### ADDENDUM NO. 2

June 2, 2023

#### **Carmel High School Stadium South Support Building**

E. 136<sup>th</sup> Street Carmel. IN 46032

#### TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, Specifications, and Drawings dated December 13, 2022, by Fanning Howey. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through 2-2 and attached Fanning Howey Associates, Inc. Addendum No. 2 dated June 1, 2023, consisting of 3 pages, revised Specification Section 27 51 11 – Public Address and Mass Notification Systems, and revised Drawings G2.1, SU1.1, SU2.11, A7.01, A7.02, A7S.01, E1.1, and T1.02.

#### A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

#### A. Bid Category No. 1 – General Trades

Add the following Clarification

23. Reference attached sheet G1.4 for work to be included within this project.

#### F. Bid Category No. 6 – Electrical and Technology

Replace the following Clarification

12. Use existing underground conduit to Carmel High School for Fiber.

#### B. SPECIFICATION SECTION 01 21 00 - ALLOWANCES

1. Paragraph 3.01 Product Allowance

Add the following Allowances

C. Bid Category No. 6 Electrical and Technology Light Fixture LS1 \$13,000

**CONSTRUCTION DOCUMENTS** 

HOWEY

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PROJECT MANAGER: PMR DRAWN BY: ARS

PROJECT NUMBER: 220136.00

PROJECT ISSUE DATE: 04.26.2023 REV. DESCRIPTION

SITE PLAN - SOUTHEAST

Call before you dig. Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

# **CAUTION!!**

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

LEGEND

#### ADDENDUM NO.2

#### Carmel Stadium South Support Building

Project No. 220136.00

Carmel Clay Schools Carmel, Indiana

#### **Index of Contents**

Addendum No. 2, 7 items, 3 pages
Revised Project Manual Sections: 27 51 11 – Public Address and Mass Notification Systems
Revised Drawing Sheets: G2.1, SU1.1, SU2.11, A7.01, A7.02, A7S.01, E1.1 and T1.02

Date: June 1, 2023

## FANNING/HOWEY ASSOCIATES, INC. ARCHITECTS/ENGINEERS/CONSULTANTS



Paul A. Miller, License No. AR10800161 Expiration Date: 12/31/2023

#### TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 2 to Drawings and Project Manual, dated April 26, 2023 for Carmel High School South Support Building for Carmel Clay Schools, 5201 East Main Street, Carmel, Indiana 46033; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

#### RE: ALL BIDDERS

#### ITEM NO. 1. REVISED PROJECT MANUAL SECTIONS

A. Section 27 51 11 – Public Address and Mass Notification Systems has been revised, dated 6/1/23, and is included with and hereby made a part of this Addendum.

#### ITEM NO. 2. PROJECT MANUAL, SECTION 10 51 13 - METAL LOCKERS

- A. Add 2.3, D., 1., as follows:
  - "1. Provide bolt assembly for anchoring Geartopper to mounting plate within locker assembly."
- B. Delete 2.5, J., 1., in its entirety.
- C. Add 2.5, J., 5., as follows:
  - "5. Equipment Topper: Top of Locker fixed mounted Geartopper by GearGrid Corporation or equal.
    - a. One inch diameter tube in configuration to store shoulder pads and helmets
    - b. Finish: Powdercoated as selected from Manufacturer's 15 standard colors.
    - c. Dimensions: Approximately 21 inches wide x 24.5 inches high.
    - d. Provide 3/16 inch thick steel mounting plate for interior of open locker.
- D. Add 3.2, C., 7., as follows:
  - "7. Install Geartopper assembly onto top lockers using bolt assembly where indicated."

## ITEM NO. 3. <u>PROJECT MANUAL, SECTION 12 32 16 – MANUFACTURED PLASTIC-LAMINATE-FACED (EDUCATIONAL) CASEWORK</u>

- A. Add 1.1, A., 4., as follows:
  - "4. Quartz surfacing countertops."
- B. Article 2.3: Change second subparagraph "A" noting Solid-Surfacing Material, to "L.".

#### C. Add 2.3, M., as follows:

- "M. Quartz Surfacing: Material comprised of up to 93 percent crushed quartz aggregate combined with polymer resins and pigments and fabricated into slabs using vacuum vibro-compaction process.
  - 1. Manufacturer: Caesarstone U.S.A., Inc. or equal.
  - 2. Thickness: 3/4 inch, minimum.
  - 3. Identification: Labeled with batch number and manufacturer's imprinted identifying mark on back.
  - 4. Finish: Polished.
  - 5. Color: As indicated on List of Finishes."

#### D. Add 2.10, D., as follows:

- "D. Quartz countertops: 3/4 inch minimum quartz surfacing slabs in configuration indicated on Drawings.
  - 1. Core Material: Particleboard made with exterior glue, 1 inch 1/18 inch thick either fully supported or in a framework configuration as recommended by fabricator.
  - 2. Edges: Beveled
  - 3. Outside corners: Square
  - 4. Mounting Adhesives: Provide structural-grade silicone or epoxy adhesives as recommended by manufacturer for application and condition of use.
  - 5. Fabricate tops in one pieces to greatest extent possible. Joint type where required shall be bonded.
  - 6. Provide shop-applied edges of same material and thickness.
  - 7. Provide backsplash and endsplash in solid 3/4 inch materials, field applied.
  - 8. Color: As selected from manufacturers standard or as listed in the "List of Finishes"."

#### ITEM NO. 4. PROJECT MANUAL, SECTION 27 13 23 FIBER BACKBONE

- A. Replace paragraph 3.2, E as follows:
  - "E. All fiber optic cable run outdoor and under slab in the conduit shall be rated for outdoor. At entrance into High School, transition from outdoor loose fiber cable to indoor plenum rated armored fiber cable."

#### ITEM NO. 5. PROJECT MANUAL, SECTION 28 13 10 ACCESS CONTROL

- A. Add paragraph 1.2, D as follows:
  - "D. The Owner currently utilizes RS2 Access It! for district wide access control systems. Central Indiana Hardware is the existing preferred integrator for access controls. For pricing, the following contact information should be used: Central Indiana Hardware, Damir Husejnovic, Office: 317-558-5700, Mobile: 317-989-1514, email: <a href="mailto:husejnovicd@cih-inc.com">husejnovicd@cih-inc.com</a>"
- B. Replace paragraph 2.1, A, 1 as follows: "1. RS2 Access It! to match district standard, no equals."
- C. Replace paragraph 2.5, J, 1 as follows: "1. UL294 certified and compatible with both 13.56 MHz and 125 kHz proximity cards."
- D. Replace paragraph 2.5, J, 2 as follows: "2. Approved Manufacturer: HID Signo series or approved equal."

#### ITEM NO. 6. PROJECT MANUAL, SECTION 33 41 00 - STORM UTILITY DRAINAGE PIPING

- A. Add 1.1, A., 8., as follows:
  - "8. Trench Drain assembly as indicated on Drawings."

#### ITEM NO. 7. REVISED DRAWING SHEETS

A. Drawing Sheets: G2.1, SU1.1, SU2.11, A7.01, A7.02, A7S.01, E1.1 and T1.02 have been revised, dated 6/1/23, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

**END OF ADDENDUM** 

#### SECTION 27 51 11 - PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. This Section includes but is not limited to the following:
  - 1. Ceiling speakers
  - 2. Program sources.
  - 3. Power amplifiers.
  - 4. Audio signal processors.
  - 5. Wireless microphones.
  - 6. Miscellaneous sound equipment, cables, hardware, etc.
- B. Related section includes the following:
  - 1. Division 26 Electrical
  - 2. Division 27 Communications Sections.

#### 1.3 SECTION DEFINITIONS

- A. Channels: Separate parallel signal paths, from sources to loudspeakers or loudspeaker zones, with separate amplification and switching that permit selection between paths for speaker alternative program signals.
- B. Zone: Separate group of loudspeakers and associated supply wiring that may be arranged for selective switching between different channels.

#### 1.4 SUBMITTALS

- A. Shop Drawings: Signed and sealed by a qualified sound system engineer.
  - Equipment Details: Detail equipment assemblies and indicate dimensions, weights, required clearances, method of field assembly, components, and location of each field connection.
  - 2. Console layouts.
  - 3. Control panels.
  - 4. Rack arrangements.
  - 5. Wiring Diagrams: Power, signal, and control wiring. Include the following:
    - a). Identify terminals to facilitate installation, operation, and maintenance.
    - b). Single-line diagram showing interconnection of components.
    - c). Cabling diagram showing cable routing.
  - 6. Loudspeakers mounting details.
  - 7. Loudspeakers locations and aiming details.
- B. Quality Assurance/Control Submittals:
  - Product Data: For each item specified.
- C. Closeout Submittals:
  - 1. Operation and Maintenance Data: For public address and music equipment to include in emergency, operation, and maintenance manuals.
  - 2. Extra Materials: Receipt for extra materials.

- 3. Loose Equipment: Receipt for loose materials not fastened in place.
- D. See Common Work Results For Communications section 270500 for more submittal requirements.

#### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
  - 1. Maintenance Proximity: Not more than 2 hours' normal travel time from Installer's place of business to Project site.
  - 2. Cable installer must have on staff a registered communication distribution designer certified by Building Industry Consulting Service International.
  - 3. Installation shall be by personnel certified by National Institute for Certification in Engineering Technologies as audio systems Level III technician.
- B. Source Limitations: Obtain public address and music equipment through a single source authorized by manufacturer to distribute each product.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Comply with NFPA 70 National Electrical Code.
- E. Comply with UL 50.
- F. TIA/EIA-607 Telecommunications grounding.
- G. Latest edition of BISCI TDMM manual
- H. Americans with Disabilities Act (ADA)
- I. Federal Communications Commission, Part 15
- J. Sound System Engineering (Davis and Patronics) 3<sup>rd</sup> Edition 2006.
- K. NSCA Certified Systems Installer, C-SI
- L. InfoComm International Certified Technology Specialist, CTS.
- M. Provide labeling per ANSI/EIA/TIA-606 requirement and in accordance with the Owner and Technology Consultant.

#### 1.6 COORDINATION

A. Coordinate layout and installation of system components and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

#### 1.7 WARRANTY

A. The public address and mass notifications system shall carry a warranty as specified in Section "Demonstration and Training of Communications Systems".

#### 1.8 TRAINING

A. Provide training per Section "Demonstration and Training of Communications Systems".

#### 1.9 RECORD DRAWINGS/OPERATION AND MAINTENANCE MANUALS

A. Provide record drawings and operation and maintenance manuals as described in Sections "Operation and Maintenance of Communications" and "Common Works Results for Communication Systems".

#### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

A. The approved manufacturers are listed in each product section. Alternative manufacturers may be considered per the Contract Documents requirements.

#### 2.2 EQUIPMENT AND MATERIALS

- A. Coordinate features to form an integrated system. Match components and interconnections for optimum performance of specified functions.
- B. Equipment: Modular type using solid-state components, fully rated for continuous duty, unless otherwise indicated. Select equipment for normal operation on input power usually supplied at 110 to 130 V, 60 Hz.

#### 2.3 CEILING SPEAKERS

- A. 4-Inch Ceiling Loudspeaker System.
  - 1. Approved Manufacturer:
    - a). Electro-Voice, Inc. EVID C4.2 series
    - b). JBL Professional, Control 24CT.
    - c). EAW CIS300
    - d). Soundtube CM 400i
    - e). Community D4LP Series
  - 2. Provide 4-inch coaxial ceiling loudspeaker system with ported bass reflex enclosure as follows:
    - a). LH Transducer: 4 inch cone.
    - b). HF Transducer: 3/4 inch diaphragm.
    - c). Voice Coil Diameter: 1 inch.
    - d). Magnet Weight: 10 oz., nominal.
    - e). Impedance: 8 ohms, nominal.
    - f). Power Rating: 25 W RMS.
    - g). Sensitivity: 88 dB average.
    - h). Frequency Response: 75 to 20,000 Hz, plus or minus 7 dB.
    - i). Dispersion Angle: 130 degrees.
    - j). Enclosure: 285 cu. in. fiberglass lined 18 gauge steel, textured white finish with 24 gauge steel tile bridge.
    - k). Grille: Round one-piece perforated steel, textured white finish.
    - l). Transformer: 25/70 V, 1.5 dB insertion loss, rated 16 W with at least 5 primary taps, and bypass position for direct-coupled 8 ohm operation.

#### 2.4 POWER AMPLIFIERS

A. Provide power amplifiers, as shown, that meets to the following requirements:

- 1. Comply with TIA/EIA SE-101-A.
- 2. Mounting: TIA/EIA-310-D, standard 19-inch rack mounted.
- 3. Output Power: 250 watts nominal x 2 channels.
- 4. Frequency Response: 20 20KHz +1dB / -3dB
- 5. Minimum Signal-to-Noise Ratio: 60 dB, at rated output.
- 6. Total Harmonic Distortion: Less than 0.3 percent at rated power output from 50 to 12,000 Hz.
- 7. Output Regulation: Less than 2 dB from full to no load.
- 8. Controls: On/off, input levels, and low-cut filter.
- 9. Outputs: 8 ohms at 25 / 70V balanced
- 10. Input Sensitivity: Matched to preamplifier and providing full-rated output with sound-pressure level of less than 10 dynes/sq. cm impinging on speaker microphone or handset transmitter.
- B. Accessories
  - 1. Rack-mount kit
  - 2. Power cable
- C. Rack Spaces 1 RU
- D. Manufacturers:
  - 1. TOA Electronics, Inc. DA-250DH
  - 2. Equals by Crown, Crest Audio, Peavey.

#### 2.5 DIGITAL SIGNAL PROCESSORS (DSP)

- A. Minimum 8-Input, 8-Output digital signal processor / mixer.
  - Provide a minimum 8 input, 8 output audio processor with feedback reduction, as follows:
    - a). Modular construction
    - b). Ducker.
    - c). 10 bands parametric equalizer.
    - d). 32 presets.
    - e). Frequency response: 20 20kHz ±1.0dB, -3dB loss
  - 2. Accessories
    - a). Input / output modules provide terminal blocks and other accessories as required.
    - b). Rack-Mount Bracket: TIA/EIA-310-D, standard 19-inch.
    - c). Power supplies as required.
  - 3. Approved Manufacturer
  - 4. TOA Electronics, Inc. M-9000M2
  - 5. Equals by Crown, BSS Audio, Ashly.

#### 2.6 PROGRAM SOURCES AND RECORDERS

- A. AM/FM Synthesized Digital Tuner.
  - Approved Manufacturer:
    - a). TOA Model DT-940.
    - b). Denon DN-350UI.
    - c). TASCAM, TU-690
    - d). Bogen DST1
  - 2. Provide frequency synthesized digital AM mono and FM stereo radio receiver, as follows:
    - a). AM Frequency Band: 520 to 1,710 kHz in 10 kHz steps.

- b). FM Frequency Band: 87.9 to 107.9 MHz in 200 kHz steps.
- c). AM Sensitivity: 24 micro-volts.
- d). FM Sensitivity: 4 micro-volts.
- e). Presets: Any combination of 40 AM or FM stations.
- f). A multi-function digital display shall be included with automatic station
- g). Scanning and Manual Tuning: Automatic station storage to memory shall be possible using auto-scan mode. Direct station frequency tuning shall be possible using manual entry.
- h). Connections: Two RCA-type jacks for stereo operation and removable terminal block for monaural operation. Push-type terminals shall be provided for connection of included AM and FM antennas.
- i). Housing: Painted, black steel
- j). Power: 120 V, 60 Hz, 180 mA.
- Accessories:
  - a). Rack-Mount Bracket: TIA/EIA-310-D, standard 19-inch. (1U rack space)
  - b). Antenna: AM/FM stainless steel whip.

#### 2.7 WIRELESS MICROPHONES

- A. Approved Manufacturer:
  - TOA S5.3 HD series
  - 2. Equal by Electro-Voice, Sennheiser, Telex, Audio-Technica or Shure.
- B. Provide combination wireless systems as follows:
  - 1. Professional wireless receivers.
  - 2. Wireless body pack transmitter.
  - 3. Handheld microphone.
- C. Accessories:
  - 1. Antenna boosters and remote antennas.
    - a). Provide two TOA YW-4500 remote antenna, with signal booster, power supply, coaxial cable and accessories.
    - b). Locate antenna in meeting room for wireless microphone system.
    - c). Connect with cabling as required by manufacturer.

#### 2.8 SOUND EQUIPMENT CABINETS

A. All sound equipment shall be housed in steel protective cabinets. Located with data patch panels and other technology equipment. See section 27 11 00 for further information.

#### 2.9 MISCELLANEOUS COMPONENTS

- A. Provide stereo inputs as shown on AV diagram.
- B. Provide volume control on wall, TOA ZM-9012 or approved equal.
- C. Conductors and Cables: Jacketed, twisted pair and twisted multi-pair, untinned solid copper.
  - 1. Insulation for Wire in Conduit: Thermoplastic, not less than 1/32 inch thick.
  - 2. Microphone Cables: Neoprene jacketed, not less than 2/64 inch thick, over shield with filled interstices. Shield No. 34 AWG tinned, soft-copper strands formed into a braid or approved equivalent foil. Shielding coverage on conductors is not less than 60 percent.
  - 3. Plenum Cable: Listed and labeled for plenum installation.

#### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Wiring Method: Install wiring in raceways unless otherwise noted.
- B. Wiring Method: Install wiring in raceways except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces where cable wiring method may be used. Use plenum cable in environmental air spaces including plenum ceilings.
- C. Install exposed cables in finished areas parallel and perpendicular to surfaces or exposed structural members, and follow surface contours. Secure and support cables by straps, staples, or similar fittings so designed and installed to avoid damage to cables. Secure cable at intervals not exceeding 30 inches and not more than 6 inches from cabinets, boxes, or fittings.
- D. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess. Use lacing bars in cabinets.
- E. Control-Circuit Wiring: Install number and size of conductors as recommended by system manufacturer for control functions indicated.
- F. Separation of Wires: Separate speaker-microphone, line-level, speaker-level, and power wiring runs. Install in separate raceways or, where exposed or in same enclosure, separate conductors at least 12 inches for speaker microphones and adjacent parallel power and telephone wiring. Separate other intercommunication equipment conductors as recommended by equipment manufacturer.
- G. Splices, Taps, and Terminations: Arrange on numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures.
- H. Match input and output impedances and signal levels at signal interfaces. Provide matching networks where required.
- I. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so they identify media in coordination with system wiring diagrams.
- J. Wall-Mounting Outlets: Flush mounted.
- K. Conductor Sizing: Unless otherwise indicated, size speaker circuit conductors from racks to loudspeaker outlets not smaller than No. 18 AWG and conductors from microphone receptacles to amplifiers not smaller than No. 22 AWG.
- L. Speaker-Line Matching Transformer Connections: Make initial connections using tap settings indicated on Drawings.
- M. Connect wiring according to local and national codes.

#### 3.2 GROUNDING

A. Ground cable shields and equipment to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.

- B. Signal Ground Terminal: Locate at main equipment cabinet. Isolate from power system and equipment grounding.
- C. Install grounding electrodes as specified in Division 26 Section "Grounding and Bonding for Electrical Systems."

#### 3.3 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
  - 1. Schedule tests with at least seven days' advance notice of test performance.
  - 2. After installing public address and music equipment and after electrical circuitry has been energized, test for compliance with requirements.
  - Operational Test: Perform tests that include originating program and page messages at microphone outlets, preamplifier program inputs, and other inputs. Verify proper routing and volume levels and that system is free of noise and distortion.
  - 4. Signal-to-Noise Ratio Test: Measure signal-to-noise ratio of complete system at normal gain settings as follows:
    - a). Disconnect microphone at connector or jack closest to it and replace it in the circuit with a signal generator using a 1000-Hz signal. Replace all other microphones at corresponding connectors with dummy loads, each equal in impedance to microphone it replaces. Measure signal-to-noise ratio.
    - b). Repeat test for each separately controlled zone of loudspeakers.
    - c). Minimum acceptance ratio is 50 dB.
  - 5. Signal Ground Test: Measure and report ground resistance at public address equipment signal ground. Comply with testing requirements specified in Division 26 Section "Grounding and Bonding for Electrical Systems."
- B. Retesting: Correct deficiencies, revising tap settings of speaker-line matching transformers where necessary to optimize volume and uniformity of sound levels, and retest. Prepare a written record of tests.
- C. Inspection: Verify that units and controls are properly labeled and interconnecting wires and terminals are identified. Prepare a list of final tap settings of paging speaker-line matching transformers.

#### 3.4 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
- B. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements.
- C. Complete installation and startup checks according to manufacturer's written instructions.

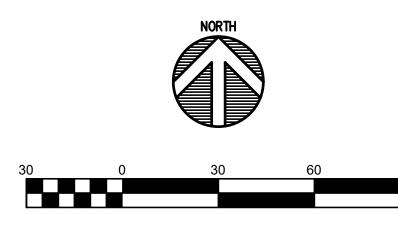
#### 3.5 ADJUSTING

A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to site outside normal occupancy hours for this purpose, without additional cost.

END OF SECTION 27 51 11

805. 806. × 805.86

LT SANITARY MANHOLE TOR= 806.05
INV.(N)= 794.95 (8" PVC)
INV.(E)= 794.90 (8" PVC)



## **GENERAL NOTES**

- SEE DRAWING GD0.1 FOR GENERAL NOTES AND ADDITIONAL
- TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY CEC CIVIL & ENVIRONMENTAL CONSULTANTS DATED MAY 17, 2022. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE

## **GRADING PLAN LEGEND**

EXISTING SPOT ELEVATION

MATCH EXISTING GRADE

TOP OF CURB

BOTTOM OF CURB

EDGE OF PAVEMENT

FL FLOWLINE
TW TOP OF WALL

- 730 - - - EXISTING CONTOUR W/ ELEVATION

PROPOSED CONTOUR W/ ELEVATION

TC PROPOSED CURB ELEVATION

APPROXIMATE LIMITS OF CONSTRUCTION

CARMEL CLAY SCHOOLS

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CARMEL STADIUM

**SOUTH SUPPORT** 

BUILDING

E 136th St, Carmel, IN 46032

ARCHITECT



**317.848.0966 WWW.FHAI.COM**350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

CONSULTANT



CONSTRUCTION DOCUMENTS



PROJECT MANAGER: PMR
DRAWN BY: ARS
PROJECT NUMBER: 220136.00

PROJECT ISS	SUE DATE: 04.26.2023	
REV. NO.△	DESCRIPTION	DATE
1	REGULATORY REVIEW	1-18-2023
2	TAC RESPONSE	03-17-2023
3	SSB FINAL CD'S	4-26-2023
4	TAC RESPONSE	5-5-2023
5	ADDENDUM #2	6-01-2023

**GRADING PLAN - SOUTH** 

**G2.1** 

Know what's below.
Call before you dig.

Call 811 or 1-800-382-5544 Before You Begin Any Digging Project.
Call 48 hours or 2 working days before you dig.

It's Fast, It's Easy and It's the Law in the state of Indiana!

## CAUTION !!

STORM CURB INLET

TOR= 804.44

INV.(S)= 801.32 (12" RCP)

INV.(NE)= 801.22 (12" RCP)

-30 MPH

ASPHALT WALK

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND

ALL CONSTRUCTION.

INV.(S)= 801.00 (12" RCP)
INV.(NW)= 801.00 (12" RCP)

× 805.86 F (

STORM CURB INLET
TOR= 805.27

INV.(S)= 801.32 (12" RCP)
INV.(NE)= 801.22 (12" RCP)
\_\_30 MPH

INV.(SE)= 800.17 (12" RCP)
INV.(S)= 800.17 (12" RCP)
INV.(W)= 800.12 (12" RCP)

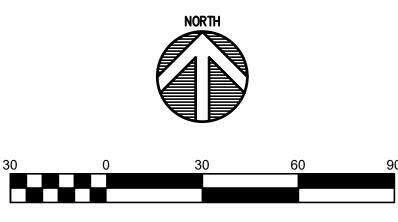
INV.(N)= 801.94 (12" RCP) (FULL OF DEBRIS)

SMOKEY ROW ROAD / E 136TH STREET

(PUBLIC RIGHT-OF-WAY)

PROPERTY LINE FMK

INV.(N) = 794.95 (8" PVC)INV.(E) = 794.90 (8" PVC)



## **GENERAL NOTES**

- SEE DRAWING GD0.1 FOR GENERAL NOTES AND ADDITIONAL
  LEGEND
- 2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY CEC CIVIL & ENVIRONMENTAL CONSULTANTS DATED MAY 17, 2022. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE

## ♦ UTILITY KEYNOTES

- 1. PROPOSED SANITARY CLEANOUT
- 2. PROPOSED 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE
- 3. NEW 6" SANITARY LATERAL INVERT = 803.05. CORE DRILL AND CONNECT TO EXISTING MANHOLE
- 4. PROPOSED CONNECTION TO EXISTING WATER LINE
- 5. PROPOSED 8" PVC WATER LINE
- 6. PROPOSED 3" DOMESTIC WATER SERVICE LINE
- 7. PROPOSED 4" FIRE PROTECTION LINE
- 8. PROPOSED FIRE DEPARTMENT CONNECTION
- 9. PROPOSED POST INDICATOR VALVE10. PROPOSED GAS METER LOCATION
- ... \_\_\_\_\_
- 11. PROPOSED GAS LINE PER GAS COMPANY. COORDINATE ROUTE AND SIZE WITH GAS COMPANY.
- 12. PROPOSED STORM CLEANOUT
- 13. NEW 8" HDPE ROOF DRAIN @ 1.00% MIN. SLOPE

  14. PROPOSED ACO TRENCH DRAIN

  15. NEW 6" HDPE @ 1.00% MIN. SLOPE
- 16. NEW 8" HDPE @ 1.00% MIN. SLOPE
- 17. MODIFY EXISTING STRUCTURE TO MEET PROPOSED FINISH GRADE. REPLACE CASTING WITH NEW NEENAH R-3472. CORE DRILL AND CONNECT NEW ROOF DRAIN.
- 18. MODIFY EXISTING STRUCTURE TO MEET PROPOSED FINISH GRADE. REPLACE CASTING WITH NEW NEENAH R-1772. CORE DRILL AND CONNECT NEW HDPE PIPE FROM TRENCH DRAIN.
- 19. OFF-LINE AQUA-SWIRL XC-12 BMP STRUCTURE
- 20. PROPOSED PAVEMENT UNDERDRAIN
- 21. RELOCATE PORTION OF EXISTING WATER LINE TO ACHIEVE A MININUM SEPERATION OF 18" FROM PROPOSED STORM PIPE
- 22. ADJUST TOP OF ELECTRICAL MANHOLE CASTING TO 804.65. ADD RISER TO TOP OF EXISTING CONCRETE VAULT AS REQUIRED.

APPROXIMATE LIMITS OF CONSTRUCTION

23. CORE DRILL MANHOLE FOR PVC PIPE FROM PROPOSED TRENCH DRAIN

# UTILITY LEGEND

— st — st —	NEW STORM SEWER LINE
FP	NEW FIRE PROTECTION LINE
— w — w —	NEW WATER LINE
SAN	NEW SANITARY LATERAL LINE
storm	EXISTING STORM LINE
w	EXISTING WATER LINE
san	EXISTING SANITARY LINE
e	EXISTING ELECTRICAL LINE
	NEW FIRE HYDRANT
•	NEW FIRE DEPARTMENT CONNECTION

# CARMEL STADIUM SOUTH SUPPORT BUILDING

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E 136th St, Carmel, IN 46032

CARMEL CLAY SCHOOLS



RCHITECT

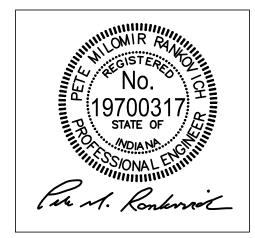


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CONSULTANT



CONSTRUCTION DOCUMENTS

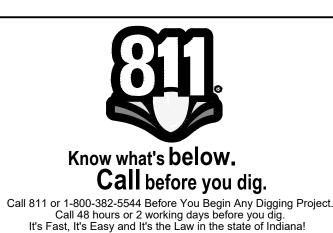


PROJECT MANAGER: PMR
DRAWN BY: ARS
PROJECT NUMBER: 220136.00

PROJECT ISS	SUE DATE: 04.26.2023	
REV.		
NO.△	DESCRIPTION	DATE
1	REGULATORY REVIEW	1-18-2023
2	TAC RESPONSE	03-17-2023
3	SSB FINAL CD'S	4-26-2023
4	ADDENDUM #2	6-01-2023

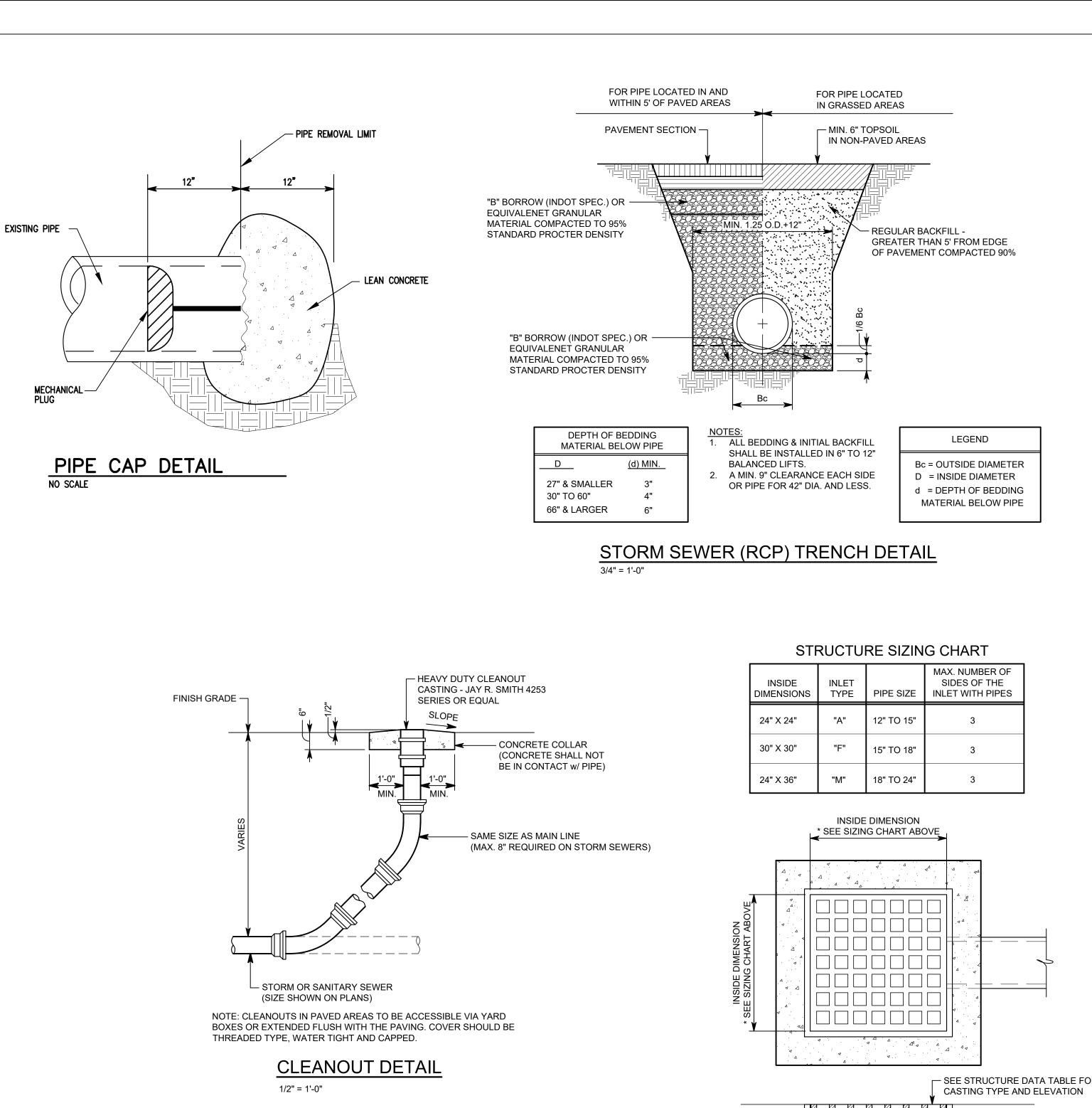
SITE UTILITY PLAN - SOUTH

SU1.1



## CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



FACE OF BUILDING

SEE SITE UTILITY

PLANS FOR SIZES

PLAN VIEW

ARCHITECT/PLUMBING

— CAST IRON DOWNSPOUT SHOE

(NEENAH R-4929 OFFSET OR

– 90° DIP ELBOW

— HDPE FITTING

HDPE STORM SEWER PIPE.

SEE SITE UTILITY PLANS.

— DOWNSPOUT, SIZE BY

APPROVED EQUAL)

— 8" DIP PIPE

2% MIN.

UTILITY PLAN

TRANSITION COUPLING FOR — DISSIMILAR MATERIALS

DOWNSPOUT BOOT DETAIL

**ENGINEER** 

TRANSITION COUPLING FOR -

DISSIMILAR MATERIALS

45° HDPE ELBOW -

HDPE STORM SEWER PIPE.

– 45° HDPE WYE

SEE SITE UTILITY PLANS.

BASE SET ON 6" OF —

COMPACTED -

SUBGRADE

- CLASS "A" PRECAST REINFORCED

MUST EXTEND TO — UNDISTURBED /

CONCRETE BOX

1. ALL STORM SEWER CASTINGS SHALL BE MARKED "DUMP NO WASTE

2. SEE UTILITY PLAN FOR STORM SEWER STRUCTURE DATA TABLE.

STORM INLET DETAIL

STORM

STORM SEWER / WATER LINE CROSSING DETAIL

SEWER

WATER LINE -7

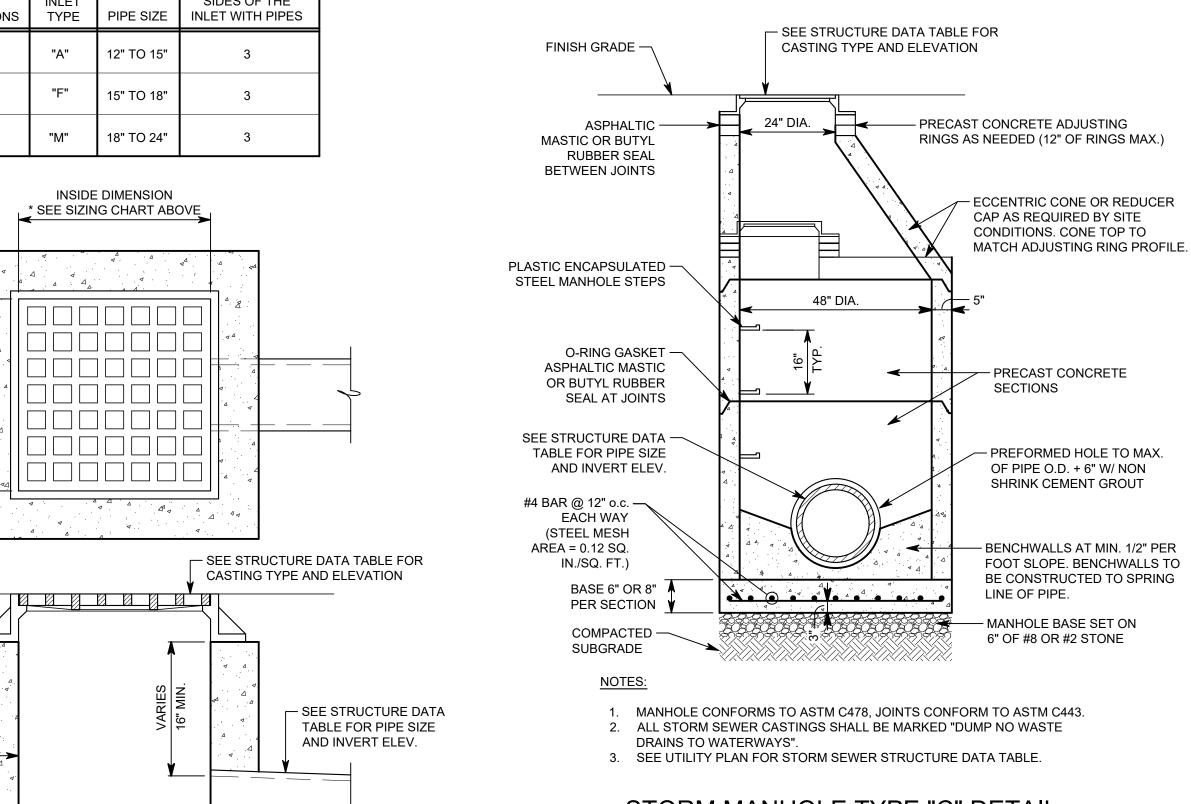
CONCRETE ENCASEMENT

REQUIRED IF VERTICAL PIPE

CLEARANCE IS LESS THAN 18".

DRAINS TO WATERWAYS".

#8 OR #2 STONE



FOR PIPE LOCATED IN AND

PAVEMENT SECTION -

"B" BORROW (INDOT SPEC.) OR -

MATERIAL COMPACTED TO 95%

#8 CRUSHED STONE OR

MATERIAL HAND TAMPED

OR WALKED INTO PLACE

NOTES:

1. ALL BEDDING & INITIAL BACKFILL
SHALL BE INSTALLED IN 6" TO 12"

2. A MIN. 9" CLEARANCE EACH SIDE

OR PIPE FOR 42" DIA. AND LESS.

**EQUIVALENT CLASS 1** 

BALANCED LIFTS.

NO SCALE

STANDARD PROCTER DENSITY

EQUIVALENT GRANULAR

WITHIN 5' OF PAVED AREAS

STORM SEWER (PVC & HDPE) TRENCH DETAIL

FOR PIPE LOCATED

IN GRASSED AREAS

MIN. 6" TOPSOIL

OUTSIDE PAVEMENT LIMITS

**REGULAR BACKFILL -**

EDGE OF PAVEMENT

COMPACTED 90%

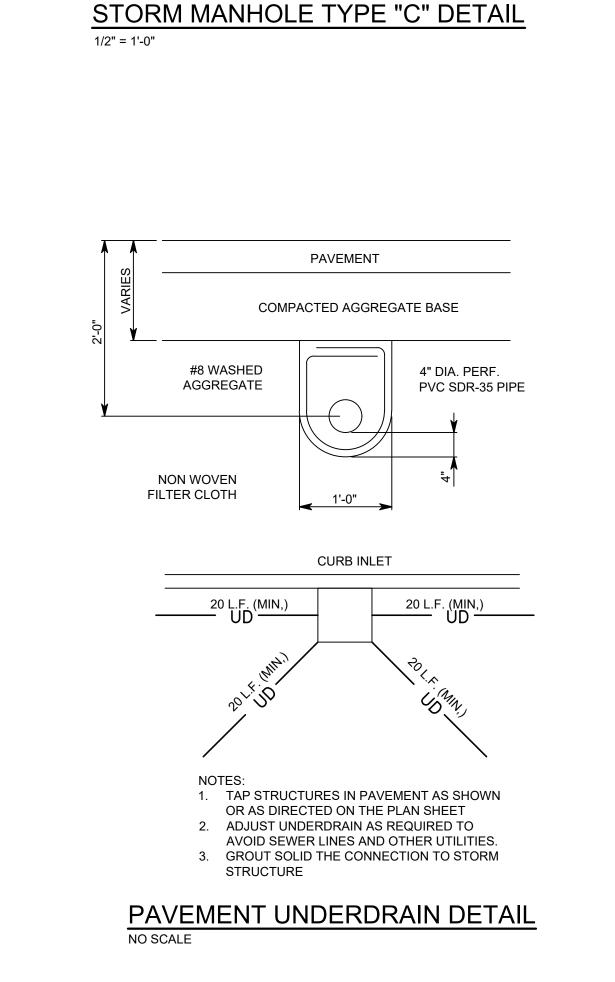
- REGULAR BACKFILL-

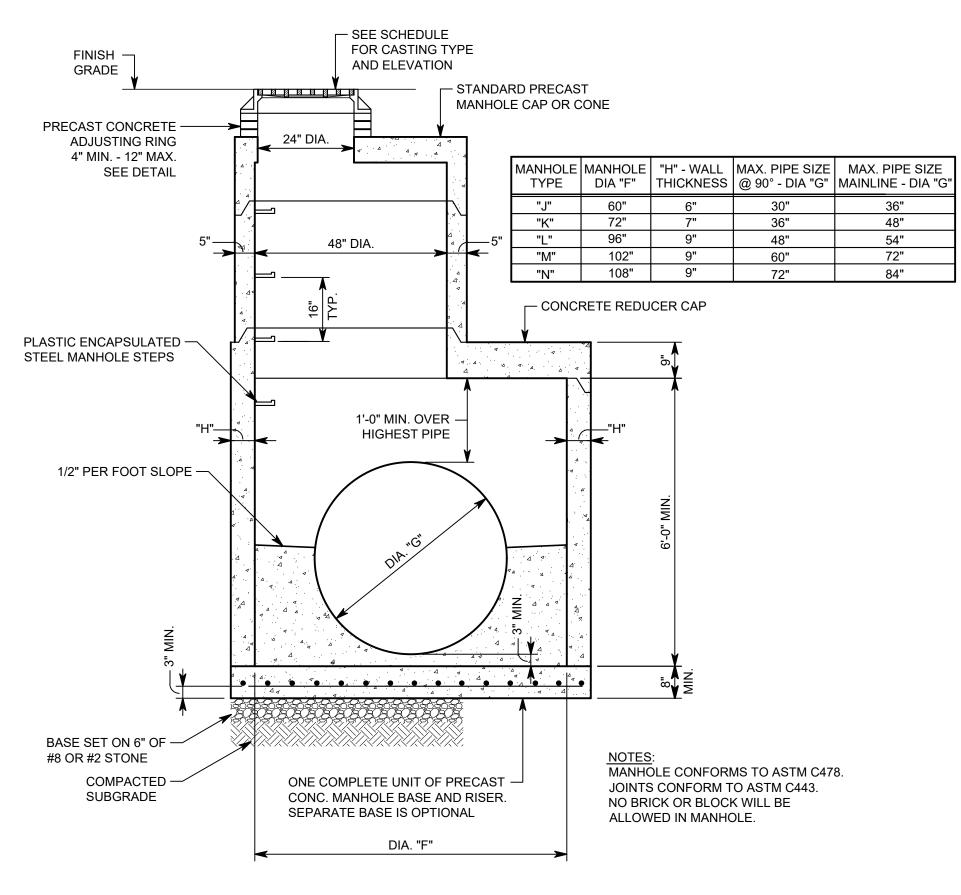
EDGE OF PAVEMENT

COMPACTED TO 90%

GREATER THAN 5' FROM

GREATER THAN 5' FROM





STORM MANHOLE TYPE "J - N" DETAIL

1/2" = 1'-0"

TOP OF CONCRETE

TOP OF CONCRETE

1/2" EXPANSION JOINT

PRESLOPED POLYMER CONCRETE TRENCH DRAIN

BEDDING CONCRETE

MINIMUM DEPTH 12". DEPTH VARIES, CONTRACTOR TO SUPPLY SHOP DRAWINGS INDICATING CHANNEL NUMBERS & LAYOUT PRIOR TO CONSTRUCTION

SUPPORT CHAIR PER

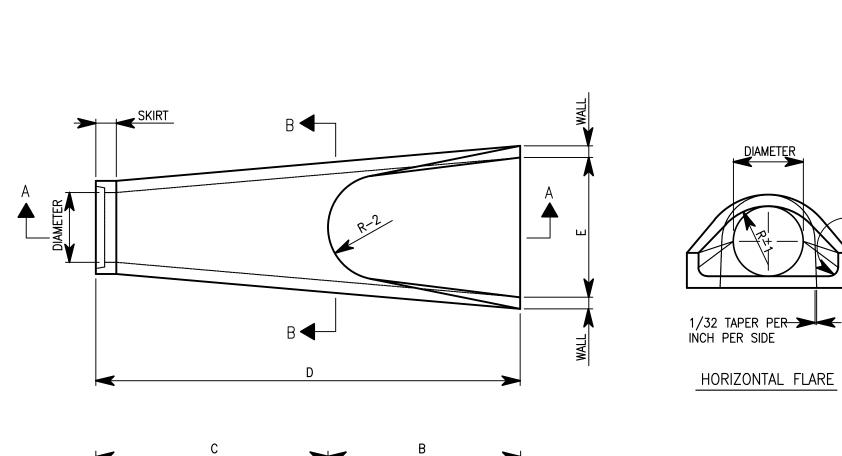
MANUFACTURER

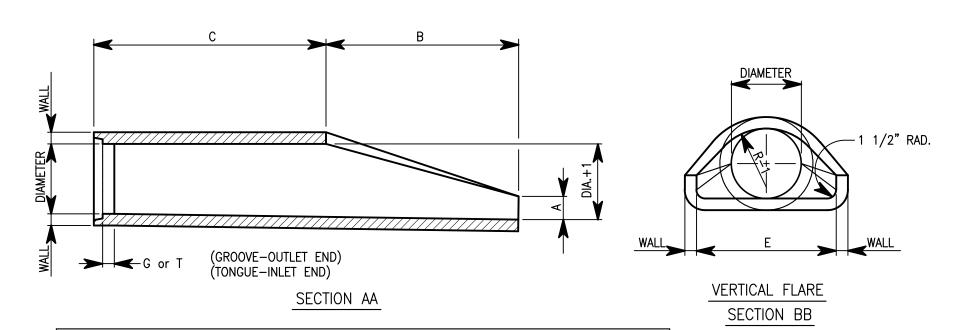
REQUIREMENTS

4" ACO DRAIN KS100 IS THE BASIS OF DESIGN. APPROVED EQUALS WILL BE EXCEPTED

ACO TRENCH DRAIN CHANNEL DETAIL

NOT TO SCALE





				SIZE	SCHE	EDULE						
DIA.	WALL	G or T	WT. SEC	Α	В	С	D	Е	DIA.+1	R-1	R-2	SKIRT
12	2	1 ½	530	4	24	48 %	72 %	24	13	10 1/16	9	3½
15	21/4	2	740	6	27	46	73	30	16	12 1/2	11	3½
18	21/2	2 1/2	990	9	27	46	73	36	19	15½	12	4
21	23/4	2 1/4	1280	9	35	38	73	42	22	16 1/8	13	4
24	3	2 1/2	1520	9½	43 ½	30	73 ½	48	25	16 <sup>1</sup> / <sub>16</sub>	14	4 ½
27	31/4	2 1/2	1930	10½	48	25 ½	73 ½	54	28	17 3/4	14 1/2	4 1/2
30	3½	3	2190	12	54	19 ¾	73 ¾	60	31	18 1/6	15	5
33	3¾	3 3/8	3150	13½	58 ½	39 1/4	97 ¾	66	34	23 3/4	17 1/2	5½
36	4	3½	4100	15	63	34 ¾	97 ¾	72	37	24 1/16	20	5½
42	4 1/2	3 3/4	5380	21	63	35	98	78	43	27 1/4	22	5½
48	5	4 1/4	6550	24	72	26	98	84	49	28 1/8	22	5¾
54	5½	4 3/4	8040	27	65	35	100	90	55	32 %	24	6 1/4
60	6	5	8750	30	60	39	99	96	61	36 3/4	24	6 3/4
66	6½	5½	10630	24	78	21	99	102	67	35 <sup>1</sup> / <sub>16</sub>	24	7 1/4
72	7	6	12520	34	78	21	99	108	73	38 %	24	73/4
78	7½	6½	14430	24	78	21	99	114	79	41 <sup>15</sup> / <sub>16</sub>	24	8½
84	8	7	16350	24	78	21	99	120	85	44 <sup>13</sup> / <sub>16</sub>	24	9

MANUFACTURER OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.

PRECAST FLARED END SECTION

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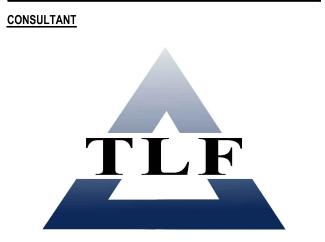
CARMEL CLAY SCHOOLS



ARCHITECT



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CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS

ON THE CONTROL OF THE CONTROL OF

PROJECT MANAGER: PMR
DRAWN BY: ARS

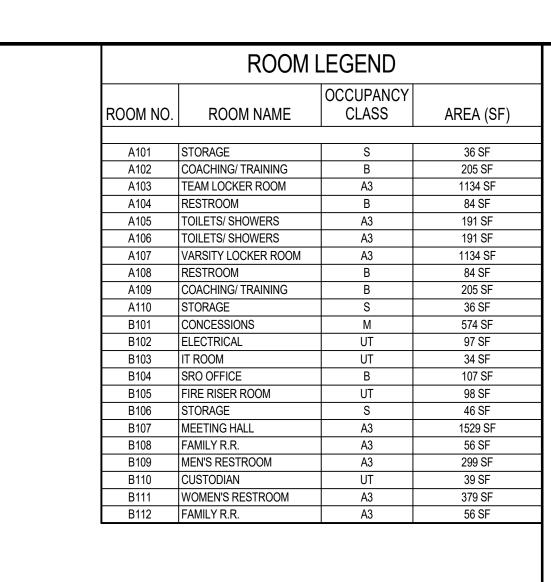
PROJECT NUMBER: 220136.00

REV. NO. DESCRIPTION DATE

1 REGULATORY REVIEW 1-18-2023
2 SSB FINAL CD'S 4-26-2023
3 ADDENDUM #2 6-01-2023

SITE UTILITY DETAILS

SU2.11



ELECTRICAL **B102** 

IT ROOM B103

FIRE RISER ROOM **B105** 

# **EQUIPMENT GENERAL NOTES**

ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED

OTHERWISE. HIDDEN LINES (----) INDICATE ITEMS TO BE PART OF LOOSE

EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (---)INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS). (TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING. (MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS

INDICATED. REFER TO MOUNTING HEIGHT DRAWING. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE

ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH

REFER TO A7S.01 LIST OF FINISHES FOR EQUIPMENT COLOR SELECTIONS AND A8S.01 FOR FINISHES NOT LISTED ON INTERIOR & EXTERIOR SIGNAGE TO BE PROVIDED BY ALLOWANCE FIGURE. REFER TO SPECIFICATIONS FOR MORE INFORMATION. (RWS) INDICATES ROLLER WINDOW SHADE, REFER TO SPECIFICATIONS AND 14/A7.02 FOR MORE INFORMATION.

THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.

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CARMEL STADIUM

SOUTH SUPPORT

#### **EQUIPMENT NOTES**

- 1 TYPE "A" ATHLETIC LOCKERS, SEE DETAIL 8/A7.02 2 TYPE "B" ATHLETIC LOCKERS WITH DOUBLE-SIDED CONCRETE BENCH, SEE DETAILS 8 & 10/A7.03
- 3 TYPE "B" ATHLETIC LOCKERS WITH SINGLE-SIDED CONCRETE BENCH, SEE DETAILS 8 & 9/A7.03 4 PLASTIC LAMINATE BASE CABINETS, PL-1, AND
- COUNTERTOP, PL-2, SEE FLEVATION

  5 PLASTIC LAMINATE BASE CABINETS, PL-1, WITH QUARTZ COUNTERTOPS, QZ-1, REFER TO ELEVATIONS
  PLASTIC LAMINATE BASE CABINETS, PL-3, WITH SOLID SURFACE COUNTERTOPS, SSM-2, REFER TO ELEVATIONS
- MONITOR, BY OWNER PRETZEL MACHINE, BY OWNER NACHO CHEESE MACHINE, BY OWNER
- 10 HOT DOG MACHINE, BY OWNER
- 11 WARMING MACHINE, BY OWNER 12 WARMING MACHINE, BY OWNER
- 13 COFFEE MACHINE, BY OWNER 14 COOLER, BY OWNER
- 15 REFRIGERATOR, BY OWNER 16 UPRIGHT FREEZER, BY OWNER
- 17 WATER BOTTLE FILLERS, REFER TO PLUMBING DRAWINGS 18 MICROWAVE, BY OWNER. BASIS OF DESIGN IS WHIRLPOOL WMC30516HZ.
- 19 REFER TO ENLARGED PLAN FOR DETAILED ISLAND INFORMATION 20 BENCH OUTSIDE CORNERS TO BE CHAMFERED AS SHOWN,

www....

21 STAINLESS STEEL SILL INCLUDED WITH COILING COUNTER DOOR ASSEMBLY, REFER TO DETAIL 10/A6.01. QZ-1 TOP TO ALIGN OR INSTALL 1/2" LOWER THAN SILL. V.I.F.

MEN'S RESTROOM

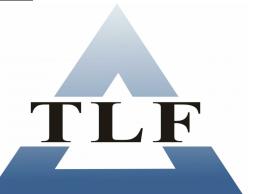
WOMEN'S RESTROOM (

# CARMEL CLAY SCHOOLS

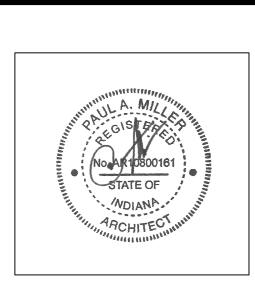


# **FANNING HOWEY**

350 E NEW YORK ST #300 INDIANAPOLIS, IN 46202



TLF ENGINEERS

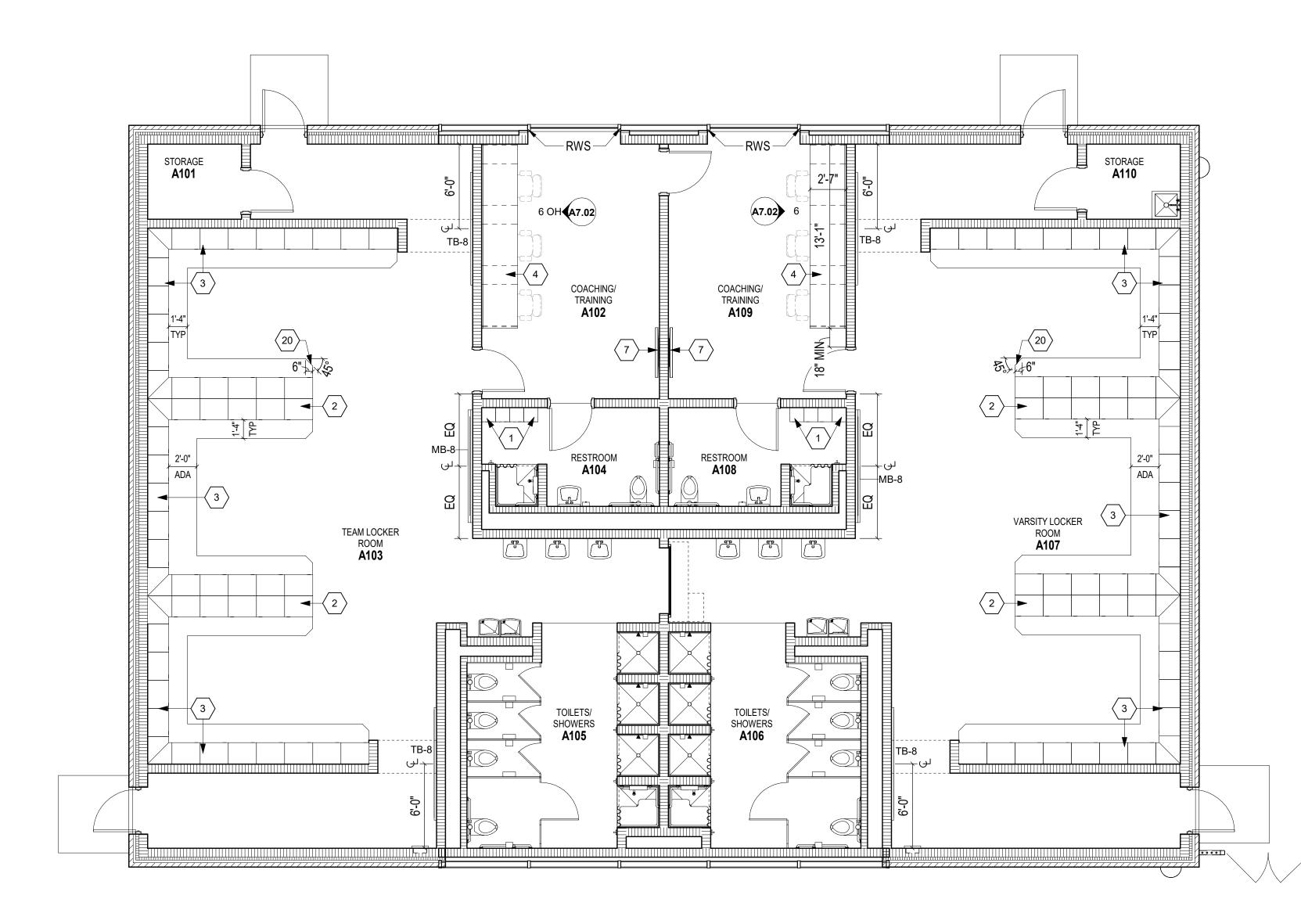


DRAWN BY: AML PROJECT NUMBER: 220136.00 PROJECT ISSUE DATE: 04-26-2023

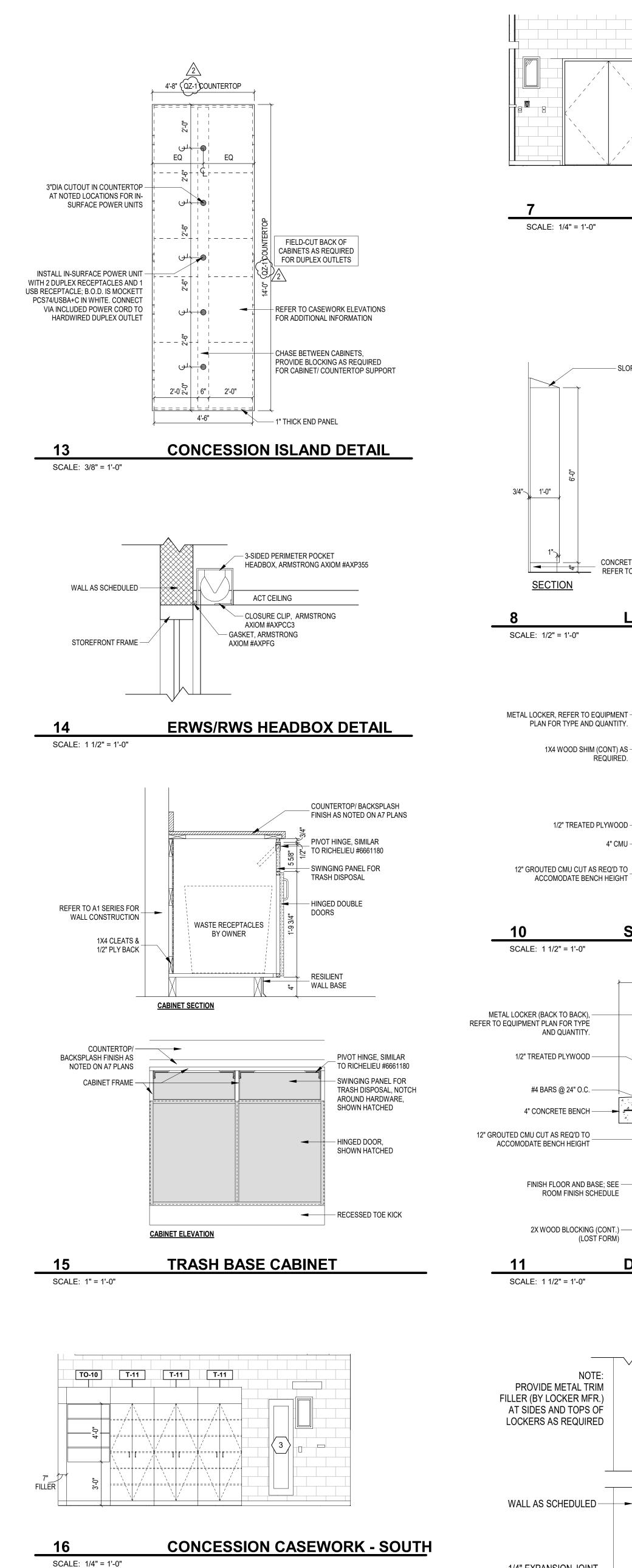
REV. NO.△	DESCRIPTION	DATE
2	ADDENDUM #2	6-1-2023
-		

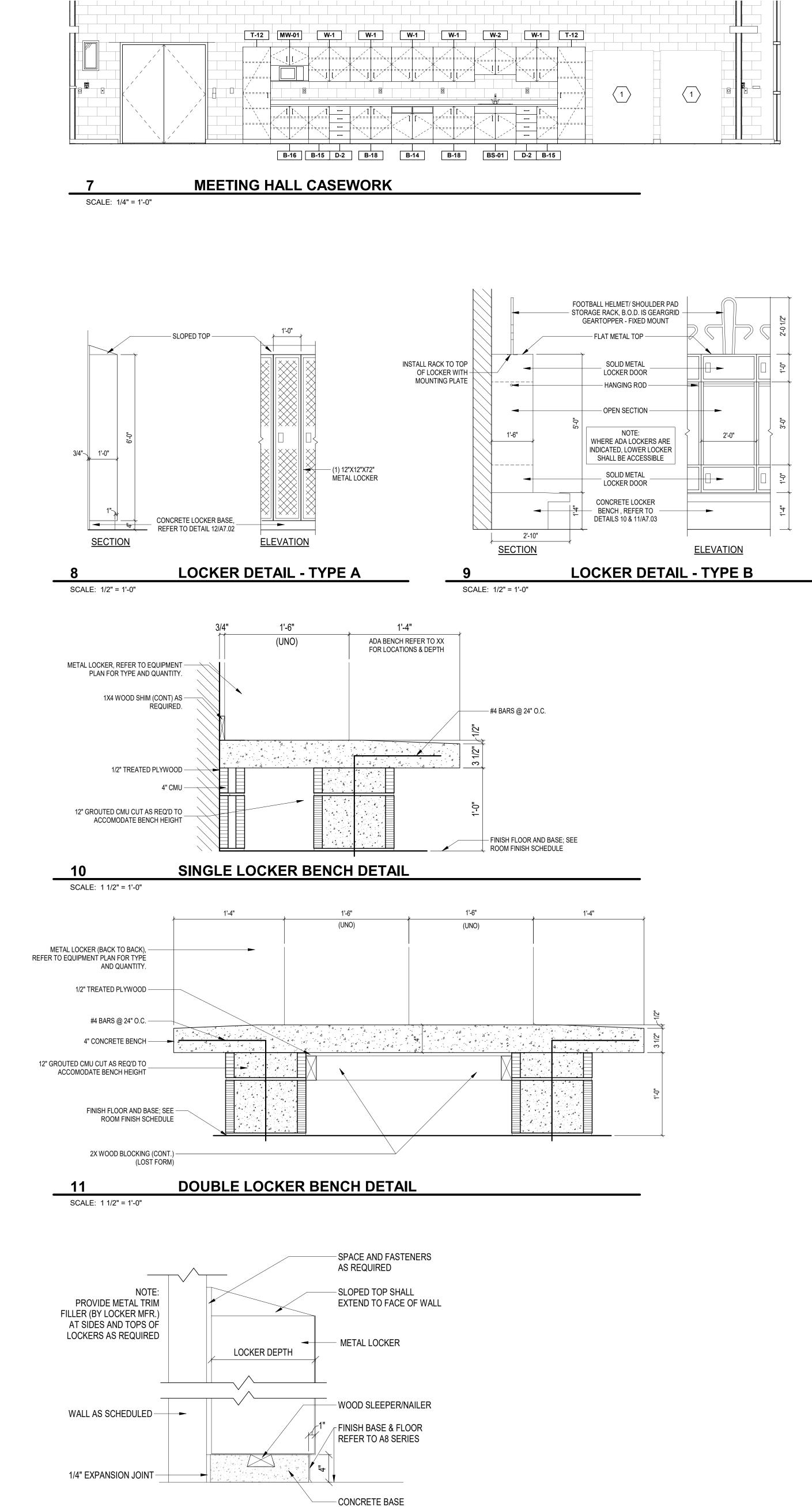
VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH FIRST FLOOR EQUIPMENT PLAN



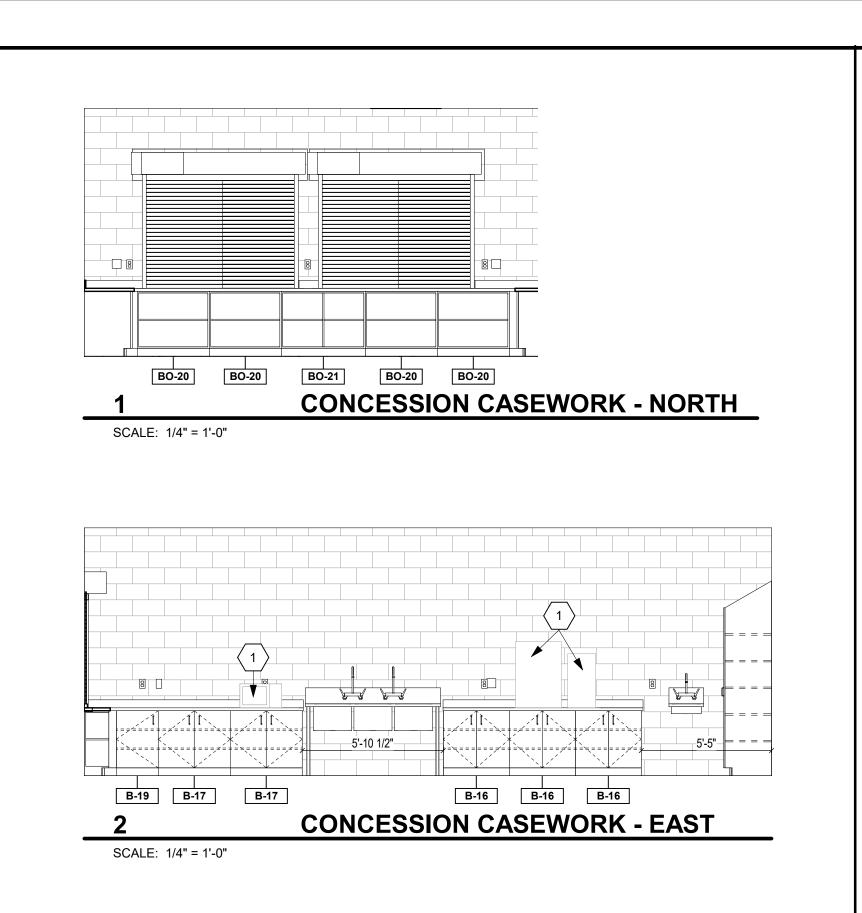
FIRST FLOOR EQUIPMENT PLAN

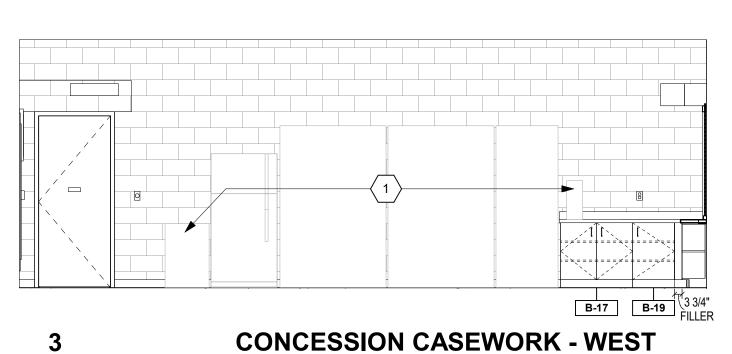




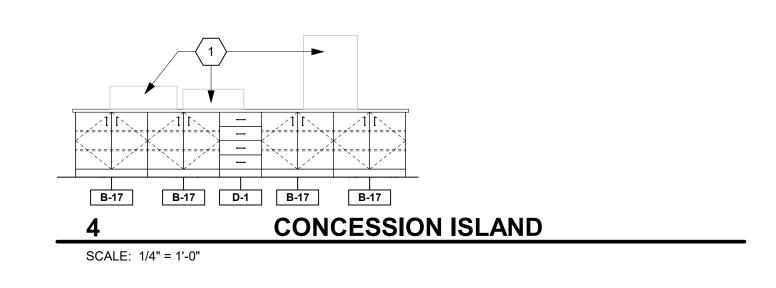
**CONCRETE LOCKER BASE DETAIL** 

SCALE: 1 1/2" = 1'-0"

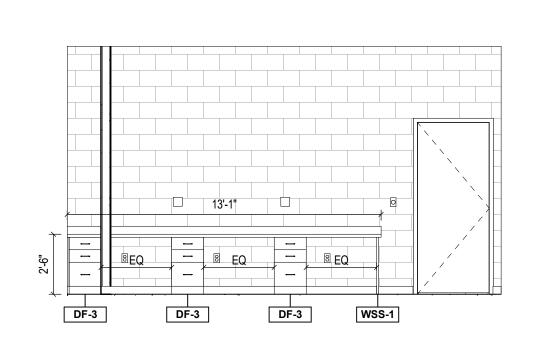




SCALE: 1/4" = 1'-0"



**CONCESSION ISLAND END** SCALE: 1/4" = 1'-0"



**COACHES OFFICE CASEWORK** 

SCALE: 1/4" = 1'-0"

**EQUIPMENT ELEVATION NOTES** 

3 ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS

CENTER CHASE

OWNER-PROVIDED EQUIPMENT, REFER TO A7.01 FOR ADDITIONAL INFORMATION FINISHED END PANEL TO CONCEAL CABINET SEAMS &

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CARMEL CLAY SCHOOLS





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**CONSULTANT** 



TLF ENGINEERS



DRAWN BY: AML PROJECT NUMBER: 220136.00 PROJECT ISSUE DATE: 04-26-2023

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #2	6-1-2023
·		

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

**EQUIPMENT ELEVATIONS & DETAILS** 

				CAS	EWORK SCHEDULE
			SIZE		
TYPE	NO.	W	D	Н	DESCRIPTION
В	14	3'-0"	2'-6"	2'-10"	TRASH BASE UNIT WITH TWO HINGED SWINGING PANELS, TWO HINGED DOORS, AND NO SHELVES. REFER TO DETAIL
В	15	1'-6"	2'-6"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
В	16	2'-9"	2'-6"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
В	17	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
В	18	3'-0"	2'-6"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
В	19	1'-9"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
ВО	20	3'-0"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
ВО	21	3'-6"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE VERTICAL DIVIDER AND TWO ADJUSTABLE SHELVES.
BS	01	3'-0"	2'-6"	2'-10"	SINK BASE UNIT WITH TWO HINGED DOORS AND TWO BLANK DRAWER PANELS.
D	1	1'-9"	2'-0"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
D	2	1'-6"	2'-6"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
DF	3	1'-4"	2'-6"	2'-6"	FILE DRAWER UNIT WITH FOLLOWERS, TWO EQUAL DRAWERS (INSIDE SIDES TO BE 9-3/4 INCHES HIGH), AND HANGER CHANNEL INTEGRAL WITH DRAWER SIDES FOR BOTH LEGAL AND LETTER FILING.
MW	01	2'-9"	1'-2"	1'-4"	WALL UNIT WITH CLOSED DOOR UPPER AND 16" TALL OPEN AREA BELOW. INCLUDE 22" DEEP SHELF FOR MICROWAVE AND CUT OUT IN BACK PANEL OF OPEN AREA FOR OUTLET (VIF). OVERALL HEIGHT TO BE 30". BASIS OF DESIGN: STEVENS HOME ART CABINET #15149.
T	11	3'-0"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES, TWO HINGED DOORS, AND SLOPED TOP.
Т	12	2'-0"	2'-6"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND ONE HINGED DOOR.
TO	10	3'-0"	2'-0"	7'-0"	TALL OPEN UNIT WITH A FIXED PANEL BELOW. OPEN CABINET ABOVE WITH THREE ADJUSTABLE SHELVES AND NO DOORS. INCLUDE SLOPED TOP.
W	1	3'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	2	3'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
WSS	1	3/4"	2'-6"	2'-6"	3/4" THICK LAMINATE WORKSURFACE SUPPORT

LIST OF FINISHES REFER TO A7 ARCH. DWG. SHEETS

# **EQUIPMENT MATERIALS**

ATHLETIC LOCKERS **COLOR SELECTION** MATERIAL ABBREVIATION MATERIAL/MANUFACTURER REFER TO SPECIFICATIONS TO BE SELECTED **ELECTRIC ROLLER WINDOW SHADES** MATERIAL ABBREVIATION MATERIAL/MANUFACTURER **COLOR SELECTION** REFER TO SPECIFICATIONS TO BE SELECTED HP PLASTIC LAMINATE **COLOR SELECTION** MATERIAL ABBREVIATION MATERIAL/MANUFACTURER STANDARD, TO BE SELECTED FORMICA / WILSONART / NEVAMAR FORMICA / WILSONART / NEVAMAR STANDARD, TO BE SELECTED FORMICA / WILSONART / NEVAMAR PREMIUM, TO BE SELECTED

**KICKPLATES** 

STAINLESS STEEL

MARKERBOARD

PLASTIC TOILET PARTITIONS/COMPARTMENTS				
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION		
	REFER TO SPECIFICATIONS	TO BE SELECTED		

**ROLLER WINDOW SHADES COLOR SELECTION** MATERIAL/MANUFACTURER MATERIAL ABBREVIATION REFER TO SPECIFICATIONS TO BE SELECTED

SHOWER CURTAINS

WHITE

SOLID SURFACE MATER	RIAL	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1 SSM-2	(NOT USED CORIAN/WHISOMART/LXHAUSYS	NOT USED 2 GROUP'4, TO BE SELECTED

**TACKBOARDS** MATERIAL/MANUFACTURER MATERIAL ABBREVIATION **COLOR SELECTION** QUARTZ COUNTERTOPS MATERIAL ABBREVIATION MATERIAL/MANUFACTURER **COLOR SELECTION** CAMBRIA / WILSONART / GROUP 1, TO BE SELECTED LX HAUSYS VIATERA

# EQUIPMENT MATERIAL GENERAL NOTES

A. CASEWORK FINISHES ARE AS FOLLOWS (UNLESS OTHERWISE NOTED):

HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED. 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-2. SUBMIT MANUFACTURER SAMPLE FOR

HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1 UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE.

3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-2. SUBMIT MANUFACTURER SAMPLE FOR VERIFICATION. HANDLES TO BE SILVER METALLIC POWDERCOAT.

HINGES TO BE SILVER METALLIC POWDERCOAT.

HINGES TO BE SILVER METALLIC POWDERCOAT.

ALL CASEWORK TO BE PROVIDED WITH LOCKS UNLESS OTHERWISE NOTED.

CASEWORK IN CONCESSION STAND TO BE PL-1 WITH QZ-1 COUNTERTOPS.

CASEWORK IN MEETING HALL TO BE PL-3 WITH SSM-2 COUNTERTOPS.

# CARMEL STADIUM SOUTH SUPPORT BUILDING

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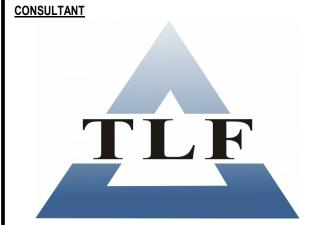
E 136th St, Carmel, IN 46032

CARMEL CLAY SCHOOLS

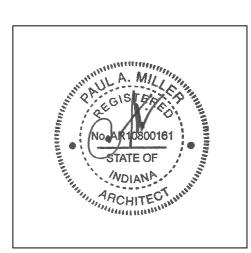




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TLF ENGINEERS



DRAWN BY: AML PROJECT NUMBER: 220136.00 PROJECT ISSUE DATE: 04-26-2023

REV. NO.△	DESCRIPTION	DATE
2	ADDENDUM #2	6-1-2023

EQUIPMENT LIST OF FINISHES & CASEWORK SCHEDULES

SYMBOL	DESCRIPTION	МН	SYI
AID	ADDRESSABLE INTERFACE DEVICE	-	
H	HEAT DETECTOR, 190 DEGREES F FIXED TEMPERATURE (UNO), CEILING MOUNTED	CLG	
P D	ROUND INDICATES CEILING MOUNTED, SQUARE INDICATES DUCT MOUNTED, PHOTOELECTRIC SMOKE DETECTOR		
FAA	FIRE ALARM ANNUNCIATION PANEL	56"	
FAP	FIRE ALARM CONTROL PANEL	-	
F <u>F</u>	AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE (HORN/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	
<u>s</u> <u>s</u>	VOICE/ALARM COMMUNICATION AUDIBLE AND VISIBLE NOTIFICATION DEVICE (SPEAKER/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	
<u>v</u> <u>v</u>	VISIBLE NOTIFICATION APPLIANCE (STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	
L L	VOICE/ALARM COMMUNICATIONS LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG	
F	MANUAL FIRE ALARM PULL STATION, AND AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE ABOVE (HORN/STROBE), WALL MOUNTED	44"/80"	
F	MANUAL FIRE ALARM PULL STATION, WALL MOUNTED	44"	
S S	VOICE/ALARM COMMUNICATIONS HORN TYPE LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG	
FH	SURFACE FIRE ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR	
SH	SURFACE SECURITY ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR	
S	ELECTRONIC RELEASE DOOR CLOSER	-	
В	FIRE ALARM BELL, WALL MOUNTED, WEATHERPROOF WHERE EXTERIOR MOUNTED	96"	

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO BOTTOM
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
	CONDUIT CONCEALED IN OR BELOW FLOOR, OR UNDER GROUND	
<b>⇒</b> X 1AL1-1	20 AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLE WITH COMMON COVER PLATE MOUNTED VERTICALLY +16" TO BOTTOM. LETTER(S) IN FRONT INDICATES LOAD TYPE, SEE BELOW. SINGLE LINE INDICATES HORIZONTAL MOUNTING, DOUBLE LINE INDICATE QUAD, DARK CENTER INDICATES ABOVE COUNTERTOP MOUNTING (44") NEMA 5-20R, UNO. CIRCUIT NUMBER (e.g. "1AL1-1") ADJACENT TO THE SYMBOL ON PLANS INDICATES PANELBOARD/CIRCUIT NUMBER SERVING RECEPTACLE, UNO.	
<b>⊕</b> <b>⊕</b>	CO COPY MACHINE CM COFFEE MAKER GF GROUND FAULT CIRCUIT INTERRUPTING TYPE M MONITOR - 60" AFF MW MICROWAVE, GFCI RECEPTACLE	
<del> </del>	R REFRIGERATOR - 48" AFF TL TWIST LOCK TR TAMPER RESISTANT U DUPLEX RECEPTACLE WITH (2) USB PORTS UR UNDER COUNTER REFRIGERATOR V VENDING MACHINE, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD.	
	VP WALL MOUNTED VIDEO PROJECTOR, 96" AFF UNO WC ELECTRIC WATER COOLER. FEED FROM 5 mA GFCI BREAKER IN PANELBOARD. WF WASHFOUNTAIN/LAVATORY. CONNECT TO NEAREST THROUGH FEED GFCI RECEPTACLE. WM WASHING MACHINE. FEED FROM 30 mA GFCI BREAKER IN PANELBOARD. WP WEATHER RESISTANT GFCI WITH IN-USE TYPE WEATHERPROOF COVER HINGED AT TOP	
	20 AMP DUPLEX RECEPTACLE FLUSH CEILING MOUNTED , NEMA 5-20R	CLG
H⊒∪	SINGLE FLUSH BOX WITH FOUR USB CHARGING PORTS, WITH DECORA STYLE COVER PLATE; MOUNTED ABOVE COUNTERTOP HEIGHT, UNO	44"
0	SPECIAL POWER RECEPTACLE, AMPS, VOLTS AND NEMA CONFIGURATION AS DEFINED ON PLANS BY CODED NOTE	16"
•	SINGLE STRAIGHT BLADE, SPECIAL RECEPTACLE, 20A, 125/250 VOLT, 3P, 4W, NEMA 14-20R	16"
<b>₽</b> T	30 AMP, 120 VOLT, SINGLE TWIST LOCK RECEPTACLE, UNO, NEMA L5-30R	16"
F	20 AMP DUPLEX RECEPTACLE IN FLUSH FLOOR MOUNTED BOX,NEMA 5-20R. USE A CAST BOX AT GRADE LEVEL, USE A STAMPED STEEL BOX FOR UPPER FLOORS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
Т	20 AMP DUPLEX RECEPTACLE IN FIRE RATED POKE-THRU FLOOR DEVICE, NEMA 5-20R. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	HIGH CAPACITY FLOOR BOX WITH 4 DUPLEX RECEPTACLES, NEMA 5-20R, UNO FOR POWER AND DATA. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	COMMUNICATIONS/POWER POLE PRE-WIRED WITH 2 DUPLEX RECEPTACLES, WITH TWO J BOX ABOVE CEILING. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-

	Branch Panel: L2												
	Location: RM B101	<b>Volts:</b> 208/120 Wye								A.I.C. Rating: 10 kA			
	Supply From: L1				Phases:	3					Mains Type: M.C.B		
	Mounting: Recessed				Wires:	4					Mains Rating: 100 A		
	Enclosure: Type 1									MCB Rating: 100 A			
Notes:	INTEGRAL SURGE PROTECTION												
СКТ	Circuit Description	Trip	Poles	Δ (	VA)	B (	VA)	C (	VA)	Poles	Trip	Circuit Description	СКТ
1	Island Receptacle #1 - RM B101 (NOTE 1)	20 A	1	180	500		17.19	,	· · ·	1	20 A	Coffee Maker - RM B101	2
3	Cooler #1 - RM B101 (NOTE 1)	20 A	1			1000	1000			1	20 A	Cooler #1 - RM B107 (NOTE 1)	4
5	Cooler #2 - RM B101 (NOTE 1)	20 A	1					1000	1000	1	20 A	Cooler #2 - RM B107 (NOTE 1)	6
7	Microwave - RM B120	20 A	1	1500	180					1	20 A	Receptacle #4 - RM B101	8
9	Receptacle #5 - RM B101	20 A	1			180	180			1	20 A	Pretzel Maker - RM B101	10
11	Receptacle #6 - RM B101	20 A	1					180	180	1	20 A	Receptacle #3 - RM B101	12
13	Island Receptacle #4 - RM B101 (NOTE 1)	20 A	1	180	1127					1	20 A	Exhaust Fan - EF-3	14
15	Island Receptacle #3 - RM B101 (NOTE 1)	20 A	1			180	180			1	20 A	Island Receptacle #2 - RM B101 (NOTE 1)	16
17	Nacho Cheese - RM B101	20 A	1					180	0	1	20 A	Spare	18
19	Island Receptacle #5 - RM B101 (NOTE 1)	20 A	1	180	1000					1	20 A	Cooler #3 - RM B101 (NOTE 1)	20
21	Ice Maker - RM B101 (NOTE 1)	20 A	1			1000	540			1	20 A	Receptacles - North countertop	22
23	Refrigerator - RM B101 (NOTE 1)	20 A	1					1000	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1	_	_			0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38

WITH 3/C, SJO CORD AND STRAIN RELIEF GRIPS.

TWO 20 AMP DUPLEX RECEPTACLES IN BOX WITH COVER PLATE, PENDANT MOUNTED

Legend:

39 Spare 41 Spare

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Motor	1127 VA	125.00%	1409 VA		
Receptacle	11520 VA	93.40%	10760 VA	Total Conn. Load:	12647 VA
				Total Est. Demand:	12169 VA
				Total Conn.:	35 A
				Total Est. Demand:	34 A

Total Amps: 41 A

NOTE 1: PROVIDE WITH 5mA GFCI BREAKER.

PLAN				L	AMPS		APPLIED						
TYPE	MANUFACTURER/CATALOG	MOUNTING	NO.	WATTS	TYPE	LUMENS		DESCRIPTION	VA LOA				
LD61	PORTFOLIO LD6A SERIES PHILIPS LIGHTOLIER C6L SERIES LITHONIA LDN6 SERIES PRESCOLITE LF6LED SERIES	RECESSED	1	22 W	LED	1500 lm	120 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED 4000K, 80+ CRI, 0-10VDC DIMMING, BAR HANGER ACCESSORY.	19 VA				
LDW61	LITHONIA LDN6 SERIES PRESCOLITE LTR-6RD SERIES H.E. WILLIAMS 6DR SERIES PORTFOLIO LD6B SERIES 2	RECESSED	1	15 W	LED	1000 lm	120 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA				
LDW61X	LITHONIA LDN6 SERIES PRESCOLITE LTR-6RD SERIES H.E. WILLIAMS 6DR SERIES PORTFOLIO LD6B SERIES	RECESSED	1	15 W	LED	1000 lm	120 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED. WITH EMERGENCY BATTERY INVERTER.	15 VA				
LDW81	LITHONIA LDN8 SERIES PRESCOLITE LTR-8RD SERIES H.E. WILLIAMS 8DR SERIES PORTFOLIO LD8B SERIES	RECESSED	1	30 W	LED	3000 lm	120 V	8-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	30 VA				
LDW81X	LITHONIA LDN8 SERIES PRESCOLITE LTR-8RD SERIES H.E. WILLIAMS 8DR SERIES PORTFOLIO LD8B SERIES	RECESSED	1	30 W	LED	3000 lm	120 V	8-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED. PROVIDE WITH EMERGENCY BATTERY INVERTER.	30 VA				
LE1X	LITHONIA AFB SERIES EVENLITE WEATHERWAY SERIES COMPASS CUW SERIES	SURFACE WALL	1	11 W	LED	1000 lm	120 V	OUTDOOR EMERGENCY LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, SELF-DIAGNOSTICS, INTEGRAL PHOTOCELL, WIRED NORMALLY ON, PROVIDE WITH EMERGENCY BATTERY INVERTER, WET LOCATION, 3200K, DARK BRONZE.	11 VA				
LF1	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES DAYBRITE 2FPZ SERIES	RECESSED	1	32 W	LED	4000 lm	120 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 10% DIMMING.	32 VA				
LF1X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES DAYBRITE 2FPZ SERIES	RECESSED	1	32 W	LED	4000 lm	120 V	1 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 10% DIMMING WITH EMERGENCY BATTERY INVERTER.	32 VA				
LF5	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES CREE C-LITE SERIES	RECESSED	1	48 W	LED	5400 lm	120 V	2 BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V 1% DIMMING	48 VA				
LF5X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES CREE C-LITE SERIES	RECESSED	1	53 W	LED	6000 lm	120 V	2 BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V 1% DIMMING WITH EMERGENCY BATTERY INVERTER.	53 VA				
LR2	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48 W	LED	4000 lm	120 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA				
LR2X	METALUX WNLED SERIES DAY-BRITE OWL SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SUSPENDED	1	48 W	LED	4000 lm	120 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY BATTERY INVERTER. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA				
LS1	COOPER INVUE MESA SERIES	20'-0" ROUND ALUM. POLE	1	171 W	LED	19000 lm	120 V	FULL CUT-OFF LED AREA LIGHT. TYPE T3/DISTRIBUTION. 4000K, 80+ CRIVELACK FINISH. REFER TO ALLOWANCE IN ADDENDUM ALLOWANCE SECTION.	171 VA				
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE CEILING	1	3 W	RED LED	0 lm	120 V	VANDAL RESISTANT, CAST ALUMINUM EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING, WITH EMERGENCY BATTERY INVERTER. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA				

		POWER SYMBOLS			LIGHTING SYMBOLS
NG TO	SYMBOL	DESCRIPTION	МН	SYMBOL	DESCRIPTION
M		SURFACE CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	-	€ T	OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 200 S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "A" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.
	<u> </u>	FLUSH MOUNTED CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	1	€Û)	OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC, 360 DEGREE PATTERN, 2000 S.F. C PROVIDE WITH RELAY OPTION. "A" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.
	H•	PUSH BUTTON STATION, TYPE INDICATED	44"	ĈŢ	OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, DIRECTIONAL/180 DEGREE 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILINGMOUNTII ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION OF SYMBOL INDIC
	H••	PUSH BUTTON STATION, ON/OFF	44"	\$T	OCCUPANCY SENSOR - WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE SWITCH
	H•••	PUSH BUTTON STATION, UP/DOWN/STOP	44"	<b>SI</b>	OCCUPANCY SENSOR - WALL SWITCH TYPE, INFRARED WITH MANUAL OVERRIDE SWITCH
	<b>1</b>	RECESSED ADA PUSH BUTTON FOR AUTOMATIC DOOR OPERATOR, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"	<del> </del>	KEY OPERATED SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO
				<del>- 69-</del> 3	SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO
	<b>±</b>	RECESSED ADA DOUBLE PUSH BUTTON FOR DUAL AUTOMATIC DOOR OPERATORS, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"	<del>v)</del> a	SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO TYPICAL, SUBSCRIPT a, b, c INDICATES WHICH LUMINAIRE THAT WILL BE CONTROLLED VIA SWITCH LEG
	台	RED MUSHROOM ABORT SWITCH, WALL MOUNTED	44"	<del>-∽</del> D	WALL BOX DIMMER 277V, 1200 WATT MINIMUM, FLUSH, UNO. PROVIDE WATTAGE SIZE TO EXCEED CIRCUIT LOAD
	(H)	RECESSED WALL BOX FOR HAND DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED		LC	LIGHTING CONTACTOR, MECHANICALLY HELD, 30A - 3P WITH H-O-A SWITCH, UNO
	(n)	THE BOXT STATE WILL BOXT STATE WILL STATE	-		DOWNLIGHT LUMINAIRE, APPROXIMATE SIZE INDICATED
		NON-FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNOWP SUFFIX DESIGNATES NEMA 3R ENCLOSUREWP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	48"		DOWNLIGHT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
	<b>F</b> 100A-3P	FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNOWP SUFFIX DESIGNATES NEMA 3R ENCLOSUREWP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	48"		WALL SCONCE LUMINAIRE
	<del></del>	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION AND PILOT LIGHT, UNO. FLUSH MOUNTED IN FINISH SPACES.	44"	$\bigcirc$	WALL MOUNTED EXIT SIGN, DIRECTIONAL ARROWS AS SHOWN
					CEILING MOUNTED EXIT SIGN, SHADED PORTION(S) INDICATES SINGLE OR DOUBLE FACE
	<del>-∽</del> -M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, UNO. FLUSH MOUNTED IN FINISH SPACES.	44"		TRACK HEAD LUMINAIRE
	<del>∽</del> F	MANUAL MOTOR STARTER, NO OVERLOADS. FLUSH MOUNTED IN FINISH SPACES.	44"		EMERGENCY LIGHTING UNIT WITH 2 HEADS AND BATTERY
	<del>∽</del> T	SPRING WOUND TIMER, HP RATED	44"		WALL-BRACKET LUMINAIRE, APPROXIMATE SIZE INDICATED
	<del>-                                    </del>	CONTROL SWITCH FOR DEVICES SUCH AS MOTORIZED SHADES, SOLAR LIGHT TUBES, PROJECTION SCREENS, ETC. FURNISHED BY OTHERS, INSTALLED FLUSH MOUNTED WITH	44"		WALL-BRACKET LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
		COVER PLATE AND WIRED BY DIV. 26	00"		RECESSED LUMINAIRE, APPROXIMATE SIZE INDICATED. ("NL", INDICATES NIGHT LIGHT FIXTURES)
	ТС	DIGITAL TIME CLOCK SWITCH	60"		
	VFC	VARIABLE FREQUENCY CONTROLLER, FURNISHED BY DIV. 23 CONTRACTOR, INSTALLED BY DIV. 26 CONTRACTOR, UNO. COORDINATE FINAL MOUNTING HEIGHT.	60"		RECESSED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
	T	THERMOSTAT	-		SURFACE OR PENDANT MOUNTED LUMINAIRE, APPROXIMATE SIZE INDICATED
	9	MOTOR	-		SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS IND
	T	DRY TYPE TRANSFORMER	-	•	PENDANT LUMINAIRE, APPROXIMATE SIZE INDICATED
	SPD	SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS.	-		PENDANT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
(T		A. HINICTION DOV. DICTAIL INDICATED ELEVIDI E CONDUIT CONNECTION TO FOLIDMENT			AIMABLE LUMINAIRE, CARROT INDICATING DIRECTION OF AIMING

	Branch Panel: L1  Location: RM B102  Supply From: UTILITY CO. TF  Mounting: Surface Enclosure: Type 1  INTEGRAL SURGE PROTECTION  VICE ENTRANCE RATED PANELBOARD	RANSFORMER	2			Volts: Phases: Wires:		Wye				A.I.C. Rating: 10 kA Mains Type: M.C.B Mains Rating: 400 A MCB Rating: 400 A	
CKT	Circuit Description	Trip	Poles		4000	Е	3		С	Poles	Trip	Circuit Description	CI
3	Fire Alarm Panel Countertop Recept #1 - RM B107	20 A 20 A	1	50	1308	180	720			1	20 A 20 A	West Buidling - East Lighting Outdoor Receptacles - West Building	
5	Door Power Supplies	20 A	1			100	120	400	720	1	20 A	Technology Receptacles - RM B103	
7	Exterior Lighting	20 A	1	1346	1080					1	20 A	Outdoor Receptacles - East Building	
9	Monitors - RM A102, A109	20 A	1			900	1356			1		West Buidling - West Lighting	•
11	Monitors - RM B118	20 A	1					900	1173	1		East Building - Meeting Hall Lighting	
13	Receptacles - Locker Rooms	20 A	1	1800	1840					1		Exhaust Fan - EF-1	1
15	East Building - Support Spaces Lighting	20 A	1			1689	1500	4250	700	1	20 A	Microwave - RM B107	1
17 19	Monitors - RM 111 Panel L2 (NOTE 3)	20 A 100 A	3	4847	180			1350	736	1	20 A 20 A	Exhaust Fans - EF-2 & EF-4 Temperature Control Panel	2
21	railei LZ (NOTE 3)	100 A		4047	160	4260	180			1	20 A	Water Cooler - RM C103 (NOTE 4)	
23	<del>  -</del>					4200	100	3540	180	1	20 A	Water Cooler - RM C107 (NOTE 4)	
25	Countertop Recept #3 - RM B107	20 A	1	180	540					1	20 A	East Wall Receptacles - RM B107	
7	Countertop Recept #4 - RM B107	20 A	1			180	540			1	20 A	Receptacles - RM B102 & B103	
9	Countertop Recept. #2 - RM B107	20 A	1					180	540	1	20 A	Receptacles - RM A103	(
1	Receptacles - Office 114	20 A	1	900	1000					3	20 A	Ceiling Heater ECLH-1	
3	Receptacles - RM A102	20 A	1			540	1000						;
5	Restroom Receptacles - East Building	20 A	1	1000	1000			900	1000				
7	Ceiling Heater ECLH-2	20 A	3	1000	1000	4000	4000			3		Ceiling Heater ECLH-3	
9						1000	1000	1000	1000			<del></del>	4
1	Propeller Unit Heater EDUH 1	 20 A		1100	1222			1000	1000		 20 A	Coiling Heaters ECLH 4 9 5	4
13 15	Propeller Unit Heater EPUH-1	20 A	3	1100	1333	1100	1333			3	20 A	Ceiling Heaters ECLH-4 & 5	4
17 17						1100	1333	1100	1333				
., 19	Cabinet Unit Heater - ECUH-2	20 A	3	1667	1667			1100	1333	3	20 A	Cabinet Unit Heater - ECUH-3	
51				1007	1007	1667	1667						
53								1667	1667				
55	Cabinet Unit Heater - ECUH-1 (NOTE 2)	40 A	3	3333	8243					3	100 A	Roof Top Unit RTU-2 (NOTE 5)	
57						3333	8243						
9								3333	8243				(
1	Roof Top Unit RTU-1 (NOTE 1)	125 A	3	9529	720					1	20 A	Receptacles - Coaches Offices, Bathrooms	(
3						9529	684			1		Site Light Poles	(
5								9529	360	1	20 A	Future Game Clocks - RM A103 & A107	- (
7	Coiling Door - RM A107	20 A	1	1127	1380					1	20 A	Roller Shades - RM B107	- 6
9	Heat Trace (30 mA GFCI)	20 A	1			500	0			1		Spare	
1	Spare	20 A	1	-				0	0	1		Spare	
'3 '5	Spare	20 A	1	0	0		0			1		Spare	-
'5 '7	Spare Spare	20 A 20 A	1			0	0	0	0	1		Spare Spare	-
7 '9	Spare	20 A 20 A	1	0	0			U	U	1		Spare Spare	8
9 31	Spare	20 A	1	J	J	0	0			1		Spare	8
3	Spare	20 A	1					0	0	1		Spare	
			al Load:	4717	'0 VA	4310	1 VA	_	51 VA	•		· ·	
geno	d:	Tota	I Amps:	390	6 A	362	2 A	34	0 A				
	Classification		nected L			nand Fa			nated De			Panel Totals	
ghting otor lectric Heat			7556 VA			100.00%			7556 VA				
			6210 VA			107.41%	)		6670 VA			Total Conn. Load: 131122 VA	
			36400 VA			90.00%		32760 VA				Total Est. Demand: 113790 VA	
AC	aala		3316 VA			90.00%			47984 VA			Total Conn.: 364 A	
cepta	acie		27640 V	١		68.09%			18820 VA	١		Total Est. Demand: 316 A	

**LUMINAIRE SCHEDULE - GENERAL NOTES** FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY BATTERY INVERTERS AND PROVIDE REQUIRED QUANTITY OF EMERGENCY BATTERY INVERTERS, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY BATTERY INVERTERS. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR DRIVER COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY

CUSTOM COLOR LIGHT FIXTURES.

ELECTRICAL GENERAL NOTES

CLG

48"

CLG

CLG

CLG

CLG

CLG

OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC, 360 DEGREE PATTERN, 2000 S.F. COVERAGE.

OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, DIRECTIONAL/180 DEGREE PATTERN,

ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION OF SYMBOL INDICATES AIMING.

1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILINGMOUNTING BRACKET CLG

SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED

THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL PLANS, CASEWORK, WINDOWS, WALL FINISHES, EQUIPMENT, AND OTHER TRADES PRIOR TO ROUGH IN. DEVICES ARE INTENDED TO BE ACCESSIBLE, DO NOT INSTALL BEHIND CASEWORK, DOORS OR EQUIPMENT UNLESS INDICATED ON PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND NATIONAL CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC. CONFLICTS BETWEEN THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. E3 SERIES DRAWINGS ARE FOR TECHNOLOGY ROUGH-INS

REFER TO TECHNOLOGY PLANS, T SERIES FOR COMMUNICATIONS, SECURITY AND ACCESS CONTROL CONTRACTOR SHALL FOLLOW SEISMIC RESTRANT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES WITH ALL AMENDMENTS AS ADOPTE ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FO A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING. INITIATING WORK CONSTITUTES CONTRACTOR ACCEPTANCE OF THE EXISTING CONDITIONS ASSOCIATED WITH THE WORK IN QUESTION.

CONTRACTOR SHALL CONTACT UTILITIES AND VERIFY UTILITY REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE UTILITY COMPANY TO REVIEW REQUIREMENTS. INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS.

THESE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION 

E 136th St, Carmel, IN 46032 MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFE PRACTICES. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, AND CONDUIT, ETC. THE EXACT LOCATIONS AND ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S

VENDORS, OTHER TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE AN INSULATED GROUND CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH FEEDER AND PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS. MINIMUM WIRE SIZE IS #12 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS. INSIDE WALLS. OR UNDER

FLOOR SLAB WHERE SHOWN ON DRAWINGS. IN AREAS WITH NO CEILING, RUN EXPOSED CONDUIT AS HIGH AS POSSIBLE AND PARALLEL TO NEARBY SURFACES OR EXISTING RACEWAYS. CONDUIT SHALL

NOT BE INSTALLED IN FLOOR SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND WHERE

APPROVED BY STRUCTURAL ENGINEER. DO NOT INSTALL MC CABLE IN EXPOSED LOCATIONS. CONTRACTOR SHALL PROVIDE RIGID METAL SLEEVES TO FACILITATE PATHWAYS THROUGH FULL HEIGHT WALLS FOR ELECTRICAL AND TELECOMMUNICATION WIRING. PROVIDE TEMPORARY OR PERMANENT END CAPS FOR STUBBED CONDUITS. PROVIDE INSULATED THROAT BUSHINGS FOR CONDUITS INTENDED TO REMAIN OPEN ENDED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED ASSEMBLIES AND SMOKE BARRIERS. SEAL PENETRATIONS IN ACCORDANCE WITH UL AND PROJECT SPECIFICATIONS. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO BOTTOM OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF

PROVIDE SOUND INSULATING PUTTY AROUND DEVICES INSTALLED ON OPPOSITE SIDES OF A WALL IN THE SAME VERTICAL CHANNEL. IF DEVICES ARE LOCATED AT LEAST 8" HORIZONTALLY APART NO SOUND INSULATING PUTTY IS REQUIRED. COORDINATE CEILING MOUNTED DEVICES WITH MECHANICAL AND ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

CONDUITS DESIGNATED AS EMPTY OR FUTURE SHALL BE PROVIDED WITH A #12 PULL LINE. OPEN

FOR LUMINAIRES, CIRCUIT NUMBER IS SHOWN ONLY ONCE IN EVERY ROOM. PROVIDE CIRCUIT

ENDED CONDUITS SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS.

WIRE SIZE #10AWG.

INDICATED TO EVERY LIGHT FIXTURE INDICATED IN SAME ROOM UNLESS OTHERWISE INDICATED. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL ELECTRICAL PANELS INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANELS, LIGHTING CONTROL PANELS. POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF 72" AFF. PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION WHERE CONDUITS CROSS BUILDING EXPANSION PROVIDE SEPARATE RACEWAY FOR EMERGENCY SYSTEM WIRING PER NEC ARTICLE 700. MINIMUM

ALL CONDUITS SHALL INCLUDE AN INSULATED GROUND WIRE, SIZED PER N.E.C. AUTODOORS AND WHEELCHAIR LIFT PROVIDED AND INSTALLED BY OTHERS. PROVIDE CONDUIT AND BOX ROUGH-INS FOR MOTORS AND PUSHBUTTONS. MAKE FINAL POWER CONNECTIONS. ALL CONTROL WIRING BY OTHERS. MASONRY LOAD-BEARING WALLS AND MASONRY SHEAR WALLS: DO NOT PENETRATE CMU WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CMU BOND BEAMS OR LINTELS. DO NOT CUT ANY VERTICAL REINFORCING IN CMU WALLS. OBTAIN PRIOR APPROVAL FROM ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE.

CONCRETE BEARING WALLS AND BEAMS: DO NOT PENETRATE CONCRETE WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CONCRETE BEAMS, GIRDERS, OR COLUMNS. DO NOT CUT ANY VERTICAL REINFORCING IN CONCRETE WALLS. OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE. STEEL FRAMING: DO NOT CUT OR CORE THROUGH ANY STRUCTURAL STEEL BEAMS, GIRDERS, OR COLUMNS UNLESS NOTED OTHERWISE ON PLAN. NOTIFY ENGINEER OF POTENTIAL CONFLICTS BETWEEN FRAMING AND ELECTRICAL WORK. CONCRETE FLOOR SYSTEMS (APPLIES TO CONCRETE BLDG. OR STEEL WITH CONCRETE DECK, MASONRY W/ CONC. FLOOR): DO NOT CUT HOLES OR CORE THROUGH CONCRETE FLOOR SLAB

UNLESS NOTED OTHERWISE ON PLAN OR IN TYPICAL STRUCTURAL DETAILS. PENETRATIONS THROUGH EXISTING SLABS SHALL BE X-RAYED PRIOR TO CORING HOLES. NO EXISTING REINFORCEMENT SHALL BE CUT WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH EXISTING BEAMS AND COLUMNS IS NOT PERMITTED.

<u></u>			VIATION
	ABBREVIATIONS USED ON T INCLUDE BUT ARE NOT LIMIT		
#	NUMBER	MLO	MAIN LUGS ONLY
(N)P(N)W	NUMBER OF POLES,	MOCP	MAXIMUM OVER-CURRENT
	NUMBER OF WIRES	MTD	PROTECTION MOUNTED
ACU	AIR CONDITIONING UNIT	MTG	MOUNTING
AF	AMP FRAME	MV	MEDIUM VOLTAGE
AFC	ABOVE FINISHED COUNTERTOP		
AFF	ABOVE FINISHED FLOOR	N	GROUNDED CIRCUIT CONDUC
AFG	ABOVE FINISHED GRADE	+N	(NEUTRAL) INDICATES MOUNTING HEIGH
AIC	AMPERE INTERRUPTING CAPACITY	TIN	BOTTOM OF DEVICE FROM FIR
AID	ADDRESSABLE INTERFACE		FLOOR, UNO
	DEVICE	N/A	NOT APPLICABLE
AR	AS REQUIRED	NC	NORMALLY CLOSED
AT	AMP TRIP	NFS	NONFUSIBLE SWITCH
AWG A/V	AMERICAN WIRE GAUGE AUDIO VISUAL	NIC NL	NOT IN CONTRACT NIGHT LIGHT
AIV	AUDIO VISUAL	NL NM	NONMETALLIC SHEATHED CA
В	BLANK	NO	NORMALLY OPEN
		NRTL	NATIONALLY RECOGNIZED TE
С	CONDUIT (GENERIC TERM FOR		LAB
	RACEWAY, PROVIDE AS	NTS	NOT TO SCALE
Cd	SPECIFIED) CANDELA	ОС	ON CENTER
CLG	CEILING MOUNTED	OCPD	OVER-CURRENT PROTECTIVE
CAM	CAMERA	001 5	OVER CONTREM PROTECTIVE
CL	LIGHTING CONTACTOR	PA	PUBLIC ADDRESS SYSTEM
COL	COLUMN	PB	PULL BOX
CUH	CABINET UNIT HEATER	PH	PROPELLER HEATER
DC	DIRECT CURRENT	PIV PR	POST INDICATING VALVE PAIR
DED	DEDICATED DEVICE ON	PUH	PROPELLER UNIT HEATER
	INDIVIDUAL BRANCH CIRCUIT		
DF	DUAL FACE	R	RELEASE
DIA	DIAMETER	RAF	RETURN AIR FAN
DISTR	DISTRIBUTION	RT	RAIN-TIGHT
EBJ	EQUIPMENT BONDING JUMPER	S	SURFACE
250	LOAD SIDE OF AN OVER-	SBJ	SYSTEM BONDING JUMPER
	RRENT DEVICE	SN	SOLID NEUTRAL
EC	ELECTRICAL CONTRACTOR	SP	SPARE
EM	WIRED ON EMERGENCY	SPL	SPLICE
EOL	CIRCUIT END OF LINE	SS SSBJ	STAINLESS STEEL SUPPLY-SIDE BONDING JUMP
ETR	EXISTING TO REMAIN	ST	SHUNT TRIP
EWC	ELECTRIC WATER COOLER	STP	SHIELDED TWISTED PAIR
EX	EXISTING	STL	CARBON STEEL
_	ELLIQU	SUSP	SUSPENDED
F F@	FLUSH FUSED AT	SW	SWITCH
F@ FA	FIRE ALARM	тс	TELEPHONE CABINET
FBO	FURNISHED BY OTHERS	TCP	TEMPERATURE CONTROL PAI
FCU	FAN COIL UNIT	TEL/DATA	TELEPHONE/DATA
FDN	FOUNDATION	TEL	TELEPHONE
FPB	FAN POWERED BOX	TERM	TERMINAL(S)
		TGB	TELECOMMUNICATIONS GRO

UV

KNOCK-OUT

LIMIT SWITCH

LOW VOLTAGE

MC/ER

LIQUIDTIGHT FLEXIBLE

LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT

MAIN BONDING JUMPER

MAIN CIRCUIT BREAKER

MANHOLE (ON SITE PLAN)

MOUNTING HEIGHT (ON PLAN),

ALL MOUNTING HEIGHTS FOR

FINISHED FLOOR TO BOTTOM

DEVICE BOXES ARE FROM

OF BOX, UNO. VERIFY OUTLET

TRADES BEFORE ROUGH-IN

LOCATIONS WITH OTHER

MAIN CROSS-CONNECT

/EQUIPMENT ROOM

METALLIC CONDUIT

CARMEL STADIUM

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CARMEL CLAY SCHOOLS





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CONSTRUCTION DOCUMENTS

CONSULTANT

**ELECTRICAL ABBREVIATIONS** 

CONDUCTOR G HEIGHT (N) TO FROM FINISH THED CABLE NIZED TESTING TECTIVE DEVICE STEM

IMPER DING JUMPER

TROL PANEL TELECOMMUNICATIONS GROUNDING BUSBAR TELECOMMUNICATIONS MAIN

GROUNDING BUSBAR TELEPHONE TERMINATION BOARD UNDERGROUND UNLESS NOTED OTHERWISE UNIT VENTILATOR

VANDAL GUARD VERIFY IN FIELD VAPOR-TIGHT WIRE GUARD WATTHOUR

WALL MOUNTED WEATHERPROOF

WATER-TIGHT

1 ADDENDUM 1 05-25-23 ADDENDUM 2 06-01-23

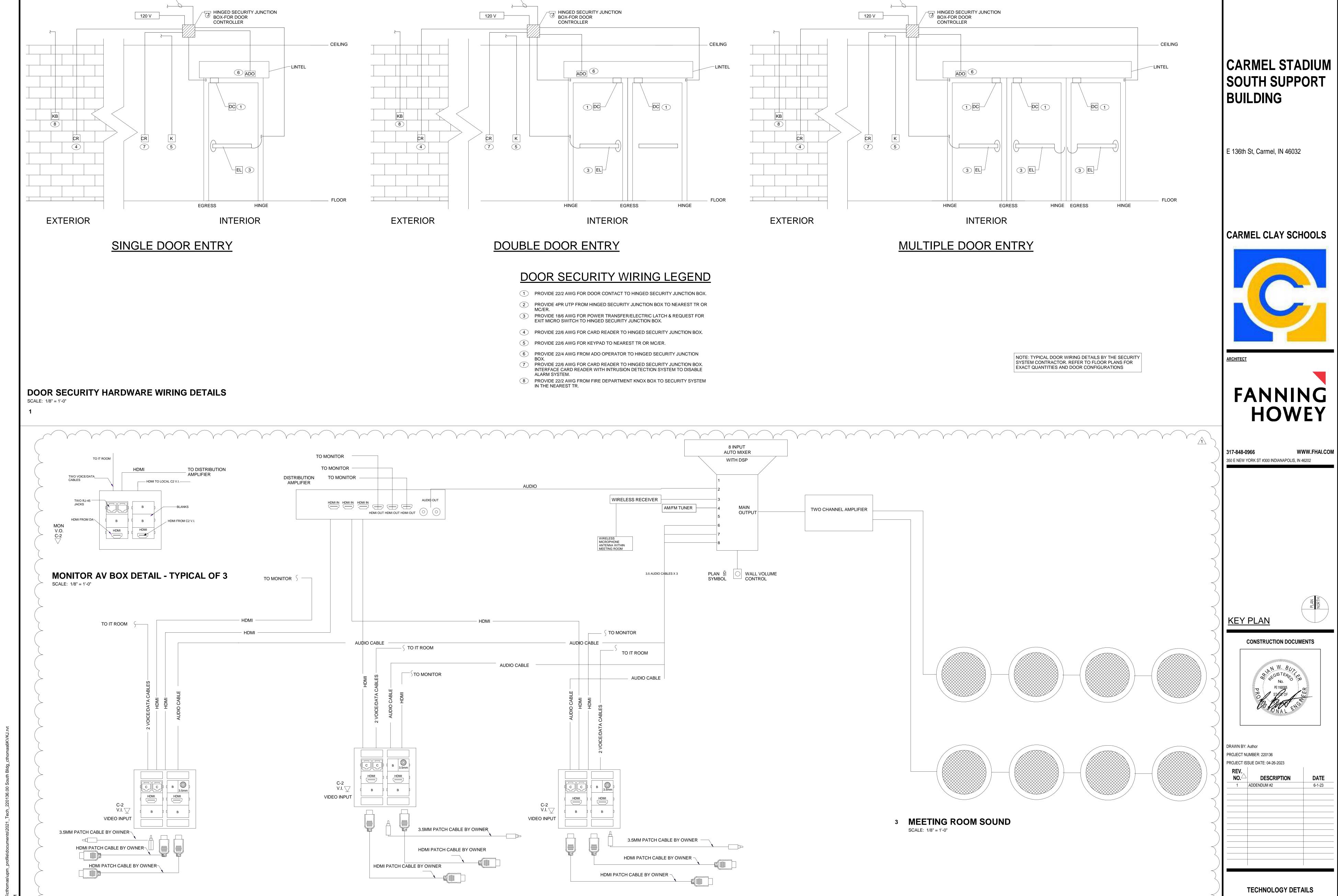
DESCRIPTION

DATE

DRAWN BY: AMN

PROJECT NUMBER: 220136.00 PROJECT ISSUE DATE: 04-26-2023

> **ELECTRICAL SYMBOL LEGEND & SCHEDULES**



MEETING ROOM A/V WIRING

AUDIO CABLES – PROVIDE PLENUM RATED JACKET, MINIMUM 22 GA TWO CONDUCTOR STRANDED COPPER WITH 100% FOIL SHIELD, WITH STRANDED TINNED COPPER DRAIN WIRE, WITH 3.5 MM JACKS.

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