the area, and rope off area until the questionable material is identified. Reassign workers to continue work in unaffected areas. Resume work in the area of concern after safe working conditions are verified.

1.02 REFERENCE STANDARDS

A. Conform to current adopted reference standards by date of issue of the current code cycle and the date of the Contract Documents.

B. CBC - 2022 California Building Code . CBC Chapter 19A, Concrete.

2. CBC Chapter 33, Safeguards During Construction.

C. CCR - California Code of Regulations. 1. CCR-8.4 - Title 8, Subchapter 4, Construction Safety Orders.

D. CFC - 2022 California Fire Code.

1. CFC Chapter 5. Fire Service Features. 2. CFC Chapter 7, Fire-Resistance-Rated Construction.

3. CFC Chapter 9, Fire Protection Systems. 4. CFC Chapter 33, Fire Safety During Construction and Demolition.

E. ICRI - International Concrete Repair Institute.

F. NFPA - National Fire Protection Association. 1. NFPA 241- Safeguarding Construction, Alteration and Demolition Operations.

G. Local AQMD - Local Air Quality Management District.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Pre-Demolition Conference: Conduct conference at Project site to comply with below

B. Contractor shall schedule meeting after Notice of Award to review demolition operations.

C. Attendance Required: Owner, Architect, Contractor, Demolition Subcontractors, Project Inspector.

D. Construction Process: . Contractor shall discuss overview of demolition procedures.

Contractor shall identify items to be selected by Owner for salvage. 3. Contractor shall review special requirements for equipment, safety, and noise.

E. Architect will record minutes and distribute copies within seven days after meeting to participants and those affected by decisions made.

1.04 SUBMITTALS

A. Project Record Documents accurately record actual locations of capped utilities.

B. Pre-demolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by demolition operations.

1.05 EXISTING CONDITIONS

A. Before beginning Work, investigate and verify existence and location of mechanical, drainage, and electrical systems and other construction affecting Work, including underground utilities.

B. Before construction, survey and record points of connection of utility services. C. Locate invert elevation at points of connection to existing sanitary - and storm drain, water-service

piping, and underground electrical services. D. Employ a utility service locator company to locate underground utilities.

E. Verify Owner's Record Drawings. F. Furnish survey of existing utilities.

PART 2 - PRODUCTS

2.01 NOT USED. PART 3 - EXECUTION 3.01 PREPARATION

A. Disconnect, remove and cap designated utility services within demolition areas. Notify Owner 48 hours in advance of any utility shut down.

B. Prior to commencement of demolition operations, notify Underground Service Alert of Southern California (800) 422-4133, Monday through Friday, 7:00 A.M. to 5:00 P.M.

Protect existing items that are not indicated to be altered. 2. Adequately protect staff and public from harm and accident during demolition operations by the erection of proper barricades, signs, lighting, guard rails or other safety precautions. Conform to

Title 8, Subchapter 4, CCR and NFPA 241. 3. Protective Devices: Install substantial enclosures, weatherproof and dust-proof shields, protective covers, screens and similar devices. Erect and move when necessary to permit use of existing rooms, areas or facilities. Remove entirely when their use is no longer essential. Patch or repair all

D. Survey of Existing Conditions: Record existing conditions by use of [measured drawings] [preconstruction photographs or video] [and] [templates]. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video of conditions that might be misconstrued as damage caused by salvage operations.

3.02 TEMPORARY MEASURES - LIFE SAFETY

areas where devices have been removed.

A. Maintain free and unobstructed access to emergency services per Title 19, CFC 503.1; 503.1.1, 503.4; and Appendix D, CFC Chapter 33 Sections 3310.1; 3312.1 and when required by Owner.

B. Post NO SMOKING signs in English and Spanish, in number and location as approved by Architect.

C. Reduce flammable and combustible fire load to minimum by daily removal of debris.

D. Instruct construction personnel in fire safety and fire drill policies appropriate for areas where demolition operations occur.

E. Deployment, disposition, administration and implementation of any and all safety measures shall be sole responsibility of Contractor.

3.03 EXECUTION A. Demolish in orderly and careful manner. Maintain protected egress and access at all times.

B. Except where noted otherwise, immediately remove demolished materials from site and dispose legally. Do not utilize Owner's disposal system.

C. Remove materials to be re-installed or retained in manner to prevent damage. Store and protect until re-installation.

D. Do not burn or bury materials on site

E. Upon completion of Work, leave areas of Work in clean condition. 3.04 SELECTIVE DEMOLITION, REPAIR AND ALTERATIONS WORK

A. New and existing Work that is cut into, altered, damaged, relocated or reinstalled shall be restored to original conditions. Workmanship and materials to conform to applicable provisions of other applicable Sections of Specifications.

B. Cutting Equipment: Jack-hammers and vibratory cutting equipment may be utilized under following

Approval by Owner. Time of day and duration of Work on each given day shall be coordinated with Project Inspector and Owner. Minimum of 24 hours advance notice required.

3. Compressors shall be well muffled. 4. Every consideration shall be exercised toward comfort of staff and public. Excessive noise or vibrations will constitute just cause for immediate stoppage of Work.

C. Asphalt Paving: remove AC paving including sub-base where indicated in drawings and disposed in legal dumpsites, crushing operations on site and re-use of pulverized AC not permitted. Removal of concrete flatwork: remove concrete paving (panel) to the nearest expansion joint or

contraction joint and provide matching concrete surface to abut to new work at same finish levels unless

E. Miscellaneous Removal Items: Items not specifically mentioned shall be removed as indicated on

**END OF SECTION** 

SECTION 32 16 00 - CONCRETE PAVING, CURBS, AND WALKS

PART 1 - GENERAL

1.1 SECTION INCLUDES: Description of requirements for materials, fabrications and installation of Curbs. Gutters and Walks and accessory items as shown on drawings and necessary to complete the Concrete Work. Work to include but not be limited to the following:

1.1.1 Examine all other sections for work related to those sections which are required to be

included as work of this Section. 1.1.2 Concrete curbs, gutters, walks and concrete pavements.

1.2 SUBMITTALS:

1.3 QUALITY ASSURANCE:

1.2.1 Provide manufacturer's product data for all materials used and printed recommendations for installation.

1.2.2 Submit all shop drawings as requested by Architect for review and approval, to verify conformance with applicable codes and agencies having jurisdiction.

1.3.1 Regulatory Requirements: Comply with applicable portions of codes and regulations of governmental agencies having jurisdiction.

1.3.2 Qualifications: Use skilled workers who are thoroughly trained and experienced and who are completely familiar with the specified requirements and methods to perform and complete the scope of work under Contract.

1.3.3 Protection: Provide all necessary barricades or temporary fencing necessary to protect public and finished work from injury or damage until work is complete.

PART 2 – PRODUCTS AND EXECUTION:

2.1 MATERIAL AND WORKMANSHIP: Conform to the applicable sections of "Standard Specifications for Public Works Construction", latest Edition, and all errata and addenda thereto except where noted otherwise in this Section.

2.3 COLOR AS APPROVED BY: Architect.

2.3 FINISH: 2.3.1 See Paragraph 3.11.2 for ramps and walk finish.

2.4 CRACKING:

2.4.1 Any portion of concrete pavement which develops cracks shall be removed to the nearest joint and replaced. Replaced portions shall match adjacent concrete in texture color and elevation.

2.5 EXPANSION JOINT FILLER: 2.5.1 Premolded Joint Filler: Premolded joint filler shall consist of premolded strips of a durable resilient material, and shall be one of the following:

2.5.1.1 Preformed Expansion Joint Filler (Bituminous) ASTM D 994

2.5.1.2 Nonextruding and Resilient Filler (Bituminous) ASTM D 1751

2.5.1.3 Nonextruding and Resilient Filler (Non-bituminous) ASTM D 1752

PART 3 – EXECUTION:

3.1 PREPARATION:

3.1.1 Base Course: Sub-grade shall be prepared in accordance with Section 312200 Earthwork. 3.2 INSTALLATION:

3.2.1 Formwork: 3.2.1.1 Stake rigidly at 4 feet on centers and secure against displacement. Formwork shall

3.2.1.2 Carefully set forms to alignment, grade, and required dimensions. Hold forms

not deviate more than 1/2-inch from required vertical positions and 1 inch from required

rigidly in place by stakes, clamps, spreaders, and braces where required to insure rigidity. 3.2.1.3 Apply form release to form lumber in accordance with manufacturer's recommendations.

3.2.1.4 Place joint filler on vertical surfaces in contact with concrete paving.

3.2.2 REINFORCEMENT: Upon completion of base course and formwork, install reinforcement where shown on the Contract Drawings. 3.2.2.1 Clean reinforcement to remove loose rust and mill scale, earth, and other

materials which reduce or destroy bond with concrete.

3.2.2.2 Position, support, and secure reinforcement against displacement by concrete placement operations.

3.2.2.3 Place reinforcement to obtain the required coverage for concrete protection. 3.2.2.4 All slabs and concrete walkways shall conform to the guidelines and recommendations of the American Concrete Institute for reinforcement of cast-in-place

concrete slabs. Care shall be taken to place the reinforcement mid-height in the slab. 3.3 QUALITY ASSURANCE:

3.3.1 All work shall be installed by a Licensed Contractor who shall provide a foreman or supervisor who has experience with and knowledge of concrete processes.

The Contractor shall provide a jobsite surface finish sample (100 square feet or 9.3 square meters minimum) to be approved by the Architect prior to the start of the construction. Said sample shall be the standard for the balance of the work installed, and shall be protected against damage until final approval from the Architect. The cost for the construction and protection of the referee sample shall be borne by the Contractor and shall be part of the Contractor's bid.

3.4 CONCRETE MIX DESIGN:

3.4.1 For new construction, concrete shall have a minimum compressive strength as follows:

3.4.1.1 Concrete curbs, gutters, sidewalks, and driveway aprons: 2500 psi, concrete type 520-C-2500 in accordance with latest "Greenbook" specifications

3.4.1.2 Concrete cross gutters, ribbon or valley gutters, trash enclosure slabs, and any pavement not otherwise specified: 3250 psi, concrete type 560-C-3250 in accordance with latest "Greenbook" specifications

3.4.1.3 Storm drain catch basins and manholes: 3250 psi, concrete type 560-C-3250 in accordance with latest "Greenbook" specifications

3.4.2 Portland cement shall conform to ASTM C150 Type II. Aggregates shall conform to ASTM C33. Mixing water shall be fresh, clean and potable. No admixtures containing calcium chloride shall be permitted.

3.5 CURING FOR NEW CONSTRUCTION:

3.5.1 All slabs shall be cured properly using conventional five (5) day water cures or using membrane-forming curing agents. 3.6 INSTALLATION PROCEDURES

3.6.1 For new construction, concrete shall be installed in accordance with the standards and specifications of the American Concrete Institute (ACI).

3.6.1.1 Concrete shall be tested in accordance with ASTM F1869-98 and/or ASTM E1970-97

3.6.1.2 Concrete shall have a pH level between 7-9. 3.6.1.3 Construction joints shall be transferred through the finished surface by tooling them into the finished surface. Construction joints may be filled using a semi-rigid

elastomeric material in accordance with manufacturer's recommendations. 3.7 PROTECTION AND MAINTENANCE:

3.7.1 Newly completed surfaces shall be protected.

3.8 APPLICATION:

3.8.1 Concrete:

3.8.1.1 Mixing: Transit mix the concrete in accordance with provisions of ASTM C94. 3.8.1.2 Conveying and Placing: Place concrete in accordance with pertinent

recommendations contained in ACI 304 and with the following:

3.8.1.2.1 Deposit concrete continuously in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause formation of seams or places of weakness within the section.

3.8.1.2.2 Deposit and consolidate concrete in a continuous operation within the limits of construction joints until the placing of a panel or section is completed.

3.8.1.2.2.1.1 Bring surfaces to the correct level with a straight- edge, and then strike off.

contaminated by foreign materials.

3.8.1.2.2.1.2 Use bullfloats or derbies to smooth the surface, leaving it free from bumps and hollows. 3.8.1.2.3 Do not sprinkle water on the plastic surface. Do not disturb the

> surfaces prior to start of finishing operations. 3.8.1.2.4 Do not use concrete which has become non-plastic and unworkable, which does not meet required quality control limits, or which has been

3.9 CONTROL JOINTS / WEAKENED PLANE JOINTS:

to the direction of travel.

3.9.1 Tops of joints shall be installed flush with the concrete surface. Depth of joint shall be a minimum of 1/4 the thickness of slab. Use control joints/weakened plane joints on curbs, curbs and gutters, ribbon or valley gutters, and cross gutters at maximum intervals of 10 feet on center. Sawed joints may be used in lieu of the above upon Architect's written approval providing they are at least 1-1/2 inch deep.

3.10 FINISHES:

3.10.1 Paved areas between buildings will consist of various different finishes such as medium and heavy broom, steel trowel exposed aggregate and rock salt. See architectural drawings for specific type of finish for these areas including colored concrete.

3.10.2 Walks, Pavements, Ramps: Unless otherwise noted, medium broom finish perpendicular to longitudinal direction of walks, and at exterior ramps heavy broom finish. 3.10.2.1 Slopes Less Than 6 percent: Surfaces with a slope of less than 6 percent gradient

3.10.2.2 Slopes 6 percent or Greater: Surfaces with a slope of 6 percent gradient or greater shall be slip-resistant, equivalent to a heavy broom finish.

shall be at least as slip-resistant as that described for medium broom finish, perpendicular

3.10.3 Gutters: Light broom finish with 3 inch wide steel trowel finish at flowlines.

3.10.4 Concrete mow strips or headers: Medium broom finish.

3.10.5 Portland cement concrete paving shall be stable, firm, and slip resistant and shall comply with CBC Sections 11B-302 and 11B-403.

3.11.1 Comply with California Building Code, Title 24, Section 1903A.11, Part 2. 3.11.1.1 Begin final curing procedures immediately following initial curing and before

301 procedures. Avoid rapid drying at end of final curing period. 3.11.2 Curing Methods: Perform curing of concrete by curing as herein specified.

3.11.2.1.2 Continuous water-fog spray.

3.11.2.1 Provide moisture-curing by the following methods: 3.11.2.1.1 Keep concrete surface continuously wet by covering with water.

3.11.2.1.3 Covering concrete surface with specified absorptive cover, thoroughly saturating cover with water and keeping continuously wet. Place absorptive cover to provide coverage of concrete surfaces and edges, with 4 inch lap over adjacent

concrete has dried. Continue final curing for at least seven (7) days in accordance with ACI

3.11.2.2 Provide curing and sealing compound to exposed exterior slabs, walks, and curbs,

3.11.2.2.1 Applied specified curing and sealing compound to concrete slabs as soon as final finishing operations are complete (within 2 hours). Apply uniformly in continuous operation by power-spray or roller in accordance with manufacturer's directions. Re-coat areas subjected to heavy rainfall within 3 hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.11.2.2.2 Do not use membrane curing compounds on surfaces which are to be covered with coating material applied directly to concrete, liquid, floor hardener, waterproofing, damp-proofing, membrane roofing, flooring (such as ceramic or quarry tile, glue-down carpet), painting, and other coatings and finish materials, unless otherwise acceptable to Architect.

3.11.2.2.3 Concrete slabs and paving shall be properly cured and protected against damage and defacement of nature during construction operations. If weather is hot or surface has dried out, spray surface with fine mist of water starting not later than 2 hours after final troweling. Surface of finish shall be kept continuously wet for at least 10 days. Wetting is considered emergency work and shall be performed on weekends and holidays, if necessary.

3.11.3 In lieu of water curing, within 24 hours after finishing, the concrete may be cured with a clear liquid curing compound such as "Sealtight No. 1100 Clear" by W.R. Meadows or equal applied in accordance with manufacturer's recommendations.

3.12.1 Flood Tests: Concrete gutters and concrete pavement shall be given a flood test in the presence of the Inspector. Concrete work where water ponds and does not run off in a reasonable amount of time, shall be removed to the nearest score or joint line and replaced to provide proper drainage. Use a water hose to flood test concrete areas. If water stands 1/8 inches in height or more, then remove the section of concrete from concrete joint to concrete joint.

**END OF SECTION** 

3.12 FIELD QUALITY CONTROL:

SECTION 32 31 19 - FENCES AND GATES - ORNAMENTAL METAL

1.01 SUMMARY

PART I - GENERAL

A. Section Includes B. Ornamental Metal Fencing

C. Manually operated, swing gates D. Rough and finish hardware, fasteners, and related accessories

1.02 REFERENCE STANDARDS

A. Conform to current adopted reference standards by date of issue of the current code cycle and the date of the Contract Documents.

B. American Society for Testing and Materials (ASTM) ASTM A36 - Carbon Structural Steel ASTM A123 - Zinc (Hot-Dipped Galvanized) Coatings on Iron and Steel Products ASTM A307 - Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength

 ASTM A641 - Standard Specifications for Zinc-Coated (Galvanized) Carbon Steel Wire 6. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process ASTM A568/A568M - General Requirements for Steel, Sheet, Carbon, and High-Strength, Low-

ASTM A513 - Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing

Allov. Hot-Rolled and Cold-Rolled 8. ASTM B117 - Test Method of Salt Spray (Fog) Testing 9. ASTM B221-Standard Specification for Aluminum and Aluminum – Alloy Extruded Bars, Rods,

10. ASTM C1107 - Packaged Dry, Hydraulic - Cement Grout (Non-Shrink) 11. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100% Relative Humidity 12. ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation

13. ASTM D3359 - Test Method for Measuring Adhesion by Tape Test . American Welding Society (AWS)

Wire, Profiles and Tubes.

AWS D1.1 - Structural Welding Code, Steel AWS A5.1 - Carbon Steel Electrodes for Shielded Metal Arc Welding

3. AWS 5.5 - Low Alloy Steel Covered Arc Welding Electrodes. D. American Institute of Steel Construction (AISC) 1. AISC Specifications - Manual of Steel Construction

E. 2019 California Building Code (CBC) 1. CBC 10 - Chapter 10, Egress Requirements

2. CBC 11 - Chapter 11, Accessibility 3. CBC 19A - Chapter 19A, Concrete

1.03 SUBMITTALS

A. Product Data for each fencing system component and accessory item. B. Shop Drawings, showing materials, construction and fabrication details, layout and erection diagrams as required, finish of materials and methods of anchorage to adjacent construction. Indicate

welding by AWS code symbols.

Color Selection Samples for each specified pre-finished item Record Samples of selected finishes Material Samples. If requested, submit samples of materials. Samples of finials, caps, and

accessories shall be whole pieces. 1.04 DELIVERY, STORAGE AND HANDLING

A. Stack, store, and handle fencing sections and components to prevent damage during transit and storage at the site. Follow manufacturer's instructions.

1.05 PROJECT CONDITIONS

1.06 SPECIAL WARRANTY

A. Verify Existing Conditions. Verify conditions, affecting work of this Section, by taking accurate measurements at site of dimensions, elevations, and grades. Fabricate work to fit measured dimensions.

A. Manufacturer and installer shall jointly warrant that the installed fencing and gates are and will

remain free from defects in material and workmanship including cracking, peeling, blistering and

corroding of finish for a period of at least 5 years from the date of Substantial Completion. Upon written notice from Owner, they shall promptly, without cost, and with the least practicable inconvenience to Owner correct such defects.

PART 2 - PRODUCTS

2.01 REGULATORY REQUIREMENTS A. Gates that are part of the accessible route shall meet all the requirements of an accessible door in compliance with CBC Section 11B-404.

B. The levers of lever actuated latches or locks for accessible gates shall be curved with a return to within 1/2" of the gate surfaces to prevent catching on the clothing or persons.

C. Swing doors and gate surfaces within 10" of the finish floor or ground shall have a smooth surface

these surfaces shall be within 1/16" of the same plane as the other and be free of sharp or abrasive

on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in

edges. Cavities created by added kick plate shall be capped. CBC Section 11B-404.2.10.

2.02 MANUFACTURERS A. Acceptable Manufacturers Ameristar Fencing Products, Tulsa, OK. Product:

. A & T Iron Works, Inc., New Rochelle, NY

Builders Fence Company, Sun Valley, CA Century Tube, Port of Pine Bluff, AR F. Or equal, approved in accordance with Division 01, General Requirements, for substitutions. 2.03 MATERIALS

A. Steel Material: ASTM A924, A123 and ASTM A653, hot-dipped galvanized, G-90 for sheet steel, cold-rolled, butt welded, square or rectangular, minimum 45,000 psi. B. Color: As scheduled.

C. Screws: stainless steel, self-drilling hex-head screws. Type 304 or 316 stainless-steel fasteners. D. Threaded Bolts and Nuts: Standard, commercial quality, hot-dip, galvanized, steel conforming to

E. Accessories: Internal retaining rod, panel brackets, post and picket caps, rubber grommets picket

F. Touch Up Material for Galvanized Coatings: Anodic zinc-rich coating or hot applied repair

G. Concrete for Footings: Specified in Section 32 13 13, Sitework Concrete.

B. Color: Provide samples for Architect and Owner selection

H. Non-Shrink Grout: ASTM C1107, premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; capable of developing minimum compressive strength of 5,000 pounds per square inch in 24 hours and 8,000 pounds per square inch in 7 days; of consistency suitable for application and 30 minute working time. 2.04 COMPONENTS A. Fencing: Ameristar MONTAGE II Invincible, or equal

2.05 ACCESSORIES A. Swing Gates: 1.75" x 14 gauge forerunner Double channel rail, 2" square x 11 gauge gate ends, and 1" square x 14 gauge pickets. Gates exceeding 6' in width shall have 1.75" sq x 14 gauge intermediate upright. All rail and upright intersections hall be joined by welding. All pickets and rail

intersections shall also be joined by welding. Gusset plates will be welded at each upright to rail

galvanizing coating of 1.8 ounces per sq. ft. 2-1/2 inches square. Final finish to match fencing finish.

D. EXIT Gates: galvanized square tube, ASTM A500, Grade B, at lintels and gate posts, minimum

intersection. Provide cable kits for additional truss for gates leaves over 6 feet. B. Swing Gate Hardware. Provide hardware and accessories for each hinged, swing gate, galvanized and shop finished to match adjacent gate and fence components. Hinges: weldable steel barrel type hinge, ball bearing, non-removable steel pin. Provide two hinges for each leaf up to 6 foot nominal height, and one additional hinge for each additional 24 inches in height, or fraction thereof. 5" barrel hinge, Model: 44-2003 King Architectural Metals, Los Angeles, CA, or equal. Two hinges per leaf for gates up to 5'-11" wide, three hinges per leaf for 6' to 10' wide gates. Locks: Self-latching bolt and deadbolt, 3/4 inch diameter, adjustable, lockable, with lever handle, by Ameristar Lock or equal, keyed lock. Hardware shall not require pinching, grasping or

twisting motion. The lever of lever-activated latches or locks for an accessible gate shall be curved with a return to within 1/2" of the (face of) gate to prevent catching on the clothing or persons. 2. Double Gates: Provide center lockable cane bolt assembly mounted to gate vertical frame designed

to engage strike with anchors, set in concrete. At double gates provide locking slide bolt. Cane Bolts not permitted at Path-of-Travel gates. 3. Gate Hardware: Shall be mounted at 40" above finish floor.

4. All gates intended for pedestrian use, including ticket gates shall comply with all applicable

requirements of doors. All gates in the Path of Travel and as indicated on the drawings shall require Exit Devices (panic hardware) as specified above, CBC Sections 11B-309.4 and 11B-404.2.9. Signage is not permitted in lieu of accessible or panic hardware. 5. Exit Device at Exit Gates only, outswing in accordance with CBC Sections 1008.1.9, 1008.1.10, and 1008.2, Mounted 36" to 44" above finish floor. Exit Device (panic hardware) shall be mounted

to provide 36" clear minimum below the device. Unlatching force not exceed 15# applied in direction a. Panic Bar: Exit Device: Rim Type, Von Duprin 99NL Series exit device, anodized finish, 992L trim, Standard Lever #06, 299 strike at single gates, devices in exit pathways where shown on drawings, attach to gate post, include cylinder. Lever handle on exterior of gate. Lever to return 1/2" of face of gate.

6. Accessories: 4" x 3" x 1/4" x 8" high galv. steel angle welded to strike-side frame and 1" x 3" x 1/4"

a. Fabricate galv. Steel lock box 16 ga x 3" high x 8" wide x 1-3/4" thick to encase lockset, weld all joints and grind smooth, touch up with galvanizing compound. . solid Metal Panel: Manufactured by McNichols Co. Tampa, FL. Aluminum Plate: solid , , 24 in. high by width of gate behind panic device centered at 40 in. above finish surface. Secure to gate frame

with #8 stainless steel screws at 6 in on center. 2. Install 0.125 inch thick aluminum kick plate 10 inches high on push side (For larger gates install at both sides). Clear space below gate shall be 3 inches maximum from walking surface on both sides of the gate. Secure with #8 stainless steel screws 4 places each kick plate minimum.

C. Padlock: 5 pin cylinder, corrosion resistant, hardened steel shackles, 5/16 inch shackle diameter.

No. 1158A54 by McMaster-Carr, Los Angeles, CA, or equal as approved in accordance with Division 01 for substitutions, master keyed to building standard one per gate. D. Lock Box: Heavy duty, lift-off lid, emergency-access, key-box; 3200 Series KnoxBox by the Knox

2277-035-101 A. Provide new stock of standard sizes specified or detailed. Fabricate materials in shop to produce high-grade metal work. Form and fabricate to meet required conditions.

B. Pickets, rails and posts shall be pre-cut to specified lengths. Rails pre-punched to accept rails. C. Include bolts, screws and other fastenings necessary to secure work.

D. Conform applicable work to latest edition of AISC Specifications and AWS D1.1. E. Accurately make and tightly fit joints and intersections in true planes with adequate fastenings. F. Coordinate Work with work of other sections. Provide punchings and drillings indicated or

Use coated welding rods, not fluxed or type recommended by manufacturer for use with parent metal. H. Grinding: Grind welds to smooth flush joints.

G. Welding: weld joints, unless otherwise indicated or specified, using shielded electric arc method.

I. EXIT Gates: Fabricate posts and lintels to height indicated on drawing but no less than 6'-8", and

ready to receive closer and gate hardware. 2.07 FINISHES

A. Base Coat: epoxy electrostatic powder coat over prepared galvanized steel, minimum thickness 2 B. Finish Coat: TGIC Polyester electrostatic powder coat topcoat. Thickness 3 mils, minimum.

C. Color: black. PART 3 - EXECUTION

3.02 INSTALLATION

Company, Newport Beach, CA, or equal.

required for attachment of Work to other Sections.

2.06 FABRICATION

3.01 INSPECTION A. Verify existing conditions are ready the work of this Section. Do not begin erection of fencing until unsatisfactory conditions are corrected

A. Post spacing: Line posts shall be spaced in line maximum of 96 inches on center. B. Post Footings: Set posts in concrete footings 12 inches in diameter and 36 inches deep. Tops of footings: Crowned to shed water. Concrete mix: Minimum 3000 pounds per square inch.

C. Post Tops: Line posts shall be fitted with pressed steel caps. Gate post top: Welded flush and

ground smooth. 3.03 GATES

A. Gate posts shall be set in accordance with the spacings shown in the drawings.

B. Fabricate gates to size and configuration indicated on Drawings, complete with gate hardware. C. Install locking fittings to accommodate owner's keying system.

D. Attachments to gate shall be permanently secured to assembly. No clamp-on or exposed bolted fittings shall be permitted. E. All gates intended for pedestrian use, [including ticket gates], shall comply with all applicable requirements of doors. All gates in the Path of Travel and part of the accessible route and as indicated on the drawings shall require Exit Devices (panic hardware) and meet all the requirements of an

accessibly door in compliance with CBC Section 11B-404 and as specified above. Signage is not

**END OF SECTION** 

permitted in lieu of accessible or panic hardware.

**APPROVAL:** 

**AGENCY** 

REVIEWING AGENCIES STAMP HERE



**HMC Architects** 

**△ DESCRIPTION** 

5 ADDENDUM 5

8910 UNIVERSITY CENTER LN, #650 SAN DIEGO, CA 92122 619 744 4077 / www.hmcarchitects.com

DATE

PLEASE RECYCLE

FACILITY:

PROJECT:

7000 MERRILL AVE

**TECHNICAL SPECIFICATIONS** 

DATE: 10 ALUMINUM FLAG

CHINO AIRPORT UPGRADE PERIMETER FENCING AND

CHINO. CA 91710

CLIENT PROJ NO:

