

ADDENDUM NO. 2

PROJECT NAME: PRE-K 4 SA WEST – PARKING AND PLAYGROUND EXPANSION

DATE: September 20, 2016

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

TCI PROJECT NO.: 39-00001

GENERAL CHANGES

Item No. 1: Modified drawings to reflect City of San Antonio Development Services comments.

CHANGES TO SPECIFICATIONS

Item No. 1: Changed picnic table manufacturer and added ADA picnic table.

Item No. 2: Add 323113 Chain Link Fence & Gates specification section.

Item No. 3: Add 323119 Decorative Metal Fences and Gates specification section.

CHANGES TO DRAWINGS

Playground Area:

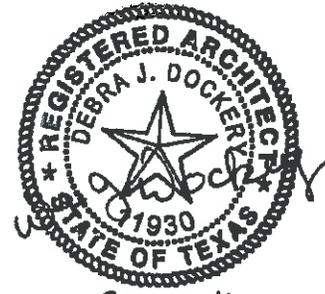
Item No. 1: Sheet L1.01
 1.) Removed 10' x 12' storage shed but concrete pad remains.
 2.) Added ADA Picnic Table.

Sheet L1.03
 1.) Added staging area.
 2.) Added tree schedule.

Parking Lot Area:

Item No. 1: Sheet L2.01
 1.) Added staging area.
 2.) Corrected tree identification to match tree preservation table.

Sheet L2.03
 1.) Added transplanted tree.
 2.) Added note about gator bag.





Note: Addenda Acknowledgement Form for Addendum 1 is attached herein. This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) 2 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF:

PRE-K 4 SA WEST – PARKING AND PLAYGROUND EXPANSION PROJECT 39-00001

FOR WHICH BIDS WILL BE OPENED ON TUESDAY, OCTOBER 4, 2016 AT 2:00 P.M.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

SECTION 116800 - PLAY FIELD EQUIPMENT AND STRUCTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes freestanding and composite structure playground equipment.
- B. Furnish labor, material and equipment necessary for the provision and installation of the playground equipment, structure or modular unit as shown on the drawings and specified herein.
- C. Work shall include but not limited to the following: excavation, layout, and the provision and installation of playground equipment, structure or modular unit in accordance with the manufacturer's installation instructions, including all appurtenances and accessories as required for a full and complete installation.
- D. Related Sections:
 - 1. Section 321816.13 "Playground Protective Surfacing" for protective surfacing under and around playground equipment.

1.3 DEFINITIONS

- A. Fall Height: According to ASTM F 1487, "the vertical distance between a designated play surface and the protective surfacing beneath it."
- B. Use Zone: According to ASTM F 1487, the "area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For playground equipment and structures. Include plans, elevations, sections, details, and attachments to other work.

- C. The Contractor shall submit within calendar days after receipt of Notice to Proceed complete sets of the material and equipment submittals, including:
 - a. Play equipment manufacturer and manufacturer's representative's name(s) and address(es);
 - b. Plan view drawings with model numbers, descriptive labels (including component names,) deck heights, and notations of compliance with CPSC, ASTM F1487-01 and ADA;
 - c. Detailed component list with model numbers and catalog descriptions;
 - d. Color chart;
 - e. Written material specifications for all components;
 - f. IPEMA certification certificate from the IPEMA website;
 - g. Copy of manufacturer's warranty in certificate format;
 - h. Copy of manufacturer's ISO 9001 Certification.
 - D. Approval of the submittals shall be the Contractor's authorization to order the required material and equipment. There will be no deviation from the approved submittals without the written authorization of the Owner's representative.
 - E. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 - 1. Posts and Rails: Not less than 6 inches long.
 - 2. Platforms: Not less than 6 inches square.
 - 3. Molded Plastic: Not less than 3 inches square.
 - F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of playground equipment.
 - G. Retain first paragraph below if Contractor is responsible for field quality-control testing and inspecting.
 - H. Field quality-control reports.
 - I. Warranty: Sample of special warranty.
- 1.5 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For playground equipment and finishes to include in maintenance manuals.
- 1.6 QUALITY ASSURANCE
- A. Manufacturer Qualifications: A firm whose playground equipment components have been certified by IPEMA's third-party product certification service.

1. Provide playground equipment and play structure components bearing the IPEMA Certification Seal.
- B. Installer Qualifications: An employer of workers approved by manufacturer.
- C. Safety Standards: All products shall bear the certification seal of the International Play Equipment Manufacturers Association (IPEMA). All designs shall meet or exceed the Americans with
1. Disabilities Act (ADA) "Final Accessibility
 2. Guidelines for Play Areas" regulations as published on October 18, 2000.
 3. All manufacturers must be ISO 9001 certified.

1.7 REFERENCES AND STANDARDS

1. ASTM: American Society for Testing and Materials
2. CPSC: Consumer Product Safety Commission
3. IPEMA: International Playground Equipment Manufacturers Association
4. ADA: Americans with Disabilities Act
5. ISO: International Organization for Standardization
6. CPSI: Certified Playground Safety Inspector

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground equipment that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
 - a. Structural failures.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

- B. Warranty Period: starts from the date of Substantial Completion. The equipment manufacturer shall warrant material and workmanship against defects, from the date of manufacturer's invoice, for the period of time as follows:

LIMITED ONE HUNDRED (100) YEAR WARRANTY against structural failure due to weather corrosion or defects in materials and workmanship on aluminum deck posts, steel deck posts, clamping/fastening (Versalok®), and associated fastening hardware.

LIMITED FIFTEEN (15) YEAR WARRANTY against structural failure due to weather corrosion or defects in materials and workmanship on steel support legs and Mira-Therm™ II components on MEGA TOWER®, TOTS' CHOICE®, KIDS' CHOICE®, CENTER STAGE®, Nexus® and Boulder Ridge® Rock Wall; on playsystem steel components including railings, rungs, and rigid climbers, and Rockite®.

LIMITED ONE (1) YEAR WARRANTY against structural failure caused by defective materials or defective workmanship on TODDLERS' CHOICE® main support materials and decks.

LIMITED ONE (1) YEAR WARRANTY structural failure caused by defective materials or defective workmanship on Slashproof Seats and 360 degree Bucket Tot Seats for Swings.

LIMITED ONE (1) YEAR WARRANTY against structural failure due to defects in materials and workmanship for all products and components that are not specifically listed above, including, without limitation, all moving parts such as swing hangers, swivels, chains, whirls, trolleys and flexible climbers.

- C. Repaired or replacement part(s) are only warranted for the balance of the original limited warranty.
- D. These limited warranties do not include fading of colors, damage due to excessive wear and tear, vandalism, or negligence. These warranties are valid only if products are installed according to manufacturer's installation instructions.
- E. The Contractor shall guarantee installation workmanship for a period of one year from the date of Substantial Completion of the Project. The Contractor shall be responsible for coordinating manufacturer material warranty items with the manufacturer/distributor and for the installation of replacement material(s) at no additional cost to the Owner.
- F. Provide copy of Contractor's installation warranty on company letterhead.

PART 2 PRODUCTS

A. EQUIPMENT: See drawings for location of equipment.

1. Picnic Table: Surface mounted, RSP Preschool table, 20" H x 48" L manufactured by: Play Mart Playgrounds. Contact Emily Seigle, 512-763-2986. (or approved equal)
2. ADA Picnic Table: Surface mounted, RSP Preschool ADA table with extension, 20" H x 48" L, manufactured by: Play Mart Playgrounds. Contact Emily Seigle, 512-763-2986. (or approved equal)
3. Bench: Surface mounted, Large At-Ease Bench-12" H model #4258 with SoySeal Wood Sealer and Waterproofing #6929 manufactured by: Nature Explore, 402-467-6112. (or approved equal.)
4. Natural Balance Beam: Natural Balance Beam Straight (7' L) model #7014, install as per manufacturer's recommendations, manufactured by: Nature Explore, 402-467-6112. (or approved equal.)
5. Red Cedar Steps: Red cedar Log Steps, set of 4 model #3917, install as per manufacturer's recommendations, manufactured by: Nature Explore, 402-467-6112. (or approved equal.)

6. Sand Box:

- A. 8' x 8' RSP Sandbox with ADA Transfer Deck, install as per manufacturer's recommendations, manufactured by: All Aquatics & Kids Playgrounds, 512-763-2986. (or approved equal.)
- B. 8' Square Sandbox Fabric Cover, install as per manufacturer's recommendations, manufactured by: All Aquatics & Kids Playgrounds, 512-763-2986. (or approved equal.)

7. Storage Shed:

- A. 6' x 8' Premier Pro Ranch, Manufacturer-Tuff Shed, (210) 680-8833. Contractor to provide locks. Color to be selected by Owner.

B. COLOR SCHEDULES: Contractor shall provide manufacturer's color charts for structure or modular unit to be provided.

C. MODIFICATIONS: Any expense of modification, adjustment or revision required to ensure compliance of furnished equipment to specified equipment and playground design shall be the sole expense and responsibility of the Contractor.

PART 3 INSTALLATION

- A. Instructions: Explicit, printed installation instructions, written in English, shall be provided by the manufacturer, which shall include detailed, scaled plan views, elevations, and footing drawings and details when applicable, as well as sequential assembly instructions to assure proper installation of the playground equipment, structure or modular unit.
- B. Equipment must be installed by a manufacturer-certified installer and must be installed in accordance with the manufacturer's installation instructions. If not installed by a manufacturer-certified installer, the equipment shall be inspected after installation by a CPSI not employed by the installer and signed off by said CPSI before the playground is opened for first use.
- C. Close Out: Contractor shall provide the Owner with one copy of complete manufacturer's installation instructions and maintenance kit if provided. Most manufacturers send at least two sets of installation manuals with each order. Additional sets of installation instructions should be purchased from the manufacturer if originals are lost or damaged. It is the Contractor's responsibility to secure the installation instructions from the installer. Miracle Recreation mails one complete set of installation instructions directly to the Owner, and the Contractor shall not be required to supply additional sets to the Owner.
- D. Clean-up: The site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis. Material may be stored on site during installation with appropriate protective measures and approval by the Owner's representative.

END OF SECTION 116800

SECTION 323119 - DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Decorative metallic-coated-steel tubular picket fences.
 - 2. Swing gates.
 - 3. Horizontal-slide gates.
 - 4. Section 033000 "Cast-in-Place Concrete for concrete fill.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For gates. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For each fence material and for each color specified.
 - 1. Provide Samples 12 inches (300 mm) in length for linear materials.

1.5 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.
- B. Product Test Reports: For decorative metallic-coated-steel tubular picket fences, including finish, indicating compliance with referenced standard and other specified requirements.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Lightning-Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

2.2 DECORATIVE METALLIC-COATED-STEEL TUBULAR PICKET FENCES

- A. Decorative Metallic-Coated-Steel Tubular Picket Fences: Comply with ASTM F 2408 for industrial application (class) unless otherwise indicated.

1. Manufacturer: Subject to compliance with requirements, provide:

Ameristar "Montage II Majestic" Steel Fence and Gates or comparable product by prior approved manufacturer.

- B. Posts:

1. End and Corner Posts: Square tubes 2-1/2 by 2-1/2 inches (64 by 64 mm) formed from 0.108-inch (2.74-mm) nominal-thickness, metallic-coated steel sheet or formed from 0.105-inch (2.66-mm) nominal-thickness steel sheet and hot-dip galvanized after fabrication.
2. Posts at Swing Gate Openings: Square tubes 3 by 3 inches (76 by 76 mm) formed from 0.108-inch (2.74-mm) nominal-thickness, metallic-coated steel sheet or formed from 0.105-inch (2.66-mm) nominal-thickness steel sheet and hot-dip galvanized after fabrication.

- C. Post Caps: Formed from steel sheet and hot-dip galvanized after forming.

- D. Rails: Square tubes.

1. Size: 1-3/4 by 1-3/4 inches (45 by 45 mm).
2. Metal and Thickness: 0.079-inch (2.01-mm) nominal-thickness, metallic-coated steel sheet or 0.075-inch (1.90-mm) nominal-thickness, uncoated steel sheet, hot-dip galvanized after fabrication.

- E. Pickets: 1" Square tubes, 14 gauge.

1. Terminate tops of pickets at top rail for flush top appearance.
2. Picket Spacing: 3-3/4 inches on center.

- F. Fasteners: Manufacturer's standard tamperproof, corrosion-resistant, color-coated fasteners matching fence components with resilient polymer washers.
- G. Metallic-Coated Steel Sheet: Galvanized-steel sheet or aluminum-zinc, alloy-coated steel sheet.
- H. Interior surface of tubes formed from uncoated steel sheet shall be hot-dip zinc coated same as exterior or coated with zinc-rich thermosetting coating to comply with ASTM F 2408.
- I. Galvanizing: For components indicated to be galvanized and for which galvanized coating is not specified in ASTM F 2408, hot-dip galvanize to comply with ASTM A 123/A 123M. For hardware items, hot-dip galvanize to comply with ASTM A 153/A 153M.
- J. Finish: Powder coating.

2.3 SWING GATES

- A. Gate Configuration: Double leaf.
- B. Gate Frame Height: 72 inches (1830 mm).
- C. Gate Opening Width: As indicated.
- D. Galvanized-Steel Frames and Bracing: Fabricate members from square tubes 1-3/4 by 1-3/4 inches (45 by 45 mm) formed from 0.108-inch (2.74-mm) nominal-thickness, metallic-coated steel sheet or formed from 0.105-inch (2.66-mm) nominal-thickness steel sheet and hot-dip galvanized after fabrication.
- E. Frame Corner Construction: Welded fittings.
- F. Additional Rails: Provide as indicated, complying with requirements for fence rails.
- G. Picket Size, Configuration, and Spacing: Comply with requirements for adjacent fence.
- H. Hardware: Latches permitting operation from both sides of gate, hinges, and keepers for each gate leaf more than 5 feet (1.52 m) wide. Provide center gate stop and cane bolts for pairs of gates
 - 1. See Section 087100 "Finish Hardware" for other requirements..
- I. Hinges: BHMA A156.1, Grade 1, suitable for exterior use.
 - 1. Function: 39 - Full surface, triple weight, antifriction bearing.
 - 2. Material: Wrought steel, forged steel, cast steel, or malleable iron; galvanized.
- J. Cane Bolts: Provide for inactive leaf of pairs of gates. Fabricated from [1/2-inch- (12.7-mm-)] [3/4-inch- (19-mm-)] diameter, round steel bars, hot-dip galvanized after fabrication. Finish to match gates. Provide galvanized-steel pipe strikes to receive cane bolts in both open and closed positions.

- K. Finish exposed welds to comply with NOMMA Guideline 1, Finish #4 - good-quality, uniform undressed weld with minimal splatter.
- L. Galvanizing: For items other than hardware that are indicated to be galvanized, hot-dip galvanize to comply with ASTM A 123/A 123M. For hardware items, hot-dip galvanize to comply with ASTM A 153/A 153M.
- M. Metallic-Coated-Steel Finish: High-performance coating.
- N. Steel Finish: High-performance coating.

2.4 STEEL AND IRON

- A. Plates, Shapes, and Bars: ASTM A 36/A 36M.
- B. Bars (Pickets): Hot-rolled, carbon steel complying with ASTM A 29/A 29M, Grade 1010.
- C. Tubing: ASTM A 500/A 500M, cold-formed steel tubing.
- D. Bar Grating: NAAMM MBG 531.
 - 1. Bars: Hot-rolled steel strip, ASTM A 1011/A 1011M, Commercial Steel, Type B.
 - 2. Wire Rods: ASTM A 510 (ASTM A 510M).
- E. Uncoated Steel Sheet: Hot-rolled steel sheet, ASTM A 1011/A 1011M, Structural Steel, Grade 45 (Grade 310) or cold-rolled steel sheet, ASTM A 1008/A 1008M, Structural Steel, Grade 50 (Grade 340).
- F. Galvanized-Steel Sheet: ASTM A 653/A 653M, structural quality, Grade 50 (Grade 340), with G90 (Z275) coating.
- G. Castings: Either gray or malleable iron unless otherwise indicated.
 - 1. Gray Iron: ASTM A 48/A 48M, Class 30.
 - 2. Malleable Iron: ASTM A 47/A 47M.

2.5 COATING MATERIALS

- A. Epoxy Zinc-Rich Primer for Uncoated Steel: Complying with MPI #20 and compatible with coating specified to be applied over it.
- B. Polyurethane Intermediate Coat and Topcoat: Complying with MPI #72 and compatible with undercoat.

2.6 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
 - 1. For aluminum, provide type and alloy as recommended by producer of metal to be welded and as required for strength and compatibility in fabricated items.
- B. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in Section 033000 "Cast-in-Place Concrete" with a minimum 28-day compressive strength of 3000 psi (20 MPa), 3-inch (75-mm) slump, and 1-inch (25-mm) maximum aggregate size.
- C. Nonshrink Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M and specifically recommended by manufacturer for exterior applications.

2.7 GROUNDING MATERIALS

- A. Grounding Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
 - 1. Material above Finished Grade: Aluminum.
 - 2. Material on or below Finished Grade: Copper.
 - 3. Bonding Jumpers: Braided copper tape, 1 inch (25 mm) wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Grounding Connectors and Grounding Rods: Comply with UL 467.
 - 1. Connectors for Below-Grade Use: Exothermic-welded type.
 - 2. Grounding Rods: Copper-clad steel.
 - a. Size: 5/8 by 96 inches (16 by 2440 mm).

2.8 STEEL FINISHES

- A. Surface Preparation: Clean surfaces according to SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 1. After cleaning, apply a conversion coating compatible with the organic coating to be applied over it.
- B. Powder Coating: Immediately after cleaning, apply two-coat finish consisting of epoxy primer and TGIC polyester topcoat, with a minimum total dry film thickness of not less than 8 mils (0.20 mm). Comply with coating manufacturer's written instructions.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.

- C. Primer Application: Apply zinc-rich epoxy primer immediately after cleaning, to provide a minimum dry film thickness of 2 mils (0.05 mm) per applied coat, to surfaces that are exposed after assembly and installation, and to concealed surfaces.
- D. High-Performance Coating: Apply intermediate and polyurethane topcoats to prime-coated surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Apply at spreading rates recommended by coating manufacturer.
 - 1. Match approved Samples for color, texture, and coverage. Remove and refinish, or recoat work that does not comply with specified requirements.

2.9 METALLIC-COATED-STEEL FINISHES

- A. Galvanized Finish: Clean welds, mechanical connections, and abraded areas, and repair galvanizing to comply with ASTM A 780/A 780M.
- B. Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a zinc-phosphate conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas, and repair galvanizing to comply with ASTM A 780/A 780M.
- C. Powder Coating: Immediately after cleaning and pretreating, apply two-coat finish consisting of zinc-rich epoxy prime coat and TGIC polyester topcoat, with a minimum dry film thickness of 2 mils (0.05 mm) for topcoat. Comply with coating manufacturer's written instructions to achieve a minimum total dry film thickness of 4 mils (0.10 mm).
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.
- D. High-Performance Coating: Apply epoxy primer, polyurethane intermediate coat, and polyurethane topcoat to prepared surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Apply at spreading rates recommended by coating manufacturer.
 - 1. Match approved Samples for color, texture, and coverage. Remove and refinish, or recoat work that does not comply with specified requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, construction layout, and other conditions affecting performance of the Work.

- B. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.
 - 1. Construction layout and field engineering are specified in Section 017300 "Execution."

3.3 DECORATIVE FENCE INSTALLATION

- A. Install fences according to manufacturer's written instructions.
- B. Install fences by setting posts as indicated and fastening rails and infill panels to posts. Peen threads of bolts after assembly to prevent removal.
- C. Post Excavation: Drill or hand-excavate holes for posts in firm, undisturbed soil. Excavate holes to a diameter of not less than 4 times post size and a depth of not less than 24 inches (600 mm) plus 3 inches (75 mm) for each foot (300 mm) or fraction of a foot (300 mm) that fence height exceeds 4 feet (1.2 m).
- D. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - 3. Posts Set in Concrete: Extend post to within 6 inches (150 mm) of specified excavation depth, but not closer than 3 inches (75 mm) to bottom of concrete.

3.4 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.5 GROUNDING AND BONDING

- A. Fence Grounding: Install as follows:

1. Fences within 100 Feet (30 m) of Buildings, Structures, Walkways, and Roadways: Ground at Gates and Other Fence Openings: Ground fence on each side of opening.
 - 1) Bond metal gates to gate posts.
 - 2) Bond across openings, with and without gates, except at openings indicated as intentional fence discontinuities. Use No. 2 AWG wire and bury it at least 18 inches (460 mm) below finished grade.
 - B. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a maximum distance of 150 feet (45 m) on each side of crossing.
 - C. Fences Enclosing Electrical Power Distribution Equipment: Ground as required by IEEE C2 unless otherwise indicated.
 - D. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches (150 mm) below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.
 - E. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
 - F. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact are galvanically compatible.
 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
 2. Make connections with clean, bare metal at points of contact.
 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
 4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
 - G. Bonding to Lightning-Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning-protection down conductor or lightning-protection grounding conductor, complying with NFPA 780.
- 3.6 ADJUSTING
- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

END OF SECTION 323119

SECTION 323113 - CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Chain-link fences and gates.
- 2. Galvanized fence post and rail supports for cedar plank fence panels.

- B. Related Sections:

- 1. Section 033000 "Cast-in-Place Concrete for cast-in-place concrete post footings.
- 2. Section 061000 "Rough Carpentry" for cedar fence planks.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.

- 1. Gate posts, rails, and fittings.
- 2. Chain-link fabric, reinforcements, and attachments.
- 3. Gates and hardware.

- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work. Show accessories, hardware, gate operation, and operational clearances.

- C. Samples for Initial Selection: For components with factory-applied color finishes.

- D. Samples for Verification: Prepared on Samples of size indicated below:

- 1. Polymer-Coated Components: In 6-inch (150-mm) lengths for components and on full-sized units for accessories.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of chain-link fence and gate, from manufacturer.

- B. Product Test Reports: For framing strength according to ASTM F 1043.
- C. Field quality-control reports.
- D. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For the following to include in emergency, operation, and maintenance manuals:
 - 1. Polymer finishes.
 - 2. Gate hardware.

1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: For testing fence grounding. Member company of NETA or an NRTL.
 - 1. Testing Agency's Field Supervisor: Currently certified by NETA to supervise on-site testing.
- B. Emergency Access Requirements: Comply with requirements of authorities having jurisdiction for gates with automatic gate operators serving as a required means of access.
- C. Preinstallation Conference: Conduct conference at Project site.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with CLFMI Product Manual and with requirements indicated below:
 - 1. Fabric Height: 6'-0".
 - 2. Steel Wire Fabric: Wire with a diameter of 0.148 inch (3.76 mm).
 - a. Mesh Size: 1 inch (25 mm).
 - b. Polymer-Coated Fabric: ASTM F 668, Class 2b over zinc-coated steel wire.

- 1) Color: As selected by Architect from manufacturer's full range, complying with ASTM F 934.
- c. Coat selvage ends of fabric that is metallic coated before the weaving process with manufacturer's standard clear protective coating.
3. Selvage: Knuckled at both selvages.

2.2 FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F 1043 or ASTM F 1083 based on the following:
 1. Fence Height for Chain Link Fencing: 6'-0"
 2. Fence Height for Cedar Plank Fencing: 8'-0" and 10'-0".
 3. Heavy Industrial Strength: Material Group IA, round steel pipe, Schedule 40.
 - a. End, Corner and Pull Post: 2.875 inches (73 mm) in diameter.
 4. Horizontal Framework Members: Rails complying with ASTM F 1043.
 - a. Top Rail: 1.66 inches (42 mm) in diameter.
 5. Brace Rails: Comply with ASTM F 1043.
 6. Polymer coating over metallic coating.
 - a. Color: Match chain-link fabric, complying with ASTM F 934.

2.3 TENSION WIRE

- A. Polymer-Coated Steel Wire: 0.177-inch- (4.5-mm-) diameter, tension wire complying with ASTM F 1664, Class 2a zinc-coated steel wire.
 1. Color: Match chain-link fabric, complying with ASTM F 934.

2.4 SWING GATES

- A. General: Comply with ASTM F 900 for gate posts and single and double swing gate types.
 1. Gate Leaf Width: As indicated.
 2. Gate Fabric Height: As indicated.
- B. Pipe and Tubing:

1. Zinc-Coated Steel: Comply with ASTM F 1043 and ASTM F 1083; protective coating and finish to match fence framing.
2. Gate Posts: Round tubular.
3. Gate Frames and Bracing: Round tubular steel.

C. Frame Corner Construction: Assembled with corner fittings.

D. Hardware:

1. Hinges: 180-degree outward swing.
2. Latches permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.

2.5 FITTINGS

A. General: Comply with ASTM F 626.

B. Post Caps: Provide for each post.

1. Provide line post caps with loop to receive tension wire or top rail.

C. Rail and Brace Ends: For each gate, corner, pull, and end post.

D. Rail Fittings: Provide the following:

1. Top Rail Sleeves: Pressed-steel or round-steel tubing not less than 6 inches (152 mm) long.
2. Rail Clamps: Line and corner boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.

E. Tension and Brace Bands: Pressed steel.

F. Tension Bars: Steel, length not less than 2 inches (50 mm) shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.

G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.

H. Tie Wires, Clips, and Fasteners: According to ASTM F 626.

1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
 - a. Hot-Dip Galvanized Steel: 0.148-inch- (3.76-mm-) diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.
2. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz. /sq. ft. (366 g /sq. m) zinc.

- a. Polymer coating over metallic coating.

2.6 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

2.7 FENCE GROUNDING

- A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
 - 1. Material above Finished Grade: Aluminum.
 - 2. Material on or below Finished Grade: Copper.
 - 3. Bonding Jumpers: Braided copper tape, 1 inch (25 mm) wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Connectors and Grounding Rods: Comply with UL 467.
 - 1. Connectors for Below-Grade Use: Exothermic welded type.
 - 2. Grounding Rods: Copper-clad steel, 5/8 by 96 inches (16 by 2440 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
 - 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements indicated.
 - 1. Install fencing on established boundary lines inside property line.

3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
- C. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Diagonally brace terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
 - 1. Locate horizontal braces at midheight of fabric 72 inches (1830 mm) or higher, on fences with top rail and at two-third fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- D. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- (3.05-mm-) diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches (610 mm) o.c. Install tension wire in locations indicated before stretching fabric. Provide horizontal tension wire at the following locations:
 - 1. Extended along top and bottom of fence fabric. Install top tension wire through post cap loops. Install bottom tension wire within 6 inches (152 mm) of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- E. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- F. Intermediate and Bottom Rails: Install and secure to posts with fittings.
- G. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 2 inches (50 mm) between finish grade or surface and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.

- H. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches (380 mm) o.c.
- I. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches (300 mm) o.c. and to braces at 24 inches (610 mm) o.c.
- J. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.

3.5 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.6 GROUNDING AND BONDING

- A. Protection at Crossings of Overhead Electrical Power Lines: Ground fence at location of crossing and at a maximum distance of 150 feet (45 m) on each side of crossing.
- B. Fences Enclosing Electrical Power Distribution Equipment: Ground as required by IEEE C2 unless otherwise indicated.
- C. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches (150 mm) below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location, including the following:
 - 1. Make grounding connections to each barbed wire strand with wire-to-wire connectors designed for this purpose.
 - 2. Make grounding connections to each barbed tape coil with connectors designed for this purpose.
- D. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.
- E. Connections: Make connections to minimize possibility of galvanic action or electrolysis. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
 - 1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
 - 2. Make connections with clean, bare metal at points of contact.

3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.
5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

F. Bonding to Lightning Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning protection down conductor or lightning protection grounding conductor complying with NFPA 780.

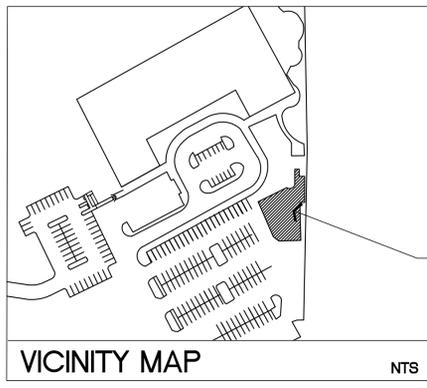
3.7 ADJUSTING

A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

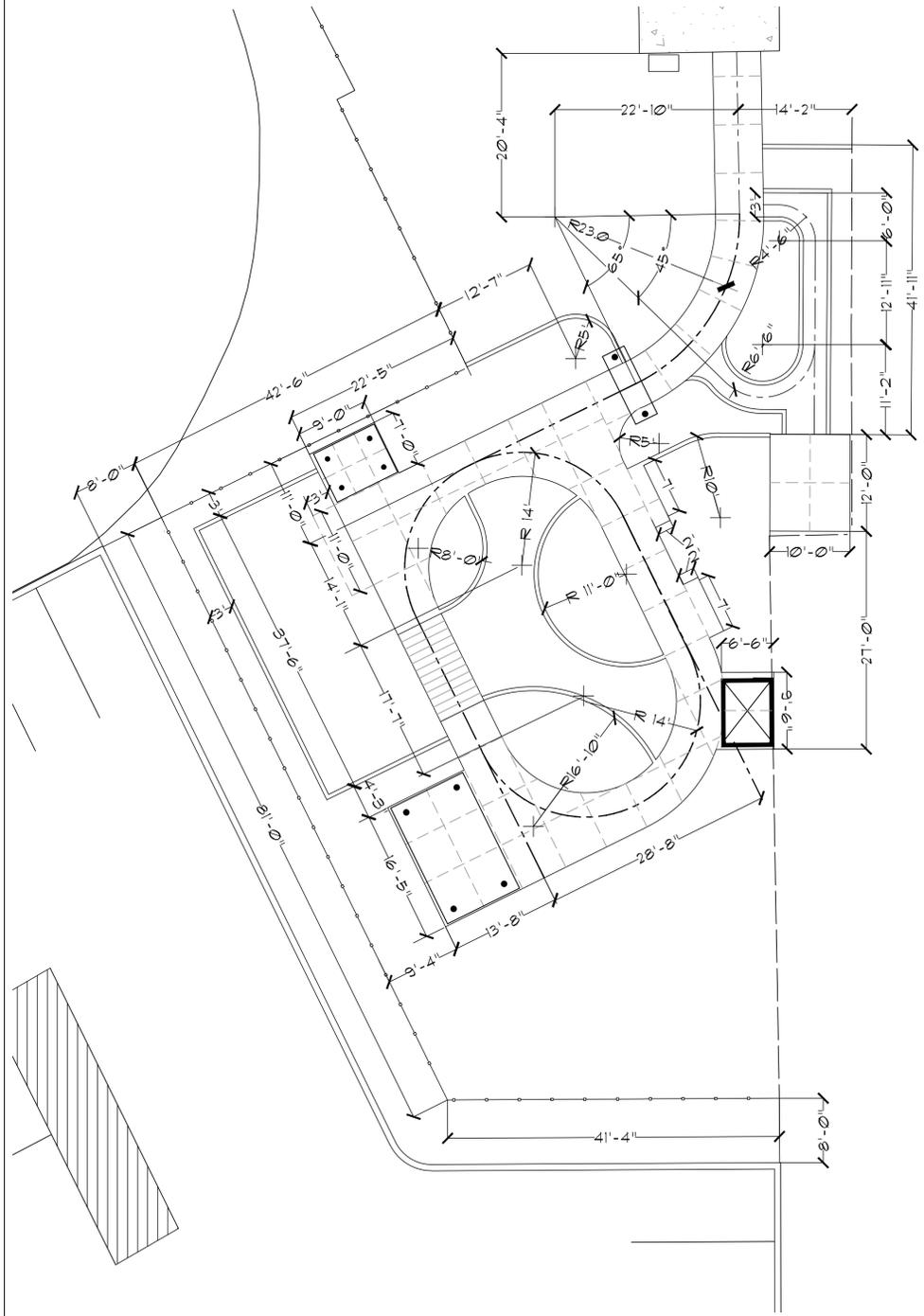
3.8 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain chain-link fences and gates.

END OF SECTION 323113



Playground location

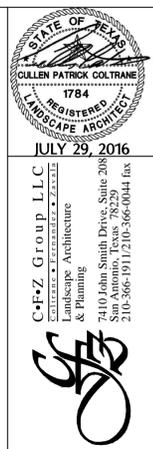
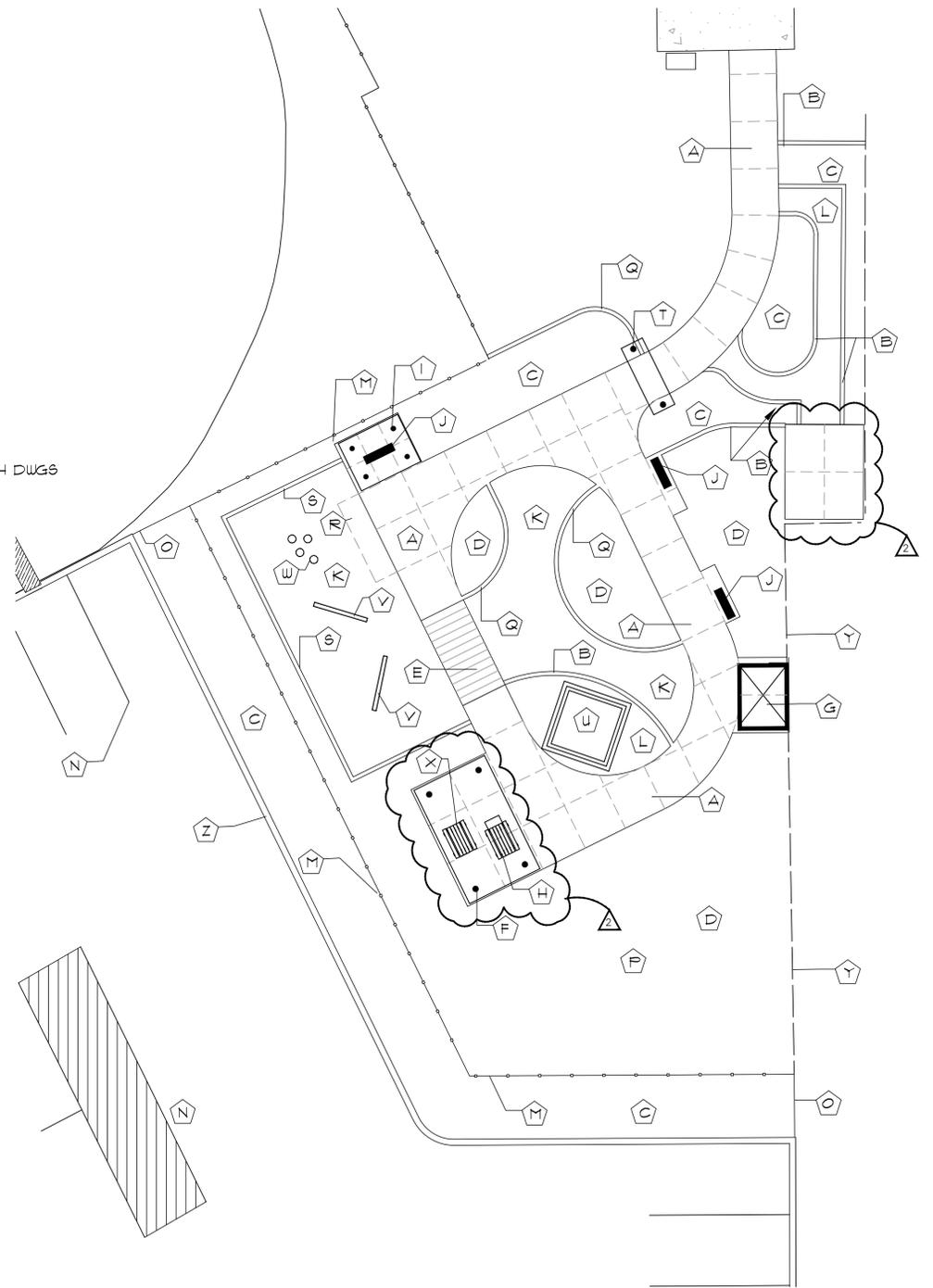


SITE AMENITY PLAN LEGEND

- A 6'-0" WIDE CONCRETE SIDEWALK, REF DETAIL 11/L1.05
- B 6" WIDE CONCRETE HEADER CURB, REF DETAIL 7/L1.05 & 6/L3.01
- C PLANTING AREA, REF LANDSCAPE PLAN SHEET L1.04
- D LAWN AREA, REF LANDSCAPE PLAN, SHEET L1.04
- E WOOD BRIDGE, REF DETAIL 15/L1.05
- F CEDAR TRELLIS STRUCTURE "A", REF DETAIL 11/L1.06
- G 6'x8' STORAGE SHED, REF DETAIL 10/L1.05
- H ADA PICNIC TABLE, REF DETAIL 9/L1.05
- I CEDAR TRELLIS STRUCTURE "B", REF DETAIL 2/L1.06
- J BENCH, REF DETAIL 11/L1.05
- K FIBAR FALL ZONE MULCH, REF DETAIL 5/L1.05
- L COMPACTED CRUSH GRANITE, REF DETAIL 7/L1.05 & 8/L1.05
- M 6' HIGH WROUGHT IRON FENCE (TO MATCH EXISTING FENCING), REF. ARCH DWGS
- N PARKING LOT STRIPING
- O STEEL EDGING, REF DETAIL 4/L3.01
- P 3'-0" HIGH NATURAL GRASS BERM
- Q CONCRETE HEADER CURB AT PLANTING, REF. DETAIL 16/L1.05
- R SLOPED PAVEMENT AT PLAY AREA, REF. DETAIL 4/L1.05
- S PLAY SURFACE EDGING, REF. DETAIL 5/L1.05 & 6/L1.05
- T CEDAR TRELLIS STRUCTURE "C", REF. DETAIL 3/L1.06
- U SAND BOX, REF DETAIL 14/L1.05
- V NATURAL BALANCE BEAM, REF DETAIL 12/L1.05
- W RED CEDAR LOG STEPS, REF DETAIL 13/L1.05
- X PICNIC TABLE, REF DETAIL 9/L1.05
- Y WOOD FENCE, REF. ARCH DWGS.
- Z PARKING LOT CURB, REF. CIVIL DWGS.

STAKING PLAN NOTES

1. DIMENSIONS ARE TAKEN FOR EDGE OF PAVEMENT, INSIDE OF CURB AND FACE OF FENCE.
2. DO NOT SCALE DRAWING, WRITTEN DIMENSIONS ARE PREVAIL.
3. CONTRACTOR SHALL LAYOUT ALL SITE AMENITIES FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. CONTRACTOR SHALL CONTACT AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



C-P-Z GROUP LLC
Landscape Architecture
& Planning
7110 John Smith Drive, Suite 208
San Antonio, Texas 78229
210-366-1911/210-366-0044 fax

DEBRA J. DOCKERY, ARCHITECT, P.C.
118 BROADWAY, SUITE 516
SAN ANTONIO, TX. 78205
PHONE (210) 225-6130
FAX (210) 225-7588

CITY OF SAN ANTONIO
PRE K 4 SA WEST
1235 W OLD HIGHWAY 90
NEW PLAYGROUND & PARKING PROJECT

REVISIONS
 A ADDED ADA PICNIC TABLE
 B REMOVED SHED
 C STRUCTURE BUT CONCRETE PAD REMAINS

PROJECT NO.
16-02

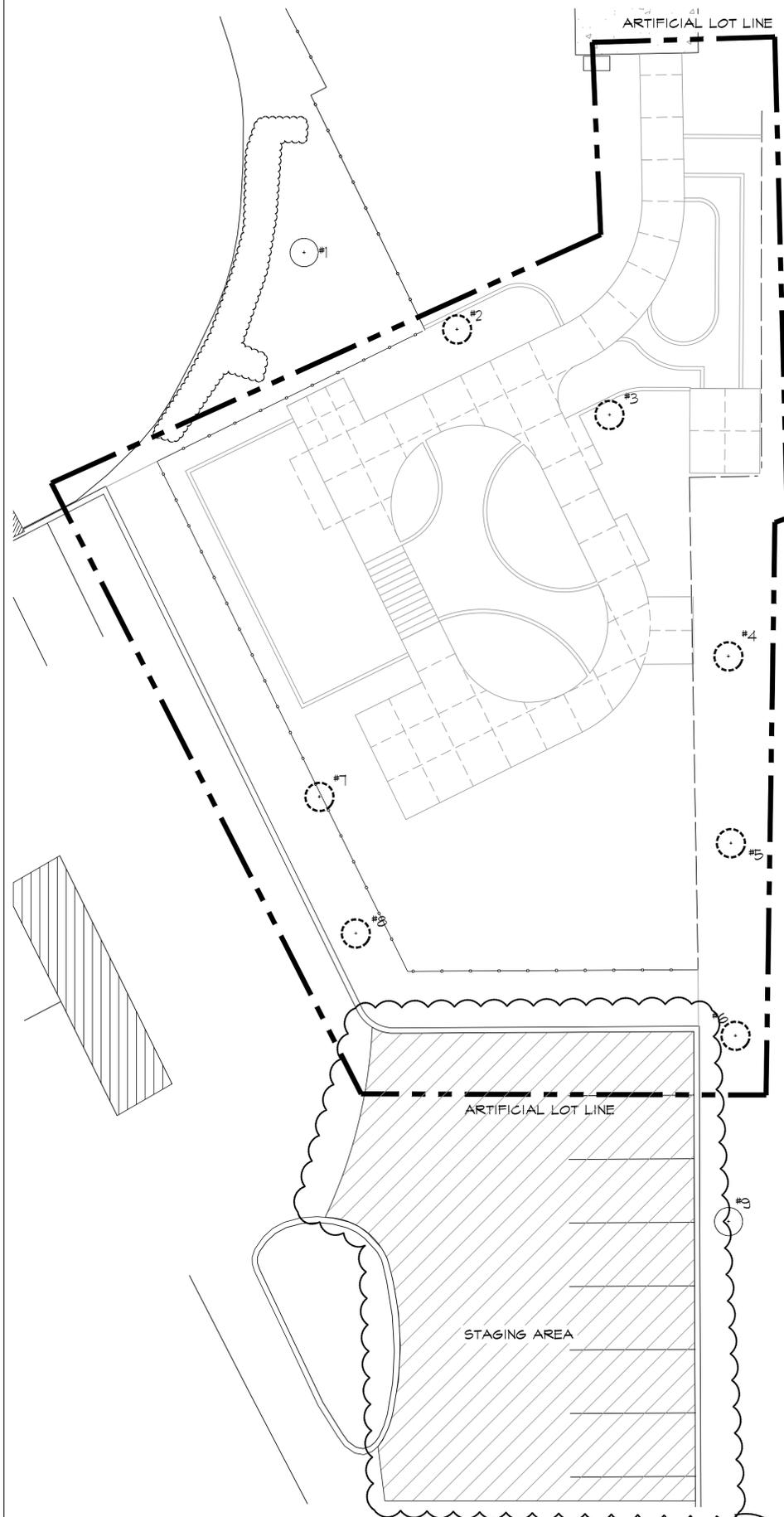
PHASE
CONSTRUCTION DOCUMENTS

DATE
JULY 2016

DESCRIPTION
PLAYGROUND SITE AMENITY AND STAKING PLAN

SHEET NUMBER

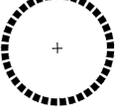
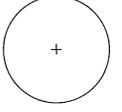
L1.01



Site Information:

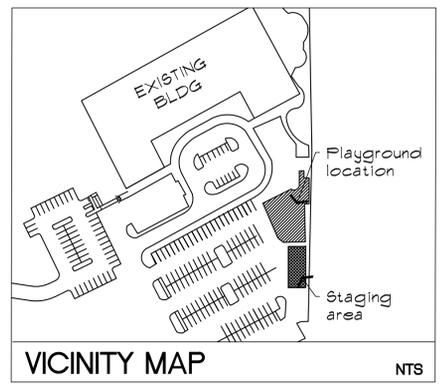
Lot area: 5.466 acres
 Artificial Lot Line area: 9,932 s.f.
 Plat No. 140011

LEGEND

-  EXISTING TREES #2-#8 TO BE RELOCATED, SEE NOTE 13. REFERENCE SHEET L2.03 AND L1.04 FOR TREE LOCATION.
-  EXISTING TREES TO BE PROTECTED

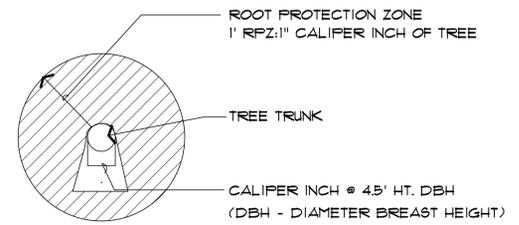
TREE SCHEDULE

TREE NO.	DBH	KEY	SCIENTIFIC NAME COMMON NAME	CONDITION	REMARKS
TREES					
1	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
2	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
3	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
4	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
5	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
6	2"	SYC	Platanus mexicana Mexican Sycamore	B&B	existing tree, salvaged and relocated.
7	2"	CO	Quercus Muehlenbergii Chinkapin Oak	B&B	existing tree, salvaged and relocated.
8	2"	CO	Quercus Muehlenbergii Chinkapin Oak	B&B	existing tree, salvaged and relocated.



TREE PRESERVATION NOTE(S) (Keyed Notes)

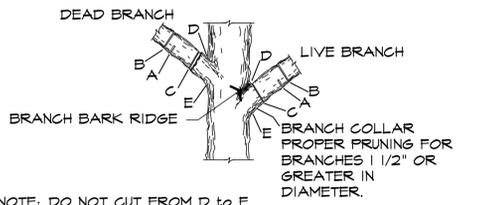
- Existing trees are to be selectively retained as directed by Landscape Architect. Trees that are dead standing shall be removed regardless of size.
- Root Protection Zone (RPZ): RPZ requirements are defined as 12" diameter per 1" caliper of trunk at 42" height (Diameter Breast Height, DBH). Minimum RPZ requirements are 6" to each 1" caliper at DBH or 5' to trunk whichever is greater.
- Erect temporary fencing before commencing site preparation work. Maintain fencing during full construction period. Remove fencing only when all hardscape construction work is completed. Refer to detail 4/L1.03.
- Protect all existing trees from disposal or storage of construction materials or vehicle parking. Protect trees from spreading of spoiled soil over RPZ. Reference 2/L1.03.
- Repair preserved trees damaged by construction operations per arborist industry standards. All broken branches and exposed roots of existing trees shall be cut cleanly. All oak species must be painted with tree wound dressing within 30 minutes. Reference 3/L1.03.
- Replace trees scheduled to remain that are removed or damaged beyond repair by construction operations, as determined by Landscape Architect, with tree(s) of similar size and species. Cost for tree replacement shall be determined in accordance with the Tree Evaluation Formula as described in "A Guide to the Professional Evaluation of Landscape Trees, Specimen Shrubs, and Evergreens" as published by the International Society of Arboriculture.
- All costs for repair and replacement of preserved trees damaged by construction operations or lack of adequate protection during construction shall be borne by Contractor.
- Roots or branches in conflict with construction shall be pruned to a height of 15 feet according to proper pruning methods. Ref. 3/L1.03.
- Exposed roots shall be covered at the end of the work day using techniques such as covering with soil, mulch or wet burlap.
- Trees removed shall be salvaged and chipped into mulch to be distributed on site within RPZ's at trees.
- Trees to remain, at which are damaged or lost due to contractor's negligence during construction shall be replaced at a ratio of inch per inch.
- Contractor is responsible for providing a licensed tree maintenance professional throughout the project.
- Tree spade and store existing sycamore trees on site for replanting. Contractor shall install 4" mulch over roots and maintain during construction.



PLAN VIEW

TREE PROTECTION NOTES:

- All trees to be preserved shall be protected against injury or damage, including soil compaction, breaking or skinning of roots, trunks, or branches during construction operations. A minimum of 50% of the RPZ shall be preserved at natural grade. No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to the trunk than 1/2 the RPZ radius.
- Unless otherwise noted, install a temporary min. 4' ht fencing. See Detail 4/L3.03.
- The proposed finished grade and elevation within the RPZ of any existing tree shall not be raised or lowered more than three (3) inches. Finished grade and elevation above or below 3" shall include tree wells/retaining walls outside the RPZ.



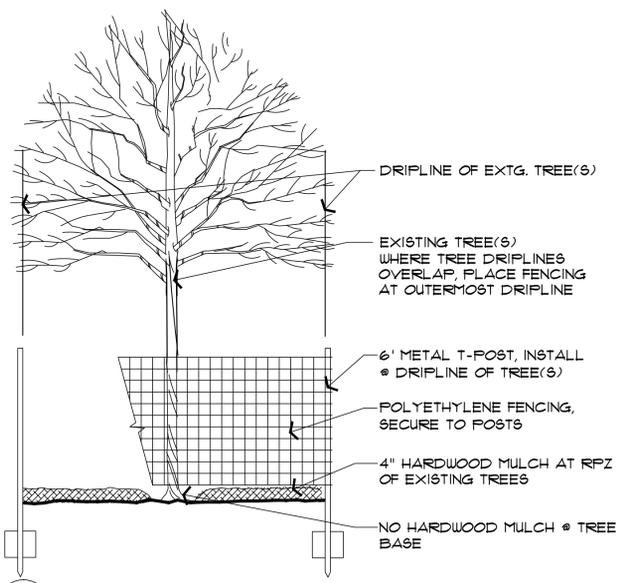
NOTE: DO NOT CUT FROM D to E.

- FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
- SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
- FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
- BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.

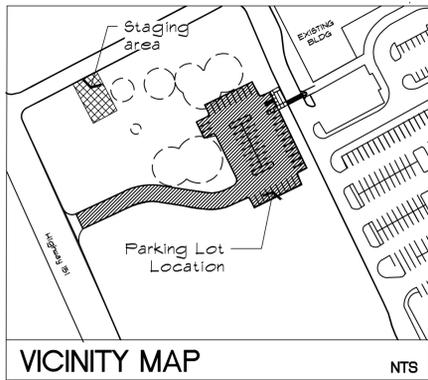
FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 30 MIN TO PREVENT THE SPREAD OF OAK WILT.

3 BRANCH PRUNING
NTS

2 ROOT PROTECTION ZONE (RPZ)
NTS

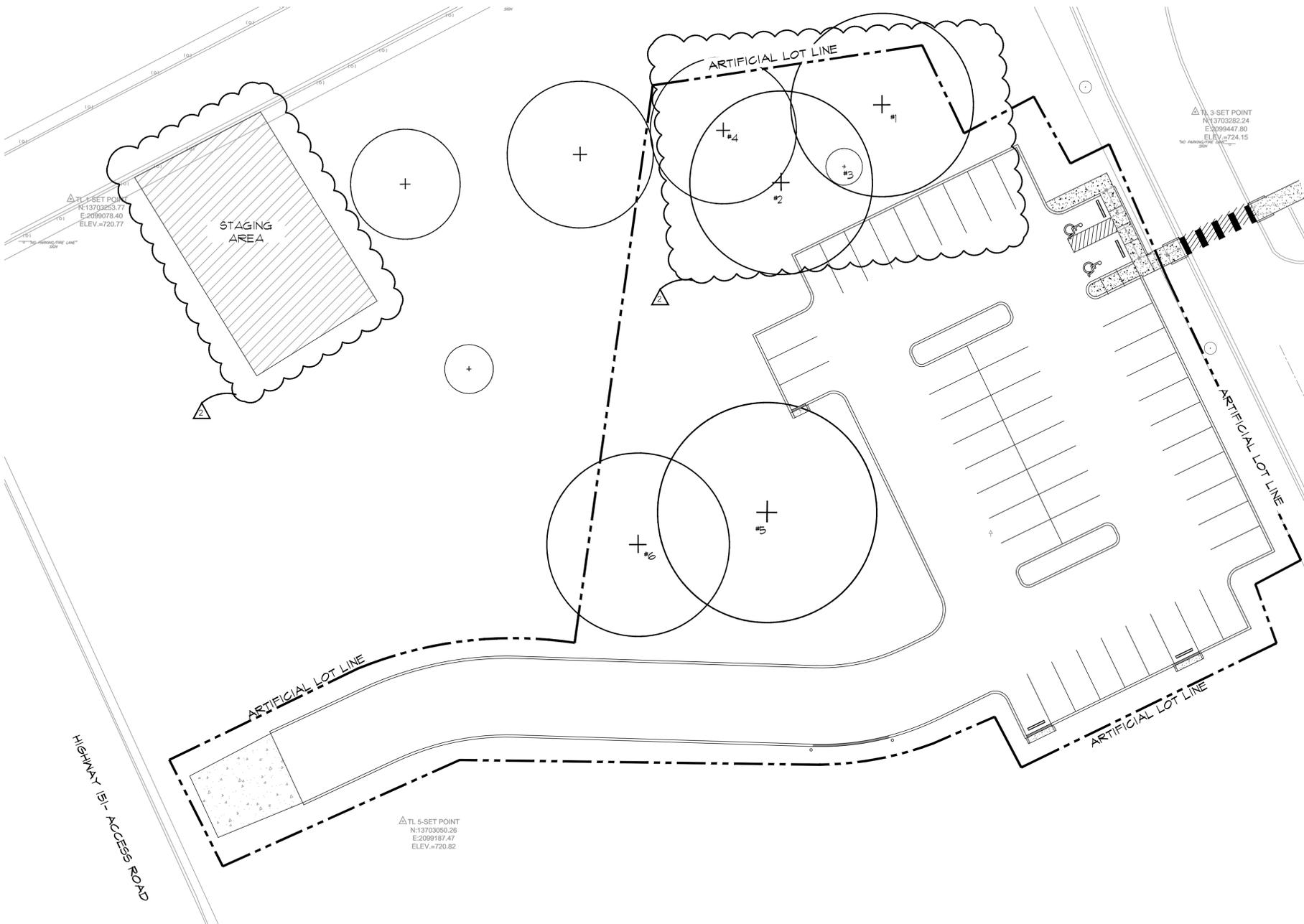


4 TREE BARRICADE FENCING
NTS



Site Information:

Lot area: 4.476 acres
 Artificial Lot Line area: 45,569 s.f.
 Plat No. 140011



TREE PRESERVATION NOTE(S) (Keyed Notes)

- Existing trees are to be selectively retained as directed by Landscape Architect. Trees that are dead standing shall be removed regardless of size.
- Root Protection Zone (RPZ): RPZ requirements are defined as 12" diameter per 1" caliper of trunk at 42" height (Diameter Breast Height, DBH). Minimum RPZ requirements are 6' to each 1" caliper at DBH or 5' to trunk whichever is greater.
- Erect temporary fencing before commencing site preparation work. Maintain fencing during full construction period. Remove fencing only when all hardscape construction work is completed. Refer to detail 3/L2.02.
- Protect all existing trees from disposal or storage of construction materials or vehicle parking. Protect trees from spreading of spoiled soil over RPZ. Reference 1/L2.02.
- Repair preserved trees damaged by construction operations per arborist industry standards. All broken branches and exposed roots of existing trees shall be cut cleanly. All oak species must be painted with tree wound dressing within 30 minutes. Reference 2/L2.02.
- Replace trees scheduled to remain that are removed or damaged beyond repair by construction operations, as determined by Landscape Architect, with tree(s) of similar size and species. Cost for tree replacement shall be determined in accordance with the Tree Evaluation Formula as described in "A Guide to the Professional Evaluation of Landscape Trees, Specimen Shrubs, and Evergreens" as published by the International Society of Arboriculture.
- All costs for repair and replacement of preserved trees damaged by construction operations or lack of adequate protection during construction shall be borne by Contractor.
- Roots or branches in conflict with construction shall be pruned to a height of 15 feet according to proper pruning methods. Ref. 2/L2.02.
- Exposed roots shall be covered at the end of the work day using techniques such as covering with soil, mulch or wet burlap.
- Trees removed shall be salvaged and chipped into mulch to be distributed on site within RPZ's at trees.
- Trees to remain, at which are damaged or lost due to contractor's negligence during construction shall be replaced at a ratio of inch per inch.
- Contractor is responsible for providing a licensed tree maintenance professional throughout the project.

TREE PRESERVATION SCHEDULE:

Reference sheet L2.02 for tree preservation schedule and tree preservation details.

1 TREE PRESERVATION PLAN
 L2.01 SCALE: 1"=20'



JULY 29, 2016
 C+P+Z GROUP LLC
 Landscape Architecture
 & Planning
 7100 John Smith Drive, Suite 208
 San Antonio, Texas 78229
 210-366-1911/210-366-0044 fax



DEBRA J. DOCKERY, ARCHITECT, P.C.
 118 BROADWAY, SUITE 516
 SAN ANTONIO, TX 78205
 PHONE (210) 225-6130
 FAX (210) 225-7588

CITY OF SAN ANTONIO
 PRE K 4 SA WEST
 1235 W OLD HIGHWAY 90
 NEW PLAYGROUND & PARKING PROJECT

REVISIONS
 CORRECTLY IDENTIFIED TREES TO MATCH TREE PRESERVATION TABLE & ADDED STAGING AREA

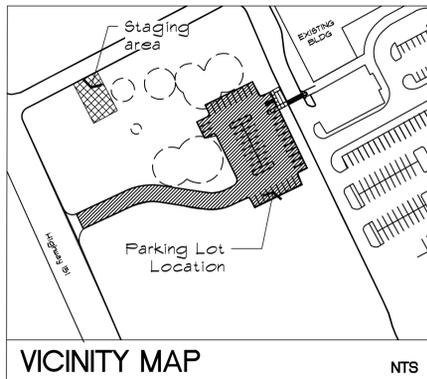
PROJECT NO.
 16-02

PHASE
 CONSTRUCTION DOCUMENTS

DATE
 JULY 2016

DESCRIPTION
 PARKING LOT TREE PRESERVATION PLAN

SHEET NUMBER
 L2.01



VICINITY MAP

NTS

LEGEND

- EXISTING TREES TO REMAIN
- TRANSPLANTED TREE
- SOD
- AREA OF PARKING LOT SHADING
- (FLS) PARKING LOT SHADING TREE
- (EXT) EXISTING TREE PRESERVATION CREDIT

GENERAL LANDSCAPE NOTES:

1. Landscape contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Landscape contractor to notify the Landscape Architect for site observations as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from observation approval and will require the contractor to install/repair work as required for approval at the cost of the contractor.
2. Landscape contractor is to contact Landscape Architect for a pre-construction meeting prior to commencing landscape work.
3. The landscape contractor is to notify all local utilities agencies 72 hours prior to any excavation. Landscape contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. The Landscape Contractor and Irrigation contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not all local utilities agencies are notified.
4. Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
5. The Contractor shall be responsible for any coordination with subcontractors as required to accomplish planting operations.
6. If conflicts arise between size of areas and plans, Contractor is to contact Landscape Architect for resolution. Failure to make such conflicts known will result in Contractor's liability to relocate the materials.
7. Contractor shall be responsible for final plant material quantities.
8. All plant material will be of highest quality, fully leaved and rooted yet not root bound. Any material not meeting this specification will be rejected.

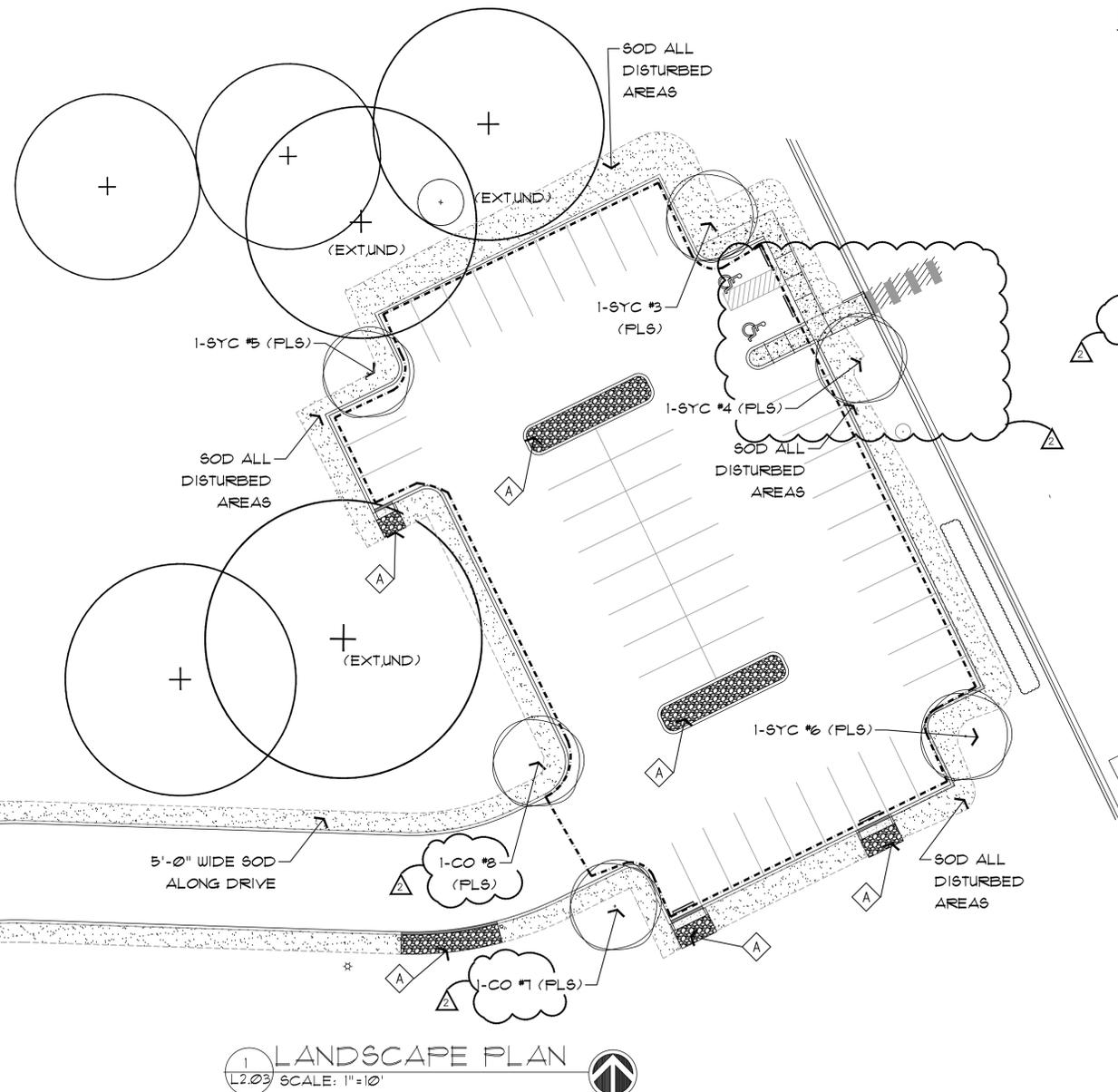
9. Plant materials and grass shall be installed the same day of delivery.
10. All disturbed soil shall receive herbicide prior to any work.
11. All construction debris and rocks/stones over 1/4" dia. (in any direction) shall be removed prior to fine grading.
12. All planting beds and trees shall be staked and approved by Landscape Architect prior to installation.
13. See specifications for planting requirements, materials and execution.
14. Construction staging area and any paths created by construction activities are to be aerated and hydroseeded with Common Bermuda seed.
15. Unless otherwise noted, all disturbed area is to receive Common Bermuda (*Cynodon dactylon*) hydroseed.
16. This landscape plan is based on survey information provided to Landscape Architect. Any existing trees not shown on plans are to be protected by barricade fencing placed along edge of tree dripline.
17. Existing trees on project site are to be maintained in a healthy condition at all times. This includes irrigating, fertilizing, pruning and other maintenance as needed on the project. Trees that are lost due to contractor's negligence shall be replaced at an inch-per-inch ratio.
18. All sod area shall be watered by hand so as to maintain a healthy stand of grass per City Ordinance.
19. Plant material shall be located as indicated on plan; triangular spaced unless indicated otherwise. Spray all existing grass/vegetation in planting areas with Roundup to provide complete kill and removal prior to planting operations.
20. Transplanted trees are to be watered using gator bags. Reference detail 1/L3.01.

LANDSCAPE ORDINANCE - 25 POINTS REQUIRED

ADDITION SQ. FT.: 36,744 S.F.

****NOTE: THIS PROPERTY LIES WITHIN THE HWY 151 GATEWAY CORRIDOR OVERLAY DISTRICT PLAN****

- 1) BUFFER
 PROPERTY IS ZONED: I1
 ADJACENT PROPERTY IS ZONED: C3 & C3
 BUFFER REQUIRED: NONE
 STREET BUFFER: TYPE D
 - 2) TREE PRESERVATION 30 POINTS
 STREET YARD (30 points max.)
 18" + caliper: 5 x 8 pts. = 40 pts.
 Total Tree Preservation: 30 pts.
 EXTs. TREE#: 1, 3, 4, 5 & 6
- TOTAL LANDSCAPE ORDINANCE POINTS 30 POINTS

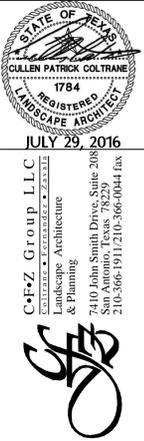


LANDSCAPE PLANTING NOTES: (# Keyed Notes)

- Bull rock, reference detail 1/L3.01.

PLANT SCHEDULE

KEY	SCIENTIFIC NAME COMMON NAME	CONDITION	REMARKS
TREES			
SYC	<i>Platanus mexicana</i> Mexican Sycamore	B&B	existing tree, salvaged and relocated.
CO	<i>Quercus Muehlenbergii</i> Chinkapin Oak	B&B	existing tree, salvaged and relocated.
LAWN			
	Reference specifications	S.Y.	solid sod



DEBRA J. DOCKERY, ARCHITECT, P.C.
 118 BROADWAY, SUITE 516
 SAN ANTONIO, TX 78205
 PHONE (210) 225-6130
 FAX (210) 225-7588

CITY OF SAN ANTONIO
 PRE K 4 SA WEST
 1235 W OLD HIGHWAY 90
 NEW PLAYGROUND & PARKING PROJECT

REVISIONS
 * MODIFIED LANDSCAPE ORDINANCE POINTS
 * ADDED PLANT SPECIES TO PLANTING SCHEDULE
 * ADDED TRANSPLANTED TREE
 * ADDED NOTE ABOUT GATOR BAGS

PROJECT NO.
 16-02

PHASE
 CONSTRUCTION DOCUMENTS

DATE
 JULY 2016

DESCRIPTION
 PARKING LOT LANDSCAPE PLAN

SHEET NUMBER

L2.03