

# DALE | BAILEY

# Jackson • Biloxi Mississippi

# AN ASSOCIATION







Superintendent

# **Board of Education**

**Board President Board Vice-President** Secretary **Board Member** 

# Team

Owner

Architect Structural Mechanical Electrical Civil







Meridian High School Softball/Baseball

### **Project Directory**

#### **Project Information**

Name: 22034 Meridian High School Softball/Baseball Address: 2320 32nd St, Meridian, MS 39305 Phone: (601) 482-3191

#### Client

Meridian School District 1019 25th Ave, Meridian, MS 39301 (601) 483-6271 Contact: Dr. Amy Carter (amcarter@mpsdk12.net)

### Architect

Dale Bailey an Association One Jackson Place / Suite 250 188 East Capitol Street Jackson, MS 39201-2100 (601) 352-5411 Contact: Russ Blount (russblount@dalepartners.com)

Carter Mill Sansing, Ltd. 404 Hwy 19N, Meridian, MS 39307 (601) 483-0601 Contact: Josh Sansing (jsansing@cmaltd.us)

Structural Design Group 220 Great Circle Road, Suite 106 Nashville, TN 37228 (615) 255-5537 Contact: Tom Schaeffer (Toms@sdg-structure.com)

GSK Mechanical, Inc 201 Park court, Suite A Ridgeland, MS 39157 (601) 605-2930 Contact: Jason Kackley (jkackley@gskmech.com)

The Power Source, PLLC 305 Highway 51 Ridgeland, MS 39157 (601) 605-4820 Contact: Chris Green (cgreen@thepowersource.us)

# General Project Notes

#### Energy Code Requirements

- 1. IBC 2018 Energy Code is the mandatory energy code standard for this project. 2. All mechanical and electrical building system installed
- should meet all requirements of the energy code. 3. Main roof insulation to achieve minimum R-value of 38
- 4. polyisocyanurate insulation board with joints staggered
- between layers of insulation. 5. Continuous air barrier to be provided at building envelope per IBC 2018 Energy Code. Air barrier joints and seams to be sealed and all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind or mechanical units.

#### Thermal Envelope Requirements

**1.** Roofs = R-38 ci (insulation entirely above deck)

General Information

- 1. Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from the architect before continuing with the construction
- 2. Contractors shall verify, on the site, all dimensions and equipment locations, and notify architect promptly in writing of any discrepancies
- 3. Contractors shall be responsible to determine the on site conditions and perform all necessary work to complete the project
- 4. Contractors shall maintain safe methods of egress for occupied buildings and in site area during construction 5. All casework dimensions shall be field verified before
- unit fabrication or installation 6. Dimensions, notes, finishes, and fixtures shown on
- typical floor plans shall apply to similar, symmetrical, or opposite hand plans, sections, or details 7. Typical, or typ., shall mean that condition is representative for similar conditions throughout, U.N.O.
- Details are usually keyed and noted "Typ." only one time when they first occur 8. Partitions are dimensioned from finish face U.N.O.
- Dimensions to masonry are to actual finish face U.N.O. 9. Owner to have right of refusal for all materials, furniture, fixtures and good within the limits of the construction contract.

Code Requirements

#### 1. Applicable Codes and Standards :

A. IBC - International Building Code (2018 edition) B. IMC - International Mechanical Code (2018 edition)

C. IPC - International Plumbing Code (2018 edition)

D. IEC - International Electrical Code (2018 edition)

E. IFC - International Fire Code (2018 edition)

F. ADA 2010- Americans with Disabilities Act

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RA601 General Areas

RC101 Architectural Site Layout



#### Architects

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201 Park Court Suite B Ridgeland, MS 39157 p 601.790.9432

161 Lameuse St. Suite 201 Biloxi, MS 39530 p 228.374.1409

dalebaileyplans.com





Index & General Project Information

DE	ESIGN		TERIA		
1.	Buildi	ng Cod	e: 2018 International Building (except Chapter 14)	Code and ASCE 7-16	
	1.1. E	Building	Risk Category: II		
2.	Desig	n Load	S		
	2.1.	Unifor	m Floor Live Loads (reduced	per Building Code, UNO)	
		Partitio Gener Corrid Offices Team Locker Mecha Storag Press	ons al Areas ors/Lobbies s Meeting Room r Rooms/Training Rooms anical Rooms je Box	20 psf 100 psf 100 psf 50 psf 100 psf 40 psf 125 psf 40 psf	
	2.2.	Roof L	oads		
		2.2.1.	Uniform Roof Live Load (red Concentrated Roof Live Loa	duced per Building Code) id	20 psf 300 lbs
		2.2.2.	Rain Loads: Rain Intensity,	i = 7.2 in/hr (15-min durat	ion/ 100 yr MRI)
	2.3.	Wind I	Loads:		

- Basic Wind Speed V(ult) =114 mph; V(asd) = 88.3 mph Wind Exposure C Internal Pressure Coefficient,  $GC_{pi} = +/-0.18$  (Enclosed Building) Directionality Factor,  $K_d = 0.85$
- 2.3.1. Component and Cladding Pressures (psf)

# Wall C&C Pressures —

Field House (psf)				
Eff. Area (sq. ft.)	Zone 4	Zone 5		
10	+26.6 / -28.8	+26.6 / -35.5		
20	+25.4 / -27.7	+25.4 / -33.1		
50	+23.9 / -26.1	+23.9 / -30		
100	+22.7 / -24.9	+22.7 / -27.7		
200	+21.5 / -23.7	+21.5 / -25.3		
500	+20 / -22.2	+20 / -22.2		

Wall C&C Pressures — Press Box (psf)				
Eff. Area (sq. ft.)	Zone 4	Zone 5		
10	+27.5 / -29.8	+27.5 / -36.7		
20	+26.3 / -28.6	+26.3 / -34.3		
50	+24.7 / -27	+24.7 / -31.1		
100	+23.5 / -25.8	+23.5 / -28.6		
200	+22.3 / -24.6	+22.3 / -26.2		
500	+20.7 / -23	+20.7 / -23		

Roof C&C Pressures — Field House (psf)					
Eff. Area (sq. ft.)	Zone 1	Zone 2r	Zone 2e	Zone 3	
10	+21.7 / -36.5	+21.7 / -63.6	+21.7 / -48.8	+21.7 / -48.8	
20	+18.7 / -36.5	+18.7 / -57.3	+18.7 / -44.8	+18.7 / -44.8	
50	+16 / -32.3	+16 / -49	+16 / -39.5	+16 / -39.5	
100	+16 / -29.1	+16 / -42.7	+16 / -35.5	+16 / -35.5	
200	+16 / -29.1	+16 / -36.5	+16 / -31.5	+16 / -31.5	
500	+16 / -29.1	+16 / -36.5	+16 / -31.5	+16 / -31.5	

#### Roof C&C Pressures — Press Box (psf) Eff. Area Zone 1 Zone 2 Zone 3 (sq. ft.) 10 +16 / -32.6 +16 / -37.7 +16 / -50.5 20 +16 / -32.6 +16 / -37 +16 / -45.9 50 +16 / -32.6 +16 / -36 +16 / -39.8 100 +16 / -32.6 +16 / -35.2 +16 / -35.2

200 +16 / -32.6 +16 / -35.2 +16 / -35.2

500 +16 / -32.6 +16 / -35.2 +16 / -35.2

#### **Roof C&C Pressures — Bleacher**

Canopy (psf)						
Eff. Area (sq. ft.)	Zone 1	Zone 2	Zone 3			
10	+16 / -29	+16 / -34.3	+16 / -47.5			
20	+16 / -29	+16 / -33.5	+16 / -42.7			
50	+16 / -29	+16 / -32.5	+16 / -36.4			
100	+16 / -29	+16 / -31.7	+16 / -31.7			
200	+16 / -29	+16 / -31.7	+16 / -31.7			
500	+16 / -29	+16 / -31.7	+16 / -31.7			

2.4 Earthquake Loads: Seismic Importance Factor, I = 1.00

> Mapped Spectral Response Accelerations,  $S_S$  and  $S_1 = 0.165$  and 0.084 Site Class: D

Spectral Response Coefficients,  $S_{DS}$  and  $S_{D1}$  = 0.176 and 0.134 Seismic Design Category: C

Field House:

Basic Seismic-Force-Resisting System: Light-frame (wood) walls sheathed with wood structural panels rated for shear resistance Design Base Shear: 3.31 kips

- Seismic Response Coefficient, C<sub>s</sub> = 0.027 Response Modification Factor, R = 6.5
- Analysis Procedure: Equivalent Lateral Force Procedure

Grandstand Canopy/Press Box: Basic Seismic Force-Resisting System: Steel ordinary concentrically braced frames

- Design Base Shear: 10.1 kips Seismic Response Coefficient, C<sub>s</sub>, = 0.054
- Response Modification Factor. R = 3.25
- Analysis Procedure: Equivalent Lateral Force Procedure

3. Structural Engineer is not responsible for the design of steel stairs, handrails, curtain wall/window wall systems, cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents

4. Steel floor and roof assemblies and individual beams shall be considered "Restrained" (ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials) for determining fireproofing thickness.

#### 5. No explicit provisions have been made for future building expansion.

#### STEEL DECK

1. Steel Roof Deck: See plan for gage, galvanized

2. Non-Composite Steel Form Floor Deck shall have the following minimum properties

#### Section Modulus: Positive, $S_p = 0.098$ in<sup>3</sup> Negative, $S_n = 0.103 \text{ in}^3$

- Moment of Inertia, I = 0.073 in<sup>4</sup>
- 2.1 In no case shall the deck thickness be less than 22 gage regardless of the deck properties provided
- 2.2 Form deck shall be galvanized
- Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

#### GENERAL

- unless specifically noted otherwise.
- 2. Material, workmanship, and design shall conform to the referenced Building Code. 3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
- 4. Contractor responsibilities include, but are not limited to, the following: 4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission prior to installation of associated work.
- 4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.
- 4.3 Equipment/Framing Verification
- 4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.
- 4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.
- 4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
  - 4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.
  - 4.6 Contractor is responsible for locating concrete reinforcement prior to installation of postinstalled anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.
- 5. Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.

#### **SUBMITTALS**

- 1. Shop Drawings and Submittals

  - 1.2 Electronic drawing files will not be provided to the Contractor.
  - 1.3 Review of shop drawings will be for conformance with the Construction Documents regardin arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.

#### 2. Submittals

# Engineer's review.

3. Deferred Submittals

# fabrication and installation.

- 3.2 Submittal documents for Deferred Submittals: 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
- 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building
- Official. 3.3 The following shall be considered Deferred Submittals: Steel Connections - See "Structural Steel" Section
- Shop-Fabricated Wood Trusses Pre-engineered Canopies

#### **FOUNDATION**

- 1. Geotechnical Report: Report of Geotechnical Exploration for Meridian Senior High School Prepared by W Geotechnical and Testing, Inc. Report No. G-1277J, Dated December 9, 2022
- 1.1 It is recommended that the Contractor become familiar with the subsurface conditions that will be encountered and obtain a copy of the geotechnical report and any supplemental reports. The report(s) may be included as a reference document within the construction documents.
- Otherwise the Contractor should contact the Owner to obtain a copy of the report(s).
- 2. Building Pad Preparation
- 2.1 Strip vegetation and topsoil.
- 3. Soil Bearing Capacity:

#### REINFORCEMENT

- 1. Reinforcing Bars: ASTM A615, Grade 60
- 1.1 Reinforcing bars are not to be welded. 2. Welded Wire Reinforcement (WWR): ASTM A1064, 8" minimum side and end laps
- 3. Reinforcement Placement (UNO) 3.1 Concrete Reinforcement Cover
  - Unformed Below Grade: Formed
  - Slabs
- drawings. 4. Reinforcement Splices
- 4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
- 4.2 Splice Lengths (UNO) Concrete Reinforcement: Class B Tension Lap Masonry Reinforcement: #4 - 24" / #5 - 30" / #6 - 48" / #7 - 60"

# STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

Footings (Isolated / Continuous)

Slabs on Composite Steel Deck

Mechanical Equipment Pads:

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings,

- 1.1 Reproduction of Structural Drawings for shop drawings is not permitted.
- 2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for
- 3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to

- 2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural
  - 2000 psf Isolated Footings Continuous Footings 2000 psf

    - 3" clear 2" clear 3/4" clear
- 3.2 Masonry reinforcing steel: Place in the center of CMU cells, unless otherwise noted in

# **CAST-IN-PLACE CONCRETE**

Grade Beams

Slabs-on-Ground

Interior

- 1. Concrete Properties
- 1.1 Normal Weight Structural Concrete 28-Day, f'c w/cm Ratio Entrained Air
  - (min.) (max.) 4,000 psi None Required ----3,000 psi ----None Required 3,500 psi 0.48 None Required 3,500 psi 0.48 None Required 3,000 psi None Required ----

5.0 +/- 1.5%

5.0 +/- 1.5%

- Exterior 3,000 psi ----All Other Structural Concrete 4,000 psi 0.40
- Note: All concrete shall be assigned the exposure classes FO, SO, WO, and CO; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S3, W1, and C2 (see ACI 318).
- 2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.
- 3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc. 3.1 Conduit shall not be placed within the slab-on-ground. Conduit shall be installed below the slab-
- on-ground within the granular subbase.
- 4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
- 5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.
- 6. Curing
- 6.1 Begin curing procedures immediately following commencement of the finishing operation. 6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional
- information. 6.3 All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.
- NON-SHRINK GROUTING
- 1. Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.
- 2. Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

# **CONCRETE MASONRY**

- 1. Specified Compressive Strength,  $f'_m = 2,000$  psi
- Minimum Net Area Compressive Strength of Masonry Unit: 2,000 psi (ASTM C90 w/ Type M or S Mortar)
- 2. Mortar: Walls below grade Type M Bearing walls Type M or S
- Partition walls Type N
- 3. Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.
- 3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade. 3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior single wythe CMU walls shall have head joints fully mortared.
- 4. Horizontal Joint Reinforcement, UNO: Two (2) No. 9 gage longitudinal wires at 16" vertically. Lap wire 6" minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.
- 5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- 6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.
- 7. Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1<sup>1</sup>/<sub>2</sub> times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.
- 8. Submit written construction procedures prior to the start of masonry construction.
- 9. Grout fill beam and joist pockets in masonry walls after welds are inspected.
- 10. Contractor shall submit drawings coordinated with masonry and MPE contractors indicating the MPE penetrations through load bearing and non-load bearing walls. These drawings shall indicate the size and location of all penetrations and shall be submitted to the Architect/Structural engineer prior to installation.

#### STRUCTURAL STEEL

#### 1. Steel Shapes

- 1.1 W-Shapes: ASTM A992 (Grade 50)
- 1.2 Angles, Channels, Plates, UNO: ASTM A36
- 1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
- 1.4 Pipe Structural Sections: ASTM A53, Grade B
- 2. Anchor Rods, Bolts, and Studs
- 2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.
- 2.2 Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.
- 2.3 The following connections are slip-critical: Any field modified connection
  - Connections indicated as slip-critical (SC)
- 2.4 Headed Studs: AWS D1.1. See Details for Diameter, Length and Spacing. Length given is inplace length after burn-off.
- 3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" referenced in the referenced Building Code.
- 4. Connections shall be detailed based on the design information provided in the Structural Documents.
- 4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, singleangle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction" referenced in the referenced Building Code.
  - 4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer, completed prior to and submitted with the Structural Steel Shop Drawings.
- 4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.
- 4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction" referenced in the referenced Building Code.
- 4.4 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state. completed prior to and submitted with the Structural Steel Shop Drawings.
- 4.5 Axial Tension Strength of Connections
  - 4.5.1 Where steel beams are non-composite and at roof deck areas, beam and girder end connections shall have a minimum nominal axial tensile strength equal to five percent of the required shear strength for LRFD.
- 5. Shop Drawings: Submittal shall adequately depict structural members and connections.
- 6. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welde qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.
- 7. Architecturally Exposed Structural Steel (AESS): Conform to AISC Code of Standard Practice, Section 10. AESS shall be sandblasted (SSPC-SP6) prior to primer coat application. Primer shall be compatible with final paint coat and shall be approved by finish paint contractor. Steel deck shall be painted after installation. See Architectural Documents for paint specifications. AESS includes the following:
  - Structural steel members exposed to view Structural steel members identified as AESS in the Structural or Architectural Drawings

## 8. Galvanizing

- 8.1 Galvanize environmentally exposed steel, for example mechanical equipment supports and screenwalls.
- 8.2 Galvanized members shall have proper treatment performed to accept paint
- 8.3 Touch-up welds and abrasions in galvanized members in accordance with ASTM A780
- 9. Shelf Angles Supporting Masonry Veneer
- 9.1 All shelf angles supporting exterior building veneer are to be galvanized. Touch-up welds and abrasions in accordance with ASTM A780.
- 9.2 Galvanized brick lintel angles receiving paint shall have proper treatment performed to accept paint.
- 9.3 Sections and details presented in the structural documents may not be construed as defining the elevation of shelf angles. Elevations of shelf angles must be coordinated with the architectural drawings to ensure shelf angles are positioned at the proper elevation for masonry coursing.
- 9.4 Contractor shall submit elevations and plans depicting all masonry shelf angles and their respective elevations for approval by the architect and structural engineer prior to construction.

#### **POST-INSTALLED ANCHORS**

- 1. Post-installed anchors shall only be installed where indicated on the structural drawings, unless approved by engineer of record.
- 2. The below products are the design basis for this project. Product diameter and embedment shall be as shown in the details. Install products IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). Refer to the project building code and/or evaluation report for special inspections and proof load requirements. Substitution requests for products other than those listed below may be submitted by the contractor to the Engineer-of-Record (EOR) for review. Substitutions will only be considered for products having a research report recognizing the product for the appropriate application under the project building code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product.
- 3. For Anchoring into Concrete
- 3.1 Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), DeWalt/Powers Power-Stud+ SD1 (ICC ES ESR-2818), or DeWalt/Powers Power-Stud+ SD2 (ICC-ES ESR-2502). Minimum embedment = 6 times anchor diameter UNO.
- 3.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-2713), DeWalt Screw-Bolt+ (ICC-ES ESR-3889) or Hilti Kwik HUS-EZ (ICC-ES ESR-3027). Minimum Embedment = 6 times anchor diameter, UNO.
- 4. For Anchorage into Solid Grouted Concrete Masonry
- 4.1 Expansion Anchors: Hilti Kwik Bolt 3 (ICC-ES ESR-1385), Simpson Strong-Bolt 2 (IAPMO-UES ER-240), Simpson Wedge-All (ICC-ES ESR-1396) or DeWalt/Powers Power-Stud+ SD1 (ICC-ES ESR-2966). Minimum embedment = 6 times anchor diameter, UNO.
- 4.2 Screw Anchors: Simpson Titen-HD (ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-1678), Hilti Kwik HUS-EZ (ICC-ES ESR-3056). Minimum Embedment = 6 times anchor diameter, UNO.
- 5. Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

#### WOOD

- 1. Structural framing plans depict the primary structural framing system. Contractor shall provide secondary and miscellaneous framing as required to complete the project (see architectural drawings).
- 2. Dressed Seasoned Lumber: S4S, 19% maximum moisture content at time of dressing. 2.1. Interior and Exterior Loadbearing Walls:
  - Southern Pine, No. 2 grade
- 2.2. Lintels, Floor Joists and Beams
- Southern Pine, No. 2 grade
- 2.3. Wood in Contact with Concrete or Masonry or Exposed to Weather: Foundation grade pressure-treated. Use galvanized nails in pressure-treated wood.
- 3. Structural Glued Laminated Timber: Comply with American Institute of Timber Construction (AITC). Minimum allowable bending stress = 2,400 psi (dry).

#### 4. Structural Panels

- 4.1. Floor Panels: Tongue-and-groove APA rated Sturd-I-Floor (plywood or OSB).
- 4.1.1. Panels shall have a Span Rating of 24 and Exposure 1. 4.1.2. Panels shall be placed with the "Strength Axis" perpendicular to the supports. End joints shall be staggered.
- 4.1.3. Floor Panels Shall be both glued and nailed
- 4.1.4. Panels shall be nailed with 10d (0.148 dia.) at a maximum of 12 inches at both panel edge supports and at intermediate supports unless noted otherwise. Nailing shall be completed before glue sets.
- 4.1.5. Panels shall have glue applied at supports, end joints and tongue and groove joints. Adhesives shall conform to APA Specification AFG-01 or ASTM D3498, and applied in accordance with the adhesive manufacturer's recommendations. For OSB panels with sealed surfaces, use only solvent-based glues in accordance with panel manufacturer's recommendations.
- 4.2. Wall Panels: APA rated sheathing
- 4.2.1. Panels may be installed either horizontally or vertically.
- 4.2.2. Panels shall be a minimum of 24-inches wide.
- 4.2.3. There shall be a 1/8-inch gap at panel edges and ends.
- 4.3. Roof panels: APA rated sheathing (plywood or OSB).
- 4.3.1. Panels shall have a Span Rating of 40/20 and Exposure 1. 4.3.2. Panels shall be placed with the long direction perpendicular to the supports and shall be
- a minimum of 24-inches wide and continuous over at least 2 supports. 4.3.3. Roof panels shall be both glued (exterior glue) and nailed.
- 4.3.4. Long panel edges shall be supported with Edge Clips; one located midway between
- each support. There shall be a 1/8-inch gap at panel edges and ends.
- 4.3.5. OSB panels shall be installed with the textured side up.

#### 5. Wood Shearwalls

approved

- 5.1. Shearwalls shall be constructed with 15/32" Structural I APA rated wood structural panels. Panels shall be oriented with the long dimension in the vertical direction. Oriented strand board (OSB) may be used in lieu of plywood. OSB panels shall be APA rated and shall comply with Product Standard PS 2.
- 5.1.1. Insulating Sheathing Systems shall not be substituted for wood shearwalls.
- 5.2. Solid 2x blocking shall be provided at unsupported, horizontal panel edges. 5.3. Nail panels with 8d nails spaced at 6 inches at the perimeter of the panels and at 12" at intermediate supports, UNO.
- 5.4. Double 2x framing studs shall be used at the ends of each shear wall, UNO. Connections for Structural Timber: Galvanized strong-tie connectors by the Simpson Company or

#### SHOP-FABRICATED WOOD TRUSSES

- 1. Design of wood trusses and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the Project state.
- 2. Wood trusses shall be designed for the superimposed loads given in the Structural Drawings plus any additional superimposed dead loads due to overbuilt wood framing constructed above trusses.

# ANCHORAGE AND BRACING OF NON-STRUCTURAL COMPONENTS

- 1. Architectural, mechanical, and electrical components shall be properly anchored and braced to resist the seismic forces specified in the referenced Building Code. Refer to the architectural and MPE documents for specific details and additional information.
- 2. Suspended ducts, pipes, and conduits shall be braced in accordance with the ANSI/SMACNA 001-2008 Seismic Restraint Manual, 3rd Edition. Refer to the MPE documents for specific details and requirements.

	DRAWING INDEX
Sheet Number	Sheet
S-001	Structural Notes & Drav
S-002	Structural Quality Assur
S-101	<b>Overall Foundation Plar</b>
S-102	Foundation Plan - Base
S-120	Foundation Plan - Alt 00
S-201	Roof Framing Plan
S-202	Roof Framing Plan - Ba
S-220	Roof Framing Plan - Alt
S-301	Foundation Sections &
S-302	Foundation Sections &
S-303	Foundation Sections &
S-304	Foundation Sections &
S-305	Foundation Sections &
S-401	Roof Framing Sections
S-402	Roof Framing Sections
S-501	Brace Frame Elevations



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Structural Notes &

Drawing Index

#### GENERAL

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.

approval of the EOF

2. The responsibilities of the Contractor.

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

#### Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

#### STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included

- within this Statement of Special Inspections. 1. The following elements are part of the Seismic-Force-Resisting (SFR) System. and require additional Special Inspections or Testing for Seismic Resistance:
- a. Moment Frames and their Foundations
- b. Braced Frames and their Foundations
- c. Special Moment Frames and their Foundations d. Special Structural Walls, their Foundations, and associated Coupling Beams
- e. Shearwalls and their Foundations
- f. Floor and Roof Diaphragms
- 2. The following tables contain material, components and work that require special inspection or testing: a. Inspection Frequency, C – Continuous special inspection. Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
- b. Inspection Frequency, P Periodic special inspection. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel, observe the items on a random basis.
- c. See Steel section for additional information for inspection tasks.

Γ	SOILS		REFERENCED STANDARD
1.	Verify materials below shallow foundations are adequate	P	
2.	Verify excavations are extended to proper depth and	Р	Inspection is required after excavation is complete
3.	have reached proper material. Perform classification and testing of compacted fill	Р	and prior to placement of structural fills. Perform laboratory tests of field samples provided by
4.	materials. Verify use of proper materials, densities, and lift thickness during placement and compaction of compacted fill.	С	contractor for verification of in place densities. Refer to specification for lift thicknesses and compaction.
5.	<ul> <li>a. As a minimum, perform one test per lift for every 2500 square feet of fill placed.</li> <li>Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly (e.g.</li> </ul>	Р	
6.	proofrolling, etc.). Determine quantities of material removed and quantities	Р	
7.	of material placed where Unit Prices are involved. Densification of subgrade after vibratory compaction. As a minimum, perform continuously sampled Standard	Р	
	representative locations in the building area after vibratory densification has been completed.		
	installation. Grade, size, quantity, quality, location, spacing, clearances.	۲	ACI 318 CR. 20, 25.2, 25.3, 20.0. 1-20.0.37 IBC 1900.4
2.	Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment depth.	С	ACI 318 17.8.2 / AISC 360 N5.7
3.	Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	С	ACI 318 17.8.2 Use of post installed anchors must be approved by Structural Engineer
4.	Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque.	C	ACI 318 17.8.2.4 Use of post installed anchors must be approved by Structural Engineer
5.	Verify use of required design mix.	Р	ACI 318 Ch. 19, 26.4.3 26.4.4 / IBC 1904.1, 1904.2,
6.	<ul> <li>Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project.</li> <li>a. Mold (5) 4x8-inch compressive strength cvlinders. break and report (1) at 7-days, (3) at</li> </ul>		ACI 318 26.5, 26.12 / IBC 1908.10 ASTM C172, ASTM C31
	28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days.	C	
	<ul> <li>directed by the Structural Engineer if compressive strengths do not appear adequate.</li> <li>c. For each set molded, record: <ol> <li>Slump</li> <li>Air Content</li> <li>Unit Weight</li> <li>Temperature, ambient and concrete</li> <li>Batch and discharge times</li> <li>Location and placement</li> <li>Location and placement</li> <li>Any pertinent information, such as addition of water, addition of admixtures, etc.</li> </ol> </li> <li>d. Report in writing on the same day as tests are performed. Reports of compressive strength tests</li> </ul>	-	
	<ul> <li>shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.</li> <li>e. Verify compliance with construction documents.</li> </ul>		
7.	Inspection for maintenance of specified curing temperature and techniques.	Р	ACI 318 26.5.3-26.5.5 / IBC 1908.9
8.	Inspection of formwork for shape, location, and	Р	ACI 318 26.11.1.2(b)
9.	Perform testing of Floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specifications.	Р	ACI 117-10
_			
1.	<ul> <li>NON-SHRINK GROUTING</li> <li>Compressive strength tests per ASTM C109.</li> <li>a. Number of Tests; One test for each ten bags of grout used or minimum of one test of each day of grouting.</li> <li>b. Cube Size: 2-inch x 2-inch</li> <li>c. Test Schedule: (1) cube at 30days, (2) cubes at</li> </ul>	INSPECTION FREQUENCY C	REFERENCED STANDARD

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# STRUCTURAL QUALITY ASSURANCE PLAN

CONCRETE MASONRY	INSPECTION	REFERENCED STANDARD
Level 2-(Risk Cat. I, II or III Structures	FREQUENCY	
using Engineered methods, Non-		
1. Prior to constructi 5,779 in Gad) of compliance of	Required	TMS 602 - Art. 1.4 B
submittals.	Poquirod	
2. Phot to construction, verification of Slump flow and	Required	TMS 602 - Art. 1.4 B
Visual Stability Index (VSI) when self-consolidating grout	Required	1000 002 - Alt. 1.3 & 1.0.3
is delivered to the project site.		
4. As masonry construction begins, verify that the following are in compliance:		
a. Proportions of site-prepared mortar	Р	TMS 602 - Art. 2.1, 2.6 A, & 2.6 C
b. Grade, type and size of reinforcement, connectors,	Р	TMS 602 - Art. 3.4
and anchor bolts		
c. Sample panel construction	Р	IMS 602 - Art. 1.6 D
5. Prior to grouting, verify that the following are in compliance:		
a. Grout space	Р	TMS 602 - Art. 3.2 D & 3.2 F
b. Placement of reinforcement, connectors, and anchor	Р	TMS 602 - Art. 3.2 E & 3.4 TMS 402 Sec. 6.1, 6.3.1,
bolts	P	6.3.6, & 6.3.7 TMS 602 - Art - 2.6 B
6. Verify compliance of the following during construction:	!	TWO 002 - Alt. 2.0 D
a. Materials and procedures with the approved	Р	TMS 602 - Art. 1.5
submittals		
<ul> <li>Placement of masonry units and mortar joint construction</li> </ul>	Р	TMS 602 - Art. 3.3 B
c. Size and location of structural members	Р	TMS 602 - Art. 3.3 F
d. Type, size, and location of anchors, including	Р	TMS 402 - Sec. 1.2.1(e), 6.2.1, & 6.3.1
other details of anchorage of masonry to structural members, frames, or other construction		
e. Preparation, construction, and protection of	Р	TMS 602 - Art. 1.8 C & 1.8 D
masonry during cold weather (temperature below 40		
f Placement of grout is in compliance	C	TMS 602 Art 3.5
7 Observe preparation of grout specimens, mortar	P	TMS $602 - Art = 14B2a3 + 14B2b3 + 14B2c3$
specimens, and/or prisms	I.	1.4 B.3, & 1.4 B.4
STRUCTURAL STEEL	INSPECTION	REFERENCED STANDARD
Where the following tasks have been be performed by the	Obs Observe these	e items on a random basis. Operations
appricator's or erector's quality control program in accordance to Chapter N of AISC 360-16, it is permitted	need not be delayed	pending these inspections.
that these tasks be coordinated with the Special Inspector		
so that the inspection functions are performed by only one	Perf Perform these	tasks for each welded joint, bolted
performed by the erector's and fabricator's quality control	joint, or member.	
program to verify completeness.		
1. Inspection of steel framing to verify compliance with	Obs.	AISC 360-16 N5.8
details shown on the approved construction documents		
application of joint details at each connection proper		
fasteners, etc.		
2. Review the material test reports and certifications	Perf.	AISC 360-16 N5.2 & N3.2
as listed below for compliance with the construction		
a Main structural steel material test reports		
b Anchor rods and threaded rods test reports		
c. Headed stud anchors - manufacturer's certifications		
3. Visual Inspection Tasks Prior to Welding		AISC 360-16 Table N5.4-1
a. Welder qualification records and continuity records	Obs.	
b. Welding procedure specifications (WPSs) available	Perf.	AWS D1.1/D1.1M 6.3
c. Manufacturer certifications for welding consumables	Perf.	AWS D1.1/D1.1M 6.2
available.		
d. Material identification (type/grade)	Obs.	AWS D1.1/D1.1M 6.2
e. Welder identification system. The fabricator or erector as applicable shall maintain a system by	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification)
which a welder who has welded a joint or member		(identification system not required by
can be identified. Stamps, if used, shall be the		AWS D1.1/D1.1M)
f Fit-up of groove welds (including joint geometry)	Obs	AWS D1 1/D1 1M 6 5 2 5 16
iloint preparation	003.	AWG D1.1/D1.1W 0.5.2, 5.10
ii Dimensions (alignment root opening root face		AWS D1 1/D1 1M 6.5.2
bevel)		///// D1.1/D1.1// 0.0.2
iii. Cleanliness (condition of steel surfaces)		AWS D1.1/D1.1M 5.22
iv. Tacking (tack weld quality and location)		AWS D1.1/D1.1M 5.14
v. Backing type and fit (if applicable)		AWS D1.1/D1.1M 5.17
g. Configuration and finish of access holes	Obs.	AWS D1.1/D1.1M 5.9.5, 5.21.1.1
h. Fit-up of CJP groove welds of HSS T-, Y-, and K-ioints without backing	Obs.	
i. Joint preparation		AWS D1.1/D1.1M 6.5.2
ii. Dimensions (alignment, root opening, root face,		AWS D1.1/D1.1M 5.22
bevel)		
III. Cleanliness (condition of steel surfaces)		AWS D1.1/D1.1M 5.15
iv. racking (lack weld quality and location)	Oba	AVVƏ UT. TUT. TM 5.T8
i. Dimensions (alignment gaps at root)	UD8.	AWS D1.1/D1 1M 5 21 1
ii. Cleanliness (condition of steel surfaces)		AWS D1.1/D1.1M 5.14
iii. Tacking (tack weld quality and location)		AWS D1.1/D1.1M 5.17
j. Check welding equipment	Obs.	Only required for shop Fabrication.
4. Visual Inspection Tasks During Welding		AISC 360-16 Table N5.4-2
a. Control and handling of welding consumables	Obs.	Π 7
i. Packaging		AWS D1.1/D1.1M 5.3.1
II. Exposure control		AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D 1/D1 1M 5.3.3 (for SAW)
b. No welding over cracked tack welds	Obs.	D1.1/D1.1M 5.17 (for SAW)
c. Environmental conditions	Obs.	
i. Wind speed within limits		AWS D1.1/D1.1M 5.11.1
ii. Precipitation and temperature		AWS D1.1/D1.1M 5.11.2
d. WPS followed	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.20
i. Setting on welding equipment		
ii. Havel speeu jii. Selected welding materials		
iv. Shielding das type/flow rate		
v. Preheat applied		
vi. Interpass temperature maintained (min./max.)		
vii. Proper position (F, V, H, OH)		AWS D1.1/D1.1M 5.6, 5.7
viii. Intermix of filler metals avoided unless approved		
e. Welding techniques	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.23
i. Interpass and final cleaning		
ii. Each pass within profile limitations		AWS D1.1/D1.1M 5.29.1
III. Each pass meets quality requirements		
visual inspection Lasks After Welding	<u> </u>	AISU 360-16 Table N5.4-3
a. weius oleaneu b. Size length and location of welds	ODS. Porf	ΔWS D1 1/D1 1M 6.5.1
c. Welds meet visual acceptance criteria	ren. Perf	AWS D1.1/D1.1W 6.5.3
i. Crack prohibition	r on.	AWS D1.1/D1.1M Table 6 1(1)
ii. Weld/base-metal fusion		AWS D1.1/D1.1M Table 6.1(2)
iii. Crater cross section		AWS D1.1/D1.1M Table 6.1(3)
iv. Weld profiles		AWS D1.1/D1.1M Table 6.1(4). 5.24
v. Weld size		AWS D1.1/D1.1M Table 6.1(6)
vi. Undercut		AWS D1.1/D1.1M Table 6.1(7)
vii. Porosity		AWS D1.1/D1.1M Table 6.1(8)
d. Arc strikes	Perf.	AWS D1.1/D1.1M 5.28
e. k-area: When welding doubler plates, continuity	Perf.	AISC 360-16 Table N5.4-3
visually inspect the web k-area for cracks within 3		
in. (75mm) of the weld.		
f. Backing removed and weld tabs removed and	Perf.	AWS D1.1/D1.1M 5.9, 5.30
g. Repair activities	Perf	AWS D1.1/D1 1M 6 5 3 5 25
h. Document acceptance or rejection of welded joint	Perf.	AWS D1.1/D1.1M 6.5.4. 6.5.5
or member		
i No prohibited welds have been added without the	Obs.	

STRUCTURAL STEEL Cont.	INSPECTION FREQUENCY	REFERENCED STANDARD	SHOP-FABRICATED WOOD TRUSSES	INSPECTION FREQUENCY	REFERENCED STA
6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), ma radiographic testing (RT), v	ignetic particle testing (MT), penetrant testing (PT) and where required, shall be performed by Special Inspector	<ol> <li>Verify wood products by official grade mark. If specified, verify fire-retardant-treated wood is labeled.</li> </ol>	P	
	in accordance with AWS D may be performed by that f the Building Official where	1.1/D1.1M. NDT of welds completed in a fabricator's shop fabricator when fabricator is AISC Certified or approved by applicable. When the fabricator performs the NDT, the	<ol> <li>Verify that general arrangement and installation of wood trusses is in accordance with the approved wood truss shop drawings and the Construction Documents.</li> </ol>	Р	
	Special inspection agency welds completed in the field Acceptance criteria shall be structures, unless otherwis	shall review the fabricator's NDT reports. All NDT of d shall be performed by the Special Inspector. e in accordance with AWS D1.1/D1.1M for statically loaded e designated in the design drawings or project	<ol> <li>Verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved shop drawings.</li> </ol>	Р	
a. UT all complete penetration grove welds subject	Perf.	AISC 360-16 N5.5b & AISC 341-10 J6.2a	4. Verify that trusses and truss connections are not damaged or have not been field modified.	Р	
to transversely applied tension loading in a butt,			5. Verify wood truss bearing lengths at all support points.	С	
T- and corner joints in material 5/16" thick or greater. MT shall be performed on 25% of all			6. Verify wood truss anchorage details at all support points.	С	
beam-to-column CJP groove welds.			7. For trusses with clear spans of 60-feet or more, verify	Р	IBC 1705.5.2
<ul> <li>b. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Consurrent to submitting NDT reports to</li> </ul>	Perf.	AISC 360-16 N5.5g	<ul> <li>the temporary and permanent restraint/ bracing are installed in accordance with the approved truss submittal package.</li> </ul>		
EOR or owner submit to contractor.			<ol> <li>Quality control procedures shall as a minimum follow the requirements of ANSI/TPI 1.</li> </ol>		
c. Review NDT test reports performed by fabricator	Perf.	AISC 360-16 N6			
7. Inspection Tasks Prior to Bolting	Perform for 10% of all Snue pretension and slip critical	g tight joints if task is applicable and all joints. AISC 360-16 Table N5.6-1			
<ul> <li>Manufacturer's certifications available for fastener materials</li> </ul>	Perf.	RCSC 2.1 & 9.1	CONTRACTOR RESPONSIBILITIES     1. Contractor shall submit to the Building Official, Owner, and	d the Architect a written statem	ent of responsibility that
<ul> <li>Fasteners marked in accordance with ASTM requirements</li> </ul>	Perf.	RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards)	contains the following: a. Acknowledgment of awareness of the special requirer	ments contained in the Statem	ent of Special Inspections for the mair
c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Obs.	RCSC 2.3.2, 2.7.2 & 9.1	wind force-resisting system component listed in the St 2. Contractor shall pay for any additional structural testing/ins the Construction Documents due to negligence or noncon	atement of Special Inspections spection required for work or m formance and shall pay for any	3. iaterials not complying with / additional structural
d. Correct bolting procedure selected for joint detail	Obs.	RCSC 4, & 8	testing/inspection required for his convenience. 3 Contractor is responsible to ensure that the Special Inspec	ctor is on site as required to pe	rform all tasks required by
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	Obs.	RCSC 3, 9.4 & 9.3	Statement of Special Inspection. Any work that requires sp being present is subject to being demolished and reconstru-	pecial inspection and is perform ucted.	red without the Special Inspector
f Pre-installation verification testing by	Ohs	RCSC 7 & 9 2	4. Contractor has the following responsibilities to the Special	inspector.	actude change orders and field orders
installation personnel observed and documented for fastener assemblies and methods used, not required	003.	1000 / 00.2	<ul> <li>Provide copy of construction bocuments to special in prior to inspection of work contained therein).</li> <li>Notify Special Inspector sufficiently in advance of oper</li> </ul>	rations to allow assignment of	nersonnel and scheduling of tests
for Snug tight bolts			c. Cooperate with Special Inspector and provide access	to work	personnel and scheddling of tests.
<ul> <li>Proper storage provided for bolts, nuts, washers and other fastener components</li> </ul>	Obs.	RCSC 2.2,8 & 9.1	<ul> <li>d. Provide samples of materials to be tested in required</li> </ul>	quantities.	
8. Inspection Tasks During Bolting	Perform for 10% of all Snu	g tight joints if task is applicable and all	e. Provide storage space for Special Inspector's exclusiv	/e use, such as for storing and	curing concrete testing samples.
	pretension and slip critical	joints. Special Inspector need not be	f. Provide labor to assist Special Inspector in performing	j tests/inspections.	
	present during bolt pretens	Ioning procedures. AISC 360-16 Table N5.6-2	5. Contractor shall perform the following:		
<ul> <li>Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required</li> </ul>	Obs.	RCSC 7.1(1), 8.1, 9.1	a. SOILS i Identify soils to be used as structural fill		
b. Joint brought to the snug-tight condition prior to	Obs.	RCSC 8.1 & 9.1	b. CAST-IN-PLACE CONCRETE		
c. Fastener component not turned by the wrench	Obs.	RCSC 8.2 & 9.2	<ol> <li>Submit manufacturer's certification that reinforcing</li> <li>Establish concrete mix design proportions in according</li> </ol>	j materials comply with Constr ordance with the specifications	and ACI 318, Chapter 26.
prevented from rotating	Oha		iii. Submit manufacturer's certification that concrete	materials meet the requiremen	ts of the Construction Documents.
a. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Obs.	RUSU 6.2 & 9.2	iv. Submit manufacturer's data for tension and comp c. NON-SHRINK GROUTING	ression splicers.	
9. Inspection Tasks After Bolting		AISC 360-16 Table N5.6-3	i. Submit product data sheets for non-shrink grout th	hat shows compliance with the	Construction Documents and with AS
a. Document acceptance or rejection of bolted	Perf.		for fluid or flowable grouts, prior to placement of g	irout.	
10. Inspection of Galvanized Structural Steel Main Members		AISC 360-16 N5.7	i. Submit a certification from each manufacturer or s	supplier stating that the followir	ng materials comply with the
a. Exposed cut surfaces of galvanized structural	Perf.		1. Concrete masonry units.		
steel main members and exposed corners of			2. Mortar materials: Portland cement. hvdrated	lime, and aggregates.	
rectangular HSS shall be visually inspected for cracks subsequent to galvanizing			3. Grout materials: Portland cement and aggreg	jates.	
b. Cracks shall be repaired or the member shall be	Perf.		4. Joint reinforcement steel.		

Γ	STEEL DECK	INSPECTION FREQUENCY	REFERENCED STANDARD
		Obs Observe these need not be delayed	e items on an random basis. Operations pending these inspections.
		Perf Perform these	tasks for each item or element.
1.	Material verification of steel deck and deck accessories	Perf.	
	<ul> <li>Identification markings to conform to ASTM standards specified in the approved construction documents</li> </ul>		SDI QA/QC Table 1.1A
	<ul> <li>Verify profile, material properties, and base metal thickness</li> </ul>		SDI QA/QC Table 1.1A
	c. Manufacturer's certified test reports		SDI QA/QC Table 1.2B
	d. Document acceptance or rejection of deck and		SDI QA/QC Table 1.1B
2.	Verify general alignment and deck lap	Perf.	SDI QA/QC Table 1.2A
	a. Document acceptance or rejection of installation		SDI QA/QC Table 1.2C
	of deck and deck accessories		
3.	Visual Inspection Tasks Prior to Welding	Obs.	
	a. Welding procedure specifications (WPSs)		SDI QA/QC Table 1.3A
	b Manufacturer certifications for welding		SDLOA/OC Table 1.3B
	consumables available.		
	c. Material identification (type/grade)		SDI QA/QC Table 1.3C
	d. Check welding equipment		SDI QA/QC Table 1.3D
4.	Visual Inspection Tasks During Welding	Obs.	
	a. Use of qualified welders		SDI QA/QC Table 1.4A
	b. Control and handling of welding consumables		SDI QA/QC Table 1.4B
	c. Environmental conditions		SDI QA/QC Table 1.4C
	i. Wind speed within limits		
	ii. Precipitation and temperature		
	d. WPS followed		SDI QA/QC Table 1.4D
5.	Visual Inspection Tasks After Welding	Perf.	
	a. Size and location of welds, including support,		SDI QA/QC Table 1.5A
	sidelap, and perimeter welds		
	b. Welds meet visual acceptance criteria		SDI QA/QC Table 1.5B
	c. Repair activities		SDI QA/QC Table 1.5C
	d. Document acceptance or rejection of welds		SDI QA/QC Table 1.5D
6.	Inspection Tasks Prior to Mechanical Fastening	Obs.	
	a. Manufacturer installation instructions available		SDI QA/QC Table 1.6A
	b Proper tools available for fastener installation		SDI OA/OC Table 1.6B
	c. Proper storage provided for mechanical fasteners		SDI QA/QC Table 1.6D
7	Inspection Tasks During Mechanical Fastening	Obs	
1.	a Easteners are positioned as required	0.03.	
	a. Tasteners are installed in accordance with		
	manufacturer's instructions		SDI QAVQC Table 1.7D
8.	Inspection Tasks After Mechanical Fastening	Perf.	
	a. Spacing, type, and installation of support		SDI QA/QC Table 1.8A
	fasteners		
	b. Spacing, type, and installation of sidelap		SDI QA/QC Table 1.8B
	c. Spacing, type, and installation of perimeter		SDI QA/QC Table 1.8C
	d. Repair activities		SDI QA/QC Table 1 8D
	e. Document acceptance or rejection of mechanical		SDI QA/QC Table 1.8F
	fasteners		
9.	Verify installation of deck closures.	Perf.	
10.	Inspect welding operations, screw attachment, bolting,	Perf.	
	anchoring, and other fastening of components within the lateral force resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.		
	WOOD	INSPECTION	REFERENCED STANDARD
		FREQUENCY	
1.	Verify wood products by official grade mark. If specified, verify fire-retardant-treated and preservative-treated wood is labeled	Р	
2	Verify that general arrangement and installation of	D	
۷.	wood members is in accordance with the approved truss shop drawings and the Construction Documents.	Г Г	
3.	For horizontal and vertical wood diaphragms, verify	Р	
	the grade and thickness of the structural panel		
	sneathing. Additionally, verify the nominal size of the framing members at adjoining papel edges, the pail		
	or staple diameter and length, the number of fastener		
	lines and the spacing between fasteners in each line		
L	and at edge margins.		
4.	For SFR and MWFR Systems, perform the following:		
	a. Inspect during field gluing operations.	С	
	b. Verify nailing, bolting, anchoring, and other	Р	
	fastening of components, including wood shearwalls, wood diaphragms, drag struts, braces, shear panels,		

and hold-downs.

- 5. Reinforcing steel. e. STRUCTURAL STEEL
- i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain quality control procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-16 and the construction documents. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the
- fabricator and Erector. 1. Make available the documents listed in AISC 360-16 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted.
- ii. If fabricator and erector are certified by the American Institute of Steel Construction (AISC) Quality Certification Program for Structural Steel Buildings submit certification. 1. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the fabricator are in accordance with the construction documents.
- 2. At completion of erection, the approved erector shall submit a certificate of compliance to the Building Official stating that the materials supplied and work performed by the erector are in accordance with the construction documents. iii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT
- performed in shop. Reports shall identify the tested weld by piece mark and location in the piece. POST-INSTALLED ANCHORS i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that
- training has taken place. g. STEEL DECK
- i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents. h. WOOD
- i. Submit certification that the manufacturer of structural glued laminated timbers is certified and licensed by AITC. i. SHOP-FABRICATED WOOD TRUSSES
- i. Submit certification that truss fabricator is certified by the TPI Quality Assurance Program (QAP). ii. Submit fabricator's certificate of compliance that the manufactured trusses conform to the requirements of the Construction Documents.



Consulting Structural Engineers 220 Great Circle Road, Suite 106 Nashville, Tennessee 37228 p. 615.255.5537 www.sdg-structure.com SDG Project No. 2022-291.00



main

ith ASTM C1107



#### Architects

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161 Lameuse St. Suite 201 Biloxi, MS 39530 p 228.374.1409

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Structural Design Group

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LOAD-BEARING					
WALL SCHEDULE					
	WALL MARK				
LEVEL	A	В			
1st FLOOR	1-2x6	1-2x6			
2nd FLOOR	-	1-2x6			
TOP PLATE	2-2x6	2-2x6			
SILL PLATE	1-2x6	1-2x6			
NOTE: ALL STUDS OR STUD					

SHEAR WA	LL SCHEDUL	E
SHEAR WALL MARK	SW1	SW2
SHEATHING AND EDGE NAIL SIZE AND SPACING	<sup>19</sup> / <sub>32</sub> w/8d@6"	<sup>19</sup> / <sub>32</sub> w/10d@6"
INTERIOR NAIL SIZE AND SPACING	8d NAILS @12"	10d NAILS @12"
NUMBER OF BOUNDRY STUDS	(2)-2x6	(2)-2x6
SIMPSON HOLD DOWN DEVICE	HDU2-SDS2.5	HDU2-SDS2.5
16d NAIL SILL PLATE SPACING	2@16"	2@16"
SILL PLATE ANCHOR SPACING	<sup>1</sup> / <sub>2</sub> " BOLT @32"	<sup>1</sup> / <sub>2</sub> " BOLT @32"
ATS FOUNDATION ANCHOR	PAB5 w/8" EMB.	PAB5 w/8" EMB.
DOWELS AT ANCHOR	-	-







1 Foundation Plan - Alt 001 SCALE: 1/8" = 1'-0"



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C n



1 Foundation Plan - Batting Cage SCALE: 1/8" = 1'-0"



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Roof Framing Plan -Batting Cage









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Roof Framing Plan - Alt

001

	StetsonM.rvt
	Central
	R22
	Athletics
	High
	Meridian
	2022-291
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SEE 6/S-501





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3/2 C:/



Install 1" Vertical Embed into concrete



- Install 1" Vertical @ 36" CC Embed into concrete MIN of 6"

See structural for

- 3" Round 9 GA Glavanized @ 6' CC Horizontally

(not painted) [1/2" Gap between boards] [as gaurdrail]

Treated 2x6 @ 6" CC



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Biloxi, MS 39530

p 228.374.1409 dalebaileyplans.com

03/06/23/

JACKSON,

aseball/Softball

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High

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Construction

Documents

#

A-101

Composite Floor Plans -Base Bid

Project No

Date

Drawn

Checked

Revision

22034-03

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Date

March 6, 2023

39305

MS

Meridian,

St,

32nd

2320

201 Park Court Suite B Ridgeland, MS 39157 p 601.790.9432

161 Lameuse St. Suite 201







# General Detail Notes

1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces 2. Roof insulation to have an R-value of 38 of continuous insulation.



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Baseball/Softball 39305 MS Meridian, School St, 32nd High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Date Author Drawn PPu Checked Revision Date # A-501

Details





# General Detail Notes

insulation.

1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces. 2. Roof insulation to have an R-value of 38 of continuous



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a aseball/Softb 39305 MS  $\square$ Meridian, 0 Scho St, nd 32 High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Date CSt Drawn PPu Checked Revision Date # A-531

**Roof Details** 





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# **General Detail Notes**

- 1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
- 2. Roof insulation to have an R-value of 38 of continuous insulation.



#### Architects

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a Baseball/Softb 39305 MS eridian, 0 Scho Me St, nd 32 High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Date Author Drawn Checker Checked Revision Date # A-532 Roof Details

			Finish S	Schedu	е	
	Doom Nomo		Finisł	nes		Commente
Number	Room Name	Floor	Base	Wall	Ceiling	Comments
101	Labby	00	DD	DT4		Malausina ang liad ta kattang Olaf wall
101		SC	RB			Melamine applied to bottom 8' of wall.
101a	Mech/Elec	SC	RB	PI4	EXP	Melamine applied to bottom 8 of Wall.
102	Corridor	SC	RB	P12	PLW	Melamine applied to bottom 8' of wall.
103		SC	RB	P13	PLW	Melamine applied to bottom 8' of wall.
103a	Tlt	EPX	EPX	PT11	PLW	Melamine to ceiling.
104	Office	SC	RB	PT3	PLW	Melamine applied to bottom 8' of wall.
104a	Tlt	EPX	EPX	PT11	PLW	Melamine to ceiling.
105	Office	SC	RB	PT3	PLW	Melamine applied to bottom 8' of wall.
105a	Tlt	EPX	EPX	PT11	PLW	Melamine to ceiling.
106	Stor.	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
107	Stor	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
108	Stor	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
109	Train	SC	RB	PT5	PLW	Melamine applied to bottom 8' of wall.
110	Laundry	SC	RB	PT4	PLW	Melamine applied to bottom 8' of wall.
111	Wms Tns	SC/CFT1	SC/CTB1	CWT/PT9	PLW	CWT in showers to ceiling, Melamine to ceiling elsewhere in restroom.
111a	Tlt	EPX	EPX	PT11	PLW	Melamine to ceiling.
112	Mns Tns	SC/CFT2	SC/CTB2	CWT/PT1 0	PLW	CWT in showers to ceiling, Melamine to ceiling elsewhere in restroom.
112a	Tlt	EPX	EPX	PT11	PLW	Melamine to ceiling.
113	Baseball	SC	RB	PT6	PLW	Melamine applied to bottom 8' of wall.
113a	Mns	EPX/CFT2	EPX/CTB2	CWT/PT1	PLW	CWT in showers to ceiling, Melamine to ceiling elsewhere in restroom.
114	Softball	SC	BB	PT7	PLW	Melamine applied to bottom 8' of wall.
114a	Wmns	EPX/CFT1	EPX/CTB1	CWT/PT9	PLW	CWT in showers to ceiling, Melamine to
	 			DTO		ceiling eisewhere in restroom.
1158		SC	RB		PLW	Melamine applied to bottom 8' of wall.
1150		SC	RB		PLW	Melamine applied to bottom 8' of wall.
201	Concessions	SC	RB			Melamine applied to bottom 8' of wall.
2018	Stors	SC	RB		EXP	Melamine applied to bottom 8' of wall.
202		SC	KB		PLW	Intelamine applied to bottom 8' of wall.
203	Wmns Public Toilets	EPX	EPX		PLW	Melamine to ceiling.
204	Mns Public Toilets	EPX	EPX	PI10		Melamine to ceiling.
301	Storage	SC	KB	Ρ[4	EXP	Melamine applied to bottom 8' of wall.
302	Storage	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
303	Storage	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
304	Press	CPT	RB	PT8	PLW	Melamine applied to bottom 8' of wall.
305	Press	CPT	RB	PT8	PLW	Melamine applied to bottom 8' of wall.
306	Press	CPT	RB	PT8	PLW	Melamine applied to bottom 8' of wall.
307	Press	CPT	RB	PT8	PLW	Melamine applied to bottom 8' of wall.
401	Dug Out	SC	-	-	EXP	Melamine applied to bottom 8' of wall.
401a	Storage	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
401b	Equipment	SC	-	-	EXP	Melamine applied to bottom 8' of wall.
402	Dugout	SC	-	-	EXP	Melamine applied to bottom 8' of wall.
402a	Storage	SC	RB	PT4	EXP	Melamine applied to bottom 8' of wall.
402b	Equipment	SC	-	-	EXP	Melamine applied to bottom 8' of wall.

General Note: All walls w/ paint are to be painted to ceiling.

							Doc	or Sch	eaule							
	zx		Door		ZX		[		Ι	Fran	ne			Fire		
		Size			Size			Detail		Rating	Sian	No				
Mark	Dr W	PR	Tot W	Ht	Matl	EI	Glz	Matl	EI	Glz	Head	Jam b	Sill	(Min)	0	
000	3' - 0"	-	3' - 0"	7' - 0"	HM	D5	-	-	F1	-	H4	J4	-	-	-	Do
001	3' - 0"	-	3' - 0"	7' - 0"	HM	D5	-	-	F1	-	H4	J4	-	-	-	Do
002	3' - 0"	-	3' - 0"	7' - 0"	HM	D5	-	-	F1	-	H4	J4	-	-	-	Do
101a	3' - 0"	-	3' - 0"	7' - 0"	HM	D3	-	HM	F1	-	H2	JЗ	S2	-	-	
101b	3' - 0"	-	3' - 0"	7' - 0"	AL	D1	GL1	AL	-	GL2	HЗ	-	S3	-	-	
101c	3' - 0"	-	3' - 0"	7' - 0"	AL	D1	GL1	AL	-	GL2	H3	-	S3	-	-	
102a	3' - 0"	PR	6' - 0"	7' - 0"	HM	D2	GL1	HM	F1	-	H2	J2/J3	S2	-	-	
102b	3' - 0"	PR	6' - 0"	7' - 0"	HM	D2	GL1	HM	F1	-	H2	J2/J3	S2	-	-	
103	3' - 0"	-	3' - 0"	7' - 0"	WD	D4	GL1	НМ	F2	-	H1	J1	S1	-	5	
103a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	2	
104	3' - 0"	-	3' - 0"	7' - 0"	WD	D4	GL1	НМ	F2	-	H1	J1	S1	-	5	
104a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	2	
105	3' - 0"	-	3' - 0"	7' - 0"	WD	D4	GL1	НМ	F2	-	H1	J1	S1	-	5	
105a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	2	
106	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	HM	F2	-	H1	J1	S1	-	1	
107	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	1	
108	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	1	
109	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	5	
111	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	6	
111a	3' - 0"	_	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	4	
112	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	6	
112a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	3	
113	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	6	
113a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	3	
114	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	6	
114a	3' - 0"	-	3' - 0"	7' - 0"	WD	D3	-	НМ	F2	-	H1	J1	S1	-	4	
115a	3' - 0"	_	3' - 0"	7' - 0"	AL	D1	GL1	AL	-	GL1	НЗ	-	_	-	_	Int
115b	3' - 0"	_	3' - 0"	7' - 0"	AL	D1	GL1	AL	-	GL1	НЗ	-	_	-	-	Int
201	3' - 0"	-	3' - 0"	7' - 0"	HM	D3	-	НМ	F1	-	H2	J2/J3	S2	-	-	
201a	3' - 0"	_	3' - 0"	7' - 0"	WD	D3	_	НМ	F2	_	H1	, J1	S1	_	1	
202	3' - 0"	_	3' - 0"	7' - 0"	HM	D3	_	HM	F1	_	H2	J2/J3	S2	_	_	
203	3' - 0"	_	3' - 0"	7' - 0"	HM	D3	_	HM	F1	_	H2	J2/J3	S2	_	_	
204	3' - 0"	_	3' - 0"	7' - 0"	HM	D3	_	HM	 F1	_	H2	J2/J3	S2	_	_	
301	3' - 0"	_	3' - 0"	7' - 0"	HM	D3	-	НМ	 F1	_	H2	J3	S2		_	
302	3' - 0"	_	3' - 0"	7' - 0"	HM	D3	_	НМ	 F1	_	H2	.13	S2	_	_	
303	3' - 0"	PR	<u> </u>	7' - 0"	HM	D3	_	НМ	F1	_	H2	.13	S2			
304	3' - 0"	_	3' - 0"	7' - 0"	нм	D0	GI 1	нм	F1	_	H2	.13	S2		_	
305	<u>3'</u> - ∩"	_	<u>3' - 0"</u>	7' - 0"				нм	F2	_	H1	.11				Pr
306	3' - 0"	_	<u>3' - 0"</u>	7' - 0"				нм	F2	_	H1	.11			_	Dr/
3070	3 - 0 2' 0"	-	3 - 0 3' 0"	7 - 0						-			- 00	-	-	1-16
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4018	3 - U"		0 - 0			D3	-			-		JZ/JJ	32	-	-	
402a	3' - 0"	rк	0° - 0"	/ <sup>^</sup> - U <sup></sup>		D3	-				<b>Π</b> 2	JZ/J3	52	-	-	

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Documents

Project No	2	22034-03
Date	March	n 6, 2023
Drawn		CSt
Checked		PPu
Revision	#	Date











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STC	Comments
	Melamine applied to bottom 8' of wall. Color to be chosen by Architect.
	Melamine applied to bottom 8' of wall. Color to be chosen by Architect.

# General Room Sign Notes

- 1. See floor plan for bronze building plaque mounting
- location 2. See Door Schedule for Sign Locations and Quanitity

# General Partition Notes

- 1. Walls that do not have a wall tag indicated on the floor
- plans, are wall type A1 UNO 2. Refer to symbols legend and floor plan for additional fire
- rated indications 3. Where walls are noted to extend to B.O. deck, the wall materials (gyp, stud, &/or CMU) are to extend to not greater than 1" from the B.O. structural deck. Where walls have gyp. board, the gyp. is to be cut parallel to the structural deck form, not less than 3/4". Remaining voids shall be filled with compressible sound attenuation &
- backer rod & sealant at non-rated assemblies & sealed smoke-tight with backer rod & fire-stopping sealant at fire or smoke-rated assemblies. 4. Control joints and expansion joints in fire or smoke-rated
- partitions shall be constructed to maintain the fire rating of the partition using continuous firestopping material within the joint. Control joints and expansion joints in unrated partitions shall be constructed to resist sound transmission using fire-resistant sound attenuation blanket material within the joint
- 5. At un-rated partitions, the partition construction shall be identical to the construction of the fire-rated partition, except that acoustical sealant shall be used in lieu of firestopping.
- 6. Partition type reference indicated on the floor plans do not included the applied finishes. Refer to room finish schedule, room finish notes, and interior details for applied finishes.
- 7. Where items are recessed in the walls of fire-rated partitions, provide additional gyp. wallboard, fireproofing, and/or firestopping around the recessed portion of the item in thickness and construction as required to maintain the fire rating of the partition.
- 8. At all locations where fire-rated partitions abut or attach to fireproofed structural members, the fire rating of both the structural members and the partition shall be maintained.
- 9. In addition to any other partition requirements, all joints in the gypsum wallboard surfaces shall be taped, floated, and painted, including fire-rated partitions, un-rated partitions, exposed surfaces, concealed surfaces, and surfaces above the ceiling.
- 10. All metal stud walls in toilets, laundry, kitchen, or other wet areas to receive moisture resistant gyp. board. Tile backer board to be used on all walls scheduled to receive tile finishes.
- 11. Contractor to seal all penetrations in non-rated walls with sound attenuation blankets and/or acoustic sealant to maintain that wall's STC rating



#### Architects

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# General Enlarged Plan Notes

1. All interior walls to be type "A1" UNO

- 2. All furniture shown in plan is NIC. 3. All door frames in masonry wall to be located 8" off perpendicular wall (typ.) unless indicated otherwise. All door frames in metal stud walls to be located 4" off perpendicular walls (typ.) unless indicated otherwise. Provide min. clear of 12" on push side of door and 18" on
- 4. Reference building elevations (A-200 Sheets) for exterior veneer expansion joint locations
- restroom doors to have a Coat Hook (CH) installed.
- 7. Exterior masonry walls will have 2" inches of continuous extruded polystyrene in the cavity between the CMU and
- shall diverge from grid as indicated on 5/484a.



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Baseball/Softball 39305 MS Meridia 0 Ö SC St, р 32 High 2320 Meridian Construction Documents 22034-03 Proiect No March 6, 2023 PPu RBI Checked Date Revision # A-101a

Field House Floor Plan





# General Enlarged Plan Notes

1. All interior walls to be type "A1" UNO

- 2. All furniture shown in plan is NIC. 3. All door frames in masonry wall to be located 8" off perpendicular wall (typ.) unless indicated otherwise. All door frames in metal stud walls to be located 4" off perpendicular walls (typ.) unless indicated otherwise. Provide min. clear of 12" on push side of door and 18" on pull side.
- 4. Reference building elevations (A-200 Sheets) for exterior veneer expansion joint locations
- 5. All backsides of bathroom partition doors and single unit restroom doors to have a Coat Hook (CH) installed.
- 6. All dimensions are to the face of masonry. 7. Exterior masonry walls will have 2" inches of continuous extruded polystyrene in the cavity between the CMU and brick veneer.
- 8. Concrete to be scored on 8' grid throughout. center grid on corridors and corridor intersections. Lobby scoring grid shall diverge from grid as indicated on 5/484a.



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Furr Down with Foldable P	Team	
2' x 2' ACT System 10' - 0" A.F.F. Offfice 105	2' x 2' ACT System         2' x 2' ACT System           10' - 0" A.F.F.         10' - 0" A.F.F.           Office         Office           104         103	
Tit 105a 2' x 2 ACT System 10' - 0" A.F.F.	Tit     Tit       104a     103a       2'x2 ACT System     2'x2' ACT System       10' 0" A.F.F.     10' - 0" A.F.F.	

# General RCP Notes

1. All exposed structural elements to be painted, unless noted otherwise 2. All joints and trim shall be sealed with mastic.

# Ceiling Legend

`	
	Moisture Resistant Acoustical Lay In Ceilin 2x2
	2x2 Acoustical Lay in Ceiling
	Gypsum Board Ceiling
	2x4 Fluorescent Fixture
	Surface-Mounted Fluorescent Light Fixture
0	Recessed Can Light Fixture
	HVAC Supply Grille
	HVAC Return Grille
$\otimes$	Exterior Wall Light
	Interior Wall Light
	Open to Structure (OTS) Paint Exposed
	Existing Canopy
	Free Standing New Canopy
	Wall Hung New Canopy
	New 2 x 2 ACT in Existing Building

New 2 x 2 ACT in Existing Building, See Notes on Plan for Full Scope



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- Joint Material should match grout colors as selected by
- jamb of an opening, where the Lintel is attached to the structure, the vertical expansion joint can continue through
- jamb of an opening, where the opening is spanned with a Loose Lintel, the Lintel must be allowed to expand independently of the masonry by forming a slip plane. See Detail 7/A-201 and comply with Brick Institute Association
- spaced more than 25 feet apart, the sum of the distance from a corner to the adjacent vertical expansion joint



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Building Sections





3/20/ C:\U

# **General Wall Section Notes**

- 1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
- 2. Continuous air barrier to be provided at building envelope per IBC 2012 Energy Code. Air barrier joints and seams to be sealed and all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind or mechanical units.
- 3. Wall cavity insulation (rigid insulation) to be 2" thick polystyrene unless noted otherwise. 4. Roof insulation to be 3 1/2" thick polyisocyanurate unless noted otherwise. Tapered insulation is required over corridors where flat structural framing is located and should match thickness of adjacent roof insulation and increase in thickness to match adjacent roof slopes.
- 5. Closed cell spray foam insulation with a minimum density of 1.5 pcf and having a thickness of not less than 1.5" to be used to fill voids at material transitions at the perimeter envelope of building (roof and wall transitions)
- 6. Provide and install continuous thru-wall flashing with weeps at 24" o.c. at the first horizontal joint above grade at the full perimeter of the building.
- 7. Provide masonry wall ties where req. 16" O.C. 8. Grout solid all voids and cavities in walls below grade. Veneer masonry courses below grade may be C.M.U. or veneer brick.
- 9. All anchors, fasteners, relief angles and attachment devices to be hot dipped galvanized steel. 10. See A-400 series interior elevations sheets for descriptive
- interior information.
- 11. Walks adjacent to buildings to be 1" minimum below FFE. 12. Grade adjacent to building to be 6" minimum below FFE 13. Grade @ the exterior of the building @ entrance to be 1/4"
- maximum below FFE
- 14. All Ladders to be Wall Mounted







#### Architects

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Interior Details and Notes















Architects

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Millwork Elevations and Details









 Painted plywood above. Color to be chosen by Arhitect. Melamine on bottom 8' of wall. Color to be chosen by Architect.



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# Toilet Accessory Legend

GB36. Grab Bars: 36", 1-1/2" diameter GB42. Grab Bars: 42", 1-1/2" diameter Grab Bars: 18", 1-1/2" diameter Toilet Paper Dispenser: CPCI (Contractor Provided, Contractor Installed) Paper Towel Dispenser: CPCI Soap Dispenser: CPCI Mirror: 20"x36": CPCI Robe/Coat Hooks: Mount on toilet side of door Floor Drain



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Interior Finish Plans


A-201a

### General Plan Notes

- 1. All interior walls to be type "D1" UNO 2. All furniture shown in plan is NIC. 3. All door frames in masonry wall to be located 8" off perpendicular wall (typ.) unless indicated otherwise. All door frames in metal stud walls to be located 4" off perpendicular walls (typ.) unless indicated otherwise. Provide min. clear of 12" on push side of door and 18" on pull side.
- 4. Reference building elevations (A-200 Sheets) for exterior
- veneer expansion joint locations 5. All DS tie into boot and underground water line unless
- otherwise noted, see Civil. 6. MB1: 48" H x 96" W markerboard
- MB2: 48" H x 84" W markerboard 8. MB3: 48" H x 72" W markerboard
- 9. MB4" 48" H x 144" W markerboard
- 10. SB: 48" x 72" smartboard Max (Owner Provided, Contractor Installed).
- 11. TB1: 48" x 48" tackboard 12. TS: 3" x 72" tack strip
- 13. Reference Interior Elevations for MarkerBoard, Tackboard, and Smart Board Dimensions and Locations
- 14. All CMU wall corners & window sills to have 1" diameter radius. Bottom course of CMU corners are not to be
- radiused to receive finish base as scheduled. 15. All backsides of bathroom partition doors and single unit
- restroom doors to have a Coat Hook (CH) installed. 16. All dimensions are to the face of masonry. 17. Exterior masonry walls will have 2" inches of continuous
- extruded polystyrene in the cavity between the CMU and brick veneer. 18. All Ramps with a slope of 1:12 or greater should have ADA
- specified handrails. Interior Ramps With Adjacent Walls will be Wall Mounted Handrails, See 5/A-701. Ramps without Adjacent Walls will have Free Standing Handrails, See 6/A701
- 19. All Stairs shall have handrails, Stairs with Adjacent Walls will have wall mounted handrails See 1/A-701. Stairs without Adjacent Walls will have Free Standing Handrails, See 3/A-701
- 20. Typ. Grades Immediatly outside of Doors entering/exiting Buildings Shall be 1/4" Below FFE, and supply a Door Threshold to traverse the difference in Elevation into the Building.
- 21. Typ. Grades @ Sidewalks Adacent to Buildings and Not @ Doors shall be 1" min. Below FFE.
- 22. Typ. Earth Grade Shall be 6" min. Below FFE 23. See A-451 for Enlarged Equipment Plans 24. Provide 42" High Gaurd rails at all changes in elevation greater than 30".



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aseball/Softball 39305 MS m eridian, Ο 0 Me **U** St, S nd 32 High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 PPu RBI Checked Revision Date # A-101b

Stadium Floor Plans -Base Bid

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**1** Floor Plans - Stadium with Alternates  $\frac{1}{1/8" = 1'-0"}$ 



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seball/Softball 39305 MS Q  $\mathbf{m}$ St, Meridian, Ο 0 Sch 32nd High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Author Checker Checked Date Revision # A-102b Stadium Floor Plans with Alternates





### Architects

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Floor Plans



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![](_page_39_Picture_5.jpeg)

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![](_page_39_Picture_11.jpeg)

Baseball/Softball MS 39305 Meridian, School St, 32nd High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Date PPu Drawn RBI Checked Date Revision # 1 11/8/22 SD A-201b

Building Elevations

![](_page_40_Figure_0.jpeg)

![](_page_40_Figure_1.jpeg)

![](_page_40_Picture_2.jpeg)

Architects

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![](_page_40_Picture_8.jpeg)

![](_page_40_Picture_9.jpeg)

![](_page_41_Figure_0.jpeg)

![](_page_41_Picture_8.jpeg)

Architects

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![](_page_41_Picture_14.jpeg)

![](_page_41_Picture_15.jpeg)

![](_page_42_Figure_0.jpeg)

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![](_page_42_Picture_5.jpeg)

Architects

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![](_page_42_Picture_11.jpeg)

![](_page_42_Picture_12.jpeg)

![](_page_43_Figure_0.jpeg)

ο O

### **General Wall Section Notes**

- 1. Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
- 2. Continuous air barrier to be provided at building envelope per IBC 2012 Energy Code. Air barrier joints and seams to be sealed and all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind or mechanical units.
- 3. Wall cavity insulation (rigid insulation) to be 2" thick polystyrene unless noted otherwise. 4. Roof insulation to be 3 1/2" thick polyisocyanurate unless noted otherwise. Tapered insulation is required over corridors where flat structural framing is located and should match thickness of adjacent roof insulation and increase in
- thickness to match adjacent roof slopes. 5. Closed cell spray foam insulation with a minimum density of 1.5 pcf and having a thickness of not less than 1.5" to be used to fill voids at material transitions at the perimeter envelope of building (roof and wall transitions)
- 6. Provide and install continuous thru-wall flashing with weeps at 24" o.c. at the first horizontal joint above grade at the full perimeter of the building.
- 7. Provide masonry wall ties where req. 16" O.C. 8. Grout solid all voids and cavities in walls below grade. Veneer masonry courses below grade may be C.M.U. or veneer brick.
- 9. All anchors, fasteners, relief angles and attachment devices to be hot dipped galvanized steel. 10. See A-400 series interior elevations sheets for descriptive
- interior information.
- 11. Walks adjacent to buildings to be 1" minimum below FFE. 12. Grade adjacent to building to be 6" minimum below FFE 13. Grade @ the exterior of the building @ entrance to be 1/4"
- maximum below FFE
- 14. All Ladders to be Wall Mounted

![](_page_43_Figure_15.jpeg)

![](_page_43_Picture_23.jpeg)

### Architects

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![](_page_43_Picture_29.jpeg)

![](_page_43_Picture_30.jpeg)

![](_page_44_Figure_0.jpeg)

![](_page_44_Figure_1.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_1.jpeg)

SPECIFIC P	LUMBING NOTES
P2	TYPICAL NEW GAS SERVICE GRADE. VERIFY/COORDINAT UTILITY COMPANY. ALL COS SHALL BE INCLUDED.
P3	ROUTE NEW GAS PIPING AT ATOP NEW EQUIPMENT CON
P4	GAS METER/REGULATOR PF UTILITY COMPANY. COST AN BE INCLUDED. REGULATE 65
P5	LOW PRESSURE GAS PIPINO ROUTED UP IN EXTERIOR W
P6	EXTEND NEW FULL SIZE WA HORIZONTALLY IN PLUMBIN PIPING TO SERVE INDIVIDUA PLUMBING FIXTURE ROUGH INCLUDING WATER HAMMEF
P7	1/2" TYPE 'K' SOFT COPPER WASTE BELOW SLAB/FLOOF
P8	1-1/2" INSULATED TRAPPED RECEIVE COOLING COIL CO
P11	TYPICAL 4" TRAPPED HUB D PACKAGE UNIT CONDENSAT FOR CLARITY.

![](_page_45_Figure_4.jpeg)

![](_page_45_Figure_5.jpeg)

![](_page_46_Figure_0.jpeg)

SPECIFIC P	LUMBING NOTES
P1	TYPICAL SERVICE PIPING B MECHANICAL CIVIL DRAWIN
P6	EXTEND NEW FULL SIZE WA HORIZONTALLY IN PLUMBIN PIPING TO SERVE INDIVIDU PLUMBING FIXTURE ROUGH INCLUDING WATER HAMME
P7	1/2" TYPE 'K' SOFT COPPER WASTE BELOW SLAB/FLOO
P9	TYPICAL GRAVITY CONDEN ROUTED HIGH AS FEASIBLE VENT STACK OR FLOOR DR PROVIDE FULL PIPE SIZE C CHANGE OF DIRECTION AN STRAIGHT RUN OF PIPE. C TWO OR MORE UNITS SHAL OTHERWISE NOTED.
P10	INSULATE CONDENSATE DE WASTE/VENT PIPING, INCLU SANITARY WASTE PIPING IN CONDENSATE FROM AIR CO DISCHARGE. INSULATION S ORIGIN POINT OF COLD CO CONTINUOUS TO SLAB ON O INSULATE PER SPECIFICAT DRAIN PIPING.

![](_page_46_Picture_4.jpeg)

PLUM	BING F	IXTURE SCHEDULE						
	ADA			ROUGH	I-IN REQUIRE	MENTS		FLOOR MTND.
MARK	REQ'D	DESCRIPTION	WASTE	VENT	120 °F HW	CW	TEMPERED	CARRIER REQ'D
WC-1	YES	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (HARD-WIRED SENSOR)	4''	2''-4''	-	1"	-	NO
WC-2	NO	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (HARD-WIRED SENSOR)	4''	2''-4''	-	1"	-	NO
U-1	YES	URINAL - WALL MOUNTED WASHOUT TYPE (HARD-WIRED SENSOR)	2''	2''	-	3/4''	-	YES
U-2	NO	URINAL - WALL MOUNTED WASHOUT TYPE (HARD-WIRED SENSOR)	2''	2''	-	3/4''	-	YES
L-1	YES	LAVATORY - WALL MOUNTED TYPE (HARD-WIRED SENSOR)	2''	2''	1/2''	1/2''	1/2''	YES
L-2	NO	LAVATORY - WALL MOUNTED TYPE (HARD-WIRED SENSOR)	2''	2''	1/2''	1/2''	1/2''	YES
S-1	NO	SINK - TWO COMPARTMENT, STAINLESS STEEL w/DRAIN BOARDS	2''	2''	1/2''	1/2''	-	NO
SH-1	YES	SHOWER FITTINGS AND DRAIN	2''	2''	1/2''	1/2''	-	NO
SH-2	NO	SHOWER FITTINGS AND DRAIN	2''	2''	1/2''	1/2''	-	NO
DF-1	YES	DRINKING FOUNTAIN - DUAL HEIGHT FREEZE RESISTANT	2''	-	-	1/2''	-	NO
HB-1	NO	HOSE BIBB - NON-FREEZE TYPE IN LOCKING BOX	-	-	-	3/4''	-	NO
HB-2	NO	HOSE BIBB - MILD CLIMATE TYPE IN LOCKING BOX	-	-	-	3/4''	-	NO
HB-3	NO	HOSE BIBB - EXPOSED SILCOCK	-	-	-	3/4''	-	NO
GH-1	NO	GROUND HYDRANT	-	-	-	3/4''	-	NO
TP-1	NO	TRAP PRIMER - CONNECT TO FLUSH VALVE ASSEMBLY	-	-	-	1/2''	-	NO
TG-1	NO	TRAP GUARD	-	-	-	-	-	NO
IMB	NO	ICE MAKER WITH TYPE "K" COPPER WATER LINE	-	-	-	1/2''	-	NO
FD-1	NO	FLOOR DRAIN - GENERAL DRAINAGE IN TOILET AREAS	3''	2''	-	-	-	NO
FD-2	NO	FLOOR DRAIN - AREA MECHANICAL ROOM DRAINAGE	4''	2''	-	-	-	NO
FD-3	NO	FLOOR DRAIN - COMMERCIAL WASHER	3''	2''	-	-	-	NO
FD-4	NO	FLOOR DRAIN - WHIRLPOOL	3''	2''	-	-	-	NO
FD-5	NO	FLOOR DRAIN - GENERAL DRAINAGE IN DUGOUTS	3"	-	-	-	-	NO

MISC			INECTIONS	SCHEDULE
MARK	DESIGNATION	INTERACTION REQUIRED	POWER REQUIREMENTS	REMARKS
LAV'S	INFRARED SENSORS	ELECTRICAL	120V.,1ph	HARDWIRED INFRARED SENSORS ON LAVATORIES
WC'S	INFRARED SENSORS	ELECTRICAL	120V.,1ph	HARDWIRED INFRARED SENSORS ON WATER CLOSETS
U'S	INFRARED SENSORS	ELECTRICAL	120V.,1ph	HARDWIRED INFRARED SENSORS ON URINALS
MV-1	DIGITAL MIXING VALVE	ELECTRICAL	120V.,1ph	MIXING VALVE AT <u>WH-01</u> IN Mech/Elec 101a
NOTES:				
1. VERI	FY/COORDINATE DEDICATED POWER OR SYSTEM POWE	R REQUIREMENTS.		

DOME	STIC	WATER	HEATER SC	CHED	ULE				
MARK	FUEL	STORAGE CAP., GAL.	RECOVERY G.P.H. AT 100 ºF RISE	MAX. GPM	INPUT KW	INPUT MBH	ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ACCESSORIES
WH-01	N.GAS	100	291	-	-	250.0	120V.,1ph	A.O. SMITH MODEL BTH-250	1, 2, 3, 4
WH-02	N.GAS	50	115	-	-	100.0	120V.,1ph	A.O. SMITH MODEL BTX-100	1, 3, 4
FEATURI 1. PRO 2. PRO 3. PRO 4. PRO	ES/ACCES VIDE PIPI VIDE REC VIDE WITI VIDE WITI	<u>SORIES:</u> NG, VALVES A IRCULATING F H MANUFACTU H MANUFACTU	ND ACCESSORIES PE PUMP AND PIPING PE RER'S CONCENTRIC RER CONDENSATE N	ER DETAIL R DETAIL VENT TEI NEUTRAIL	-S. RMINATIO IZATION	N KIT. KIT.			

MARK	FUEL	STORAGE CAP., GAL.	RECOVERY G.P.H. AT 100 ºF RISE	MAX. GPM	INPUT KW	INPUT MBH	ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ACCESSORIES
WH-01	N.GAS	100	291	-	-	250.0	120V.,1ph	A.O. SMITH MODEL BTH-250	1, 2, 3, 4
WH-02	N.GAS	50	115	-	-	100.0	120V.,1ph	A.O. SMITH MODEL BTX-100	1, 3, 4
FEATURE 1. PRO 2. PRO 3. PRO 4. PRO	ES/ACCES /IDE PIPII /IDE RECI /IDE WITH /IDE WITH	<u>SORIES:</u> NG, VALVES A RCULATING F HMANUFACTU HMANUFACTU	ND ACCESSORIES PE PUMP AND PIPING PE RER'S CONCENTRIC RER CONDENSATE N	R DETAIL R DETAIL. VENT TEF IEUTRAIL	.S. RMINATIO IZATION I	N KIT. KIT.			

CIRC		JMP SCHED	ULE											
		[1]		CIR	CULATING FLU	JIDS				[2]	EL		ATA	
MARK	LOCATION	SYSTEM	FLUID	GPM	PUMP HEAD FT. FLUID	TEMP., ⁰F	SP. GR.	(FEET)	% EFF.	TYPE	NOM. HP	SERVICE	RPM	BASIS OF DESIGN
CP-01	Mech/Elec 101a	А	WATER	2	15	60-200	1	10	-	Α	1/12	120V,.1ph	2650	BELL & GOSSETT MODEL PL-30B
[1] SY: A. DC	STEM DMESTIC HOT WATER	RECIRCULATING			[2] TYPE A. INLIN	IE - LOW	LEAD B	RONZE OR	STAINL	ESS ST	EEL			<u>COMPARABLE PRODUCTS:</u> BELL AND GOSSETT, PACO, TACO

MOTOR S	STA
SERVING	HP EACH
CP-01	1/
[1] NOTES 1. SEE CONTF 2. MOUNT ST 3. COMBINATI	ROL SE ARTER ON MC

MARK	SYSTEM [1]	SYSTEI RAN	N TEMP. GE, ⁰F	INITIAL PRESS. IN TANK	MAX. OPER. PRESS.	TOTAL VOLUME	ACCEPTANCE VOLUME	BASIS OF DESIGN
		MIN.	MAX.	PSI GAUGE [2]	PSI GAUGE	GAL	GAL	
EXPT-01	A	40	200	[2]	[2]	10.3	10.3	BELL & GOSSETT MODEL PT-25V
EXPT-02	В	40	200	[2]	[2]	2.0	0.9	BELL & GOSSETT MODEL PT-5
[1] SYSTE A. DOME B. DOME	EM: ESTIC HOT WA ESTIC HOT WA	TER (WH-0 TER (WH-0	1) 2)		[2] VERIFY A WATER STA	ND SET AT FIC PRESSU	DOMESTIC RE	

RTE	R SCHEDULE	Ē	
OF LOAD	ELECTRICAL CHARACTERISTICS	BASIS OF DESIGN	NOTES [1]
12	120V.,1ph	FRANKLIN CONTROLS SYSTMS MODEL BAS-1P	1, 2, 3

SEQUENCE FOR ADDITIONAL CONTROL REQUIREMENTS. ER WITHIN 10' OF EQUIPMENT SERVED. COORDINATE IN FIELD SPECIFIC LOCATION. MOTOR STARTER/DISCONNECT.

![](_page_47_Picture_13.jpeg)

![](_page_47_Picture_14.jpeg)

![](_page_47_Picture_15.jpeg)

![](_page_47_Picture_16.jpeg)

![](_page_47_Picture_17.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_49_Figure_0.jpeg)

![](_page_49_Picture_1.jpeg)

![](_page_50_Figure_0.jpeg)

### **GENERAL HVAC NOTES:**

CONDITIONS. IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE IN STRICT CONFORMANCE. ANY ADDITIONAL MATERIALS AND/OR LABOR REQUIRED TO CONFORM WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE PROVIDED COMPLETE AND WITHOUT ADDITIONAL COST TO THE CONTRACT.

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE

- 2. THE LOCATION OF ALL AIR DISTRIBUTION DEVICES TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LOCATION OF DUCTWORK IN ALL AREAS TO MATCH CEILING GRID/LIGHT FIXTURES WHILE MAXIMIZING CEILING HEIGHT SCHEDULED ON ARCHITECTURAL PLANS.
- COORDINATE LOCATION OF ALL OUTDOOR AIR INTAKES FOR HVAC SYSTEMS AND MAINTAIN MINIMUM 15'-0" DISTANCE TO FLUES, VENTS, EXHAUST/FANS, ETC.
- SIDEWALL AND DRYWALL CONSTRUCTION AIR DISTRIBUTION DEVICES MOUNTINGS IN SAME ROOM SHALL BE UNIFORM AND SYMMETRICAL AS APPROVED BY ARCHITECT.
- WALL LOUVERS AND BRICK VENTS TO BE OF ALUMINUM CONSTRUCTION AND HAVE FACTORY COLORED FINISH. THE COLOR TO BE SELECTED BY THE ARCHITECT.
- 6. COORDINATE WEIGHTS OF HVAC EQUIPMENT, ETC. WITH ALL TRADES. PROVIDE ALL AUXILIARY SUPPORT STEEL TO SUPPORT ALL EQUIPMENT AND PROVIDE BLOCKING AND SUPPORT FOR SAME. INDICATE ALL SUCH PENETRATIONS AND WEIGHTS ON SHOP DRAWING SUBMITTALS. ALL SOFFIT, EXTERIOR WALL, AND ROOF EQUIPMENT AND LOUVERS SHALL INCLUDE AUXILIARY SUPPORT STEEL FRAMING AROUND PERIMETER OF ALL OPENINGS. PRIME AND PAINT <u>ALL</u> AUXILIARY STEEL MEMBERS UTILIZED EVERYWHERE IN THIS PROJECT.
- IT IS ESSENTIAL THAT ALL EXTERIOR WALL DEVICES (FANS, CAPS, BRICK VENTS, ETC.) BE INSTALLED SYMMETRICALLY AND PER ARCHITECT'S PLANS. VERIFY INSTALLATION REQUIREMENTS WITH ARCHITECT IN ALL CASES.
- DUCTWORK AND OTHER MECHANICAL OPENINGS THROUGH MASONRY WALLS SHALL BE REINFORCED/SUPPORTED AS DETAILED ON STRUCTURAL DRAWINGS. COORDINATE THE LOCATIONS AND SIZES OF THESE PENETRATIONS MAKING ALLOWANCES FOR INSULATION, FIRE DAMPERS, PIPING SLEEVES, ETC.
- 9. DUCTWORK EXPOSED OUTSIDE (TO WEATHER) SHALL BE COMPREHENSIVELY SEALED AIRTIGHT, INCLUDING ALL CONNECTIONS AND CIRCUMFERENTIAL AND LONGITUDINAL SEAMS, ETC. A RECOMMENDED SEALANT SYSTEM, SUCH AS FOSTER DUCT-FAS DUCT SEALANT, SHALL BE APPLIED WITH FULL 100% COVERAGE OVER ALL DUCTWORK, GALVANIZED SUPPORTS, ETC. DUCTWORK SHALL BE SUITABLY SUPPORTED WITH HEEL AND WALL GALVALUME/GALVANIZED AUXILIARY SUPPORTS. ENTIRE INSTALLATION SHALL BE NEAT, INCLUDING SEALANT. ALL DUCTWORK SHALL BE ATTACHED TO HVAC UNIT CONNECTIONS WITH WEATHERPROOF FLEXIBLE CONNECTIONS. AFTER APPLICATION OF DUCT SEALANT, DUCTWORK AND AUXILIARY SUPPORTS SHALL BE NEATLY PRIMED AND PAINTED WITH WATER BASED PAINT (COLOR BY ARCHITECT).

 $\begin{pmatrix} 2 \\ M-102 \end{pmatrix}$ 

![](_page_50_Figure_11.jpeg)

![](_page_51_Figure_0.jpeg)

SPECIFIC H	VAC NOTES
M1	DUCTLESS MINI-SPLIT MOU DETAIL.
M2	OUTDOOR DUCTWORK. SI FOR DETAILED REQUIREM
M3	FULL SIZE DRYER EXHAUS WALL TO EXTERIOR WALL EDGES, SCREWS, ETC. AR INTERIOR. EXTEND TWO II BUILDING TO ALLOW FOR CONNECTION. PROVIDE IN ESCUTCHEON ON INSIDE V DIAMETER; CAULK BETWE AND OUTSIDE. PROVIDE FI EXTENSION AND CONNECT
M4	DRYER VENT COVER TO B STEEL WITH A 2B MILL FINI MODEL RCC-S (WITH BACK
M5	TYPICAL UPFLOW FURNAC PLENUM. SEE DETAIL.
M6	WATER HEATER INTAKE/V

![](_page_52_Figure_1.jpeg)

### HEAT RECOVERY UNITS SCHEDULE HEAT EXCHANGER DESIGN CONDITIONS OUTSIDE AIR / SUPPLY AIR SIDE EXHAUST AI MARK WINTER SUMMER WIN EXT. EXT. CFM S.P. IN E.A.T. °F L.A.T. °F E.A.T. °F L.A.T. °F CFM S.P. IN E.A.T. °F W.G. D.B. W.B. W.G. D.B. W.B. D.B. W.B. D.B. W.B. D.B. W.B. HRU-01 3,750 1.00 22.0 18.3 50.8 42.0 95.6 76.7 83.2 68.9 3,175 1.00 72.0 55.8 NOTES: 1. MINIMUM REHEAT CAPACITY COINCIDENT WITH ONLY LEAD CIRCUIT COOLING SYSTEM ENERGIZED. 2. SEE SPECIFICATIONS FOR MORE INFORMATION AND CONTROL SEQUENCES. 3. SEE SPECIFICATIONS FOR COORDINATION OF SMOKE DETECTORS. 4. ALL UNITS SHALL UTILIZE R-410A REFRIGERANT. 5. UNIT SHALL BE STARTED UP AND CHECKED OUT BY A FACTORY SERVICE REPRESENTATIVE. PROVIDE COPY O MANUFACTURER'S REGISTERED CASE NUMBER IN CLOSE-OUT DOCUMENTATION.

DUCTI	ESS S	SPLIT S	SYSTE	M (IND	OOR SEC	TIO	N) S	CHED	ULE			
			ŀ	IEATING CAF	PACITY	coc	DLING (	CAPACITY				
MARK	TYPE	TOTAL CFM	INDOOR D.B., ⁰F	INDOOROUTDOORTOT. REV.EAT (°F)TOTALELECTRICALD.B., °FD.B., °FCYCLE MBHD.B.W.B.MBHSERVICE		BASIS OF DESIGN	FEATURES/ ACCESSORIES	MATCHED TO				
DSS-01	WALL	360	70	47	12.3	80	67	12.0	208V.,1ph	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2	DCU-01
DSS-02	WALL	360	70	47	12.3	80	67	12.0	208V.,1ph	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2	DCU-02
DSS-03	WALL	360	70	47	12.3	80	67	12.0	208V.,1ph	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2	DCU-03
*BASED ON 47 °F D.B. OUTSIDE AND 70 °F D.B. INDOOR ENTERING COMPARABLE PRODUCTS: MITSUBISHI, DAIKIN, LG												
FEATURES/ACCESSORIES: 1. PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT. 2. PROVIDE WITH NEEDLE POINT IONIZATION DEVICES PER SCHEDULE												

DUCT	LESS SPL	IT SYSTE	M (OUTD	OOR SECT	ION) S	SCHEDULE			
	C		ſY	HEATING CAP	ACITY	МАХІМИМ			
MARK	OUTDOOR D.B., ⁰F	TOTAL MBH	MIN. S.E.E.R.	TOTAL REVERSE CYCLE, MBH*	HSPF	REFRIGERANT PIPE LENGTH (FT.)	SERVICE	BASIS OF DESIGN	TO
DCU-01	95	12.0	26.1	12.3	12.5	65	208V.,1ph	TRANE-MITSUBISHI MODEL NTXSPH12B112AA	DSS-01
DCU-02	95	12.0	26.1	12.3	12.5	65	208V.,1ph	TRANE-MITSUBISHI MODEL NTXSPH12B112AA	DSS-02
DCU-03	95	12.0	26.1	12.3	12.5	65	208V.,1ph	TRANE-MITSUBISHI MODEL NTXSPH12B112AA	DSS-03
*BASED (	ON 47 ºF D.B. OUT	SIDE AND 70 °F	D.B. INDOOR ENT	FERING COIL TEMP	ERATURE			<u>COMPARABLE PRODUCTS:</u> MITSUBISHI, DAIKIN, LG	
<u>NOTES:</u> 1. REFR EQUII 2. PROV	IGERANT PIPE S PMENT LIFE. /IDE LOW AMBIEI	IZE SHALL BE AS	S PER MANUFACT	URER'S RECOMME	ENDATION	TO PROVIDE SCHEDU	LED MINIMUM C	OOLING CAPACITY AND MAXIMUM	

3. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHUTOFF KIT, AND WARRANTY AS SPECIFIED. 4. SEE SPECIFICATIONS FOR WARRANTY INFORMATION.

5. PROVIDE WITH INVERTER DUTY OR VARIABLE SPEED COMPRESSOR.

FAN S	SCHED	ULE											
MARK	TYPE [1]	CONTROL SEQ. [2]	OPERATING CFM	S.P. in W.G.	R.P.M.	MAX. SONES	M H.P.	OTOR DA	TA WATTS	ELEC. SERVICE	DRIVE	BASIS OF DESIGN	FEATURES/ACCESSORIES
EF-01	A	A	75	0.375	768	1.0	-	-	80	120V.,1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-02	A	A	75	0.375	768	1.0	-	-	80	120V.,1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-03	A	A	75	0.375	768	1.0	-	-	80	120V.,1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5, 6
EF-04	A	A	375	0.375	1,047	4.0	-	-	224	120V.,1ph	DIRECT	GREENHECK MODEL SP-A510	1, 2, 3, 4, 5, 6
EF-05	А	А	375	0.375	1,047	4.0	-	-	224	120V.,1ph	DIRECT	GREENHECK MODEL SP-A510	1, 2, 3, 4, 5, 6
[1] TYPE	- SEE DETA	ILS FOR M	ORE INFORMA	TION:								COMPARABLE PRODUCTS:	
												GREENHECK, COOK, PENN-BARRY	

A. CEILING CABINET TYPE

[2] CONTROL SEQUENCE:

A. EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHT OCCCUPANCY SENSOR IN SAME ROOM FAN SERVES.

[3] FEATURES/ACCESSORIES:

PROVIDE THE FOLLOWING MANUFACTURER'S ACCESSORIES

1. UL AND AMCA RATING 2. FACTORY MOUNTED & WIRED DISCONNECT

3. BACKDRAFT DAMPER 4. FACTORY MOUNTED & WIRED SOLID STATE SPEED CONTROLLER

5. ALUMINUM GRILLE 6. MANUFACTURER'S SIDEWALL HOODED DISCHARGE CAP (COLOR TO MATCH ADJACENT WALL)

					С		APACITY	Y (ALL VA		ED ARE NET	CAPACITIES)		HEATI	NG CAPAC	ITY (REHEAT P	POSITION)											
IR / RETU	IRN AIR SIDE						DESIGN	CONDITIO	ONS				COOLING AND		HEAT	ING MODE				ELECTRICAL	DATA			UNIT			
TER		SUMM	ER	OU	JTSIDE /		OIL	COI			MIN. NO.	MIN.	DEHUMIDIFICATION MODE		SECONDAR	Y HEATING MOI	DE		RETURN/	HEAT				WEIGHT	BASIS OF DESIGN	FEATURES/ACCESSORIES	MARK
L.A.T.	°F E.A.	.T. ⁰F	L.A.T. <sup>o</sup>	F	TEMP.	E.A	T. ⁰F	L.A.T.	.ºF 101	AL SENS. BH MBH	OF STAGES	ISMRE	HOT GAS REHEAT	FUEL	MAX. INPUT	MIN. MOD.	MIN.	FAN HP.	EXHAUST	WHEEL	SERVICE	MCA	MOCP	(LBS.)			
D.B.	W.B. D.B.	W.B.	D.B. W	/.В. D.	.B. W	.B. D.B.	W.В.	D.B.	W.B.			COIL CAPACITY (MBH) MBH TURNDOWN A.F.U.E.		FAN HP. MOTOR HP.													
55.8	35.0 75.0	64.0	89.3 7	2.6 9	96 7	7 83.2	68.9	52.6	52.5 19	3 126	1	6.6	83	N. GAS	200	16:1	80%	5	3	1/6	208V.,3ph	98.8	150	GROUND	GREENHECK MODEL RVE-40-41D-15I	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	HRU-01
OF START	UP REPORT	Γ AND													1. EVAPOR 2. SPLIT-F. 3. EQUIPM 4. VARIAB 5. MODUL/ 6. THRU-B/ 7. FACTOR 8. FACTOR 9. 2" DEEP 10. HINGED 11. MODUL/ 12. HORIZO 13. DUCT M	ACCESSORIES. RATOR LOW LII ACE EVAPORA ENT VIBRATIOI LE SPEED COM ATING OUTSIDE ASE ELECTRIC/ MOUNTED A FILTER RACK. ACCESS DOOF ATING HOT GAS NTAL DUCT CO OUNTED SUPP	MIT TEMPERAT FOR COIL DES N ISOLATION IPRESSOR ON E AIR AND RET AL CONNECTION ND POWERED ND WIRED DIS RS, WEATHER S REHEAT CO INNECTIONS ( LY AND RETU	URE AND GIGN. CURBS. LEAD CO URN AIR I ON. GFI CONV CONNECT PROOF G L. OR SOLID I RN SMOKE	TIME DELAY MPRESSOR R DAMPERS (CC /ENIENCE OU SWITCH. ASKETED SEA BOTTOM HOR E DETECTORS	AUTOMATIC F REFRIGERANT DORDINATE A JTLET. ALS AND TOO RIZONTAL DISC WIRED TO SI	RESTART C CIRCUITS. CTUATOR F L-LESS QU CHARGE CU HUT-DOWN	ONTROLS REQUIREM ARTER T JRB. SEE UNIT UP(	FOR EAG IENTS WI JRN LATC DETAIL. DN DETEC	TH CIRCUIT	OLS CONTRACTOR). OMPRESSOR, EVAPORATOR FAN, CONTROLSAI RODUCTS OF COMBUSTION.	AAON, VALENT	

				HE	EATING CAPA	CITY		COOLIN	IG CAPAC	ITY	REFRIGERAN	T PIPE SIZING	ELECTRIC	AL DAT	A			,
MARK	TYPE	TOTAL CFM	E.S.P. IN. W.G.	INDOOR D.B., ºF	OUTDOOR D.B., °F	TOT. REV. CYCLE MBH	ENT.	COND. W.B.	TOTAL MBH	SENS. MBH	LIQUID LINE	VAPOR LINE	ELECTRICAL SERVICE	МСА	MOCP	BASIS OF DESIGN	ACCESSORIES	MATCHED TO
IDU-1-01	Α	36,000	-	70	47	38.0	80	67	36.00	27.0	3/8	5/8	208V.,1ph	2.00	15	TRANE-MITSUBISHI MODEL TPLA0A0361EA70B	1, 2, 3, 4, 5	ODU-01
IDU-1-02	В	9,000	- 1	70	47	9.6	80	67	9.00	6.8	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH09B112AA	1, 2, 3, 5	ODU-01
IDU-1-03	В	12,000	-	70	47	12.3	80	67	12.00	9.0	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2, 3, 5	ODU-01
IDU-2-01	С	18,000	- 1	70	47	20.0	80	67	18.0	13.5	1/4	1/2	208V.,1ph	1.0	15	TRANE-MITSUBISHI MODEL NTXUKS18A112BA	1, 2, 3, 4, 5	ODU-02
IDU-2-02	С	18,000	-	70	47	20.0	80	67	18.0	13.5	1/4	1/2	208V.,1ph	1.0	15	TRANE-MITSUBISHI MODEL NTXUKS18A112BA	1, 2, 3, 4, 5	ODU-02
IDU-3-01	В	12,000	-	70	47	12.3	80	67	12.00	9.0	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2, 3, 5	ODU-03
IDU-3-02	В	9,000	-	70	47	9.6	80	67	9.00	6.8	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH09B112AA	1, 2, 3, 5	ODU-03
IDU-3-03	В	9,000	-	70	47	9.6	80	67	9.00	6.8	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH09B112AA	1, 2, 3, 5	ODU-03
IDU-3-04	В	12,000	-	70	47	12.3	80	67	12.00	9.0	1/4	3/8	208V.,1ph	1.00	15	TRANE-MITSUBISHI MODEL NTXWPH12B112AA	1, 2, 3, 5	ODU-03
<u>TYPE:</u>				<u>F</u> E	EATURES AN	ID ACCESSORI	<u>ES:</u>									<u>COMPARABLE PRODUCTS:</u> MITSUBISHI, DAIKIN, LG		
A. CEILING B. WALL M C. CEILING	CASSET OUNTED CASSET	TE TE (1 WAY)		1. 2. 3. 4. 5.	REFRIGERA PROVIDE ( PROVIDE V PROVIDE V PROVIDE V	ANT PIPE SIZE DNE POINT ELE WITH MANUFAC WITH MANUFAC WITH NEEDLEP	E AND C ECTRICA CTUREF CTUREF OINT E	CONFIGE AL CON R'S THE R'S INT BIPOLAF	JRATION INECTION RMOSTAT EGRAL CO R DEVICE.	SHALL BI T DNDENSA SEE SCH	e as per manuf Te pump. Iedule.	ACTURER'S REC	OMMENDATION	TO PRO	VIDE S	CHEDULED MINIMUM COOLING CAPACITY AND MAXIM	ium equipment life.	

### OUTDOOR HEAT PUMP MULTI-ZONE UNIT SCHEL

	COOL		HEATING CAPACITY		ELECT	RICAL DATA	4			
MARK	OUTDOOR D.B., ⁰F	TOTAL MBH	L TOTAL REVERSE CYCLE, MBH*		SERVICE	MCA **	MOCP **	BASIS OF DESIGN	MATCHED TO	
ODU-01	95	60.0	66.0	R410A	208V.,1ph	46	55	TRANE-MITSUBISHI MODEL NTXMSM60A182AA	IDU-1-01 thru 03	
ODU-02	95	36.0	42.0	R410A	208V.,1ph	35	50	TRANE-MITSUBISHI MODEL NTXMSM36A142AA	IDU-2-01 thru 01	
ODU-03	95	48.0	54.0	R410A	208V.,1ph	35	50	TRANE-MITSUBISHI MODEL NTXMSM48A182AA	IDU-3-01 thru 04	
* BASED ON 47°F D.B. OUTSIDE AND 70 F D.B. INDOOR ENTERING COIL TEMPERATURE ** BRANCH BOX POWERED BY OUTDOOR UNIT										
NOTES:										

1. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES. HARD SHUTOFF KIT, LIQUID LINE FILTER DRYER & WARRANTY AS SPECIFIED.

EQUIPMENT LIFE 3. CONTRACTOR SHALL CONNECT MANUFACTUER'S CONTROLS WIRING BEWTWEEN ALL OUTDOOR HEAT PUMP CONDENSING UNITS.

### FURNACE WITH DX COOLING SCHEDULE

						HEATIN	G DATA	
MARK	TYPE	CFM	O.A. CFM	E.S.P. IN. W.G.	FUEL	INPUT MBH	OUTPUT MBH	NO. OF STAGES
FE-01	VERT	1,100	300	0.80	N. GAS	60.0	58.2	2
NOTES:	:							

NUTES:

1. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMENDATION 2. PROVIDE ONE POINT ELECTRICAL CONNECTIONS FOR ALL INDOOR UNITS. 3. PROVIDE WITH NEEDLE POINT IONIZATION DEVICES PER SCHEDULE.

4. PROVIDE ALL UNITS WITH EXTERNAL FILTER RACKS.

### CONDENSING UNIT SCHEDULE

		CO	OLING CAPA	CITY		
MARK	OUTDOOR D.B., ⁰F	TOTAL MBH	MIN. S.E.E.R.	MIN. E.E.R.	MIN. I.E.E.R.	SERVICE
CU-01	95	36.0	14.0	-	-	208V.,1ph

NOTES:

. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHU WARRANTY AS SPECIFIED.

2. ALL UNITS SHALL BE PROVIDED WITH HEAVY DUTY FACTORY COIL GUARD. SEE 3. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION

COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.

4. PROVIDE LOW AMBIENT CONTROLS/CAPABILITY.

		_	
D	U	L	E

2. REFRIGERANT PIPE SIZE AND CONFIGURATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM

D	COOL	ING CAI	PAPCITY		ELECTRIC	AL DATA	BASIS O	F DESIGN	
MAX. A.P.D., IN. W.G.	E.A. D.B.	T. ⁰F W.B.	TOTAL MBH	SENS. MBH	SERVICE	FAN HP	FURNACE	EVAPORATOR	MATCHED TO
0.30	80	67	40.7	29.0	120V.,1ph	0.75	TRANE MODEL S9X2B060	TRANE MODEL 4TXCB006	CU-01
ION TO PROV	IDE SC	HEDULI	ED MINIM		ING CAPACI	TY AND M	1AXIMUM EQUIPMENT LIFE.	<u>COMPARABLE PRODUCTS:</u> LENNOX, TRANE, CARRIER, YOF	RK

ELECTRICAL	-		
MCA	МОСР	BASIS OF DESIGN	TO
18.0	30	TRANE MODEL 4TTR4036	FE-01
		<u>COMPARABLE PRODUCTS:</u> LENNOX, TRANE, CARRIER, YORK	ζ
UTOFF KIT,	LIQUID LIN	e filter dryer and	
EE MECHAN TION TO PI	NICAL SPEC ROVIDE SCH	IFICATIONS FOR CLARITY. IEDULED MINIMUM	

![](_page_53_Picture_58.jpeg)

![](_page_53_Picture_59.jpeg)

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![](_page_53_Picture_65.jpeg)

![](_page_53_Picture_66.jpeg)

![](_page_53_Picture_67.jpeg)

![](_page_53_Picture_68.jpeg)

### NEEDLEPOINT BI-POLAR IONIZATION DEVICES SCHEDULE

ACKAGED UNITS (ROOFTOP, GROUND M
UCTLESS INDOOR HEAT PUMP UNITS
IR HANDLING UNITS
FEATURES/ACCESSORIES:
1. UL 2998 AND UL 867 COMPLIANT

- 2. 24 VAC POWER SUPPLY VOLTAGE.
   3. CONNECT TO UNIT CONTROL POWER AS REQUIRED.

LOUV	ER AND	BRICK	( VENT	SCHE	DULE				
MARK	FUNCTION	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	AIRFLOW (CFM)	S.P. (in W.G.)	MOTORIZED DAMPER	BASIS OF DESIGN	FEATURES/ACCESSORIES [1]
LVR-I01	INTAKE	36''	16''	4''	225-525	0.10	NO	GREENHECK MODEL GCI-402	1, 2, 3, 4, 5, 6
[1] FEAT	URES/ACCESS							<u>COMPARABLE PRODUCTS:</u> GREENHECK, RUSKIN	
1. MIN. 2. FLAT 3. KYNA 4. FLAN 5. COM 6. EXTE	18 GA. GALVA EXPANDED A SOO FINISH IGED FRAME BINATION LOU NDED SILL W	ANIZED WAL ALUMINUM E ON LOUVEF UVER BACK (ITH END DA	L SLEEVE S BIRD SCREE R AND ALL DRAFT DAM	SLOPED TO N LOUVER AC	WARD OUTS CESSORIES DETAIL	OUSTOM C	N OLOR SELECT	TION BY ARCHITECT	

AIR TER	RMINALS SCHEDULE								
MARK	ТҮРЕ	CFM RANGE	NECK SIZE	FACE SIZE	DEFLECTION	V.D.*	FACTORY INSULATION**	BASIS OF DESIGN	FEATURES/ACCESSORII
1s L./	A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	25-75	6''Ø	12"x12"	AS INDIC.	NO	YES	PRICE MODEL SPD	
2s L.A	A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	80-200	8''Ø	24''x24''	AS INDIC.	NO	YES	PRICE MODEL SPD	
3s L.A	A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	205-375	10''Ø	24''x24''	AS INDIC.	NO	YES	PRICE MODEL SPD	
4s L.A	A.T. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	355-550	12''Ø	24''x24''	AS INDIC.	NO	YES	PRICE MODEL SPD	
1r SI	DEWALL MOUNTED LOUVER FACE R/A GRILLE	1100	30''x16''	AS REQ'D	15°	NO	NO	PRICE MODEL RCG	
2r HE	EAVY DUTY SIDEWALL R/A GRILLE	0-525	36"x16"	AS REQ'D	45°	NO	NO	PRICE MODEL 93	
1e L.A	A.T. CEILING MOUNTED CUBE CORE R/A GRILLE	0-200	8"x8"	12''x12''	0°	NO	NO	PRICE MODEL 80	1
2e L.A	A.T. CEILING MOUNTED CUBE CORE R/A GRILLE	0-450	12"x12"	24''x24''	0°	NO	NO	PRICE MODEL 80	1
* V.D VOLU ** AIR DISTRIE	LUME DAMPER (FACTORY ACCESSORY) IBUTION DEVICES WHERE NOTED TO INCLUDE FACTORY INSULATION ON I	REAR OF DE	EVICE					<u>COMPARABLE PRODUCTS:</u> PRICE, TITUS, METALAIRE	
<u>FEATURES/A</u> 1. PROVIDE	ACCESSORIES: DE WITH SQUARE TO ROUND ADAPTER. SEE PLANS FOR ROUND DUCT S	SIZE.							
* V.D VOLU ** AIR DISTRIE <u>FEATURES/A</u> 1. PROVIDE	LUME DAMPER (FACTORY ACCESSORY) IBUTION DEVICES WHERE NOTED TO INCLUDE FACTORY INSULATION ON I ACCESSORIES: DE WITH SQUARE TO ROUND ADAPTER. SEE PLANS FOR ROUND DUCT S	REAR OF DE SIZE.	EVICE					COMPARABLE PRODUCTS: PRICE, TITUS, METALAIRE	

MARK	DESIGNATION	INTERACTION REQUIRED	POWER REQUIREMENTS	REMARKS								
MD-01	MOTORIZED DAMPER	ELECTRICAL	120V.,1ph	MOTORIZED DAMPER IN LAUNDRY 110								
NOTES:												
1. VERIF	1. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.											

EQUIPMENT SERVED	DEVICE MOUNTING LOCATION	BASIS OF DESIGN	FEA ACCE
MOUNTED, ETC.)	IN UNIT DOWNSTREAM OF FILTERS	GLOBAL PLASMA MODEL GPS-FC-3-BAS	1, 2,
	IN UNIT DOWNSTREAM OF FILTERS	GLOBAL PLASMA MODEL IRIB	1, 2,
	IN UNIT DOWNSTREAM OF FILTERS	GLOBAL PLASMA MODEL GPS-FC-3-BAS	1, 2,
		COMPARABLE PRODUCTS: PLASMA AIR, BIOCLIMATIC	

4. MULTIPLE UNITS MAY BE REQUIRED BASED UPON AIRFLOW OF EQUIPMENT BEING SERVED. COORDINATE WITH INDIVIDUAL UNIT AIRFLOW. 5. PROVIDE HANDHELD ELECTRICAL TESTING DEVICE WITH BOTH VISIBLE AND AUDIBLE INDICATION (ONE PER PROJECT TO BE TURNED OVER TO OWNER).

ULE
-----

### MISCELLANEOUS POWER AND FIRE ALARM CONNECTIONS SCHEDULE

![](_page_54_Picture_16.jpeg)

EATURES/ CESSORIES
2, 3, 4, 5
2, 3, 5
2, 3, 4, 5

![](_page_54_Picture_19.jpeg)

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![](_page_54_Picture_25.jpeg)

![](_page_54_Picture_26.jpeg)

![](_page_54_Picture_27.jpeg)

![](_page_54_Picture_28.jpeg)

![](_page_54_Picture_29.jpeg)

![](_page_55_Figure_0.jpeg)

![](_page_55_Picture_3.jpeg)

Mechanical Details

![](_page_56_Figure_0.jpeg)

![](_page_56_Picture_1.jpeg)

![](_page_56_Picture_2.jpeg)

![](_page_56_Picture_3.jpeg)

Mechanical Details

	ELECTRIC		GEND
IERAL NOTES	8		CONDUIT AND WIRING
ES ARE TO BE FLU HALL BE GROUND HALL BE WEATHERF HALL BE RATED FOU HALL BE NIGHT LIG TURE. HALL BE PROVIDED HALL BE TAMPER R TR TO EMERGENCY	ISH MOUNTED UNLESS FAULT CIRCUIT PROOF WHILE-IN-USE. R DAMP LOCATION. HTS. PROVIDE AND INSTALLED WITH A ESISTANT. BATTERY PACKS.	_#	CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF
SCONNECT PROVIDE	ED WITH THE EQUIPMENT		THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.
CLE IS THE CIRCUIT NUI	MBER. THE LETTER BESIDE THE TURE SCHEDULE.	J	CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).
ED OR SUSPENDED ED OR SUSPENDED E EXIT SIGN. PROVI ROWS.	FIXTURE. EMERGENCY FIXTURE. DE CHEVRONS AS	,-#I-,	CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
EMERGENCY LIGHTIN EXIT SIGN. PROVIDE ROWS.	IG. CHEVRONS AS	LA-1	HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS
TIXTURE.	DE		PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT IN A JUNCTION BOX PRIOR TO ENTERING THE PANELBOARD.
IGHT FIXTURE.			LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.
SWITCHES			MISCELLANEOUS
-THROW SWITCH. ESS NOTED OTHER CH. SENSORSWITCH DUNT CENTERLINE ( WISE. CH WITH INTEGRAL -PDT-D-VA OR A AT 45"A.F.F. UNLES D ULTRASONIC DUA	MOUNT CENTERLINE OF WISE. #WSXA-PDT OR OF BOX AT 45" A.F.F. 0-10V DIMMER. PPROVED EQUAL. MOUNT S NOTED OTHERWISE. L TECHNOLOGY	PE PH O CE O WA C FLE	NTACTOR. NOTOCELL. NILING MOUNTED JUNCTION BOX. NLL MOUNTED JUNCTION BOX. EXIBLE CONNECTION TO EQUIPMENT.
VITH A T2 RADIAL VITCH #CM-PDT-9	OR APPROVED EQUAL.		CCTV SYSTEM
D ULTRASONIC DUA WITH A 28' RADIAL /ITCH #CM-PDT-10 D ULTRASONIC DUA WITH A 2000 SQ. EILING. SENSORSV	L TECHNOLOGY COVERAGE. CEILING O OR APPROVED EQUAL. AL TECHNOLOGY FT. COVERAGE. MOUNT WITCH #WV-PDT-16 OR	CE CE WA CE WA CE OU	ILING MOUNTED CAMERA. ILL MOUNTED CAMERA. SIDE CORNER MOUNTED CAMERA. ITSIDE CORNER MOUNTED CAMERA.
D ABOVE CEILING.	SENSORSWITCH #PP20		INTERCOM SYSTEM
HART FOR 20		S CE	ILING SPEAKER.
t Length	Conductor Size		LL-IN SWITCH.
< 50'	(AWG) #12		
> 50'	#10		
> 90'	#8	+ ⊕ ? DU CE	PLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO NTERLINE OF BOX UNLESS NOTED OTHERWISE.
140'	#6	MO MO OTI	DUBLE DUPLEX RECEPTACLE, NEMA 5–20R, ONE COVER PLATE, DUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED HERWISE.
130'	#12	⊕ ? BO BAI	X 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO CKSLPASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE
130'	#10	CE	NTERLINE OF BOX.
3.30'	#8	- ⊕ ? CE	NGLE RECEPTACLE, NEMA 6-30R, MOUNTED 18 A.F.F. TO NTERLINE OF BOX UNLESS NOTED OTHERWISE.
DN THE DRAWINGS	ARE MINIMUM SIZING CONDUCTORS AS	DU ? SE CE	PLEX RECEPTACLE WITH USB PORT, NEMA 5–20R PASS & YMOUR #TM826USBW OR EQUAL, MOUNTED 45" A.F.F. TO NTERLINE OF BOX UNLESS NOTED OTHERWISE.
TORS LARGER THA PROVIDE A JUNCTIC THE DEVICE.	N #10 DIRECTLY TO A N BOX TO DOWNSIZE		COMMUNICATIONS
N THOSE LISTED A	BOVE, CONSULT WITH		TA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX ILESS NOTED OTHERWISE.
GEAR		d DA CO MO	TA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE DUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH DUNT 6" ABOVE COUNTER. WHERE TELEPHONE/DATA OUTLET IS
WITCH. TEXT INDIG E TYPE; F—(RATING	CATES AMPACITY/NUMBER OF FUSES).	CE () () () () () () () () () () () () ()	RELESS ACCESS POINT BY OTHERS. PROVIDE A CAT6
ECT SWITCH. TEXT	INDICATES		
POLES/ENCLOSUF			INTRUSION DETECTION SYSTEM
F POLES/ENCLOSUF		0	INTRUSION DETECTION SYSTEM
	JERAL NOTES         ES ARE TO BE FLU         HALL BE GROUND         HALL BE WEATHERF         HALL BE NIGHT LIGITURE.         HALL BE PROVIDED         HALL BE TAMPER R         R TO EMERGENCY         SCONNECT PROVIDED         HALL BE TAMPER R         R TO EMERGENCY         SCONNECT PROVIDED         HALL BE TAMPER R         R TO EMERGENCY         SCONNECT PROVIDED         D OR SUSPENDED         D OR SUSPENDED         POLE LIGHT FIXTURE         POLE LIGHT FIXTURE.         CH WITH INTEGRAL         -THROW SWITCH.         LESS NOTED OTHER         CH WITH INTEGRAL         -THROW SWITCH.         LESS NOTED OTHER         CH WITH INTEGRAL         -THROW SWITCH.         LESS NOTED OTHER         CH WITH INTEGRAL         -THROW SWITCH.         ULTRASONIC DUA         MITH A 22' RADIAL         /ITCH #CM-PDT-D         D ULTRASONIC DUA         MITH A 20' RADIAL         /ITCH #CM-PDT-D	ELECTRIC/         IERAL NOTES         IS ARE TO BE FLUSH MOUNTED UNLESS         HALL BE GROUND FAULT CIRCUIT         HALL BE GROUND FAULT CIRCUIT         HALL BE WEATHER POOF WHILE-IN-USE.         HALL BE WEATHER FOOD AND INSTALLED WITH A         Light Fixture Schedule)         INTO EMERGENCY BATTERY PACKS.         SCONNECT PROVIDED WITH THE EQUIPMENT         SE Light Fixture Schedule)         INTO EMERGENCY FIXTURE.         SO OR SUSPENDED FIXTURE.         ID OR SUSPENDED FIXTURE.         IMERGENCY LIGHTING.         INTO REGENCY LIGHTING.         INTO REGENCY LIGHTING.         INTO REGENCY FIXTURE.         POLE LIGHT FIXTURE.         SWITCH #WSXA-POT OR NUT CENTERLINE OF BOX AT 45" A.F.F.         ONTED OTHERWISE.         OTHOR SWITCH #WSXA-POT OR NUT 45"A.F.F. UNLESS NOTED OTHERWISE.         D ULTRASONIC DUAL TECHNOLOGY WITH A 12" RADIAL COVERAGE. CELLING         OR APPROVED EQUAL.         D ULTRASONIC DUAL TECHNOLOGY WITH A 28" RADIAL COVERAGE. CELLING         OL CONDUCTOR DAS ARE MINIMUM         S	ELECTRICAL LE         IEFAL NOTES         IS ARE TO BE FLUSH MOUNTED UNLESS         HALL BE COUND FAULT CIRCUIT         AIL BE WEATHER ROOF WHILE IN-USE. INLL BE ANPER RESISTANT.         ALL BE PROVIDED AND INSTALLED WITH A HALL BE TAMPER RESISTANT.         ALL BE PROVIDED AND INSTALLED WITH A HALL BE TAMPER RESISTANT.         RE TO EMERGENCY BATTERY PACKS.         SCONNECT PROVIDED WITH THE EQUIPMENT SCONNECT PROVIDE OF SCHEDULE.         ID OR SUSPENDED FIXTURE.         ID OR SUSPENDED FIXTURE.         ID OR SUSPENDED EMERGENCY FIXTURE.         ID OR SUSPENDED EMERGENCY FIXTURE.         IMPROVED COLORY         INTEL INFORMAL OF BOX AT 45' AF.F.         OLIGHT FIXTURE.         INTROC DUAL TECHNOLOGY         INTROC DUAL TECHNOL

	LIGH	ITING FIX'	TURI	E SC	HEDULE
/PE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	EPANL-2X2-4800LM-80CRI-40K- MIN10-ZT-MVOLT	LED, 45W 4,843 LUMENS	RECESSED	
νE	LITHONIA	EPANL-2X2-4800LM-80CRI-40K- MIN10-ZT-MVOLT-E10WCP	LED, 45W 4,843 LUMENS	RECESSED	-WITH EMERGENCY BATTERY PACK.
3	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-40K 80CRI-WH	LED, 34.3W 4,585 LUMENS	SURFACE	
BE	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-40K 80CRI-WH-E10WLCP	LED, 34.3W 4,585 LUMENS	SURFACE	-WITH EMERGENCY BATTERY PACK.
С	LITHONIA	FEM-L48-3000LM-LPPCL-MD MVOLT-GZ10-40K-80CRI	LED, 18.1W 2,770 LUMENS	SURFACE	
ЭЕ	LITHONIA	FEM-L48-3000LM-LPPCL-MD MVOLT-GZ10-40K-80CRI-E10WMCP	LED, 18.1W 2,770 LUMENS	SURFACE	-WITH EMERGENCY BATTERY PACK.
)	LITHONIA	FEM-L48-6000LM-LPPCL-WD MVOLT-GZ10-40K-80CRI	LED, 37.8W 5,444 LUMENS	SURFACE	
-	LITHONIA	WDGE2-LED-P2-40K-80CRI-T4M MVOLT-DDBXD	LED, 10W 2,000 LUMENS	WALL	
Έ	LITHONIA	WDGE2-LED-P2-40K-80CRI-T4M MVOLT-E10WH-DDBXD	LED, 10W 2,000 LUMENS	WALL	-WITH EMERGENCY BATTERY PACK.
G	LITHONIA	EPANL-2X2-4000LM-80CRI-40K- MIN10-ZT-MVOLT	LED, 37W 4,121 LUMENS	RECESSED	
-	LITHONIA	FEM-L24-6000LM-LPPCL-WD MVOLT-GZ10-40K-80CRI	LED, 26W 3,788 LUMENS	SURFACE	
IE	LITHONIA	FEM-L24-6000LM-LPPCL-WD MVOLT-GZ10-40K-80CRI	LED, 26W 3,788 LUMENS	SURFACE	-WITH EMERGENCY BATTERY PACK.
J	VISA LIGHTING	OV2100-60-L40K(H)-MVOLT-WIDE SWF-6"-*	LED, 69W 6,900 LUMENS	SURFACE	*-SELECTED BY ARCHITECT.
X	LITHONIA	LQM-S-W-3-R-MVOLT-EL N	LED	WALL/ CEILING	-WITH EMERGENCY BATTERY PACK.
SA	LITHONIA	RSX1-LED-P3-40K-R4-XVOLT-SPA-DDBXD DM19AS-PER7-DLL480F-1.5-CUL-JU	LED, 109W 14,206 LUMENS	POLE	POLE #SSS-25'-4G'-DM19AS-DDBXD -WITH PHOTOCELL.
В	LITHONIA	RSX1-LED-P3-40K-R4-XVOLT-SPA-EGS DDBXD-DM19AS-PER7-DLL480F-1.5-CUL-JU	LED, 109W 14,206 LUMENS	POLE	POLE #SSS-25'-4G'-DM19AS-DDBXD -WITH PHOTOCELL.
C	LITHONIA	DSXF1-LED-P2-40K-FLMVOLT-IS-PE-DDBXD	LED, 42W 4,545 LUMENS	STANCHION	

![](_page_57_Figure_6.jpeg)

DATA RISER DIAGRAM E001 Scale: NONE

![](_page_57_Picture_11.jpeg)

![](_page_57_Picture_12.jpeg)

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![](_page_57_Picture_18.jpeg)

# Φ **ISSU** Bond District 00 Sch

![](_page_57_Picture_20.jpeg)

![](_page_57_Picture_22.jpeg)

Construction

Documents Project No 22034 March 6, 2023 Date Rev Date BRC CLG Revisions Drawn Checked

![](_page_57_Picture_25.jpeg)

![](_page_58_Figure_0.jpeg)

![](_page_58_Picture_4.jpeg)

![](_page_58_Picture_5.jpeg)

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![](_page_58_Picture_11.jpeg)

### $\mathbf{O}$ S S Ο Ш + U Stri 0 U S g

![](_page_58_Picture_13.jpeg)

![](_page_58_Picture_14.jpeg)

![](_page_58_Picture_15.jpeg)

Construction Documents 22034 Project No March 6, 2023 Date Rev Date Revisions Drawn BRC

Checked

CLG

![](_page_58_Picture_17.jpeg)

![](_page_59_Figure_0.jpeg)

![](_page_59_Picture_1.jpeg)

![](_page_59_Picture_2.jpeg)

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![](_page_59_Picture_8.jpeg)

## Φ ISSU O 0 Ш +---U Distrie 0 С C Ń

![](_page_59_Picture_10.jpeg)

![](_page_59_Picture_12.jpeg)

Construction Documents 22034 Project No March 6, 2023 Date Rev Date Revisions BRC CLG Drawn

Checked

![](_page_59_Picture_14.jpeg)

![](_page_60_Figure_0.jpeg)

![](_page_60_Picture_1.jpeg)

- POLE BASE PLATE AND BOLT PATTERN PER MANUFACTURER'S RECOMMENDATIONS.

----- BASE PLATE BOLT HOLE (TYP) - 18" DIAMETER CONCRETE FOUNDATION. - LIGHT FIXTURE ORIENTATION. (SEE SITE PLAN FOR ÒRIENTATION TO BUILDING.)

![](_page_60_Picture_11.jpeg)

![](_page_60_Picture_12.jpeg)

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Documents

Meridian High Baseball Field

E-003

RENOVATION SITE PLAN

Project No

Revisions

Date

Drawn Checked 22034

Rev Date

BRC CLG

March 6, 2023

![](_page_60_Picture_20.jpeg)

P	ANEL	LOCATION		LUG LOCATION	N: BOTTOM FEED				· · ·		PA	NEL	LOCATION	ELECTRICAL ROOM	LUG LOCATIO	N: BOTTOM FEED					
		VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	400A MAIN BRE	AKER						п	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	200A MAIN BREAK	(ER				
	HA	BUS:	400A	MOUNTING:	SURFACE		PANELBOARD AIC RA	ATING (A)	35,000		, r	Ъ	BUS:	200A	MOUNTING:	SURFACE		PANELBOARD AIC R	ATING (A):	22,000	3
CIRCUI	BR	EAKER			PHASE LOAD (K)	VA)		BR	EAKER	CIRCUIT	CIRCUIT	BRE	AKER	DECODIDITION		PHASE LOAD (KVA)	)	DECODIDITION	BRE/	AKER	CIRCU
NO.	AMPS	POLES	DESCRIPTION	А	В	C	DESCRIPTION	AMPS	POLES	NO.	NO.	AMPS	POLES	DESCRIPTION	A	В	С	DESCRIPTION	AMPS	POLES	NO.
1	20	2	LTS SITE	0.5 21.5	5		TRANSFORMER T1 - PANEL 'PA'	110	3	2	1	20	3	SPARE	0.0 21.	5		TRANSFORMER T2 - PANEL 'PB'	50	3	2
3	-	-	-		0.5 20.5		-	-	-	4	3	-	-	-	1	0.0 20.5	-	-		-	4
5			SPACE			0.0 14.4	-	-	-	6	5	-	-	-			0.0 14.4	.=		Ξ	6
7	200	3	PANEL 'HB'	43.7 12.6	6		HRU-1	80	3	8	7	20	3	POLE 'A1'	3.0 3.0	)		POLE 'A2'	20	3	8
9	-	-	-		42.7 12.6		-	-	-	10	9	-	-			3.0 3.0		-		Ξ	10
11	-	-	-			36.6 12.6	-	-	-	12	11	-	-	-			3.0 3.0	-		-	12
13	150	3	SPARE	21.9 0.0	)		SPARE	80	3	14	13	30	3	POLE 'B1'	4.3 4.3	3		POLE 'B2'	30	3	14
15	-	-	-		21.9 0.0		-	-	-	16	15	-	-	-		4.3 4.3		-		-	16
17	-	-	-			21.9 0.0	-	-	-1	18	17	-	-	-			4.3 4.3	-		-	18
19	30	3	SPARE	0.0 0.0			SPARE	30	3	20	19	30	3	POLE 'C1'	3.8 3.8	3		POLE 'C2'	30	3	20
21	-	-	-		0.0 0.0		-	-	-	22	21	-	-	-		3.8 3.8		-		-	22
23	-	-	-			0.0 0.0	-	-	-	24	23	-	-	-			3.8 3.8	-		-	24
25	30	3	SPARE	0.0 0.0			SPARE	30	3	26	25	30	3	SPARE	0.0 0.0	)		SPARE	30	3	26
27	-	-	-		0.0 0.0		-	-	_ 1	28	27	-	-	-		0.0 0.0		<u> </u>	-	-	28
29	-	-	-			0.0 0.0	-	-	-	30	29	-	-	-			0.0 0.0	-		-	30
TOTAL				100.1	98.2	85.4					TOTAL				43.7	42.7	36.6				
		1				1				1	P۵			PRESS POX							. <u>.</u>
F	ANEL	LOCATION		LUG LOCATIO	N: BOTTOM FEED								VOLT	208V/120V/ 3Ø AW							
PΔ	SEC 1	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	225A MAIN BRE	AKER W/FEED TH	RULUGS				F	РВ	BUS:	1004	MOUNTING					10 000	1
IA		BUS:	225A	MOUNTING:	RECESSED		PANELBOARD AIC R	<u>ATING (A)</u>	: <b>10,000</b>						MOONTING.			FANELBOARD AIC IV			
CIRCU	T BF	REAKER	DESCRIPTION		PHASE LOAD (K)	VA)	DESCRIPTION	BR	EAKER	CIRCUIT	CIRCUIT			DESCRIPTION	Δ.	PHASE LUAD (KVA)	<u> </u>	DESCRIPTION	AMDS		
NO.	AMPS	POLES		A	В	С		AMPS	POLES	NO.	NO.	AIVIP 3	FOLES		A		<u> </u>		AIVIPS	PULES	
1	20	1	SPARE	0.0 1.2	2		PANEL 'BC'	30	2	2	1	20	1		1.0 0.1	0.5 0.7	-	REC DUGOUT SOUTH	20	2	2
3	20	1	SPARE		0.0 0.0		-	-	-	4	5	20	1	LIS PRESS BOX, PRESS BOX STORAGE		0.5 0.7	0.2 0.2		20	-	4
5	20	1	LTS FLAG POLE			0.2 0.5	TDBB-1	20	1	6	2	20	1	LIS PRESS BUX, PRESS BUX STURAGE			0.2 0.2		20	1	6
7	20	1	LTS MECH/ELEC, TEAM, CORRIDOR	1.2 0.5	5		TDBB-1	20	1	8	/	20	1		0.5 0.2		-		20	1	8
9	20	1	LTS OFFICES, STORAGE, TRAIN, LAUNDRY	′	1.3 1.3		REC MECH/ELEC, CORRIDOR	20	1	10	9	<u>20</u>	1			0.5 0.7	20 07		20	1	10
11	20	1	LTS EXTERIOR			0.3 1.6	REC TEAM ROOM	20	1	12	12	00	2	000-03	20 00		2.9 0.7		20	1	14
13	20	1	LTS CONCESSION, TICKET, STOR, TOILETS	6 1.1 0.7	7		REC SOFTBALL, BASEBALL LOCKER ROOMS	6 20	1	14	15	15	- 0		2.9 0.8				20	1	14
15	30	2	CU-1		1.5 0.9		REC OFFICE 103	20	1	16	17	15	2	100-03-0104		0.3 1.1	03 11		20	1	10
17	-	-	-			1.5 0.9	REC OFFICE 104	20	1	18	10	20	-		0.5 1.4		0.0 1.1		20	1	20
1											1.51		1								

PA	NFI			LUG LOCATION	BOTTOM FEED					PANEL	LOCATION	PRESS BOX	LUG LOCATION	BOTTOM FEED		
• •		VOLT.	208Y/120V 3Ø 4W	MAIN BUS	2254 MAIN BREA	KER W/FEED TH	RUTUGS			DD	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY		
PA -	SEC.1	BUS:	2254	MOUNTING:	RECESSED				000	PD	BUS:	100A	MOUNTING:	SURFACE	PANELBOARD AIC	RATING (A): 10,000
	DDD	AKED				(A)					BREAKER	DECODIDITION		PHASE LOAD (KVA)	DECODIDITION	BREAKER CIRCUIT
CIRCUIT			DESCRIPTION	Δ			DESCRIPTION			NO. AMP	S POLES	DESCRIPTION	A	B C	DESCRIPTION	AMPS POLES NO.
NU.	AIVIPS	POLES		A	D	U		AIVIPS PUL	ES NU.	1 20	1	LTS - STADIUM	10 07		REC - DUGOUT SOUTH	20 2 2
1	20	1	SPARE	0.0 1.2			PANEL 'BC'	30 2	2 2	3 20	1	LTS - PRESS BOX PRESS BOX STORAGE	1.0 0.1	0.5 0.7	REC DUGOUT SOUTH	20 - 4
3	20	1	SPARE	_	0.0 0.0		-		. 4	5 20	1	LTS - PRESS BOX PRESS BOX STORAGE	-		REC - DUGOUT SOUTH	20 1 6
5	20	1	LTS FLAG POLE			0.2 0.5	TDBB-1	20 1	6	7 20	1		0.5 0.2	0.2 0.2	REC DUGOUT NORTH	
7	20	1	LTS MECH/ELEC, TEAM, CORRIDOR	1.2 0.5			TDBB-1	20 1	8	9 20	1		0.0 0.2	0.5 0.7		
9	20	1	LTS OFFICES, STORAGE, TRAIN, LAUNDRY		1.3 1.3		REC MECH/ELEC, CORRIDOR	20 1	<mark>1</mark> 0	11 50	2		-			
11	20	1	LTS EXTERIOR			0.3 1.6	REC TEAM ROOM	20 1	12	12	2	000-03	20 00	2.9 0.7		
13	20	1	LTS CONCESSION, TICKET, STOR, TOILETS	1.1 0.7			REC SOFTBALL, BASEBALL LOCKER ROOMS	6 20 1	14	15 -	-	-	2.9 0.9		REC PRESS BUX STURAGE	
15	30	2	CU-1		1.5 0.9		REC OFFICE 103	20 1	16	10 10	2	1D0-03-0104	-		REC. PRESS 304	
17	-	-	-			1.5 0.9	REC OFFICE 104	20 1	18	17 -	-			0.3 1.1	REC PRESS 300	20 1 18
19	15	2	DCU-01/DSS-01	0.9 0.9			REC OFFICE 105	20 1	20	19 20	1	POWER FOR ADA LIFT	0.5 1.1		REC PRESS 306	
21	-	-	-		0.9 1.3		REC STORAGE, TRAIN, LAUNDRY	20 1	22	21 20	1	SPARE	_	0.0 1.1	REC PRESS 307	20 1 22
23	15	2	DCU-02/DSS-02			09 07	REC WOMENS & MENS TENNIS LOCKER ROOM	20 1	24	23 20	1	SPARE		0.0 0.4	REC STADIUM	20 1 24
25	-	-		0.9 0.9	-		REC - EXTERIOR	20 1	26	25 20	1	SPARE	0.0 0.4		REC STADIUM	20 126
20	15	2	DCI I-03/DSS-03	0.0 0.0	09 08		REC - CONCESSIONS	20 1	28	27 20	1	SPARE		0.0 0.4	REC STADIUM	20 1 28
20	-	-	-	-	0.0 0.0	09 02		20 1	30	29 20	1	SPARE		0.0 0.4	REC STADIUM	20 1 30
20	35	2		18 02	-	0.0 0.2		20	30	TOTAL			8.1	5.3 6.2		
22		2	WASHER	1.0 0.2	18 0.2	-		20	34							
25	- 15	-		-	1.0 0.2	05 02		20	26							
30	10	1		0.2 0.2	-	0.3 0.2		20	30	PANEL	LOCATION		LUG LOCATION	I: BOTTOM FEED		
37	20	1		0.3 0.2	47 00	-		20	38	PC	VOLT:	208/120V, 1Ø, 3W	MAIN BUS:	30A MAIN BREAKER	NEMA 3R ENCLOSU	Æ
39	25	1		_	1.7 0.2		REC CONCESSIONS	20	40	BC	BUS:	30A	MOUNTING:	SURFACE	PANELBOARD AIC	RATING (A): 10,000
41	20	1	VVH-01/CP-01			0.5 0.2	REC CONCESSIONS	20 1	42	CIRCUIT	BREAKER	DECODIDITION		PHASE LOAD (KVA)	DECODIDITION	BREAKER CIRCUIT
43	20	1	SPARE	0.0 0.2			REC CONCESSIONS	20 1	44	NO. AMP	S POLES	DESCRIPTION		L1 L2	DESCRIPTION	AMPS POLES NO.
45	20	1	WH-02	_	0.5 0.2		REC CONCESSIONS	20 1	46	1 20	1	LTS - BATTING CAGES	0.5	0.7	REC - BATTING CAGES	20 1 2
47	20	1	SCOREBOARD(BASE BID)			1.0 0.5	REC TICKETS	20 1	48	3 20	1	SPARE	0.0		SPARE	
49	50	2	ODU-01	3.8 1.1			REC STORAGE, MEN AND WOMENS TLT	20 1	50	5 20	1	SPARE	0.0	0.0	SPARE	
51	-	-	-		3.8 0.2		IDU-2-0102	15 2	2 52	7 20	1	SPARE	0.0		SPARE	
53	20	1	SPARE			0.0 0.2	-		54	9 20	1	SPARE	0.0	0.0	SPARE	
TOTAL				15.8	17.2	10.0				5 20				0.0		20 1 10
				15.0	17.5	10.8				11 20	1	SPARE	0.0	0.0 0.0	SPARE	20 1 12
				10.0	17.5	10.8				11 20	1	SPARE	0.0	0.0 0.0	SPARE	20 1 12
- P/-	NEL	LOCATION:	ELECTRICAL ROOM		TOP FEED	10.0				11 20 TOTAL	1	SPARE		0.0         0.0           1.2         0.0	SPARE	20 1 12
P/		LOCATION:	ELECTRICAL ROOM 208Y/120V. 3Ø. 4W		TOP FEED	-Y				11 20 TOTAL				0.0 0.0 1.2 0.0	SPARE	20 1 12
PA -	NEL SEC. 2	LOCATION: VOLT: BUS:	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A	LUG LOCATION: MAIN: MOUNTING:	TOP FEED MAIN LUGS ONL	Y	PANEL BOARD AIC RA	ATING (A) <sup>.</sup>	).000	11 20 TOTAL		I: BATTING CAGE		0.0 0.0 1.2 0.0 1.2 0.0	SPARE	20 1 12
PA -	NEL SEC. 2	LOCATION: VOLT: BUS:	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A	LUG LOCATION: MAIN: MOUNTING:	TOP FEED MAIN LUGS ONL RECESSED		PANELBOARD AIC RA	ATING (A): 10	),000	11 20 TOTAL PANEL GS	LOCATION VOLT:	I: BATTING CAGE 208/120V, 1Ø, 3W	LUG LOCATION MAIN BUS:	0.0 0.0 1.2 0.0 3: BOTTOM FEED 60A MAIN BREAKER SUBEACE		
PA -	NEL SEC. 2	LOCATION: VOLT: BUS: AKER	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION	LUG LOCATION: MAIN: MOUNTING:	TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV	 _Y	PANELBOARD AIC RA	ATING (A): 10 BREAKER	0,000 CIRCUIT	11 20 TOTAL PANEL GS	LOCATION VOLT: BUS:	E BATTING CAGE 208/120V, 1Ø, 3W 60A	LUG LOCATION MAIN BUS: MOUNTING:	0.0 0.0 1.2 0.0 SUBOTTOM FEED 60A MAIN BREAKER SURFACE	SPARE PANELBOARD AIC	RATING (A): 10,000
PA - CIRCUIT NO.	NEL SEC. 2 BRE AMPS	LOCATION: VOLT: BUS: AKER POLES	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION	LUG LOCATION: MAIN: MOUNTING:	: TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV B	 _Y  (A) C	PANELBOARD AIC RA	ATING (A): 10 BREAKER AMPS POL	0,000 CIRCUIT ES NO.	11 20 TOTAL PANEL GS CIRCUIT	LOCATION VOLT: BUS: BREAKER	I: BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION	LUG LOCATION MAIN BUS: MOUNTING:	0.0         0.0           1.2         0.0           60A MAIN BREAKER         5000000000000000000000000000000000000	SPARE PANELBOARD AIC DESCRIPTION	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT
PA - CIRCUIT NO. 55	NEL SEC. 2 BRE AMPS 50	LOCATION: VOLT: BUS: AKER POLES 2	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3	TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV B	-Y /A) C	PANELBOARD AIC RA	ATING (A): 10 BREAKER AMPS POL 15 2	0,000 CIRCUIT ES NO. 2 56	11 20 TOTAL PANEL GS CIRCUIT I NO. AMP	LOCATION VOLT: BUS: BREAKER S POLES	I: BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION	LUG LOCATION MAIN BUS: MOUNTING:	0.0         0.0           1.2         0.0           60A MAIN BREAKER         500 (KVA)           PHASE LOAD (KVA)         1	SPARE PANELBOARD AIC DESCRIPTION	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES
PA - CIRCUIT NO. 55 57	NEL SEC. 2 BRE AMPS 50	LOCATION: VOLT: BUS: AKER POLES 2 -	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3	TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV B 2.9 0.3	A) C	- DESCRIPTION	ATING (A): 10 BREAKER AMPS POI 15 2 -	0,000 CIRCUIT LES NO. 2 56 58	1120TOTALPANELGSCIRCUITNO.AMP120	LOCATION VOLT: BUS: BREAKER S POLES 1	I: BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE	LUG LOCATION MAIN BUS: MOUNTING:	0.0         0.0           1.2         0.0           60A MAIN BREAKER         60A MAIN BREAKER           SURFACE         9HASE LOAD (KVA)           L1         L2	SPARE PANELBOARD AIC DESCRIPTION SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES           20         1         2
PA - CIRCUIT NO. 55 57 59	NEL SEC. 2 BRE AMPS 50 - 40	LOCATION: VOLT: BUS: AKER POLES 2 - 2	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE)	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3	TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV B 2.9 0.3	A) 3.1 0.5	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL	ATING (A): 10 BREAKER AMPS POI 15 2  20 1	0,000 CIRCUIT ES NO. 2 56 58 60	11         20           TOTAL         PANEL           GS         CIRCUIT         I           NO.         AMP         1         20           3         20         3         20	LOCATION VOLT: BUS: BREAKER S POLES 1 1	E BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING:	0.0     0.0       1.2     0.0       60A MAIN BREAKER       SURFACE       PHASE LOAD (KVA)       L1     L2       0.0     0.0       0.0     0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES           20         1         2           20         1         4
PA - CIRCUIT NO. 55 57 59 61	NEL SEC. 2 BRE AMPS 50 - 40 -	LOCATION: VOLT: BUS: AKER POLES 2 - 2 - 2 -	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE) -	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3 3.1 0.5	TOP FEED MAIN LUGS ONL RECESSED PHASE LOAD (KV B 2.9 0.3	-Y (A) 3.1 0.5	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL REC WHIRLPOOL	ATING (A): 10 BREAKER AMPS POL 15 2  20 1 20 1	0,000 CIRCUIT ES NO. 2 56 58 60 62	11         20           TOTAL         PANEL           GS         CIRCUIT         I           NO.         AMP         1         20           3         20         5         20	I LOCATION VOLT: BUS: BREAKER S POLES 1 1 1	I: BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING: 0.0	0.0       0.0         1.2       0.0         60A MAIN BREAKER         60A MAIN BREAKER         SURFACE         PHASE LOAD (KVA)         L1       L2         0.0       0.0         0.0       0.0         0.0       0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES           20         1         2           20         1         4           20         1         6
PA - CIRCUIT NO. 55 57 59 61 63	NEL SEC. 2 BRE AMPS 50 - 40 - 20	LOCATION: VOLT: BUS: AKER POLES 2 - 2 - 2 - 1	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE) - SPARE	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3 3.1 0.5	TOP FEED       MAIN LUGS ONL       RECESSED       PHASE     LOAD (KV       2.9     0.3       0.0     0.0	A) C 3.1 0.5	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL REC WHIRLPOOL SPARE	ATING (A): 10 BREAKER AMPS POL 15 2  20 1 20 1	0,000 CIRCUIT ES NO. 2 56 58 60 62 64	II         20           TOTAL         TOTAL           PANEL         GS           CIRCUIT         I           NO.         AMP           1         20           3         20           5         20           7         20	LOCATION VOLT: BUS: BREAKER S POLES 1 1 1 1	I: BATTING CAGE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING: 0.0	0.0       0.0         1.2       0.0         60A MAIN BREAKER         60A MAIN BREAKER         SURFACE         PHASE LOAD (KVA)         L1       L2         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES           20         1         2           20         1         2           20         1         6           20         1         8
PA - CIRCUIT NO. 55 57 59 61 63 65	NEL SEC. 2 BRE AMPS 50 - 40 - 20 20	LOCATION: VOLT: BUS: AKER POLES 2 - 2 - 2 - 1 1 1	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE) - SPARE SPARE	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3 3.1 0.5	ITTOP FEED       MAIN LUGS ONL       RECESSED       PHASE     LOAD (KV       2.9     0.3       0.0     0.0	A) A) C 3.1 0.0 0.0 0.0	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL REC WHIRLPOOL SPARE SPARE SPARE	ATING (A): 10 BREAKER AMPS POI 15 2  20 1 20 1 20 1 20 1	0,000 CIRCUIT LES NO. 2 56 58 60 62 64 66	11         20           TOTAL         PANEL           GS         CIRCUIT         I           NO.         AMP         1         20           3         20         5         20           7         20         9         20	LOCATION VOLT: BUS: BREAKER S POLES 1 1 1 1 1 1	SPARE SPARE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING: 0.0	0.0       0.0         1.2       0.0         60A MAIN BREAKER         60A MAIN BREAKER         SURFACE         PHASE LOAD (KVA)         L1       L2         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUN           AMPS         POLES           20         1           20         1           20         1           20         1           20         1           20         1           20         1           20         1           20         1           20         1           20         1
PA - CIRCUIT NO. 55 57 59 61 63 63 65 67	NEL SEC. 2 AMPS 50 - 40 - 20 20 20	LOCATION: VOLT: BUS: AKER POLES 2 - 2 - 1 1 1 1 1	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE) - SPARE SPARE SPARE	LUG LOCATION: MAIN: MOUNTING: 2.9 0.3 2.9 0.3 3.1 0.5 0.0 0.0	ITT.3       TOP FEED       MAIN LUGS ONL       RECESSED       PHASE     LOAD (KV       B       2.9     0.3       0.0     0.0	A) C 3.1 0.5 0.0 0.0	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL REC WHIRLPOOL SPARE SPARE SPARE SPARE	ATING (A): 10 BREAKER AMPS POI 15 2  20 1 20 1 20 1 20 1 20 1	2,000 CIRCUIT ES NO. 2 56 58 60 62 64 64 66 68	11         20           TOTAL         PANEL           GS         CIRCUIT         I           NO.         AMP         1         20           3         20         5         20           7         20         9         20           11         20         20         1	I LOCATION VOLT: BUS: BREAKER S POLES 1 1 1 1 1 1 1 1 1 1	SPARE SPARE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING: 0.0 0.0	0.0       0.0         1.2       0.0         60A MAIN BREAKER         60A MAIN BREAKER         SURFACE         PHASE LOAD (KVA)         L1       L2         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUIT           AMPS         POLES         NO.           20         1         2           20         1         2           20         1         6           20         1         8           20         1         10           20         1         12
PA - CIRCUIT NO. 55 57 59 61 63 63 65 67 69	NEL SEC. 2 BRE AMPS 50 - 40 - 20 20 20 20 20	LOCATION: VOLT: BUS: AKER POLES 2 - 2 - 1 1 1 1 1 1	ELECTRICAL ROOM 208Y/120V, 3Ø, 4W 225A DESCRIPTION ODU-02 - SCOREBOARD - VIDEO BOARD(ALTERNATE) - SPARE SPARE SPARE SPARE SPARE	LUG LOCATION: MAIN: MOUNTING: A 2.9 0.3 3.1 0.5 0.0 0.0	Image: Transmission of the sector of the	A) 3.1 0.5 0.0 0.0	PANELBOARD AIC RA DESCRIPTION IDU-1-0103 - REC WHIRLPOOL REC WHIRLPOOL SPARE SPARE SPARE SPARE SPARE SPARE	ATING (A): 10 BREAKER AMPS POL 15 2  20 1 20 1 20 1 20 1 20 1 20 1	0,000         CIRCUIT         .ES         NO.         2         56         58         60         62         64         66         68         70	11         20           TOTAL         PANEL           GS         CIRCUIT         I           NO.         AMP         1         20           3         20         5         20           7         20         9         20           11         20         1         20	I I I I I I I I I I I I I I I I I I I	SPARE SPARE 208/120V, 1Ø, 3W 60A DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LUG LOCATION MAIN BUS: MOUNTING: 0.0 0.0	0.0       0.0         1.2       0.0         60A MAIN BREAKER         60A MAIN BREAKER         SURFACE         PHASE LOAD (KVA)         L1       L2         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0         0.0       0.0	SPARE PANELBOARD AIC DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE	20         1         12           RATING (A):         10,000           BREAKER         CIRCUII           AMPS         POLES           20         1         2           20         1         2           20         1         6           20         1         8           20         1         10           20         1         12

PA	NEL	LOCATION:	ELECTRICAL ROOM	LUG LO	CATION:	TOP FEED													N	
DA		VOLT:	208Y/120V, 3Ø, 4W	MAIN:		MAIN LUGS O	NLY							PA	NEL	LOCATION	BATTING CAGE		LUG LOCATION	I: BOT
PA-	SEC. 2	BUS:	225A	MOUNT	ING:	RECESSED				PANELBOARD AIC RA	ATING (A):	10,000				VOLT: 208/120V. 1Ø. 3W			MAIN BUS:	60A
CIRCUIT	BRE	AKER	DESCRIPTION			PHASE LOAD (	KVA)				BRE	AKER	CIRCUIT	G	S	BUS:	60A		MOUNTING:	SUR
NO.	AMPS	POLES	DESCRIPTION		Α	B		С	DESC	RIPTION	AMPS	POLES NO.		CIRCUIT	BRE	AKER				PHAS
55	50	2	ODU-02	2.9	0.3				IDU-	-0103	15	2	56	NO.	AMPS	POLES	-	DESCRIPTION		L1
57	-	-	-			2.9 0.3	3			-	-	-	58	1	20	1		SPARE	0.0	0
59	40	2	SCOREBOARD - VIDEO BOARD(ALTERNATE)				3.1	0.5	REC V	/HIRLPOOL	20	1	60	3	20	1		SPARE		
<mark>61</mark>	-	-	-	3.1	0.5				REC V	/HIRLPOOL	20	1	62	5	20	1		SPARE	0.0	0.
63	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	64	7	20	1		SPARE		
65	20	1	SPARE				0.0	0.0	SF	ARE	20	1	66	9	20	1		SPARE	0.0	0
67	20	1	SPARE	0.0	0.0				SF	ARE	20	1	68	11	20	1		SPARE		
69	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	70	TOTAL						0.0
71	20	1	SPARE				0.0	0.0	SF	ARE	20	1	72							
73	20	1	SPARE	0.0	0.0				SF	ARE	20	1	74							
75	20	1	SPARE			0.0 0.0	)	-	SF	ARE	20	1	76							
77	20	1	SPARE		_		0.0	0.0	SF	ARE	20	1	78							
79	20	1	SPARE	0.0	0.0				SF	ARE	20	1	80							
81	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	82							
83	20	1	SPARE		_		0.0	0.0	SF	ARE	20	1	84							
85	20	1	SPARE	0.0	0.0				SF	ARE	20	1	86							
87	20	1	SPARE			0.0 0.0	)	_	SF	ARE	20	1	88							
89	20	1	SPARE				0.0	0.0	SF	ARE	20	1	90							
91	20	1	SPARE	0.0	0.0				SF	ARE	20	1	92							
93	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	94							
95	20	1	SPARE				0.0	0.0	SF	ARE	20	1	96							
97	20	1	SPARE	0.0	0.0				SF	ARE	20	1	98							
99	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	100							
101	20	1	SPARE				0.0	0.0	SF	ARE	20	1	102							
103	20	1	SPARE	0.0	0.0				SF	ARE	20	1	104							
105	20	1	SPARE			0.0 0.0	)		SF	ARE	20	1	106							
107	20	1	SPARE				0.0	0.0	SF	ARE	20	1	108							
TOTAL				(	6.9	3.2		3.6												

![](_page_61_Picture_3.jpeg)

![](_page_61_Picture_4.jpeg)

### Architects

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![](_page_61_Picture_10.jpeg)

## Issue Ο Ο Ď ÷ District 00 Sch Meridian

![](_page_61_Picture_12.jpeg)

![](_page_61_Picture_13.jpeg)

Construction

Documents

Project No

Revisions

Date

Drawn Checked 22034

Rev Date BRC CLG

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March 6, 2023

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1.	SPORTS LIGHTING POLE FOU

### GENERAL NOTES

Description

PROVIDE QUAZITE PULLBOXES AS NEEDED SO THAT TOTAL BENDS SHALL NOT EXCEED 360 DEGREES.

3. DO NOT ROUTE CONDUITS UNDER THE FIELD.

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	Α
		70'	1	TLC-RGBW	0.64 kW	А
		16'	1	TLC-BT-575	0.58 kW	А
		16'	1	TLC-RGB	0.64 kW	В
B1-B2	80'	80'	6	TLC-LED-1500	8.46 kW	А
		80'	1	TLC-RGBW	.64 kW	А
		16'	1	TLC-BT-575	.58 kW	А
		19'	1	TLC-RGB-U	.43 kW	В
C1-C2	70'	70'	5	TLC-LED-1500	7.05 kW	А
		70'	1	TLC-RGBW	.64 kW	А
		16'	2	TLC-BT-575	1.15 kW	А
		16'	1	TLC-RGB	.64 kW	А
6			50		52.24 kW	

Circuit Sur	nmary		
Circuit	Description	Load	Fixture Qty
А	BASEBALL	48.82 kW	44
В	RGB-U	3.42 kW	6
		52.24 kW	50

Fixture Type S	Summary											
Тур	Type S		ource			Wattage	L	umens	L90	L80	L70	Quantity
TLC-RGI	BW	LED 57	)0K - 75 CRI			1430W	1	60,000	>120,000	>120,000	>120,000	52
TLC-LED	TLC-LED-1500 LED 570		0K - 75 CRI			580W	30W 65,6		>120,000	>120,000	>120,000	4
TLC-BT	TLC-BT-575 LED 57		)0K - 75 CRI			1170W	1	36,000	>120,000	>120,000	>120,000	2
TLC-LED	TLC-LED-1200		LED 5700K - 75 CRI					52,000	>120,000	>120,000	>120,000	10
TLC-R	TLC-RGB		LED 5700K - 75 CRI			575W		52,000	>120,000	>120,000	>120,000	10
TLC-R0	TLC-RGB-U		RED-GREEN (Shown)-BLUE					52,000	>120,000	>120,000	>120,000	10
Lighting Level	Summary											
Grid Name	Grid Name Calculation Metric		lation Metric Illumina				tion					
Ond Mame			Ave	Min	Max	Max/Min	Ave/Min	Circuit	<u> </u>			
Baseball Spill	Horizont	al Illuminance	0.05	0.01	0.15	14.78	4.94	A	44			
Baseball Spill	Max Candela Metric		3452	1293	5844	4.52	2.67	A	44			

Baseball Spill Max Vert	Max Vertical Illuminance Metric		0.04	0.25	5.81	3.10	А	44
Baseball (Infield) Horiz	zontal Illuminance	55	44	62	1.42	1.25	A,B	50
Baseball (Outfield) Horiz	zontal Illuminance	33.1	21	47	2.17	1.58	A,B	50

![](_page_62_Figure_9.jpeg)

![](_page_63_Figure_0.jpeg)

![](_page_63_Figure_1.jpeg)

![](_page_63_Picture_2.jpeg)

Meridian High Baseball Field **E-101A** FIELD HOUSE LIGHTING PLAN

![](_page_64_Figure_0.jpeg)

## $\underbrace{1}{E-101\text{ g}} \frac{\text{STADIUM - LIGHTING PLAN BASE BID}}{\text{Scale: } 1/8" = 1'-0"}$

![](_page_64_Picture_6.jpeg)

![](_page_64_Picture_7.jpeg)

Meridian High Baseball Field **E-101B** FIELD HOUSE LIGHTING PLAN

![](_page_65_Figure_0.jpeg)

![](_page_65_Picture_2.jpeg)

![](_page_65_Picture_3.jpeg)

![](_page_66_Figure_0.jpeg)

![](_page_66_Figure_1.jpeg)

 $\underbrace{\frac{2}{\text{E-131b}}}_{\text{Scale: 1/4"}} \frac{\text{PRESS BOX LEVEL 2 - LIGHTING PLAN}}{\text{Scale: 1/4"} = 1'-0"}$ 

![](_page_66_Figure_3.jpeg)

![](_page_66_Figure_6.jpeg)

![](_page_66_Figure_8.jpeg)

![](_page_66_Picture_9.jpeg)

![](_page_66_Picture_11.jpeg)

![](_page_67_Figure_0.jpeg)

![](_page_67_Picture_1.jpeg)

![](_page_67_Picture_2.jpeg)

OVERALL LIGHTING PLAN - BASE BID

![](_page_68_Figure_0.jpeg)

![](_page_68_Figure_1.jpeg)

![](_page_68_Picture_2.jpeg)

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![](_page_68_Picture_3.jpeg)

![](_page_69_Figure_0.jpeg)

![](_page_69_Picture_1.jpeg)

![](_page_69_Picture_2.jpeg)

![](_page_70_Figure_0.jpeg)

![](_page_70_Picture_2.jpeg)

![](_page_70_Picture_3.jpeg)

![](_page_71_Figure_0.jpeg)

![](_page_71_Figure_1.jpeg)

![](_page_71_Figure_5.jpeg)

![](_page_71_Picture_6.jpeg)

![](_page_71_Picture_7.jpeg)






















## Architects

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201 Park Court Suite B Ridgeland, MS 39157 p 601.790.9432

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Area Summary -	New &	Conditioned
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Room Name	Construction Designation	Conditioning	Area
Dua Out	Νοω	None	62 SE
Dugout	New	None	502 SI
Equipmont	New	None	70 QE
	New	None	70 SF
	New	None	
Storage	New	None	
Storage	INEW	none	903 SF
Baseball	New	Yes	345 SF
Concessions	New	Yes	338 SF
Corridor	New	Yes	947 SF
Laundry	New	Yes	256 SF
Lobby	New	Yes	174 SF
 Mech/Elec	New	Yes	139 SF
Mns	New	Yes	185 SF
Mns Public Toilets	New	Yes	284 SF
Mns Tns	New	Yes	240 SF
Office	New	Yes	131 SF
Office	New	Yes	136 SF
Office	New	Yes	136 SF
Softball	New	Yes	353 SF
Stor	New	Yes	80 SF
Stor	New	Yes	157 SF
Stor.	New	Yes	234 SF
Stors	New	Yes	236 SF
Team	New	Yes	363 SF
Team	New	Yes	363 SF
Tickets	New	Yes	123 SF
Tlt	New	Yes	54 SF
Tlt	New	Yes	54 SF
Tlt	New	Yes	51 SF
Tlt	New	Yes	48 SF
Tlt	New	Yes	48 SF
Train		Yee	256 SF
Wmns		Yee	185 SF
Wmns Public Toilets	New	Yes	288 SF
Wms Tns		Vee	248 SF
	TACAA	100	6452 SF
Press	New	Yes	159 SF
Press	New	Yes	107 SF
Press	New	Yes	107 SF
Press	New	Yes	159 SF
Storage	New	None	219 SF
Storage	New	None	159 SF
Storage	New	None	159 SF
~			1071 SF

Grand total: 42

Composite Floor Plan - Net Area Summary - Base Bid 2

8426 SF



Composite Floor Plan - Net Area Summary - With Alt 001 3

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General Areas





Stadium Rooft 🖛



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Baseball/Softball MS 39305 Meridian, School St, 32nd High 2320 Meridian Construction Documents 22034-03 Project No March 6, 2023 Date PPu Drawn RBI Checked Revision Date # RC101

Architectural Site Layout