

CONSTRUCTION SPECIFICATIONS

General

1. These drawings are schematic in nature and do not detail all work which must be performed. **The Contractor is required to check all dimensions and quantities of the Plans or schedules** given to them by the Engineer and shall notify the Engineer of all errors, omissions, conflicts, and discrepancies found therein which may be discovered by examining and checking the Plans.
2. Prices proposed shall include all ancillary items of work whether indicated on the plans and specifications or not, including coordination of work with ongoing activities at the facility and preventing damage or disturbance to portions of the facility outside the immediate work area.
3. All work related to staging, construction practices and safety of the project's workers and property shall be considered means and methods and shall be the contractor's sole responsibility. Visits to the site by the engineer are for the review of work for general conformance with the drawings and specifications. Engineer is not reviewing or responsible for details of construction or project safety and means of methods of construction.
3. Contractors must comply with all state and federal OSHA safety regulations.
4. When discrepancies in specifications and drawings occur, the more conservative shall prevail. Engineer shall be notified of any discrepancy in the specification and/or drawings.

Site-work

1. Existing concrete pads and benches located at each dugout location shall be removed and disposed of properly. Area should be filled and covered with a 4" layer of screened top soil.
2. Existing swale behind third base line of baseball field shall be relocated around the new dugout. General shape and grade of swale shall be maintained or improved.
3. Disturbed areas of site shall be seeded with a blend of Pennlawn-fine Fescue (67%) and perennial rye (33%). Cover seeded areas with Curlex or excelsior biodegradable blankets.

Foundations/concrete

1. All excavated material shall be properly disposed of off-site. On site soil piles will be not be permitted.

2. Bottom of all footings shall be a minimum 3ft below finish grade or top of slab elevation, whichever is lower.
3. Bottom of footing/slab sub-grade shall be inspected by the engineer before pouring concrete to verify that the soil is capable of safely bearing 2000psf.
4. All concrete work shall comply with the latest editions of ACI 318/ ACI SP-66/ ACI 301
5. Galvanized anchor bolts shall be 5/8" diameter by 12" long embedded in poured concrete and grouted in unit masonry. Minimum two (2) bolts per section of plate a maximum of 12" from each end with intermediate bolts at 32" O.C. max.
6. All concrete must be a 4,000 psi @ 28 days minimum, unless noted on drawings.
7. All reinforcing shall be ASTM A615 Grade 60. Lap all bars a minimum of 48 bar diameters unless otherwise noted on the drawings.
8. All slabs shall have WWF. All WWF shall be ASTM A185. Lap all WWF a minimum of 6 inches and set at mid-point of slab. Reinforcing to be 6x6 w2.1 x w2.1 unless noted otherwise on drawings
9. All slabs should have 1/4" by 1" deep control joints installed both long way and short way at each post.
10. Joint between CMU wall and slab shall have 1/2" closed cell foam full depth of slab

Masonry

1. CMU masonry units shall be ASTM C90 hollow units (fully grouted full height). Units shall have minimum compressive strength of 1,900PSI. Units to be **split face block** matching snack bar color. Lay all masonry in a full bed of mortar. Construct column piers integrally with foundation and above grade walls. Continue reinforcing through piers and grout all piers and pilasters fully.
2. All mortar to be Portland cement/lime conforming to ASTM C270 Type S with a minimum compressive strength of 1,900PSI. Grout to be a high slump mix in accordance with ASTM specification C476 having a minimum compressive strength of 3,000PSI.
3. All concrete masonry shall be constructed in accordance with the building code requirements in latest edition of ACI530/ASCE 5/TMS 402 and specifications of ACI 530.1/ASCE 6/ TMS 602.

4. Provide hot dipped galvanized truss type horizontal joint reinforcement, minimum 9ga at 16 inch on center vertical in all masonry walls. Install full height vertical reinforcing (#5 bar at each anchor bolt)

Wood framing

1. All wood construction shall be in accordance with the latest IBC and the American Forest Products Association "National Design Specification for Wood Construction". All structural lumber shall be stamped in accordance with the AITC "Construction Manual".

2. Roof rafters to have anchors to prevent uplift (minimum 200 lbs. each).

3. All structural lumber to be pressure treated #2 SYP (minimum) stress grade lumber, having a minimum allowable bending stress of 1,500 psi, minimum allowable shear stress of 175 psi, and minimum modulus of elasticity of 1,600,000 psi. Lumber shall be pressure treated in accordance with the AWPA or Federal Specification TT-W-571.

4. Pine lumber used for fascia and soffit shall not be finger jointed. Prime all surfaces of dimensional pine lumber before installation (See paint section for product)

5. Wall sheathing should be Plytanium T1-11 rough sawn plywood. Thickness 0.578". Prime both sides of panels before installation (See paint section for product). Nail using 8d nails at 4" O.C. top and bottom; 6" O.C. along vertical edges; 12" O.C. elsewhere

6. Plywood roof deck sheathing shall be APA Rated structural I panels, conforming to the following: 3/4" thick, Exterior Grade-APA Rated. Diagram nailing; 8d nails @ 6" O.C. all edges; 12" O.C. elsewhere.

7. Use heavy duty hot dipped galvanized hangers by Simpson Strong Tie Co. (or engineer approved equal) at all connections and post bases. Follow manufacturer's recommendations for fastener size and quantity.

8. Bottom plate for walls shall have Owens Corning foam seal gasket or approved equal.

9. Fascia and trim to be 22/23 ga (0.024) nominal pre-finished material (color to be chosen by WSSD)

Roofing

1. Drip edge to be Amerimax F5 or equal shaped aluminum. (Color to be chosen by WSSD)
2. Roof underlayment to be Owens Corning Deck defense High-Performance Synthetic underlayment or approved equal. Overlap underlayment at least 1/2 width due to low roof slope. Note: Self adhered Ice & Water barrier installed per manufacturer recommendations is an acceptable alternate.
3. Shingles to be Owens Corning Duration dimension shingles or approved equal. Each shingle to have six 1 1/2 inch nails (no staples)

Personnel Doors

1. Design specification is generic. Manufacturer must be SDI certified.
2. Doors shall be 1 3/4" thick 18ga factory primed steel with polystyrene foam core. Door to have top/bottom channels with filler cap; Factory reinforced hinge, closer, and deadbolt prep.
3. Frame to be 14ga M series (masonry) primed ; 6 3/4" jamb depth and 2 " faces; Closer reinforced; Dimpled for flat head anchors/screws; prepped for deadbolt and hinges; button silencers
4. Hinges to be 4" NRP BB; prime finish.
5. Door to have Hager 4" by 16" push/pull plates. Aluminum finish
6. Door to have single cylinder deadbolt with Best Locks construction core.
4. Door opening to have flat threshold.
5. Door to have brush type door sweep.

Painting (Colors to be chosen by WSSD)

1. CMU to have Two coats of Loxon self cleaning acrylic coating inside and outside
2. T1-11 siding to have Prime coat multipurpose interior/exterior primer inside and outside prior to install. Top coat exterior with Latitude Exterior Acrylic Latex
3. Trim to have prime coat all surfaces prior to install
4. Doors and frames to have prime coat multipurpose interior/exterior primer and two coats Emerald Urethane Trim Enamel.

Fencing

1. Fence and gates to be 8ft high
2. Galvanized chain link fence fabric to match existing 8ft high barrier
3. Corner posts and gate post to match end posts of 8ft high barrier
4. Concrete footings to be 12" diameter by 3ft deep with crowned top surface.
5. Gate framing to have welded corners and mid rail. Comply with ASTM F 900.
6. Hardware
 - Hinges to be 180 degree swing as noted on drawings
 - Latches to permit operation from both sides of gate with provision for padlocking accessible from both sides of gate