



# CHABOT- LAS POSITAS COMMUNITY COLLEGE DISTRICT

Purchasing and Warehouse Services Department

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August 17, 2007

## Addendum No. 2

### INVITATION FOR BID No. 08-01 Athletic Facilities Renovation, Chabot College

All Prospective Bidders:

This Addendum modifies the original Bid Documents for the above Bid. Acknowledge receipt of this addendum in the space provided on the **SIGNATURE FORM** and submit acknowledge receipt of **Item No. 2**. Failure to do so may subject Bidder to disqualification.

The original Bid Documents are modified by the additional information as follows:

Item No.	Location in Contract Documents, Specifications and Drawings	Description
1	Increment two (2) documents	The drawings provided as increment two (2) are to be included in this bidding package (totaling eleven sheets). The work generally consists of fencing improvements at the baseball field area (including confidence course fencing outside the outfield fence), football stadium lighting improvements, and the drawings for the reinstallation of the existing softball scoreboard. These drawings can be found at: <b>Ford Graphics</b> , Tel.510-451-9060, Fax 510-595-2363, <a href="http://www.forgraphics.com">www.forgraphics.com</a>
2	Geotechnical Investigative Report	The geotechnical report produced from LFR has been provided at the Ford Graphics Website. Please refer to Appendix B. Bidders are to acknowledge that the report was not prepared specifically for the work the Contractors are bidding on, but that it may contain material useful to them.  <p style="text-align: right;">_____ acknowledged (initial)</p>

3	Bid Alternates (Additives)	<p>The following work has been removed from the base bid and with this reference are considered bid alternates:</p> <p>Bid Alternate No.1: Hammer/ Discus Cage Removal and Replacement</p> <p>Bid Alternate No. 2: Putting Green Area Improvements</p> <p>Bid Alternate No. 3: Football Field Lighting Improvements</p> <p>Bid Alternate No. 4: Tennis Court Ball Walls</p> <p>Bid Alternate No. 5: Three (3) and Five (5) Row Bleachers</p> <p>Bid Alternate No. 6: Softball Outfield Fence Concrete Swale / Edgeband</p> <p>The low bidder will be determined by the <b>BASE BID</b> only. Award of the above mentioned alternates will be at the discretion of the District and will not be considered as the basis of this award.</p> <p>Please see ATTACHMENT A TO BID PROPOSAL. ( attached hereto)</p>
4	Project Phasing	<p>The project will include two phases: Phase 1 will include the Tennis Court Complex Area improvements, which include all required infrastructure improvements for this area.</p> <p>Phase 2 will include the remaining improvement areas as referenced on <b>Drawing Attachment DA#1</b>.</p> <p>Completion Milestone Deadlines and Liquidated Damages shall be applicable for each separate phase of the project.</p>
5	Project Phase Milestone Timeline	<p>Phase 1 work shall be completed by February 1, 2008. Phase 2 work shall be completed by the project completion duration outlined in the Contract Documents.</p>
6	Construction Staging & Laydown Areas	<p><b>See Drawing Attachments DA#9 and DA#10</b> for the locations of the Contractor Staging / Laydown areas for phases 1 and 2</p>
7	Sheets L1.1, L3.1 and L4.1	<p>These sheets are being reissued due to corrections in the topographic survey along the southern and eastern edges of the perimeter track fence. See clouded areas for modifications.</p>
8	Sheet L2.2	<p>Demolition Sheet Note #19 is now part of bid alternate item #1 relating to the installation of the new Hammer / Discus Cage. (This work is not part of the base bid.)</p>
9	Sheet L3.1	<p>If concrete swale Bid Alternate No. 6 at softball outfield fence is not awarded, then area outside field shall be graded away from the field edge and towards the two catch basins at the corners of the outfield (catch basins #7 and #22).</p>

10	Sheet L4.2	<p>Catch Basin #1 shall be deleted from the project at the edge of the roadway. Contractor shall install new drain line into the rear of the existing curb inlet and grout pipe into place.</p> <p>In addition, pipe segment #22 shall be changed to a 4-inch storm drain line and be lengthened to 40 lineal feet. The storm drain line shall now connect to the existing storm drain line west of the tennis courts in the turf area. Contractor to repair all turf areas to “as-was” condition. The dry well termination for pipe segment is now deleted from the project.</p>
11	Sheet L5.1	<p>The width of the softball fines along the foul line fencing is six feet.</p>
12	Sheet L6.1	<p>The areas shown to have Interlocking Pavers are to be changed to Asphalt Paving, Type 2. In addition, all concrete paving, Type 2 (colored) banding around the deleted pavers is also to become Asphalt Paving, Type 2. <b>See Drawing Attachment DA#2.</b> In locations immediately around the new buildings, there shall still be an 18 inch wide collar of concrete paving.</p> <p>The Edgeband, Type 4 (consisting of concrete paving, type 2) behind the softball field backstop area is to be changed to Concrete Paving, Type 1. <b>See Drawing Attachment DA#3.</b></p> <p>The eight bollards in front of the tree grates are deleted. <b>See Drawing Attachment DA#2.</b></p> <p>In the material legend, Fences Type 3 and Type 4 incorrectly call out Details C and D, Sheet D3.0, respectively. Both fence types should call out Detail B, Sheet D3.0 for Edgeband – Type 2.</p> <p>The Concrete Swale and Edgeband-Type 2 for the outfield fence is now a Bid Alternate No. 6. <b>See Drawing Attachment DA#4.</b></p> <p>The Seat Wall located outside the southeast corner of the running track is to be deleted from the project. Only an Edgeband – Type 2 will be located here. <b>See Drawing Attachment DA#2.</b></p> <p>All identified three (3) and five (5) row bleachers are to be Bid Alternate No. 5.</p> <p>The synthetic turf putting green and the sand bunker, as well as the surrounding sodded turf and irrigation (that is shown on Sheets L7.1 and L8.1) encircling the green and bunker, shall now be Bid Alternate No. 2. <b>See Drawing Attachments DA#6, DA#7, and DA#8.</b> In addition, in the base bid for this area only the demolition and grading shall only be completed to the extent needed to conform to the adjacent design grades, and to install the designed drainage system. Storm Drain pipe segments #18 and #22, as well as catch basins #19 and #20, are also now part of the Bid Alternate No. 2. The edge of the synthetic turf shall be connected to a buried 4-inch by 4-inch concrete edgeband (with a continuous #3 rebar) by synthetic turf adhesive on top of the edgeband.</p> <p>Contractor is to provide a maximum 3 foot wide asphalt patch back along new asphalt paving areas where adjacent to existing asphalt paving areas.</p>

13	Sheet L6.2	<p>The areas shown to have Interlocking Pavers are to be changed to Asphalt Paving, Type 2. In addition, all concrete paving, Type 2 (colored) banding around the deleted pavers is also to become Asphalt Paving, Type 2. <b>See Drawing Attachment DA#5.</b> In locations immediately around the new buildings, there shall still be an 18 inch wide collar of concrete paving.</p> <p>The Hammer / Discus Cage is now Bid Alternate No. 1, including the demolition of the existing cage as shown on Sheet L2.2.</p> <p>All identified three (3) and five (5) row bleachers are now Bid Alternate No.5.</p> <p>The pre-manufactured ball walls (quantity two) are now Bid Alternate No.4.</p>
14	Sheets L7.1 and L7.2	To clarify, Contractor shall be responsible for reinstalling all existing control wires, as well as all new control wires, from all control valves to the relocated controller. Wire installation shall be per the Contract Documents.
15	Sheet L8.1	All tree sizes on this sheet shall be 15 <b>gallon</b> , not 15" box.
16	Sheet L8.2	Shrub Symbol "S1" should be quantity five (5) in the legend, not seven (7).
17	Sheet D4.0	All fencing along the softball playing field shall have the fence fabric placed on the playing field side.
18	Sheet D5.0, Detail B	Tactile mat truncated domes around the exterior drinking fountains are no longer part of the project.
19	Sheet D6.0, Detail H	This detail is not applicable. The 20 foot tall softball backstop fence shall be built per Sheet D4.0, Detail G.
20	Sheet D7.0, Detail M	The existing irrigation controller shall be reinstalled on the existing M&O Building wall as indicated on Sheet L7.1. It is not to be mounted on a pedestal. Install per manufacturer's written instructions.
21	Sheet L2.2 and Specification Sections 02100 and 02200	<p>The existing tennis court asphalt paving that is to be removed can be ground up and be reused as base material for the asphalt pathways outside the tennis court areas. The ground up asphalt shall meet the gradation specifications for Caltrans Aggregate Base (1.5-inch maximum size) – See Section 26 of the Caltrans Standard Specifications.</p> <p>The existing aggregate base material under the tennis courts can be reused as clean recycled aggregate base in non-tennis court areas. The recycled aggregate base shall be recompact to 95% of the Maximum Proctor Density (ASTM D 1557). The foundation soils should be scarified to a depth of six inches, moisture conditioned to a minimum of 2% above the optimum water content (as measured using the Methodology of ASTM D 1557) and compacted to a minimum of 90% of ASTM D 1557 maximum density (maximum of 93%). An 8-inch loose lift of aggregate base (recycled or new) should then be compacted to 95% of the ASTM D 1557 Maximum Dry Density.</p> <p>In addition, the existing asphalt paving surrounding the existing tennis courts shall be saw cut and removed as required in order to provide the surface material improvements shown on Sheet L6.2.</p>

22	Specification Section 02870	The Baseball Backstop Netting shall be Heavy Duty Baseball Netting (Model No. K42T - 1.75) as supplied by West Coast Netting, Ph: (800) 854-5741.  Items 2.01-O, P, Q, R, S, and T are no longer applicable to the project.
23	Specification Sections 06220, 07920, and 16521	Attached are revised specification sections 06220, 07920, and 16521 and supersede the previously issued sections. Changes are limited to wood ceiling, soffit materials, and metal halide lamps.
24	Specification Section 02830	To clarify, all new chain link fabric is to be vinyl coated fence (color black). All steel framework (including posts, rails, braces, gate frames, etc.) shall be powder coated black. It is intended that all fencing, by area, receive the same finish coating. Nuts, bolts, applicable moving portions of hinges, etc. shall be painted to match with PVC touch-up paint in powder coated systems.
25	Specification Section 04220	A request has been made to relax the shrinkage for the block to 0.065% per ASTM C90. Contractor shall adhere to Title 24, Part 2, Volume 2 codes. It is our opinion that the 0.045% is still applicable.
26	Drawing Sheet E1.1	The two four inch conduits for low voltage and power that are shown to be installed underneath the football field and track (including the pull boxes) and are noted by sheet callouts 4 and 5 are to be deleted from the project. This work has been completed under a prior project.
27	Drawing Sheet SN2	Use of light weight block instead of normal weight block is acceptable provided the light weight blocks meet all other requirements including the minimum strength requirement.
28	Drawing Sheet L6.1	See Drawing Attachments DA#11 and DA#12 for clarity to the roof of the softball batting cage. There is an intermediate fence lengthwise in the batting cage, and top truss cross rails every ten feet in order to hold the netting (identified in Specification Section 02870).
29	Soils Report	<b>Ford Graphics</b> , Tel.510-451-9060, Fax 510-595-2363, <a href="http://www.forgraphics.com">www.forgraphics.com</a>
30	Contract Time	270 Calendar Days
31	Phase 2 schedule	To begin December 1 <sup>st</sup> , 2007

All other terms and conditions of BID No. 08-01 to remain the same.

## ATTACHMENT A TO BID PROPOSAL

The award of a contract will be determined by the Base Bid only. It will be at the discretion of Chabot-Las Positas Community College District to award all, none or any portion of alternate(s) listed below. The alternates will not be considered as the basis of this award.

### ALTERNATE ITEMS

#### **Additives:**

##### **Bid Alternate Item No. 1: Hammer / Discus Cage**

State the total amount bid for all work shown for removal of existing cage and installation of new specified cage as described in the Addendum No. 2:

\$ \_\_\_\_\_

##### **Bid Alternate Item No. 2: Putting Green Area Improvements**

State the total amount for all work shown for the putting green area, including demolition, grading, drainage, and material (including irrigation and turf) as described in Addendum No. 2:

\$ \_\_\_\_\_

##### **Bid Alternate Item No. 3: Football Field Lighting Improvements**

State the total amount for all work shown for removal of existing sport field lighting components and installation of new fixtures as described in the Addendum No. 2:

\$ \_\_\_\_\_

##### **Bid Alternate Item No. 4: Tennis Court Ball Walls**

State the total amount for all work shown for the installation of new premanufactured tennis court ball walls as described in the Addendum No. 2:

\$ \_\_\_\_\_

##### **Bid Alternate Item No. 5: Three and Five Row Bleachers**

State the total amount for all work shown for the installation of new three (3) and five (5) row bleachers as described in the Addendum No. 2:

\$ \_\_\_\_\_

##### **Bid Alternate Item No. 6: Softball Outfield Fence Concrete Swale / Edgeband**

State the total amount for all work shown for the installation of the softball field outfield fence concrete swale / edgeband as described in the Addendum No. 2:

\$ \_\_\_\_\_

## **SECTION 16521 EXTERIOR LIGHTING**

### **PART 1 – GENERAL**

#### **1.01 SUMMARY**

- A. This Section includes the following:
  - 1. Exterior luminaires with lamps and ballasts.
  - 2. Luminaire-mounted photoelectric relays.
  - 3. Poles and accessories.
- B. See Division 16 Section "Interior Lighting" for exterior luminaires normally mounted on exterior surfaces of buildings.

#### **1.02 SUBMITTALS**

- A. Product Data: For each luminaire, pole, and support component, arranged in order of lighting unit designation. Include data on features, accessories, and finishes.
- B. Shop Drawings: Include anchor-bolt templates keyed to specific poles and certified by manufacturer.

#### **1.03 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with IEEE C2, "National Electrical Safety Code."
- C. Comply with CEC 2004.

### **PART 2 - PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. In Exterior Lighting Device Schedule where titles below are column or row headings that introduce lists, the following requirements apply to product selection:
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
  - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
  - 3. Basis of Design Product: The design of each item of exterior luminaire and its support is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.

#### **2.02 LUMINAIRES, GENERAL REQUIREMENTS**

- A. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.

- B. Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.
- C. Metal Parts: Free of burrs and sharp corners and edges.
- D. Sheet Metal Components: Corrosion-resistant aluminum, unless otherwise indicated. Form and support to prevent warping and sagging.
- E. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.
- F. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position. Doors shall be removable for cleaning or replacing lenses. Designed to disconnect ballast when door opens.
- G. Exposed Hardware Material: Stainless steel.
- H. Plastic Parts: High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
- I. Light Shields: Metal baffles, factory installed and field adjustable, arranged to block light distribution to indicated portion of normally illuminated area or field.
- J. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:
  - 1. White Surfaces: 85 percent.
  - 2. Specular Surfaces: 83 percent.
  - 3. Diffusing Specular Surfaces: 75 percent.
- K. Lenses and Refractors Gaskets: Use heat- and aging-resistant resilient gaskets to seal and cushion lenses and refractors in luminaire doors.
- L. Luminaire Finish: Manufacturer's standard paint applied to factory-assembled and -tested luminaire before shipping. Where indicated, match finish process and color of pole or support materials.
- M. Factory-Applied Finish for Steel Luminaires: Color as selected by Architect. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- N. Factory-Applied Finish for Aluminum Luminaires: Color shall be as selected by Architect. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

## 2.03 FLUORESCENT BALLASTS AND LAMPS

- A. Low-Temperature Ballast Capability: Rated by its manufacturer for reliable starting and operation of indicated lamp(s) at temperatures 0 deg F (minus 18 deg C) and higher.

## 2.04 BALLASTS FOR HID LAMPS

- A. Comply with ANSI C82.4 and UL 1029 and capable of open-circuit operation without reduction average life. Include the following features, unless otherwise indicated:

1. Ballast Circuit: Constant-wattage autotransformer or regulating high-power-factor type.
  2. Minimum Starting Temperature: 0 deg F, Minus 18 deg C.
  3. Normal Ambient Operating Temperature: 104 deg F (40 deg C).
  4. Ballast Fuses: One in each ungrounded power supply conductor. Voltage and current ratings as recommended by ballast manufacturer.
- B. High-Pressure Sodium Ballasts: Electromagnetic type with solid-state igniter/starter and capable of open-circuit operation without reduction of average lamp life. Igniter/starter shall have an average life in pulsing mode of 10,000 hours at an igniter/starter-case temperature of 90 deg C.
1. Instant-Restrike Device: Integral with ballast, or solid-state potted module, factory installed within fixture and compatible with lamps, ballasts, and mogul sockets up to 150 W.
  2. Restrike Range: 105- to 130-V ac.
  3. Maximum Voltage: 250-V peak or 150-V ac RMS.
  4. Minimum Starting Temperature: Minus 0 deg F (Minus 18 deg C).

## 2.05 HID LAMPS

- A. High-Pressure Sodium Lamps: ANSI C78.42, CRI 21 (minimum), color temperature 1900 K, and average rated life of 24,000 hours, minimum.
- B. Metal-Halide Lamps: C78.43-2007, with a minimum CRI 65, and color temperature 4000 K.

## 2.06 POLES AND SUPPORT COMPONENTS, GENERAL REQUIREMENTS

- A. Luminaire Attachment Provisions: Comply with luminaire manufacturers' mounting requirements. Use stainless-steel fasteners and mounting bolts, unless otherwise indicated.
- B. Mountings, Fasteners, and Appurtenances: Corrosion-resistant items compatible with support components.
1. Materials: Shall not cause galvanic action at contact points.
  2. Anchor Bolts, Leveling Nuts, Bolt Caps, and Washers: Hot-dip galvanized after fabrication, unless stainless-steel items are indicated.
  3. Anchor-Bolt Template: Plywood or steel.
- C. Concrete Pole Foundations: Cast in place, with anchor bolts to match pole-base flange. Concrete, reinforcement, and formwork are specified in Division 3 Section "Cast-in-Place Concrete."
- D. Breakaway Supports: Frangible breakaway supports, tested by an independent testing agency acceptable to authorities having jurisdiction, according to AASHTO LTS-4.

## 2.08 STEEL POLES

- A. Poles: Comply with ASTM A 500, Grade B, carbon steel with a minimum yield of 46,000 psig (317 MPa); 1-piece construction up to 40 feet (12 m) in height with access handhole in pole wall.
1. Shape: Round.
  2. Mounting Provisions: Butt flange for bolted mounting on foundation.
- B. Brackets for Luminaires: Detachable, cantilever, without underbrace.

1. Adapter fitting welded to pole and bracket, then bolted together with galvanized-steel bolts.
  2. Cross Section: Tapered oval, with straight tubular end section to accommodate luminaire.
  3. Match pole material and finish.
- C. Pole-Top Tenons: Fabricated to support luminaire or luminaires and brackets indicated, and securely fastened to pole top.
- D. Grounding and Bonding Lugs: Welded 1/2-inch (13-mm) threaded lug, complying with requirements in Division 16 Section "Grounding and Bonding," listed for attaching grounding and bonding conductors of type and size listed in that Section, and accessible through handhole.
- E. Factory-Painted Finish: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Color shall be as selected by Architect.

### **PART 3 - EXECUTION**

#### **3.01 LUMINAIRE INSTALLATION**

- A. Install lamps in each luminaire.
- B. Fasten luminaire to indicated structural supports.
1. Use fastening methods and materials selected to resist seismic forces defined for the application and approved by manufacturer.
- C. Adjust luminaires that require field adjustment or aiming. Include adjustment of photoelectric device to prevent false operation of relay by artificial light sources.

#### **3.02 POLE INSTALLATION**

- A. Align pole foundations and poles for optimum directional alignment of luminaires and their mounting provisions on the pole.
- B. Clearances: Maintain the following minimum horizontal distances of poles from surface and underground features, unless otherwise indicated on Drawings:
1. Fire Hydrants and Storm Drainage Piping: 60 inches (1520 mm).
  2. Water, Gas, Electric, Communication, and Sewer Lines: 10 feet (3 m).
  3. Trees: 15 feet (5 m).
- C. Concrete Pole Foundations: Set anchor bolts according to anchor-bolt templates furnished by pole manufacturer. Concrete materials, installation, and finishing requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- D. Foundation-Mounted Poles: Mount pole with leveling nuts, and tighten top nuts to torque level recommended by pole manufacturer.
1. Use anchor bolts and nuts selected to resist seismic forces defined for the application and approved by manufacturer.
  2. Grout void between pole base and foundation. Use nonshrink or expanding concrete grout firmly packed to fill space.
  3. Install base covers, unless otherwise indicated.
  4. Use a short piece of 1/2-inch- (13-mm-) diameter pipe to make a drain hole through grout. Arrange to drain condensation from interior of pole.

- E. Raise and set poles using web fabric slings (not chain or cable).

### 3.03 CORROSION PREVENTION

- A. Aluminum: Do not use in contact with earth or concrete. When in direct contact with a dissimilar metal, protect aluminum by insulating fittings or treatment.
- B. Steel Conduits: Comply with Division 16 Section "Raceways and Boxes." In concrete foundations, wrap conduit with 0.010-inch- (0.254-mm-) thick, pipe-wrapping plastic tape applied with a 50 percent overlap.

### 3.04 GROUNDING

- A. Ground metal poles and support structures according to Division 16 Section "Grounding and Bonding."
  - 1. Install grounding electrode for each pole, unless otherwise indicated.
  - 2. Install grounding conductor pigtail in the base for connecting luminaire to grounding system.

END OF SECTION

**SECTION 06220  
MILLWORK AND FINISH CARPENTRY**

**PART 1 - GENERAL**

1.01 DESCRIPTION:

- A. Work Included: All millwork and finish carpentry required for the project and which is included In Section 2, "Scope of Millwork", WI manual of Millwork (Reference Standard 1.02 A below). This Section also includes, but is not limited to, the following:
  - 1. All stripping, blocking, furring and nailers required for millwork and installed from face of walls, floors and ceilings.
  - 2. Wood Trim.
  - 3. Plywood Soffit and Ceiling.
  
- B. Related Work Specified Elsewhere:
  - 1. Rough Carpentry, (including structural wood supports, grounds, backing and blocking for millwork which are an integral part of wall, floor and ceiling construction) 06100.
  - 2. Laminated Plastic Countertops 06240.
  - 3. Cabinets 06400
  - 4. Painter's finish on all items: See Painting 09900.
  - 5. Caulking and Sealants 07920

1.02 REFERENCES AND STANDARDS: The following references and standards are hereby made a part of this Section and all millwork and finish carpentry shall conform to applicable requirements therein except as otherwise specified herein or shown on the Drawings.

- A. Manual of Millwork, Woodwork Institute, latest edition.

1.03 QUALITY CONTROL:

- A. Items of millwork furnished hereunder shall be covered by a WI "Certified Compliance Certificates certifying that the items furnished fully meet the requirements for the WI grade and any modifications thereto specified herein. Certificates shall be supplied before any millwork is delivered to the job site.
  
- B. If the millwork manufacturer is not a WI licensee, the Contractor shall furnish to the Owner through the Architect, a "Certificate of Inspection" issued by the WI indicating that the several items of work meet the requirements for the WI grade and any modifications thereto specified herein. Certificates shall be furnished prior to delivery of the millwork to the job site.
  
- C. Issuance of a certificate of compliance by the WI shall not be construed to limit the authority of the Architect to reject work which does not, in his opinion, meet all the requirements of the contract documents.
  
- D. Any extra costs that may be occasioned by the foregoing certification and inspection procedures will be deemed by the Owner to have been included in the bid price.

1.04 SUBMITTALS: Comply with requirements of Shop Drawings, Product Data and Samples Section 1340.

- A. Shop Drawings: Submit in accord with Millwork Shop Drawings", Section 1, Manual of Millwork and the above. Indicate all anchorage methods.

1.05 STORAGE, HANDLING AND DELIVERY: Comply with Section 1, Manual of Millwork, "Recommended Care and Storage of Architectural Woodwork". Make no deliveries of interior millwork until areas are completely enclosed and all wet work completed.

## **PART 2 - PRODUCTS**

### 2.01 MATERIALS:

- A. General: All items noted or specified as to species (i.e., "vertical grain Douglas fir" [VGDF], etc.) may be presumed to receive a transparent finish. All items which are not designated by species or which are designated or specified as "wood" may be presumed to receive an opaque finish.

- B. Solid Stock:

- 1. Interior wood trim, Douglas fir or "VGDF": Douglas fir, vertical grain.
  - 2. Items Noted or Specified as "Wood" or Not Otherwise Designated by Species: Natural birch except Douglas fir or Ponderosa or white pine.

- C. Millwork Plywood:

- 1. Cores: Lumber, veneer at Contractor option.
  - 2. Veneers: Rotary natural birch or medium density overlay (MDO) plywood.

- D. Soffit and Ceiling Plywood:

- 1. Plywood Type: APA-rated siding, exterior glue, 4X8 panel sizes.
    - a. Face Grade: 303-6 S/W
  - 2. Thickness: 5/8 inch.
  - 3. Face Species: Douglas Fir
  - 4. Surface: Rough sawn
  - 5. Nails: 10d stainless steel ring shank (annular).

### 2.02 FABRICATION GRADES:

- A. Construct to WI Specifications for Custom Grade.
- B. Drawings indicate general appearance standards only and are not intended to lessen or reduce compliance with specified grade of millwork. Where Drawings apparently require such a departure from standard specifications, secure directions or confirmation before proceeding.

### 2.03 FABRICATION:

- A. Surfacing: All wood items shall be smoothly machined and sanded on exposed surfaces as required by grade.

## **PART 3 - EXECUTION**

- 3.01 **CONDITION OF SURFACES:** Inspect all surfaces to receive millwork and report all defects. Proceeding with installation implies acceptance of surfaces as satisfactory.
- 3.02 **PREPARATION:** Coordinate all work under this Section with all other trades whose work adjoins, combines or aligns with same. Take such field measurements as may be required. Report any major discrepancy between Drawings and field dimensions to the Architect and secure directions before proceeding.
- 3.03 **INSTALLATION:**
- A. **General:**
1. Set all work in place, scribe plumb, square and level and secure in position indicated with all required fastenings, clips, braces, anchors, blocking, shimming and other fittings required to properly secure.
  2. Ease all exposed edges and edge bind particleboard shelving.
  3. Blind nail all items where possible; where not possible, use finish nails set for putty.
  4. Make all standing trim single lengths, running trim in longest pieces possible. Miter cut running joints tight and flush on exposed faces and edges. Miter or cope inside corner joints; miter outside corners. Miter and return exposed ends, returns less than 1" longer than thickness, drilled, glued and nailed.
  5. All wood millwork shall be back primed (under Painting Section) prior to setting in place.
  6. Hammer marks and other defects caused by installation procedures may result in rejection of the particular item damaged.

END OF SECTION

**SECTION 07920  
CAULKING AND SEALANTS**

**PART 1 - GENERAL**

1.01 DESCRIPTION:

- A. Work Included: All caulking and sealant work required for the project and not specified elsewhere.
- B. Related Work Specified Elsewhere:
  - 1. Rigid expansion joint filler material (horizontal joints): See Cast-In-Place Concrete 03300.
  - 2. Glazing materials for glass: See Glass and Glazing 08800.
  - 3. Caulking and sealants related to the following:
    - a. Architectural sheet metal work: See Sheet Metal 07600.
    - b. Millwork and Finish Carpentry 06220

1.02 QUALIFICATION: All exterior, elastomeric type sealants shall be applied by a firm normally in the business of applying sealants similar to those specified.

1.03 SUBMITTALS: Comply with requirements of Shop Drawings, Product Data and Samples Section 01340.

- A. Samples: Samples of all exposed caulking and sealants are required for Architect's approval of colors. Unless otherwise directed, apply samples in 6-inch runs in actual joints at the job site.
- B. Manufacturer's Specifications and Materials List: At least 30 days prior to commencing work, furnish to Architect, 2 copies of manufacturer's specifications for installations indicated, listing specific materials proposed. Specifications shall indicate completely, recommendations for use of primers, joint preparation and sealant dimensions.

1.04 PRODUCT HANDLING:

- A. Delivery: Deliver caulking and sealants and related accessories to the job site in factory sealed, unopened containers bearing manufacturer's name and product designation.
- B. Storage: Store in unopened containers. Follow manufacturer's recommendations for storage temperatures and shelf life.
- C. Handling: Follow manufacturer's recommendations for handling products containing toxic materials. Keep flammable material away from heat, sparks and open flame. Use recommended solvents and cleaning agents for cleaning tools, equipment and skin.

1.05 ENVIRONMENTAL CONDITIONS: Schedule caulking and sealing operations so that working joints are most likely to be normal size. Apply materials within manufacturer's recommended surface and ambient temperature ranges.

1.06 PROTECTION: Use masking tape where practical to control lap of materials onto adjacent surface or to facilitate tooling. Remove tape immediately after caulking and sealing.

**PART 2 - PRODUCTS**

## 2.01 MATERIALS:

- A. General: All caulking and sealants, primers and accessories shall be non-staining to adjacent exposed materials. Products having similar application and usage shall be of the same manufacturer and type. Unless otherwise specified, colors will be selected from approved manufacturer's standard range. Use gun consistency compounds unless otherwise required by job conditions.
- B. Butyl Sealant: One component, butyl based sealant, skinning type; DAP "Butyl-Flex", Pecora BC-158, Tresco "Butyl Sealant", or approved equal.
- C. Silicone Sealant (Exterior): One component, low modulus, silicone based sealant; Dow-Corning "790", General Electric "Silpruf", or approved equal.
- D. Silicone Sealant (Interior): Dow-Corning "8640", or approved equal, white color.
- E. Silicone Joint Sealant (Interior): Geocel 8125 as manufactured by Geocel Engineered Polymers or FDA/USDA and NSF approved equal.
- F. Primers (If required): As manufactured and recommended for each substrate by approved manufacturer of each caulking and sealant material used.
- G. Back-Up Materials: As recommended for and compatible with each caulking and sealant used. In general, use closed cell, bead or rope shaped, expanded polyethylene or polyurethane foam. Do not use any bituminous, oily or solvent containing materials or any incompressible materials. In general, width or diameter of preformed; back-up material shall be 1-1/3 to 1-1/2 times the width of the joint to be sealed.
- H. Release Materials: Polyethylene film.

## PART 3 - EXECUTION

### 3.1 CONDITION OF SURFACES:

- A. Inspect all surfaces to receive caulking and sealant materials and report all defects. Starting work implies acceptance of surfaces as satisfactory.
- B. Verify that joints and spaces to be caulked or sealed is of proper width.
- C. Concrete, masonry, and plaster surfaces shall be thoroughly cured.
- D. Apply no caulking or sealant materials in contact with surfaces contaminated with oil, grease, bituminous materials, form release agents, bond breakers, and deleterious curing compounds, water repellents and other special surface treatments. Aluminum surfaces shall be free of lacquer and other oxidizing coatings. Costs occasioned by removal of such contaminants shall be responsibility of the trade having caused their presence.

### 3.02 PREPARATION:

- A. Thoroughly clean all joints, removing all foreign matter such as dirt, dust, moisture, frost, rust, mill scale, paint, lacquer and protective coatings. Blow all joints free of loose particles.
- B. Use no cleaning solvents which leave residue. Wipe joints free of solvent using clean, dry white cloths or white lintless paper. Do not permit solvent to air dry.

C. Follow the Manufacturer's directions for products and surfaces.

3.03 INSTALLATION:

A. Unless otherwise required by these Specifications, install materials in strict accordance with Manufacturer's specifications and recommendations using approved equipment.

B. Usage:

1. Use butyl sealant for all interior static joints not otherwise noted.
2. Use interior type silicone sealant for caulking around ceramic tile and similar conditions (vertical surfaces).
3. Use exterior type silicone sealant for all joints not otherwise noted or specified.

C. Prime surfaces as recommended by manufacturer immediately prior to caulking or sealing. Make preliminary tests to ensure that primers will not stain exposed materials or deteriorate back-up material.

D. Unless otherwise required by caulking and sealant manufacturer's specifications and recommendations, use back-up material to control caulking and sealant depths as follows (depths measured at bond face):

1. Silicone Sealants (Exterior): Make depth half of width but not less than 3/16" or more than 3/8".
2. Do not twist or stretch preformed bead or rope type back-up material during installation.

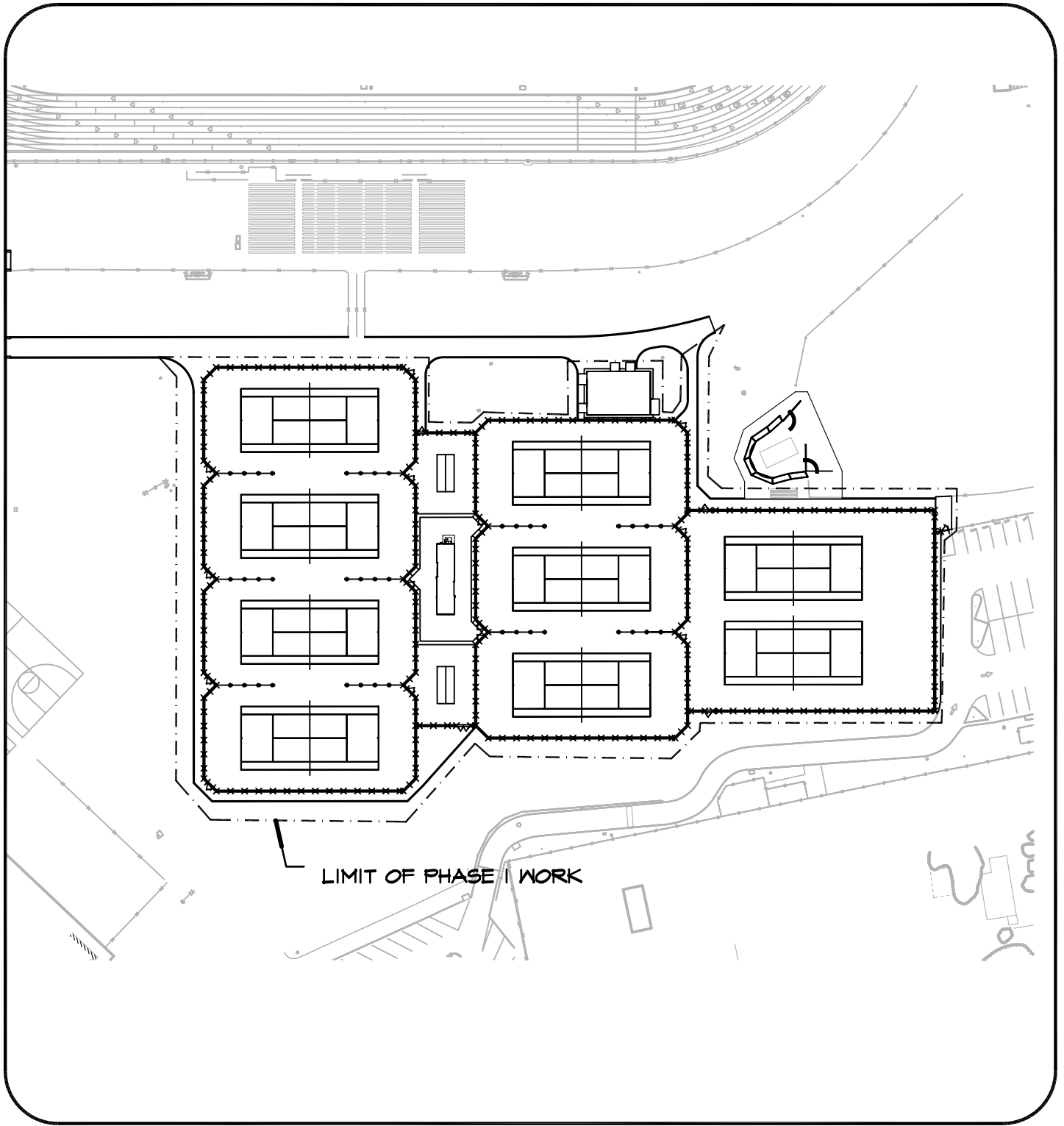
E. At joints subject to movement, where required by nature of back-up material used or where sealant contacts back of joint, use release material between back-up material or back of joint and sealant to confine adhesion to surfaces of materials being joined. Follow manufacturer's recommendations exactly. Release material is not required over polyethylene backing.

F. Neatly tool joints to slightly concave surface using tooling agent recommended by sealant manufacturer. Repair any air pockets exposed by tooling. Tool so as to compress material and improve adhesion to surfaces joined.

3.04 PATCHING: Patch or replace defective or damaged sealants. Be responsible for damage to adjacent surfaces caused by caulking and sealant operations.

3.05 CLEANING: Clean adjacent surfaces soiled by caulking and sealing operations. Remove wet material before it "sets". Follow manufacturer's recommendations for cleaning procedures. Cleaning agents shall not stain or be injurious to exposed surfaces nor shall they be potentially dangerous to glass and metal surfaces due to wash-off by rain.

END OF SECTION



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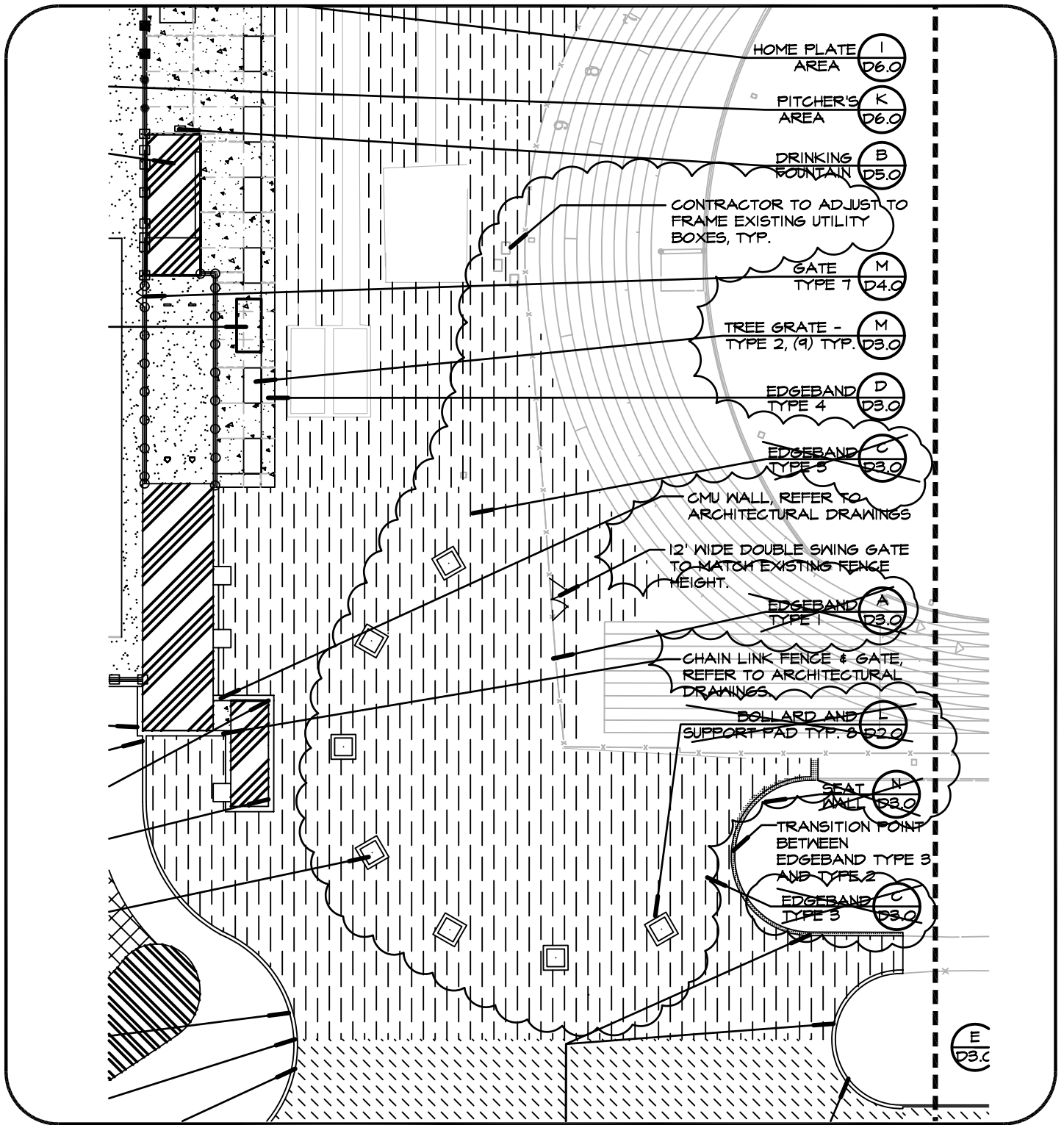
Addendum #2 - DRAWING ATTACHMENT  
 PROJECT PHASING  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

Checked By DC

SCALE: 1"=80'-0"

DA#1



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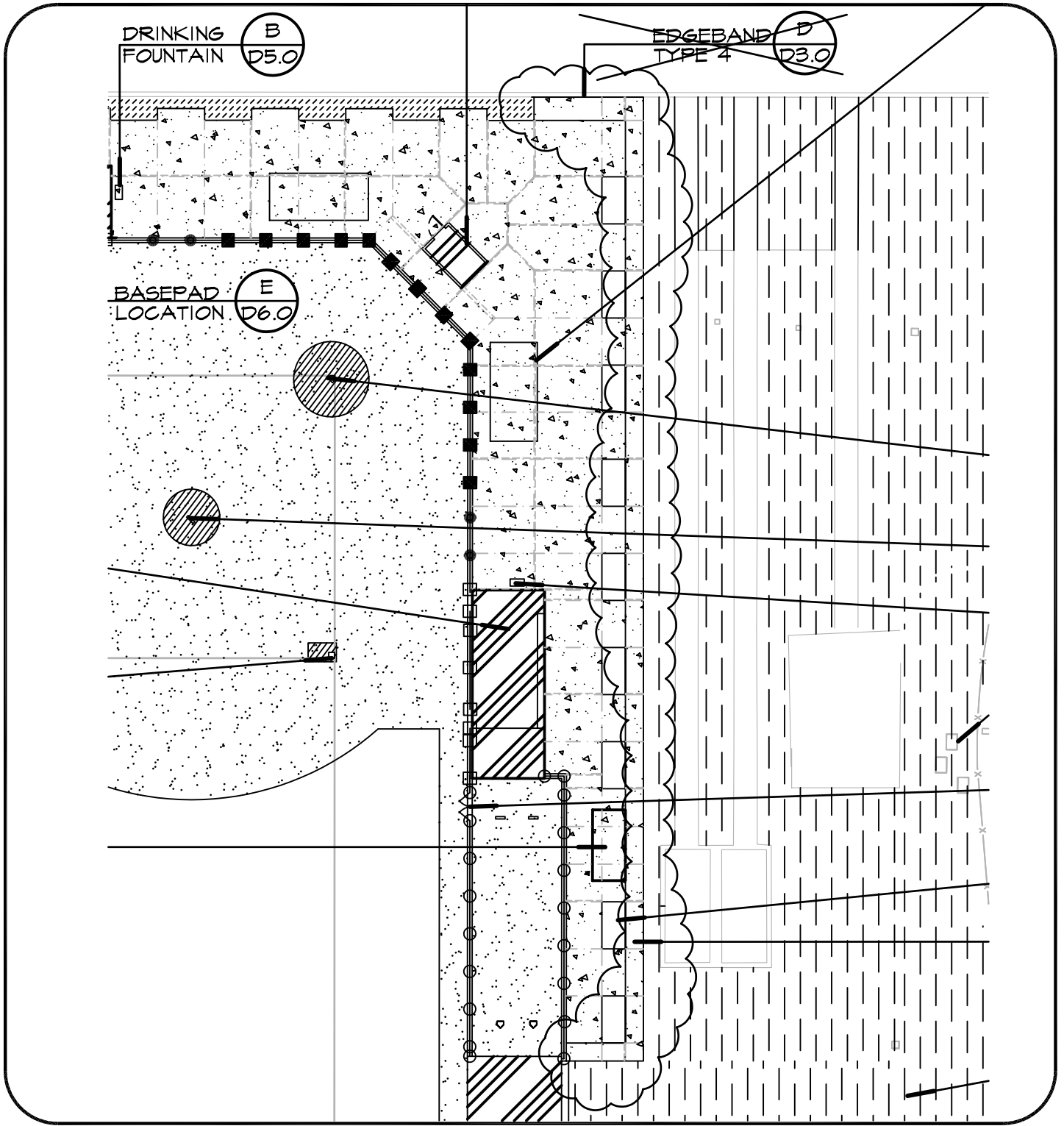
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 MATERIAL CHANGES  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

Checked By DC

SCALE: 1"=40'-0"

DA#2



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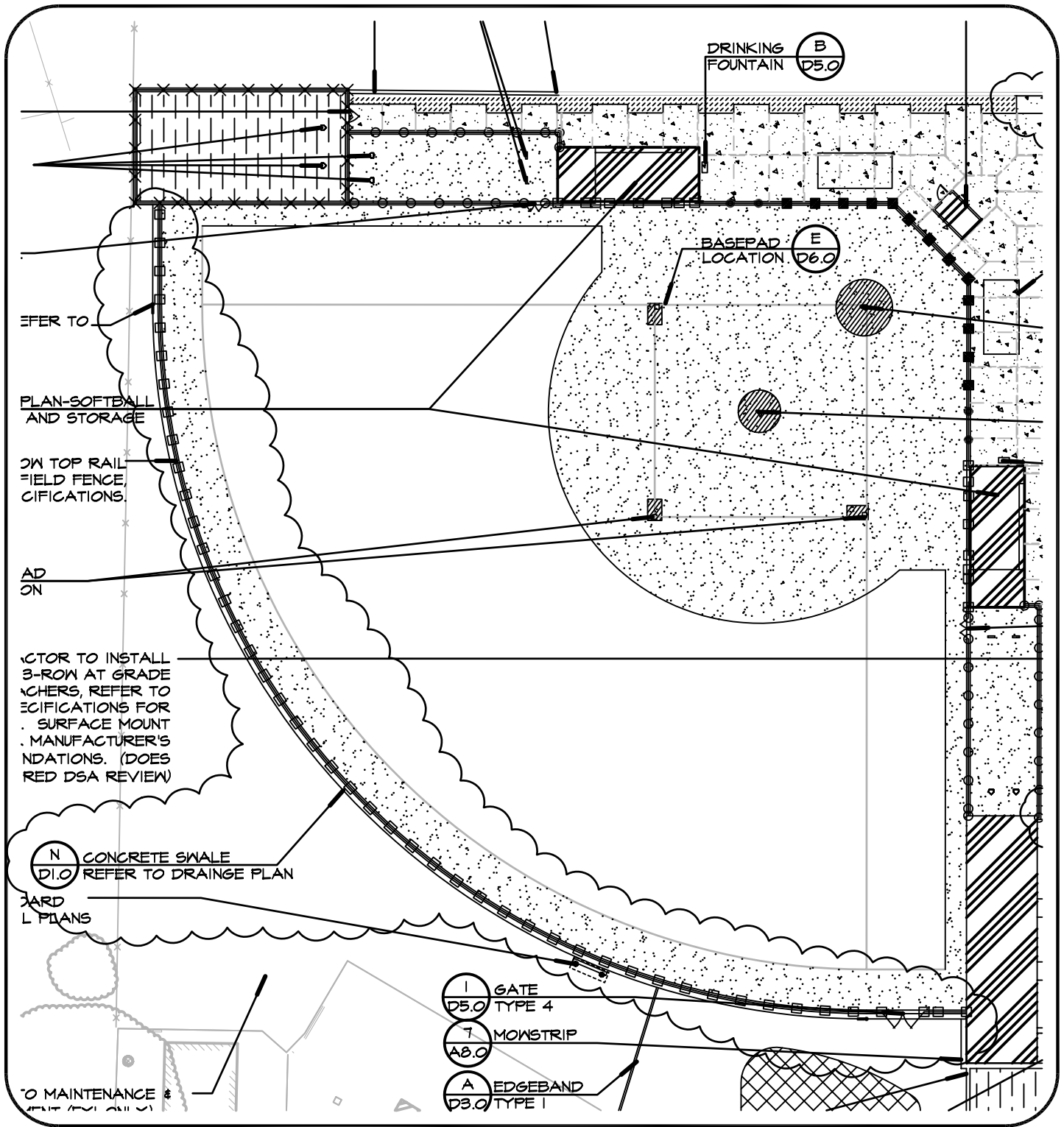
Addendum #2 - DRAWING ATTACHMENT  
 CONCRETE EDGE  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

Checked By DC

SCALE: 1"=30'-0"

DA#3



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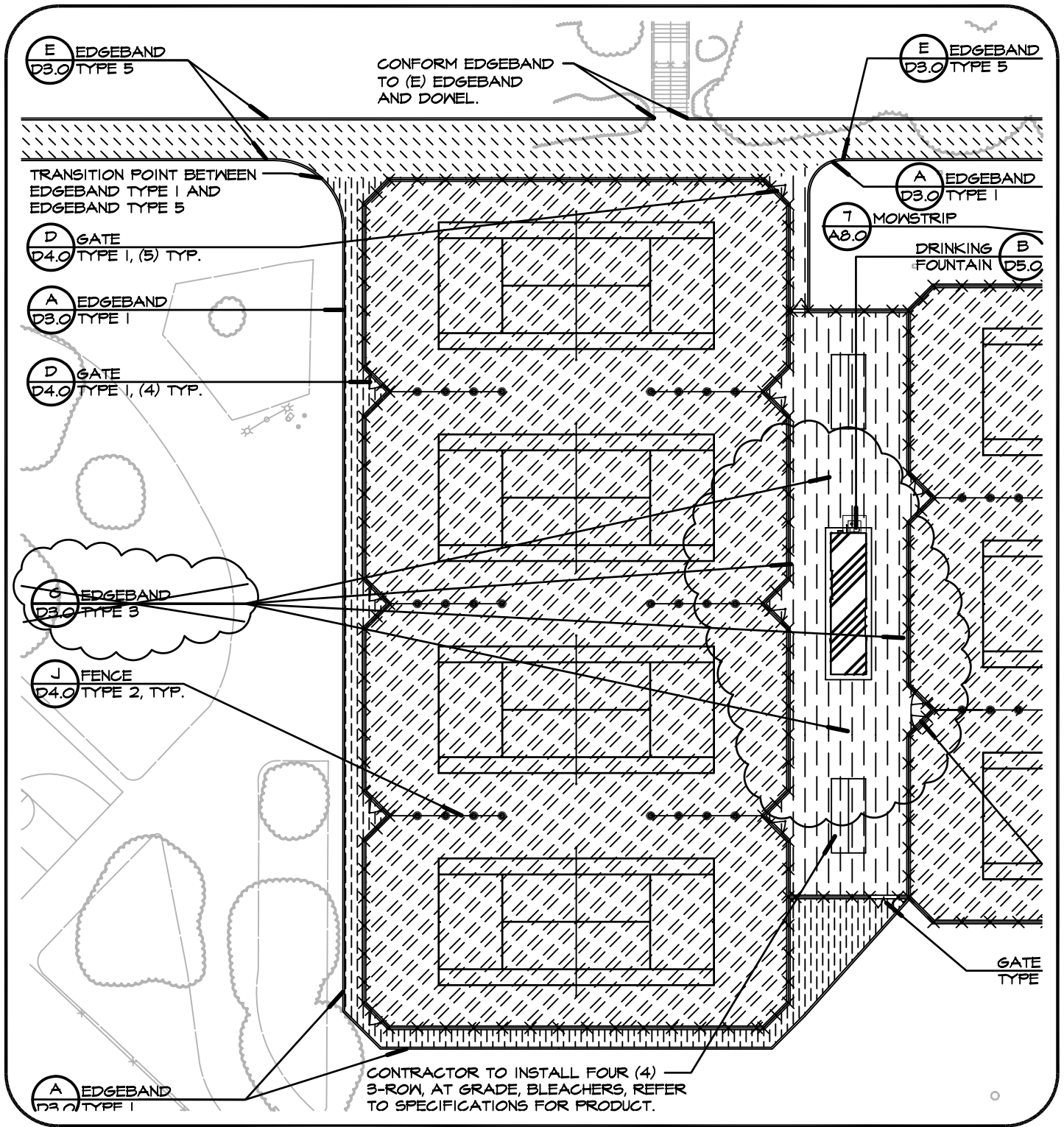
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 CONCRETE SWALE  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

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SCALE: 1"=40'-0"

DA#4



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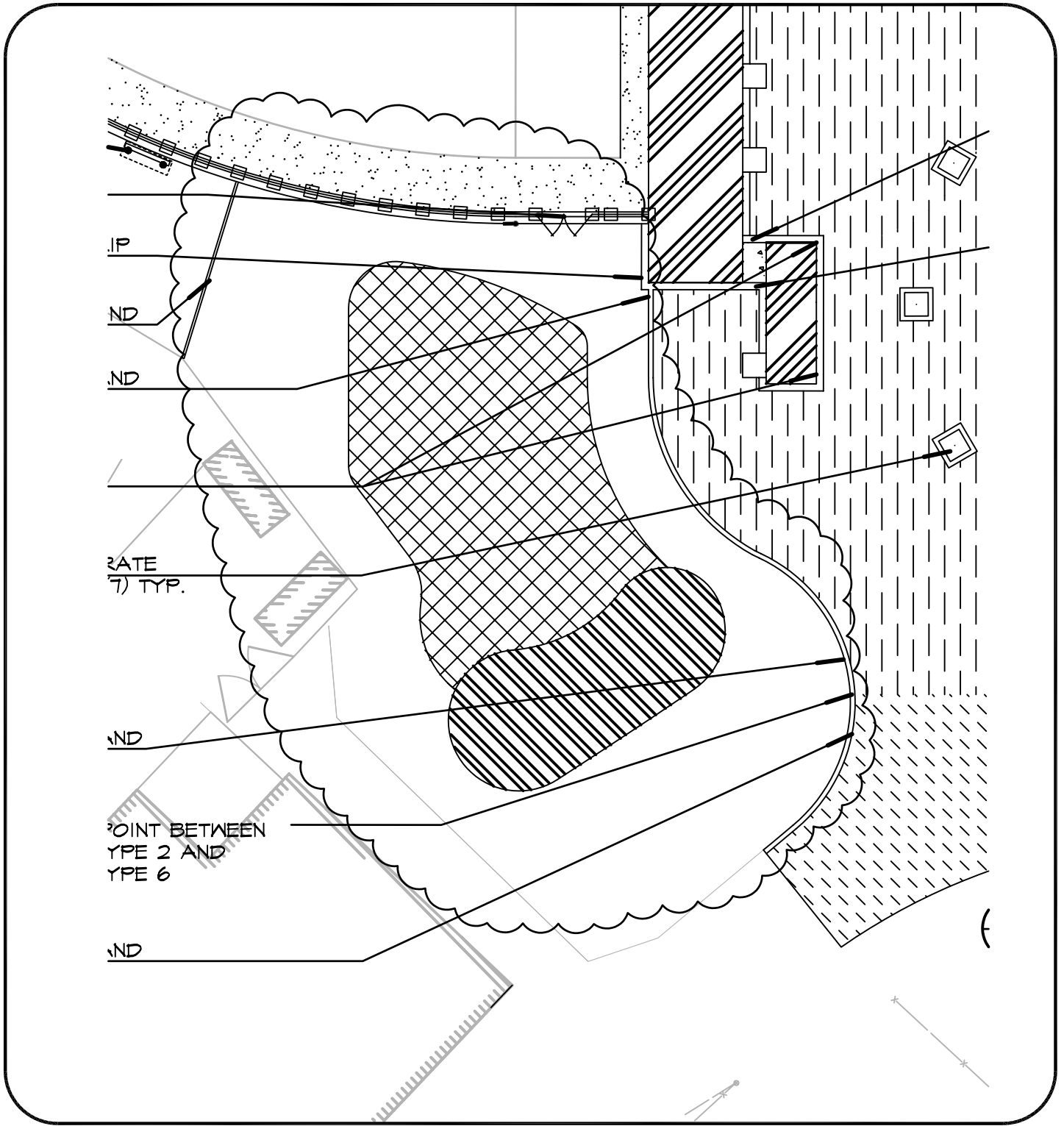
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 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

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SCALE: 1"=40'-0"

DA#5



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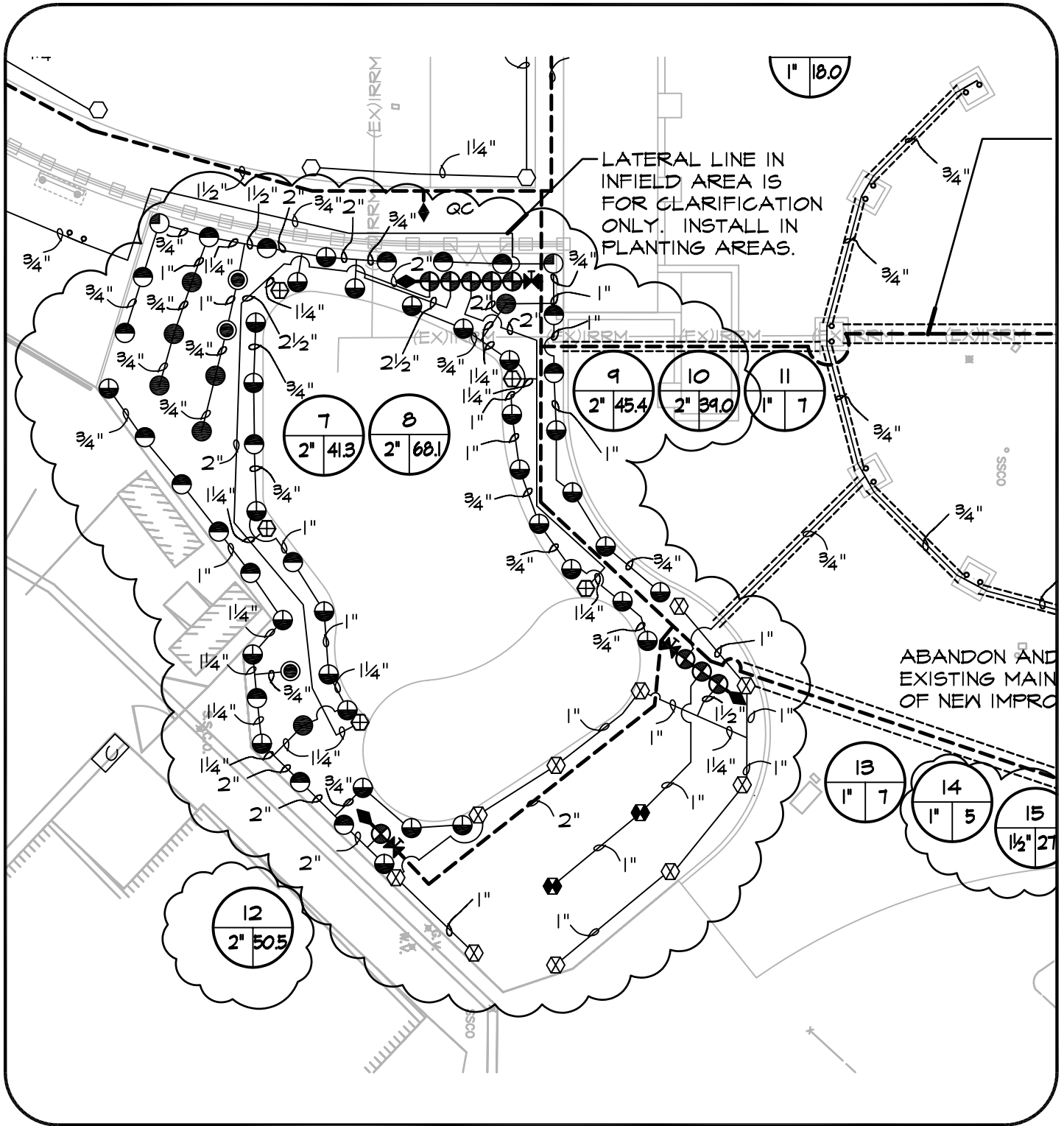
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 PUTTING GREEN AREA - MATERIAL  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

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SCALE: 1"=30'-0"

DA#6



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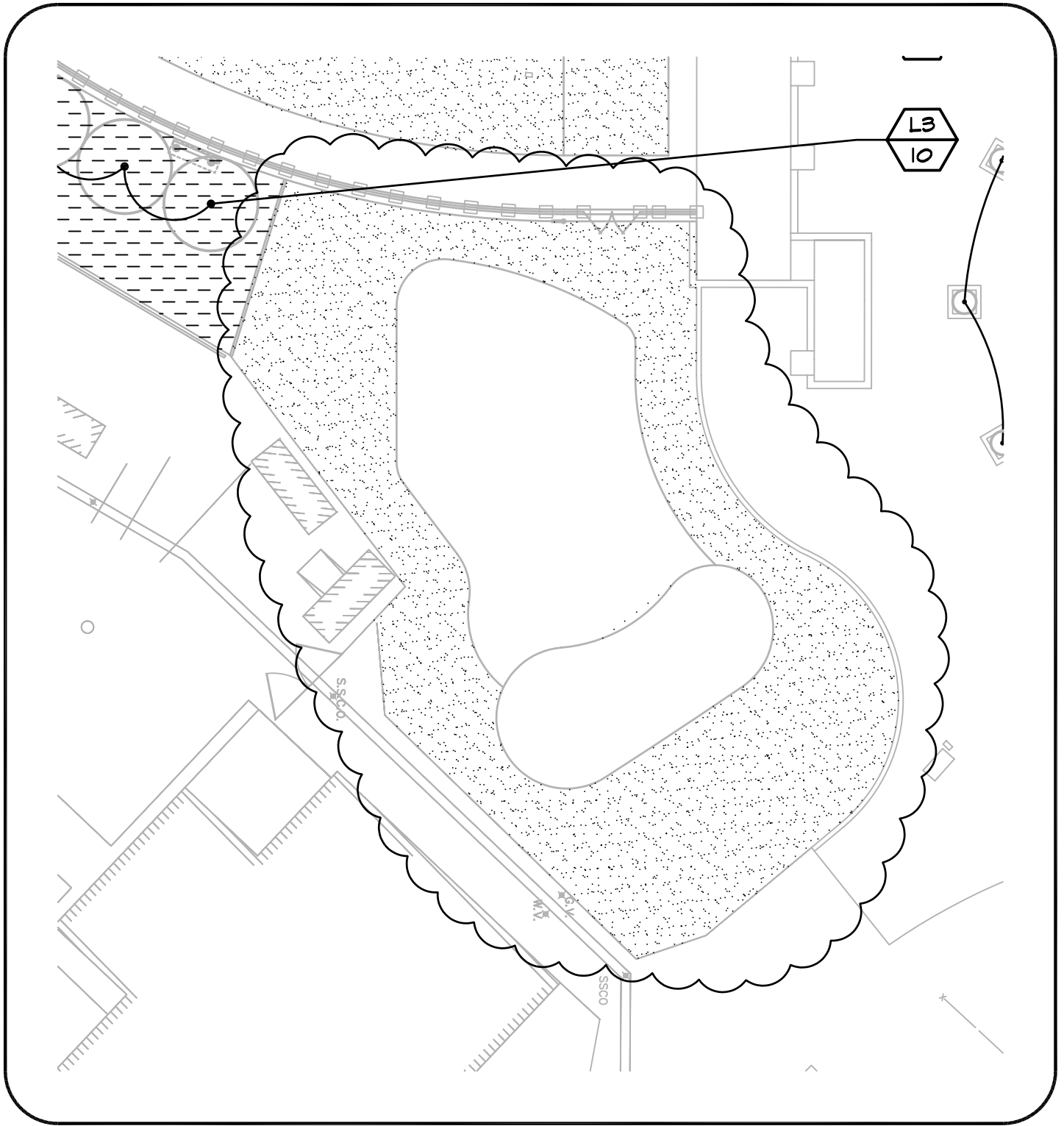
ADDENDUM #2 - DRAWING ATTACHMENT  
 PUTTING GREEN AREA - IRRIGATION  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

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SCALE: 1"=30'-0"

DA#7



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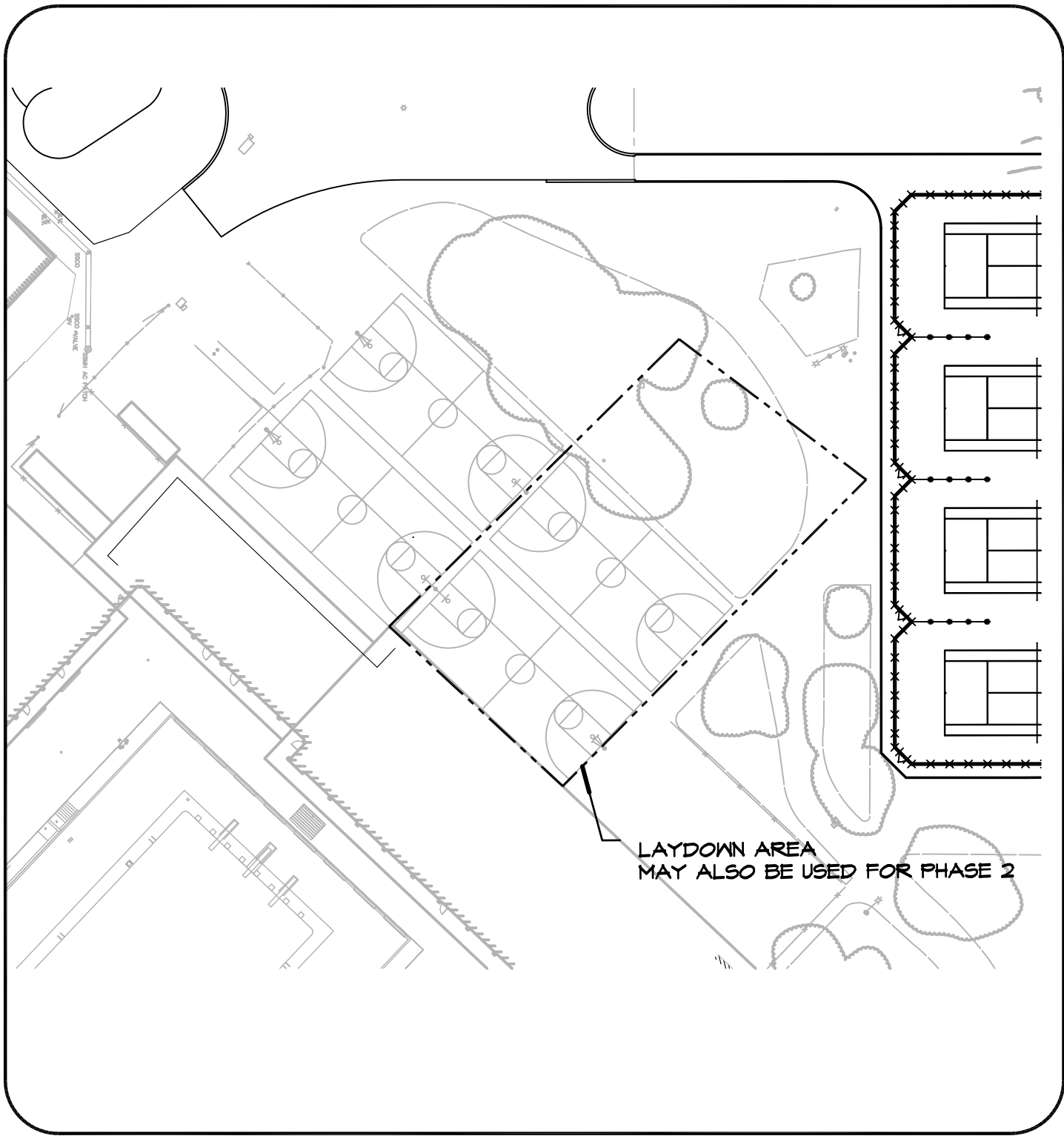
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**PUTTING GREEN AREA - PLANTING**  
**CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS**

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**DA#8**



LAYDOWN AREA  
MAY ALSO BE USED FOR PHASE 2



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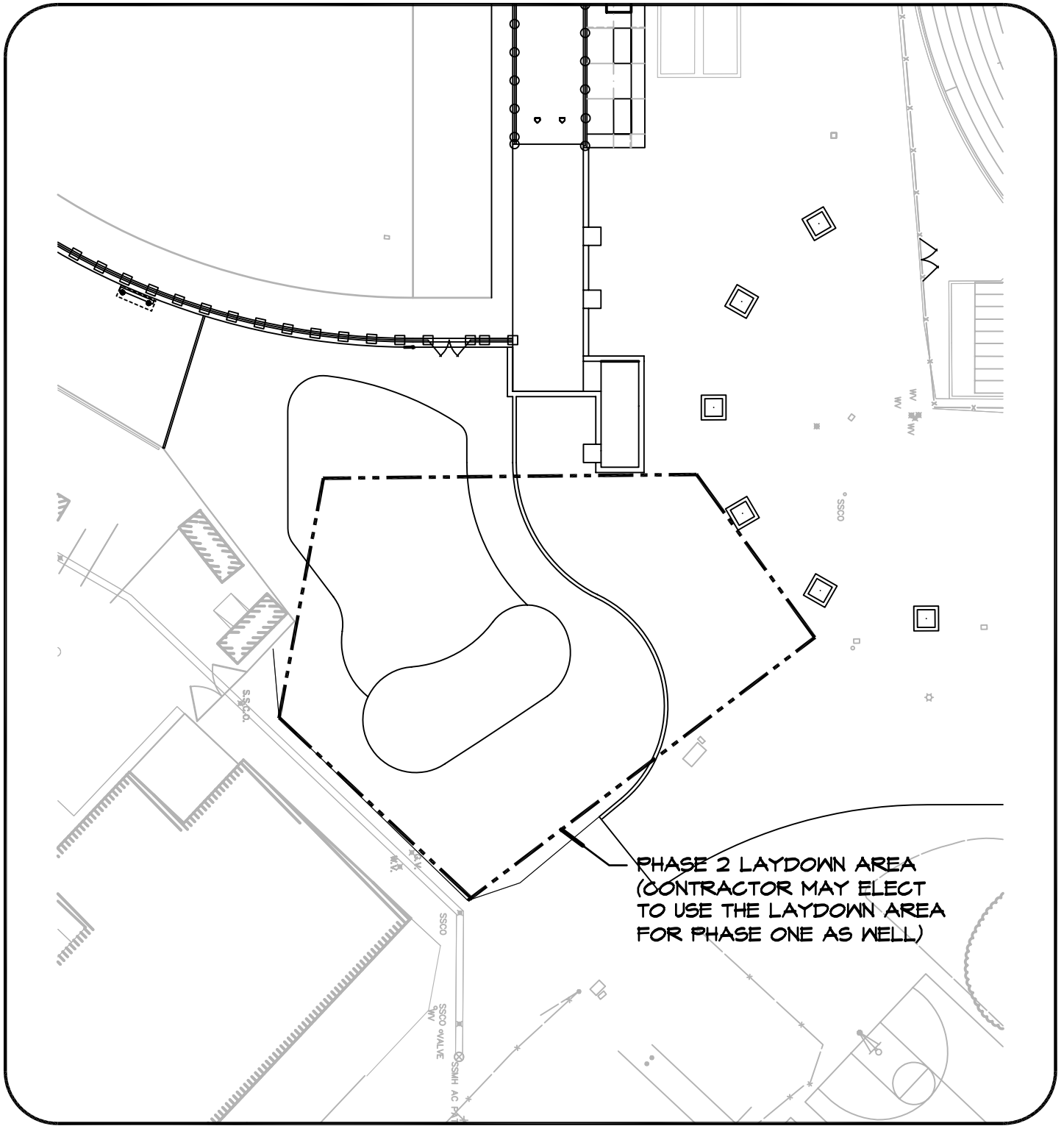
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 PHASE 1 LAYDOWN AREA  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

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SCALE: 1"=60'-0"

DA#9



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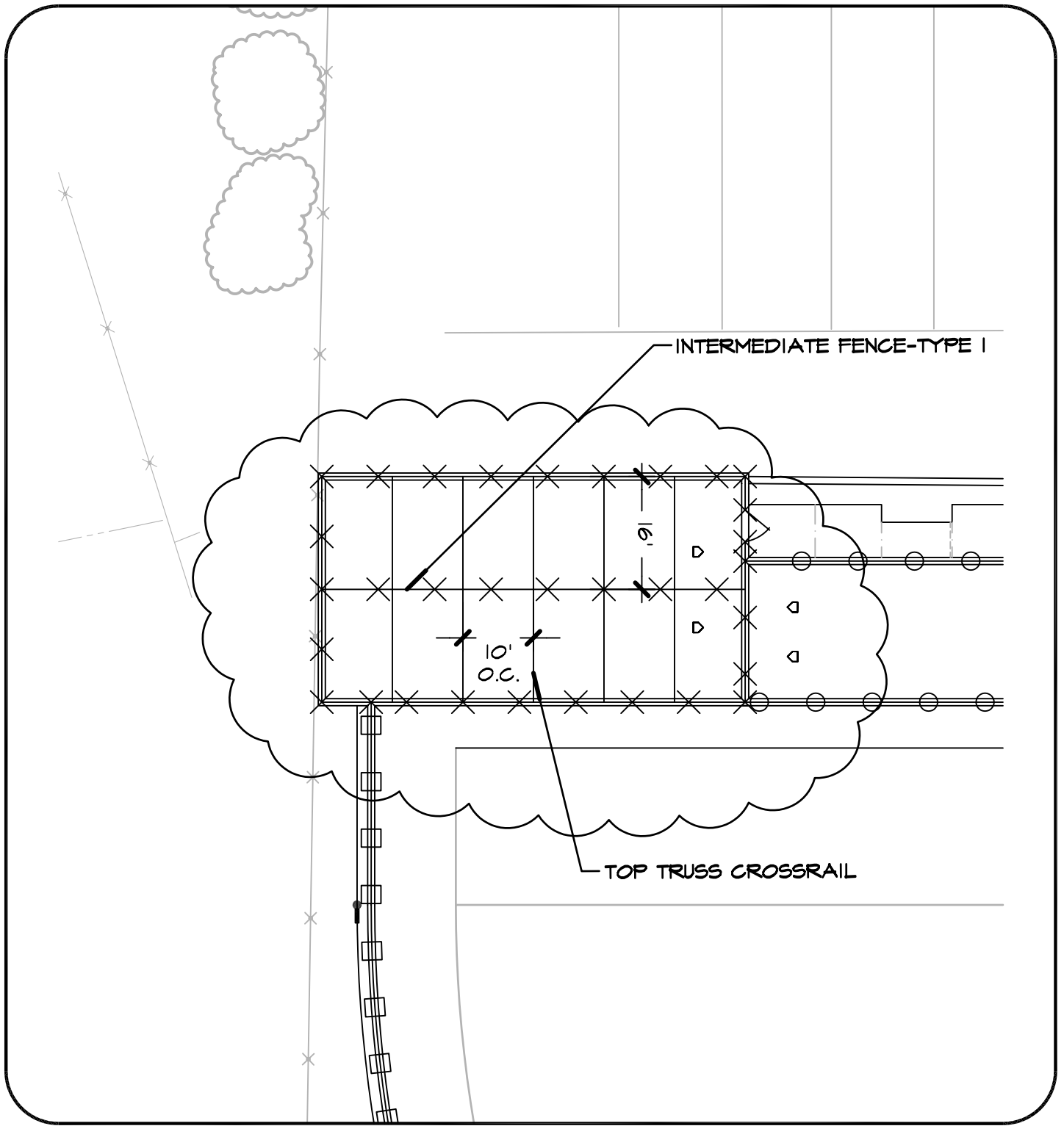
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 (OPTIONAL) PHASE 2 LAYDOWN AREA  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS**

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SCALE: 1"=40'-0"

DA#10



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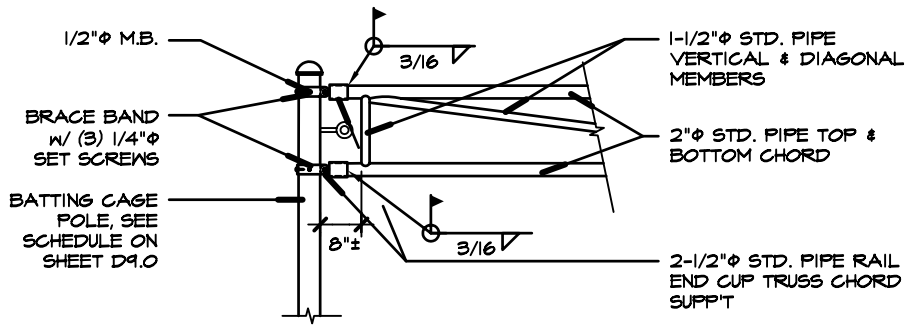
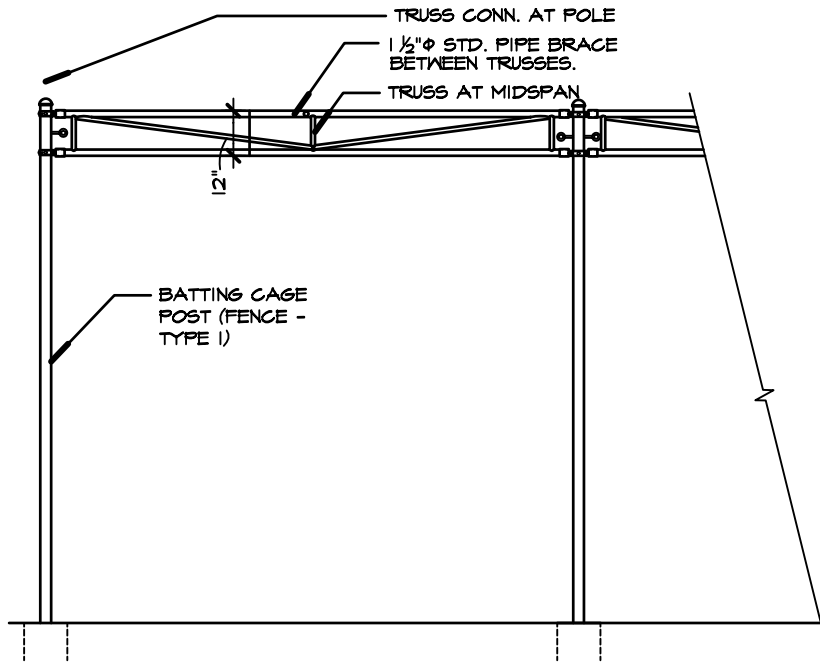
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 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

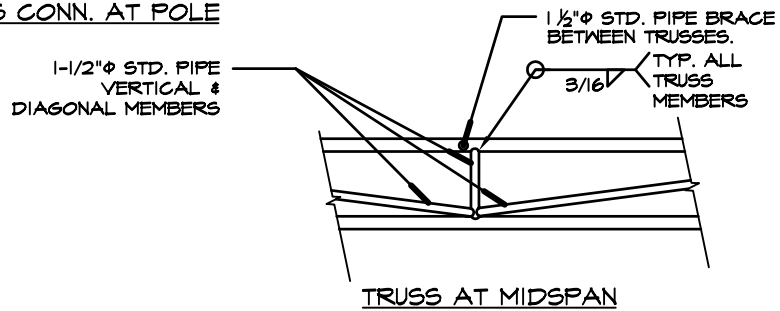
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DA#11



TRUSS CONN. AT POLE



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Addendum #2 - DRAWING ATTACHMENT  
 BATTING CAGE TRUSS SYSTEM DETAIL  
 CHABOT COLLEGE ATHLETIC FACILITIES RENOVATIONS

Project # 0600500-0593 Date 8/14/07

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SCALE: NTS

DA#12