DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☑ No ☐)

Deferred Submittal ☐	Addendum Number: 1	Revision Number:	CCD Number:	Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Bakersfield City School District	DSA File Number: 15 6
Project Name/School: Dr. Martin Luther King Jr. Elementary School	DSA Application Number 03 122604

3. APPLICANT INFORMATION:

Date Submitted: 12/19/24	Attached Pages? No ☐ Yes ☑ Number of pages? 70		
Firm Name: Integrated Designs by SOMAM, Inc.	Contact Name: Sean Parker		
Work Email: sparker@somam.com	Work Phone: (559) 436-0881		
Firm Address: 6011 N. Fresno Street, Suite 130	City: Fresno	State: CA	Zip Code: 93710

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☑ For revision or addendum prior to construction. ☐ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Curtis E. Flynn

Professional License Number: C28966 Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Final Coordination Items, Please see Project Manual

List of DSA-approved drawings affected by this post-approval document:

C1.0, C1.1, L1.01, L1.02, A0.01, A1.02, A1.03, A2.10, A4.10, A5.10, A6.10, A7.02, A7.03, S2.01, S3.01, S4.01, S6.01, S7.02, S7.03, M0.01, M0.11, M2.11, M3.11, E-1.0, E-3.0, E-4.0, E-5.0

DSA USE ONLY

SSS KK Date 02/11/25 ☐Approved ☒Disapproved ☐Not Required

Comments: _____

FLS EJ Date 12.30.24 ☒Approved ☐Disapproved ☐Not Required

Comments: _____

ACS SC Date 02/14/2025 ☒Approved ☐Disapproved ☐Not Required

Comments: _____

Returned	DSA STAMP
Date:	APPROVED DIV. OF THE STATE ARCHITECT APP: 03-122604 INC: 0 REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 02/25/2025
By:	

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-122604 INC: 0
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2025

ADDENDUM NO. 1

PROJECT MANUAL

MLK ELEMENTARY SCHOOL
PARENT CENTER
BAKERSFIELD CITY SCHOOL DISTRICT

Project No.: 5528
DSA File No. 15-6
DSA App No. 03-122604
December 19, 2024

This Addendum and Addendum drawings form a part of the Contract Documents. It modifies the original Project Manual and Drawings. Bidders are required to acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to acknowledge receipt of each addendum may subject bidder to disqualification.

GENERAL

1-01 **BID FORM:** replace Bid Form and Proposal document 004113 in its entirety. See Exhibit 1-01

1-02 The contractor shall install owner furnished HVAC equipment per Exhibit 1-02.

1-03 District will provide Pelican Thermostat. Contractor to install. See Exhibit 1-03.

1-04 District will cut and cap existing irrigation lines as necessary for construction of new building.

PROJECT MANUAL

1-05 **PROJECT MANUAL, SPECIFICATION SECTION 000010 – TABLE OF CONTENTS:** Replace specification section 000010 in its entirety. See Exhibit 1-05

1-06 **PROJECT MANUAL, SPECIFICATIONS SECTION 097217 – VINYL COVERED TACKBOARD:** Add the following to Part 2, Section C:

15. Color: Match Chatfield Clarke Company, INC Color Ceres Fog.

1-07 **PROJECT MANUAL, SPECIFICATION SECTION 271000 – STRUCTURED CABLING SYSTEM:** Add specification section 271000 in its entirety. See Exhibit 1-07.

DRAWINGS

CIVIL

1-08 **DRAWING, SHEET C1.0 – GRADING PLAN:** Note the following changes (see C1.0 addendum 1 drawing):

1. Utility yard has been added to the Southwest corner of the building.

1-09 **DRAWING, SHEET C1.1 – SEWER AND WATER PLAN:** Not the following changes (See C1.1 addendum 1 drawing):

1. Water point of connect has changed.
2. Utility yard has been added to Southwest corner of the building.

LANDSCAPE

1-10 **DRAWING, SHEET L1.01 – LANDSCAPE PLAN:** Plan has been updated to show utility yard at Southwest corner of the building. (See L1.01 addendum 1 Drawing):

1-11 **DRAWING, SHEET L1.02 – IRRIGATION PLAN**: Plan has been updated to show utility yard at Southwest corner of the building. Irrigation line has been adjusted accordingly. See L1.02 addendum 1 drawing

ARCHITECUTURAL

1-12 **DRAWING, SHEET A0.01 – SCHEDULES:** Note the following changes (See A0.01 Addendum 1 drawing):

1. Mag locks added to doors 101A and 101B
2. Walk off carpet tiles are added to room 101-see floor plan for locations
3. Add plywood over GYP board in room 103. On the North and East walls.
4. Add plywood to the abbreviations.
5. Change ceiling height to 9'-0" in room 103.

1-13 **DRAWING, SHEET A1.02 – ENLARGED SITE PLAN:** Note the following changes (See A1.02 Addendum 1 drawing)

1. POC locations for the water line has been modified.
2. A utility yard has been added at the Southwest corner of the building. See Detail 12/A1.03
3. Keynotes 4 and 7 have been modified.
4. Planter symbols has been added to the legend.
5. Turf areas east of the new building have been replaced with planters. See keynote 19.

1-14 **DRAWING, SHEET A1.03 – SITE DETAILS:** Note the following changes (See A1.03 Addendum 1 drawing):

1. Add detail 12/A1.03 for new utility yard.
2. Add detail 13/A1.03 for new decorative gate.
3. Add detail 14/A1.03 for new housekeeping pad.

1-15 **DRAWING, SHEET A2.10 – FLOOR PLAN:** Note the following changes (See addendum 1 drawing):

1. Dimensions for pilasters and columns have been changed.
2. Electrical and low voltage panels in room 103 have been changed. See keynotes 21, 22, 24, 25 and 26 and Interior Elevations 3/A5.10
3. Add IDF cabinet to room 101. See keynote 20.
4. Add cabinets to room 101. See keynote 19.
5. Add mag lock pad at doors 101A and 101B. See keynote 28.
6. Add walk off carpet tiles to room 101. See keynote 27.
7. Add security keypad next to door 101A. See keynote 23.
8. Change markerboards to 4'-0" long. See keynote 2.
9. Keynotes 7, 8 and 12 have been modified.

1-16 **DRAWING, SHEET A4.10 – ROOF PLAN:** Note the following changes (See A4.10 addendum 1 drawings):

1. Revise key note 6.
2. Add outdoor unit. See keynote 12.
3. Add roof walk mats. See keynote 13
4. Add hose bibb. See keynote 14.
5. Add roof vent penetrations. See keynote 15.
6. Add condensate pipe. See keynote 16.

1-17 **DRAWING, SHEET A5.10 – INTERIOR ELEVATIONS:** Note the following changes (See A5.10 addendum 1 drawings):

1. Elevation “A” classroom 101:
   i. Add IDF cabinet. See keynote 32.
   ii. Add full height cabinet. See keynote 38.
2. Elevation “C” classroom 101:
   i. Change markerboards to 4’-0” long. See keynote 5.
3. Elevation “D” classroom 101:
   i. Add IDF cabinet. See keynote 32.
4. Electrical room 103:
   i. Add elevations B, C and D
   ii. Modify Elevation A.

1-18 **DRAWING, SHEET A6.10 – REFLECTED CEILING PLAN:** Note the following changes (See A6.10 addendum 1 drawing):

1. Modify keynote 8
2. Add indoor air unit to room 103. See keynote 17.
3. Add 4x surface mounted light fixture to the legend.

1-19 **DRAWING, SHEET 7.02 – EXTERIOR DETAILS:** Note the following changes (See A7.02 addendum 1 drawing):

1. Replace roof drain details 2/A7.02 and 3/A7.02.
2. Add pipe penetration detail 6/A7.02
3. Add electrical room section detail 15/A7.02.

1-20 **DRAWING, SHEET A7.03 – EXTERIOR DETAILS:** Note the following changes (See A7.03 addendum 1 drawing):

1. Details 10, 11 and 12 have new dimensions and show correct locations of the steel columns.

STRUCTURAL

1-21 **DRAWING, SHEET S2.01 – FOUNDATION PLAN:** Note the following changes (See S2.01 addendum 1 drawing):

1. Dimensions for columns and pilasters have been changed.

1-22 **DRAWING, SHEET S3.01 – CEILING FRAMING PLAN:** Note the following changes (See S3.01 addendum 1 drawing):

1. Add ceiling framing to electrical room.
2. Add attic access door framing at covered walkway.

1-23 **DRAWING, SHEET S4.01 – ROOF FRAMING PLAN:** Note the following changes (See S4.01 addendum 1 drawing):

1. Dimensions for columns and pilaster have been changed.

1-24 **DRAWING, SHEET S6.01 – FOUNDATION DETAILS:** Note the following changes (See S6.01 addendum 1 drawings):

1. Details 3 and 6 the column pocket depth has bene changed to 6”.
2. Detail 9 concrete ledge has been added for the block veneer.

1-25 **DRAWING, SHEET S7.02 – FRAMING DETAILS:** Note the following changes (See S7.02 addendum 1 drawing):

1. Detail 2/S7.02 has been deleted.
2. Detail 1/S7.02 has been modified

1-26 **DRAWING, SHEET S7.03 – FRAMING DETAILS:** Note the following changes (See detail S7.03 addendum 1 drawings):

1. Detail 2/S7.03 and 7/S7.03 has been added.
2. Detail 4/S7.03 has been modified

MECHANICAL

1-27 **DRAWING, SHEET M0.01 – GENERAL NOTES-LEGEND:** Note the following changes (See M0.01 addendum 1 drawing):

1. Add OFCI “Owner Furnished Contractor Installed” to schedules

1-28 **DRAWING, SHEET M0.11 – DETAILS:** Note the following changes (See M0.11 addendum 1 drawing):

1. Add detail 8 and 13.M0.11 in their entirety.

1-29 **DRAWING, SHEET M2.11 – HVAC PLAN:** Note the following changes (See M2.11 Addendum 1 drawing):

1. Change location of wireless repeater in room 103. See keynote 3.
2. Change locations of thermostat and CO2 detector. See keynote 6.
3. Keynotes 1, 2, 4, 5, and 6 have been modified.

4. Legend have been added.

1-30 **DRAWING, SHEET M3.11 – PLUMBING PLAN:** Note the following changes (See M3.11 addendum 1 drawing):

1. Point of connection for water line has changed.
2. Keynotes 3, 8 and 10 have been modified.
3. Legend has been added.

ELECTRICAL

1-31 **DRAWING, SHEET E-1.0 – GENERAL NOTES, SYMBOLS AND DETAILS:** Note the following changes (See E1.0 addendum 1 drawing):

1. Update panel schedule LPC-1.

1-32 **DRAWING, SHEET E-3.0 – ENLARGED ELCTRICAL SITE PLAN:** Note the following changes (See E3.0 addendum 1 drawing):

1. (N)transformer and electrical panel locations have been changed.
2. (N)pull box locations have changed.

1-33 **DRAWING, SHEET E-4.0 – ELECTRICAL FLOOR PLAN:** Note the following changes (See E4.0 addendum 1 drawing):

1. Add electrical notes.
2. Add panels to electrical room.
3. Add mag lock FOB at exterior doors.
4. Add WAP and PA speaker.
5. Add exterior PA speakers.

1-34 **DRAWING, SHEET E-5.0 – LIGHTING AND FIRE ALARM PLANS:** Note the following changes (See E5.0 addendum 1 drawing):

1. Add panels to electrical room.
2. Add light fixture to electrical room.

END ADDENDUM NO. 1

DOCUMENT 00 41 13

BID FORM AND PROPOSAL

To: Governing Board of the Bakersfield City School District ("District" or "Owner")

From: _____
(Proper Name of Bidder)

The undersigned declares that Bidder has read and understands the Contract Documents, including, without limitation, the Notice to Bidders and the Instructions to Bidders, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of for the following projects known as:

Martin Luther King Jr. Elementary School - Wellness Center / 22243.00-09-WEL / DSA # 03-122605, Parent Center / 22243.00-09-PRC / DSA # 03-122604, T-Kindergarten / 23189.00-09-TK / DSA # 03-123900

("Project" or "Contract") and will accept in full payment for that Work the following grand total lump sum amount, all taxes included:

_____	dollars	$ _____
WELLNESS CENTER TOTAL		
_____	dollars	$ _____
PARENT CENTER TOTAL		
_____	dollars	$ _____
TRANSITIONAL KINDERGARTEN TOTAL		
_____	dollars	$ _____
BASE BID GRAND TOTAL		

Additive/Deductive Alternates: None

1. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if

accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.

2. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.

3. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.

4. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.

5. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.

6. The following documents are attached hereto:

   - Bid Bond on the District's form or other security
   - Designated Subcontractors List
   - Non-Collusion Declaration
   - Iran Contracting Act Certification

7. Receipt and acceptance of the following Addenda is hereby acknowledged:

No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____

8. Bidder acknowledges that the license required for performance of the Work is a B license.

9. Bidder hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.

10. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.

11. Bidder hereby certifies that its bid includes sufficient funds to permit Bidder to comply with all local, state or federal labor laws or regulations during the Project, including payment of prevailing wage, and that Bidder will comply with the provisions of Labor Code section 2810(d) if awarded the Contract

12. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with the Davis Bacon Act, applicable reporting requirements, and any and all other applicable requirements for federal funding. If a conflict exists, the more stringent requirement shall control.

13. Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.

14. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.

15. Bidder expressly acknowledges that it is familiar with and capable of complying with applicable federal, State, and local requirements relating to COVID-19 or other public health emergency/epidemic/pandemic including, if required, preparing, posting, and implementing a Social Distancing Protocol.

16. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Gov. Code, § 12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.

17. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the Contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 ____

Name of Bidder: _____

Type of Organization: _____

Signature: _____

Print Name: _____

Title: _____

Address of Bidder: _____

Taxpayer Identification No. of Bidder: _____

Telephone Number: _____

Fax Number: _____

E-mail: _____ Web Page: _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class:_____ Expiration Date: _____

No.: _____ Class:_____ Expiration Date: _____

Public Works Contractor Registration No.: _____

END OF DOCUMENT

MLK – Parent Center – Owner Furnished Contractor Installed HVAC Equipment

District is providing all HVAC Units and Exhaust Fans noted on DSA Drawing Sheet M0.01. See associated District Equipment Purchase Orders attached.

Snap shot below from District's HVAC Equipment bid with Model Numbers being provided. Contractor to include labor for all items noted below as "Field Installed."

Contractor to include all costs to coordinate pick up, loading, trucking of HVAC equipment from District warehouse located at 1201 Citation Way, Bakersfield, CA, 93308. Include delivery to jobsite for installation, 1100 Citadel St., Bakersfield, CA, 93307.

HP-7	72	50GCQJ05J2M6-0A3A0	4 Ton Heat Pump Rooftop Packaged Unit 460-3-60 • Two-Stage Cooling single circuit (SEER) • 460-3-60 • 4 Tons • Condensate overflow switch • Direct drive, EcoBlue, medium static fan • Al/Cu cond. coil - Al/Cu evap coil w/Hail Guards • Electro-Mechanical Ctl • Hinged access panels • Ion Generator • Factory Start-Up with 1st Year Labor Warranty
HP-7	72		Time Guard II ***(Field Installed)***
HP-7	72		Fan/Filter Status Switch ***(Field Installed)***
HP-7	72		Phase Monitor Control ***(Field Installed)***
HP-7	72		5.5 kW Electric Heat Strip ***(Field Installed)***
HP-7	72		Hinged Access Door ***(Field Installed)***
HP-7	72		Down Discharge Dry Bulb Economizer ***(Field Installed)***
HP-7	72		14" Tall Pitched Welded Roof Curb ***(Field Installed) (Contractor to Verify Prior to Order)***
HP-9	1	38MARBQ12AA3	1 Ton Heat Pump Condenser 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-9	1	40MAHBQ12XA3	1 Ton High Wall Indoor Unit 208/230-1-60 • Factory Start-Up with 1st Year Labor Warranty
HP-9	1		24V Interface Kit ***(Field Installed)***
HP-9	1		Gobi Condensate Pump ***(Field Installed)***

Bakersfield City School District

1300 Baker Street
Bakersfield, CA 93305-4326
Phone: (661) 631-4600 Fax: (661) 861-9907

PURCHASE ORDER

No: **P24002917**
Date: 08/24/2023

VENDOR

SIGLER WHOLESALE DISTRIBUTORS
7021 SCHIRRA CT.
BAKERSFIELD, CA 93313

Phone: (661) 636-0792 **Fax:** (860) 622-6719

SHIP TO

Bakersfield City School District
Dr. Martin Luther King, Jr. Elementary School
1100 Citadel Street
Bakersfield, CA 93307

For: Maintenance, Operations and Facilities
MLK JR 22243.00-09-PARENT CENTER

Vendor # 295960
Buyer: Melissa Hernandez **Req #** R24003760
Terms: NET 30 DAYS **Due Date:** 09/20/2023 **FOB:** N/A **Ship Via:** OUR PICK-UP

ITEM	QUANTITY	UNIT ISSUE	DESCRIPTION	UNIT COST	EXTENSION
			MLK JR 22243.00-09-PARENT CENTER BID #23-06-01		
1	1	EA	Carrier HP-7 (4) Ton Unit, Model: 50GCQM05 Electric		
2	1	EA	Carrier HP-9 (1) Ton Unit, Model: 40MABO12 Electric IDU-1 Indoor Unit		
3	1	EA	Carrier HP-9 (1) Ton Unit, Model: 38MARBQ12 Electric ODU-1 Outdoor Unit		
			PRICING PER HVAC EQUIPMENT REPLACEMENT BID #23-06-01 BOARD APPROVAL DATE: AUGUST 8, 2023		

SUB TOTAL	
SALES TAX	
SHIPPING	
TOTAL	

Special Instructions to Vendor:

1. **Purchase order number must appear on all invoices, shipping papers and correspondence.**
2. **Submit itemized invoice to the Accounts Payable Office, 1300 Baker Street, Bakersfield, CA 93305**
3. **Packing slip must accompany each delivery, showing PO number, serial number, and description.**
4. **No changes without authorization from the Purchasing Department.**
5. **If freight charges apply, prepay and add to invoice. No C.O.D. charges permitted.**
6. **Receiving hours: 8:00 a.m. - 4:00 p.m., Monday - Friday.**
7. **This PO is a covered transaction for purposes of 49 CFR Part 29. As such, the vendor/contractor certifies that to the best of its knowledge and belief that it and its principals are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.**
8. **MATERIAL SAFETY DATA SHEETS MUST BE SUPPLIED WHERE APPLICABLE**

AUTHORIZED SIGNATURE

David J. West

VENDOR

Bakersfield City School District

1300 Baker Street
Bakersfield, CA 93305-4326
Phone: (661) 631-4600 Fax: (661) 861-9907

PURCHASE ORDER

No: **P24002899**

Date: 08/24/2023

VENDOR

NORMAN S. WRIGHT DUCKWORTH
MECHANICAL
EQUIPMENT CO., LLC
7595 N. DEL MAR AVENUE
FRESNO, CA 93711

Phone: (559) 449-8701 **Fax:** (559) 449-8734

SHIP TO

Bakersfield City School District
Dr. Martin Luther King, Jr. Elementary School
1100 Citadel Street
Bakersfield, CA 93307

For: Maintenance, Operations and Facilities
MLK JR 22243.00-09-PARENT CENTER

Vendor # 317913

Buyer: Melissa Hernandez **Req #** R24003870

Terms: NET 30 DAYS **Due Date:** 09/20/2023

FOB: FRESNO **Ship Via:** UPS

ITEM	QUANTITY	UNIT ISSUE	DESCRIPTION	UNIT COST	EXTENSION
1	1	EA	MLK JR 22243.00-09-PARENT CENTER - BID #23-06-01 Greenheck EF-7, Model: SP-All0-QD PRICING PER EXHAUST FAN REPLACEMENT BID #23-06-01 BOARD APPROVAL DATE: AUGUST 8, 2023		

Special Instructions to Vendor:

1. **Purchase order number must appear on all invoices, shipping papers and correspondence.**
2. **Submit itemized invoice to the Accounts Payable Office, 1300 Baker Street, Bakersfield, CA 93305**
3. **Packing slip must accompany each delivery, showing PO number, serial number, and description.**
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8. **MATERIAL SAFETY DATA SHEETS MUST BE SUPPLIED WHERE APPLICABLE**

SUB TOTAL	
SALES TAX	
SHIPPING	
TOTAL	

AUTHORIZED SIGNATURE

David J. West

VENDOR

PELICAN

TS250 Internet-Enabled Thermostat with Integrated CO^2 Sensor

The Pelican Internet-Enabled Thermostat with an integrated CO^2 sensor provides commercial customers with virtual climate and air quality management. The TS250 delivers accurate temperature management, air quality (CO^2) management, leading edge energy efficiency, built-in safeties and alarming, and fine tuned comfort. Coupled with the Pelican Web App, the TS250 tracks space temperature, CO^2 levels, and HVAC operational data in real-time and historically. All information is displayed in real-time online and is viewable on any Internet-connected device.

MESH WIRELESS NETWORK

The TS250 communicates wirelessly with a GW400 to reach the Internet. Each TS250 has built-in state-of-the-art wireless mesh network communication and repeating.

FAULT ALARMING

Built-in system and space analytics with automated email or text message alerts when a fault is detected.

WEB APP

Virtual and central management of TS250 available on all smart phones, tablets, and PCs. Directly manage thermostat temperature and CO^2 levels through a web browser. Designed for intuitive control over multiple thermostats.

HISTORICAL TREND DATA

Online viewable historical data of space temperature, setpoints, HVAC demand, CO^2 level, and fan demand.

INSTALLATION

Industry standard HVAC terminals utilize existing thermostat wire. Included with TS250 is Pelican's innovative limited wiring relay pack (WM500) used in applications where there are only three (3) wires to the HVAC unit.

SCHEDULING

Through the Pelican Web App you can schedulethe TS250 thermostat for daily, 5-2, or 7-day schedules. Thermostats can also be scheduled as groups, for simple multi-thermostat management.

Designed and assembled in the USA
5-Year Limited Warranty

CONTAINS FCC ID OA3MRF24J40MA

Air Quality Management

Specifications

POWER	
Hardwire	24VAC, 60Hz; 50 mA
Voltage Range	23 - 30VAC
Relay Current	1.0A running
COMPATIBILITY	
24VAC gas, electric, or oil heating systems. Conventional and Heat Pump	
WIRING	
Conventional	R, RC, W, W2, Y, Y2, G, C
Heat Pump	R, RC, O/B, AUX, Y, Y2, G, C
SYSTEM PROTECTION	
Four-Minute Compressor Short-Cycle Protection	
Temporary Schedule Override	
Auxiliary/Emergency Heat Efficiency Algorithm	
Keypad Lockout	
Trend Data Analytics and Fault Monitoring	
THERMOSTAT RANGE	
Operating Range	-20°F to 122°F
Differential Temperature	±0.5°F
Operating Humidity (%RH)	5 to 90% RH; non-condensing
Integrated Room CO^2 Sensor	0 – 2000 PPM; +/- 50ppm accuracy
Storage Temperature	-20°F to 160°F
SIZE	
Inch	H 3.5 x W 5.97 x D 1.5
mm	H 89 x W 150 x D 38
Horizontal Mounting	

Pelican Wireless Systems | 2655 Collier Canyon Road, Livermore CA 94551
(888) 512-0490 | sales@pelicanwireless.com

PROJECT MANUAL
CONTRACTUAL-LEGAL REQUIREMENTS
SPECIFICATIONS

MLK PARENT CENTER
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

CURTIS E. FLYNN
Project Architect

Integrated Designs by SOMAM, Inc.
6011 N. Fresno Street, Suite 130
Fresno, California 93710

Project No. 5528 Set No. ____

5528 BAKERSFIELD CITY SCHOOL DISTRICT
MLK PARENT CENTER
TABLE OF CONTENTS

Part 1 General

1.1 Work Included

A. General

1. Provide all labor, materials, tools and equipment required for the complete installation of work called for on the Construction Drawings and described in the Scope Documentation.
2. This document describes the requirements for the contractors, products and installation relating to furnishing and installing Telecommunications Cabling systems.
3. The Horizontal Cabling System as described in this document consists of cabling, infrastructure, J-hook pathways and termination devices for Data systems.
4. Contractor will provide a bid including all labor, materials, tools and equipment required for the complete installation of work called for on the Construction Drawings and described in this Document. It is the responsibility of the Contractor to provide all material necessary to provide a complete and operable system. If the contractor feels that the system described is incomplete, they must address this in writing to the Owner/Owner's Representative before providing a bid.
5. All questions concerning non-specified product and services will be addressed to the Owner's Representative before Contactor provides a bid. Owner expects that by accepting the Contractor's bid proposal that the Contractor has provided a competent bid for a complete solution.
6. Product specifications, general design considerations, and installation guidelines are provided in this document. Quantities of telecommunications outlets, typical installation details, cable routing and outlet types will be provided as an attachment to this document.

1.2 References

A. Regulatory References

1. Contractors will comply with all requirements as specified in Section 27 0000 '1.3. – Regulatory References'.

1.3 Safety and Indemnity

A. Requirements

1. Contractors will submit the necessary documentation to demonstrate their compliance with Section 27 0000 '2.1 – Safety and Indemnity'.

1.4 Contractor Qualifications

A. Requirements

1. Contractors will submit the necessary documentation to demonstrate their compliance with Section 270000 '2.2 – Contractor Qualifications'.

1.5 Quality Assurance

A. Requirements

1. Contractors shall comply with all requirements as specified in Section 27 0000 ‘2.3 – Quality Assurance’.

1.6 Equivalent Products

A. Approved Products

1. All Products described, and Part Numbers given in this Specification are those of Hubbell unless otherwise noted.

B. Pre-Approved Equals:

1. None

C. Other Than Approved Products

1. Contractors wishing to approve a system other than those specified in this document shall do so in accordance with Section 27 000 ‘3.1 Products’.

1.7 Submittal Documentation

A. Requirements

1. The successful contractor shall provide their submittal package in accordance with the Section ‘01 20 00 – Submittal Schedule’ and Section 27 0000 ‘3.2 – Submittal Documentation’.

1.8 Acceptance

A. Requirements

1. The contractor shall comply with all requirements as listed in Section 27 0000 ‘3.3 – Acceptance’.

1.9 Warranty

A. Requirements

1. The contractor shall comply with all requirements as listed in Section 27 0000 ‘3.4 – Warranty’.

1.10 Technology Clause

A. General Requirements

1. As technology advances, it is understood that improved or enhanced products may supersede existing products in both price and performance and yet be essentially similar. This request for bids seeks to address the rapid advances in technology by allowing functionally similar or identical products that may be introduced in the future, during the term of this bid, to be included under the general umbrella of compatible product lines and are thus specifically included in this bid document.

2. Discontinued or end of life products shall be replaced with an equal product to the original specified product at no additional costs to the owner.

Part 2 Products

2.1 Work Area Subsystem

A. General

1. The Work Area shall consist of the connectivity equipment used to connect the horizontal cabling subsystem and the equipment in the work area. The connectivity equipment shall include the following options:

- Patch Cords
- Modular Inserts, Jacks and Plugs
- Faceplates

2. Category 6A Wireless Access Points Outlet Patch Cords

- All category 6A channel patch cords shall be constructed with a snagless boot, made of molded PVC, colored matched to the color of the patch cord cable.
- All category 6A channel patch cords shall be constructed with category 6A patch cable, 24 AWG, 7/32 tinned copper stranded patch cable, insulated with polyethylene and paired, jacketed with PVC, ETL Verified for ISO 11801, (UL) NEC type CM or CMR, 75º C, Article 800 CSA Type CMG.
- All category 6A channel patch cords shall be 100% factory tested to pass return loss (RL) and near-end cross talk (NEXT).
- All category 6A channel patch cords shall be manufactured using a T568-B plug-wiring format.
    - All patch cords will be delivered to the site and must be signed for by the Owner/Owner's Representative. It will be the responsibility of other to install all Work Area Data Patch Cords.
- Length:
    - Wi-Fi patch cords will be 3 feet long.
- Color:
    - Wi-Fi White
- Quantity
    - Wi-Fi Contractor will provide one (1) patch cable for each Wi-Fi data outlet.
- Hubbell Premise Part #, or approved equal:
    - Wi-Fi HCL6AW03

B. Modular Inserts and Jacks

1. Category 6 Data/Voice Jack & Camera Termination Plugs

- Jack will meet the Category 6 Standard.
- Jacks shall be 8 positions un-keyed
- Each jack shall be an individually constructed unit and shall snap mount in an industry standard keystone opening (.760" x 580")
- Jacks shall utilize a 2-layer printed circuit board to control NEXT
- Jack termination shall follow the industry standard 110 IDC.
- Jacks shall have a designation indicating Category 6 on the nose which can be plainly seen from the front of the faceplate. Bottom of jack shall have date code and an abbreviated catalog number.
- Jacks shall utilize a paired punch down sequence. Cable pair twists shall be maintained up to the IDC, terminating all conductors adjacent to its pair mate to better maintain pair characteristics designed by the cable manufacturer.
- Jacks shall terminate 22-26 AWG stranded or solid conductors.
- Jacks shall be compatible with single conductor 110 impact termination tools.
- Jacks shall be compatible with TIA/EIA 606 color code labeling
- Jacks shall have universal wiring designation.
- Jacks shall have an attached color-coded wiring instruction label housed between the IDC termination towers.
- Jacks shall be manufactured in the USA
- Jacks will be terminated according to theT568B wiring scheme
- Color:

    - Data/Voice WHITE
    - Camera Factory

- Quantity: Contractor will provide one jack for every outlet cable shown on the drawings.
- Hubbell Premise Part #, or approved equal.

    - Data/Voice HXJ6W
    - Camera SP6

2. Category 6A Wireless Access Point Jack

- Jack will meet the Category 6A Standard.
- Jacks shall be 8 positions un-keyed
- Each jack shall be an individually constructed unit and shall snap mount in an industry standard keystone opening (.760" x 580")
- Jacks shall utilize a 2-layer printed circuit board to control NEXT
- Jack termination shall follow the industry standard 110 IDC.
- Jacks shall have a designation indicating Category 6A on the nose which can be plainly seen from the front of the faceplate. Bottom of jack shall have date code and an abbreviated catalog number.
- Jacks shall utilize a paired punch down sequence. Cable pair twists shall be maintained up to the IDC, terminating all conductors adjacent to its pair mate to better maintain pair characteristics designed by the cable manufacturer.
- Jacks shall terminate 22-26 AWG stranded or solid conductors.
- Jacks shall be compatible with single conductor 110 impact termination tools.
- Jacks shall be compatible with TIA/EIA 606 color code labeling
- Jacks shall have universal wiring designation.

- Jacks shall have an attached color-coded wiring instruction label housed between the IDC termination towers.
- Jacks shall be manufactured in the USA
- Jacks will be terminated according to theT568B wiring scheme
- Color:
    - Wi-Fi Purple
- Quantity: Contractor will provide one jack for every outlet cable shown on the drawings.
- Hubbell Premise Part #, or approved equal.
    - Wi-Fi HJU6AP24

C. Wall Mount and Modular Furniture Faceplates

1. Wall Plates

- Faceplates shall be UL Listed and CSA Certified
- Faceplates shall be 2.75" W x 4.5" H (69.8 mm x 114.3 mm)
- Faceplates shall provide for TIA/EIA 606 compliant station labeling
- Faceplates shall have plastic covers over the mounting screws that can be replaced with a clear plastic window over a printable paper insert
- Color: WHITE or STAINLESS STEEL.
    - Contractor will field verify and match finish to the existing electrical outlet face plate cover.
- Quantity: Contractor will provide one single gang faceplate for each outlet shown on the drawings.
- Hubbell Premise Part #, or approved equal.
    - WHITE
        - 1 Port IFP11W
        - 2 Port IFP12W
        - 3 Port IFP13W
        - 4 Port IFP14W
        - 6 Port IFP16W
    - STAINLESS STEEL
        - 1 Port SSFL11
        - 2 Port SSFL12
        - 3 Port SSFL13
        - 4 Port SSFL14
        - 6 Port SSFL16

2. Blank Insert

- Color: Blank Insert to be WHITE –
- Quantity: Contractor will provide one insert for every unused port in a faceplate.
- Hubbell Wiring, Part #: SFBW10, or approved equal.

3. Wall Phone Plates

- Faceplate shall be a two-piece design, including a steel base and a stainless-steel cover plate.
- Faceplates steel base shall incorporate six screw terminals, one 6 position jack and an insulating plastic sleeve.
- Faceplate shall be equipped with screw studs to be used as the mounts for wall hung telephones.
- Color: Faceplate to be STAINLESS STEEL
- Quantity: Contractor will provide one faceplate for each Intercom Handset outlet shown on the drawings.
- Allen Tel, Part #: AT630A-6, or approved equal. Tragic

4. Blank Wall Plates

- Faceplate shall be constructed from stainless steel.
- Faceplates shall be UL Listed and CSA Certified
- Faceplates shall be 2.75" W x 4.5" H (69.8 mm x 114.3 mm) for single gang.
- Color: Faceplate to be STAINLESS STEEL
- Quantity: Contractor will provide one faceplate for each unused data/voice/video/intercom outlet shown on the drawings.
- Hubbell Wiring Part #: S13, or approved equal.

5. Surface Mount Raceway Insert –

- Inserts for Hubble PB2, PB3, and PS3 Device Mounting Brackets
- Insert shall allow for two category 6 jacks to be mounted flush.
- Insert shall match the color of the Raceway installed.
- Color: Faceplate to be IVORY
- Quantity: Contractor will provide one 2port insert for each outlet in the Surface Mount Raceway shown on the drawings.
- Hubbell Part #: KP2162 or approved equal.

2.2 Horizontal Distribution Cabling

1. The horizontal distribution cabling system is the portion of the telecommunications cabling system that extends from the Work Area (WA) telecommunications outlet/connector to the horizontal cross-connect in the Telecommunications Room (TR).

- Cabling Support System
- Copper Station Cabling
- Copper Cross-Connect Cabling

B. Cabling Support System

1. J-Hooks

- Cable supports shall provide a bearing surface of sufficient width to comply with required bend radii of high-performance cables; cULus Listed.
- Cable supports shall have flared edges to prevent damage while installing cables.
- Cable support system shall provide fasteners that allow them to be mounted to wall, concrete, joist, tee-bar wire, treaded rod, beams and raised floor supports.

- Fasteners shall have the ability to either be factory or jobsite assembled; rated for indoor use in non-corrosive environments; cULus Listed.
- Fastener to with one non-continuous cable support, factory or jobsite assembled.
- Color: NA
- Quantity: Contractor will provide quantities of j-hooks and hanger accessories in the amount necessary to support all horizontal cabling every 4-5 feet.
- Part #:
    - ERICO CAT425
    - Cooper B-Line BCH12, BCH21, BCH32, BCH64 and accessories.

C. Copper Station Cable

1. Category 6 Data/Voice, Camera, and Intercom Unshielded Twisted Pair (UTP) Cable

- Cable will meet or exceed the proposed requirements of ANSI/TIA/EIA 568-B.2, 568-B.2 Addendum #1 and ISO/IEC 11801 Category 6 Cable Standard for: NEXT and ELFEXT (Pair-To-Pair and Power Sum), Insertion Loss (Attenuation), Return Loss, and Delay Skew.
- Cable shall be proven to support Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, IEEE 802.3af Power Over Ethernet for VoIP, 100 Mbps Fast Ethernet / 100BASE-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10BASE-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps, 1.2 and 2.4 Gbps.
- The cable shall consist of four unshielded twisted pairs of thermoplastic insulated bare copper enclosed in a thermoplastic jacket.
- All cable shall conform to the requirements for communications circuits defined by the National Electrical Code (Article 800) and the Canadian Building Code. Cable listed to NEC Article 800-51(a) will be used for “Plenum” installations. Cable listed to NEC Article 800-51(b) shall be installed in vertical runs penetrating more than one floor.
- Cable shall have been certified with the UL 1666 Vertical Tray Flame Test.
- Cable shall be available in a Plenum, Riser and Indoor/Outdoor rated jackets.
- Contractor will use the indoor/outdoor rated cable for all locations where the cable pathway goes underground and/or run in exterior conduit.
- The listed Category 6 cables in this specification are manufactured by Mohawk/CDT. All other manufactures eligible for Hubbell’s Certified Premise Solution also have been pre-approved.
- Color:
    - Data/Voice BLUE
    - Camera WHITE
    - Intercom YELLOW
- Quantity: See Drawing for quantity and installation details.
- Part#:
    - For Riser Application:
        - Data/Voice Hubbell C6RREB
        - Camera Hubbell C6RREW

- Intercom Hubbell C6RREY

- For Plenum Application:

  - Data/Voice Hubbell C6RPEB
  - Camera Hubbell C6RPEW
  - Intercom Hubbell C6RPEY

- For Indoor/Outdoor Application:

  - Data/Voice, Mohawk PN# M58722 (all cable jackets will be BLACK)

2. Category 6A Wireless Access Point Unshielded Twisted Pair (UTP) Cable

- Cable will meet or exceed the proposed requirements of ANSI/TIA/EIA 568-B.2, 568-B.2 Addendum #1 and ISO/IEC 11801 Category 6 Cable Standard for: NEXT and ELFEXT (Pair-To-Pair and Power Sum), Insertion Loss (Attenuation), Return Loss, and Delay Skew.
- Cable shall be proven to support Gigabit Ethernet / 1000BASE-T / IEEE 802.3ab, ATM up to 155 Mbps, IEEE 802.3af Power Over Ethernet for VoIP, 100 Mbps Fast Ethernet / 100BASE-T / IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet / 10BASE-T / IEEE 802.3, 4 & 16 Mbps Token Ring / IEEE 802.5, T1/E1, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps, 1.2 and 2.4 Gbps.
- The cable shall consist of four unshielded twisted pairs of thermoplastic insulated bare copper enclosed in a thermoplastic jacket.
- All cable shall conform to the requirements for communications circuits defined by the National Electrical Code (Article 800) and the Canadian Building Code. Cable listed to NEC Article 800-51(a) will be used for “Plenum” installations. Cable listed to NEC Article 800-51(b) shall be installed in vertical runs penetrating more than one floor.
- Cable shall have been certified with the UL 1666 Vertical Tray Flame Test.
- Cable shall be available in a Plenum, Riser and Indoor/Outdoor rated jackets.
- Contractor will use the indoor/outdoor rated cable for all locations where the cable pathway goes underground and/or run in exterior conduit.
- The listed Category 6 cables in this specification are manufactured by Mohawk/CDT. All other manufactures eligible for Hubbell’s Certified Premise Solution also have been pre-approved.
- Color:

  - Wi-Fi BLUE

- Quantity: See Drawing for quantity and installation details.
- Part#:

  - For Riser Application:

    - Wi-Fi Hubbell C6ASRB

  - For Plenum Application:

    - Wi-Fi Hubbell C6ASPB

- For Indoor/Outdoor Application:
    - Wi-Fi, Mohawk PN# M58722 (all cable jackets will be BLACK)

D. Horizontal Copper Cross-Connect Cabling

1. Voice Cross-Connect Cabling

- Cable shall meet and/or exceed the UL Listed Type CMR and the ANSI/ICEA S-80-576 standard.
- Core Construction
    - Conductors: Solid-copper conductors, 24 AWG.
    - Insulation: Flame retardant semi-rigid PVC.
    - Core Assembly: Cable core will be made up of 100 pair units consisting of four (4) 25 pair sub-units. Each group individually identifiable by color coded unit binders.
- Jacket: Gray, flame retardant PVC jacket.
- Color: Voice cable jacket will be GRAY
- Quantity: See Drawing for quantity and installation details. The number of 25-pair cable between the MDF and the IDF shall be derived by multiplying the number of pairs required for the cross-connect by 1.25 to the nearest 25-pair increment.
- Part#: Equal to Mohawk Cable:
    - 12 pair = PN# 09-094-02 – Superior Essex
    - 25 pair = PN# M58141
    - 50 pair = PN# M58522
    - 100 pair = PN# M585201

2.3 Backbone Cabling

A. General

1. The backbone cabling system is the portion of the telecommunications cabling system that extends from the Intermediate Distribution Frame (IDF) to the Main Distribution Frame (MDF).
    - Fiber Optic Backbone Cabling
    - Copper Backbone Cabling

B. Fiber Optic Backbone Cabling –

1. Data System Backbone Cabling

- Cable shall be UL/cUL OFNR/OFN FTA rated and be Flame Resistant in accordance with the UL 1666.
- Cable shall an indoor/outdoor rated jacket.
- Cable shall be constructed utilizing a loose tube design.
- Cable will be fully water blocked combining overall water blocking tape and a moisture blocking gel for each individual tube.
- Cable will maintain the following:

- Crush Resistance (EIA-455-41) = 2000 N/cm
- Impact Resistance (EIA-455-25) = 2000 Impacts w/1.6 N-m
- Min Bend Radius:
    - Long Term - No Load = 15x Cable diameter
    - Short Term – Load = 20x Cable diameter
- Operating Temp. = -40°C to +70°C
- Storage Temp. = -40°C to +80°C

- Cable shall be constructed of 50/125µ Laser Optimized rated glass capable of:
    - 1 Gigabit Ethernet Link at 1000m/600m (@850nm/1300nm)
    - 10 Gigabit Ethernet Link at 300m/300m (@850nm/1300nm)
- The Fiber Optic Cable in this specification is manufactured by Mohawk/CDT. All other manufactures eligible for Hubbell's Certified Premise Solution that meet and/or exceed the below specifications have also been pre-approved.
- Color: Fiber Optic cable jacket will be BLACK
- Quantity: See Drawing for quantity and installation details.
- Hubbell Premise Part #:
    - 12 Strand Multi Mode Fiber HFCD14012R4BK

C. Copper System Backbone Cabling

1. Voice & Intercom System Backbone Cabling

- Cable shall meet or exceed those specified in RUS Bulletin 1753F-208 (REA PE-89)
- Core Construction
    - Conductors: Solid, annealed copper, 24 AWG unless otherwise noted on design documents.
    - Insulation: Dual insulation consisting of an inner layer of foamed polyolefin skin, colored coded in accordance with industry standards
    - Core Assembly: Cables of 25 pairs and less formed by assembling pairs together in a single group. Cables of more than 25 pairs formed by twisted pairs arranged in groups with each group having a color coded unit binder.
    - Filling Compound: The entire core assembly completely filled with ETPR compound, filling the interstices between the pairs and under the core tape.
    - Core Wrap: Non-hygroscopic dielectric tape applied longitudinally with an overlap.
    - Sheath Construction
    - Aluminum Shield: Corrosion protected plastic coated, corrugated 0.008" aluminum tape.
- Jacket: Black, linear low-density polyethylene.
- Color: Voice cable jacket will be BLACK
- Quantity: See Drawing for quantity and installation details. The number of 25-pair cable between the MDF and the IDF shall be derived by multiplying the number of pairs serving the individual telephone handsets by 1.25 to the nearest 25-pair increment.

- Part#: Equal to General Cable:

    - 12 pair = PN#09-094-02 – Superior Essex
    - 25 pair = PN# 7525758
    - 50 pair = PN# 7525793
    - 75 pair = PN# 7525801
    - 100 pair = PN# 7525819
    - 200 pair = PN# 7525835

2.4 Telecommunication Room

A. General Requirements

1. The Telecommunication Room (TR) includes those products that terminate horizontal and backbone cabling subsystems and connect then to the network equipment.

    - Patch Cords
    - Horizontal Cabling Termination Equipment
    - Backbone Cabling Termination Equipment
    - Cabinets, Racks, and Enclosures
    - Cable Support System

B. Patch Cords

1. Category 6 Data/Voice & Camera TR Patch Cords

    - TR Copper Patch Cords shall comply with those specified in 2.1 Work Area Subsystem, A. Patch Cords, 1. Category 6 Data Outlet Patch Cords
    - All patch cords will be delivered to the site and must be signed for by the Owner/Owner's Representative. It will be the responsibility of other to install all TR Data and Voice Patch Cords.
    - Color:

        - Data/Voice BLUE
        - Camera RED

    - Quantity: Contractor will provide one patch cord for every data and voice outlet cable shown on the drawings. Contractor will provide the quantity of different length patch cords as follows:

    - Part#:

        - Data/Voice Patch Cords

            - 3-Foot HCL6B03

        - Camera Patch Cords

            - 3-Foot HCL6R03

2. Category 6A Wireless Access Points TR Patch Cords

- TR Copper Patch Cords shall comply with those specified in 2.1 Work Area Subsystem, A. Patch Cords, 1. Category 6A Data Outlet Patch Cords
- All patch cords will be delivered to the site and must be signed for by the Owner/Owner's Representative. It will be the responsibility of other to install all TR Data and Voice Patch Cords.
- Color:
    - Wi-Fi PURPLE
- Quantity: Contractor will provide one patch cord for every data and voice outlet cable shown on the drawings. Contractor will provide the quantity of different length patch cords as follows:
- Part#:
    - Wi-Fi Patch Cords
        - 3-Foot HCL6AP03

3. Fiber Patch Cords

- Patch Cords shall be a Duplex LC to LC 50/125µm "Laser Optimize" Graded-Index Multimode Fiber Patch Cord.
- All patch cords shall be factory polished and 100% optically tested for superior performance.
- Cables shall have a Mated Pair MM Insertion Loss of less than 0.60 dB (0.25 dB Typical).
- Cable Retention: > 25 pounds
- All optical, mechanical and environmental performance shall meet and/or exceed the TIAEIA-568-B.3 specifications.
- Fiber patch cords will be 1-meter long.
- Color: NA
- Quantity: Contractor will provide two fiber patch cords for every New fiber optic backbone cable run shown on the drawings.
- Part#: DFRCLCLCF1MM

C. Horizontal Cable Termination Equipment

1. Modular Unloaded Patch Panels (Only 48-Port Patch Panels is Acceptable)

- Panels shall be made of black anodized aluminum in 24-, 48-, and 96- port configurations.
- Panels shall have modular jacks employing a tri-plane staggered contact array with a flat "hairpin" contact design made of Beryllium copper with a minimum 50-micro-inch gold plating on contact surfaces over 50-100 micro-inch of nickel compliant with FCC part 68.
- Panels shall be equipped with 110-style termination made of fire retardant UL 94V0 rated thermoplastic and tin lead solder plated IDC.
- Panels shall have optional rear cable support bar for strain relief. Cable support bar shall attach to the rear of the patch panel itself without the use of additional fasteners or screws.
- Panels shall have self-adhesive, clear label holders and white designation labels provided with the panel for each row of 24 ports.

- Panels shall provide wiring identification & color code and maintain an in-line, paired punch down sequence that does not require the splitting of conductors from individual cable pairs.
- Panels shall terminate 22-26 AWG solid conductors, maximum insulated conductor outside diameter 0.050".
- Panels shall be ANSI/TIA/EIA-568-B.1, B.2 and ISO/IEC 11801 category 6 compliant.
- Panels shall be UL LISTED 1863 and CSA certified.
- Panels shall be made by an ISO 9002 Certified Manufacturer.
- Panels installed in a 4-connector channel with a category 6 modular jack, and category 6 patch cords, all from the same manufacturer, and a qualified category 6 cables shall meet or exceed the requirements of Draft 5 of the TIA UTP Systems Task Group PN3727, Category 6 Draft Addendum to the ANSI/TIA/EIA-568-B.2 standard.
- Color: Patch Panel shall be BLACK
- Quantity: See Drawing for quantity and installation details. The number of patch panels to be supplied shall be derived by multiplying the number of data/voice cables being terminated at the individual TR by 1.25 and providing additional panels in the nearest 24 port increment.
- Part#:

    - 24 port Category Patch Panel, HWS14608C
    - 48 port Category Patch Panel, HWS14609C

        - *Provide one Cable Management Bar, PN# PCBLMGT, for each 24 ports.

D. Horizontal Voice & Intercom Cross-Connect 66 Wiring Blocks

1. Wall Mount

- Blocks shall be available in a 25 pair unit.
- Blocks shall be wall mounted.
- Wiring blocks shall be available as kits that include the wiring blocks, the proper number of connecting clips, wire management and label strips.
- Blocks shall be constructed of a UL94 V0 rated polycarbonate blend.
- Blocks shall be mounted to a rugged 16 ga steel distribution frame. Frame shall support the 66 blocks and allow for a through for cables to be routed through the rear of the blocks directly to the termination point.
- Blocks shall be UL VERIFIED for TIA/EIA-568-B compliance.
- Color: NA
- Quantity: See Drawing for quantity and installation details.
- Part#: 6 pair block, PN# HPW66B16
- Part#: 25 pair block, PN# HPW66B425
- Accessories to be provided with each installed 66 Block:

    - Mounting Bracket PN# HPW89D

E. Backbone Cable Termination Equipment

1. Fiber Optic Cassette

- ETL Tested per TIA/EIA-568-C.3

- MM Mated Pair Insertion Loss: <0.5dB (0.35dB typical)
- Return Loss: <-35dB
- Operating temperature: 0-70°C
- Materials:
    - Connector ferrule: Zirconia ceramic
    - Connector body/nut: Nickel plated brass/zinc or polymer
- Strain relief boot: Flame retardant (UL-Rated 94-V0) polymer
- Color: Aqua
- Quantity: See Drawing for quantity and installation details.
- Part#: OCLC50G4CVI

F. Copper Termination Panels

1. Voice 110 Wiring Blocks
2. Wall Mount

- Blocks shall be available in a 300-pair unit.
- Blocks shall be wall mounted.
- Wiring blocks shall be available as kits that include the wiring blocks, the proper number of 5 pair connecting clips, wire management and label strips.
- Blocks shall be constructed of a UL94 V0 rated polycarbonate blend.
- Blocks shall be mounted to a rugged 16 ga steel distribution frame. Frame shall support the 110 blocks and allow for a through for cables to be routed through the rear of the blocks directly to the termination point.
- Blocks shall be UL VERIFIED for TIA/EIA-568-B compliance.
- Color: NA
- Quantity: See Drawing for quantity and installation details. The number of 110 blocks to be supplied shall be derived by multiplying the number of voice/intercom cables being terminated at the individual TR by 1.25 and providing additional panels in the nearest 300 pair block increment.
- Part#: 300 pair block, PN# 110WMK

3. OSP Protection Panels

- 110 connector input and output
- wall or frame mountable
- designed with an internal splice chamber and cover over incoming and outgoing connections and protection modules
- stackable to allow for future service expansion
- equipped with an internal fuse link
- external ground connectors accept 6-14 AWG ground wire
- accommodates industry standard 5 pin protection modules
- designed to exceed the requirements set forth in Underwriters Laboratory's UL497
- Color: NA
- Quantity: One protection panel will be installed per IDF home run to the MDF. Protection panels are not required at the IDF side of the cable run.

4. Part#: Circa Enterprise inc. –
   25 pair block, PN# 1880ECA1-25
   50 pair block, PN# 1880ECA1-50
   100 pair block, PN# 1880ECA1-100

G. Fiber Termination Panels

1. MDF Rack Mount Fiber Panel

- Panels shall be constructed of cold rolled 16 ga. steel with a black powder paint finish and provide for fully enclosed fiber patching and termination.
- Panels shall have a removable smoked Plexiglas front cover with optional lock kit. The panel shall have a removable top, front and rear covers. The panel adapter tray shall be removable from the front of the panel by sliding the tray forward. Panels shall come with rack mounting brackets that allow it to be mounted with the front cover flush with the front of the rack, or with the front of the panel extended 5.0" in front of the rack.
- Panels shall be 2 rack spaces, accepting 9 adapter panels.
- Adapter panels shall be available with SC multimode adapters. Adapter shall have a zirconia alignment sleeve.
- Panel shall have a splice tray mounting stud incorporated into the base for mounting of mechanical or fusion splice trays. Adapter tray shall have cable management anchor points and come with cable anchors allowing for the maintenance of the incoming cable with the proper minimum bend radius.
- Panels shall have four cable entrance ports on the top and 2 on the bottom, which are covered by knock outs. Panels shall have two jumper ports in the bottom at the front of the panel with plastic dust covers for routing of jumpers.
- Color: Fiber Panel will be BLACK
- Quantity: See Drawing for quantity and installation details.
- Hubbell Premise Part #, or approved equal:
  - 4U Rack Mount Panel FCR4U15SPL
  - Insert Panels
    - Blanks FSPB

2. IDF Rack Mount Fiber Panel

- Panels shall be constructed of cold rolled 16-gauge steel with a black powder paint finish.
- The panel shall have a hinged swing-out fiber drawer. Panels shall come with rack mounting brackets that allow it to be mounted on a 19" or 23" rack. Panel shall occupy no more than one rack space.
- Panel shall be constructed to accept up to 3 adaptor panels.
- Panels shall have cable entrance points in the rear, which are covered by knock-outs
- Color: Fiber Panel will be BLACK
- Quantity: See Drawing for quantity and installation details.
- Hubbell Premise Part #, or approved equal:
  - Rack Mount Panel
    - 1U Rack Mount Panel FCR1U3SPL
  - Insert Panels
    - Blanks FSPB

3. IDF Wall Mount Fiber Panel

- Panels shall be constructed of cold rolled 16-gauge steel with a black powder paint finish.
- Panel shall be constructed to accept up to 1 adaptor panels.
- Color: Fiber Panel will be BLACK
- Quantity: See Drawing for quantity and installation details.
- Corning Cabling System Part #, or approved equal:

  - Wall Mount Panel

    - Single Panel Housing SPH-01P

H. Cabinets, Racks, and Enclosures

1. Contractor will provide the following 'MDF/IDF' Cabinets, Racks, Enclosures and components based on the number of cables to that will be terminated:

   1. Floor Mount Cabinets

      - Width: 750.0mm 29.52" (19" EIA)
      - Height: 1991.0mm 78.38" (42 RMU)
      - Depth: 39"
      - Color: Floor Mount Cabinet will be or BLACK
      - Quantity: See Drawing for quantity and installation details.
      - Part#:
        Floor Mount Cabinet
        AR3150 NetShelter SX 42U
      - Contractor to provide 3 for MDF

   2. Floor Mount 2-post Racks

      - Overall dimensions of 86.0"H x 29.1" W x 18.6" D
      - Provides 45U x 19" W of mounting space
      - Channel or Trough Depth 3"
      - Rack shall provide High-density cable management fins provide an integrated vertical pathway for premise cabling and facilitate adherence to bend radius requirements
      - Features EIA-310-D, Universal spacing, threaded #12-24 mounting holes
      - Frame components are aluminum, while cable rings are an engineered polymer
      - Finished with black, powder coat paint
      - Supports 1,000 lb. [110 lb. maximum. per cable fin]
      - Color: BLACK
      - Quantity: See Drawing for quantity and installation details.
      - Part #'s:

        - 2-Post Rack HPW84RR19
        - Vertical Management VM820

   3. Wall-Mounted Cabinets

      - Wall-mounted cabinets shall be manufactured from steel sheet.

- Each cabinet will have a rear panel that attaches to the wall, a hinged cabinet body that swings open from the rear panel providing easy access to the rear of equipment and a locking front door.
- The rear panel will provide cable access with pre-punched knockouts, up to 3", for conduit along the top and bottom edges of the panel. There will also be cutouts in the back of the rear panel so that cables can enter the panel through the wall. The rear panel will provide attachment points for accessory equipment mounting brackets and cable tie points within the panel (cabinet).
- The cabinet body will include a single pair of vertical 19" EIA equipment mounting rails. The mounting rails will be EIA-310-D compliant with the Universal hole pattern. Mounting holes will have #12-24 threads.
- Mounting rails will be adjustable in depth so that they can be positioned at any point within the cabinet body. The design of all cabinets will allow an additional pair of mounting rails (for a total of two pairs of mounting rails per cabinet) to be added to the cabinet.
- The wall-mount cabinet shall provide a hinge design that attaches the cabinet body and the rear panel and allow the rear panel to be removed during installation. The hinge design will allow the cabinet body to open at least 90°. The hasp used to secure the rear panel and the cabinet body together will assist in drawing the components together during the locking action.
- The cabinet body will include vents that are designed to accept fan kits.
- The front door will be hinged and locking. The front door and rear panel will be keyed alike. The front door will have rounded edges and corners. The cabinet body will allow the front door to be attached so that it will swing open from the right or left. The cabinet manufacture shall provide an option for a solid or a tinted plexi-glass window front door. The plexi-glass in doors shall be bronze acrylic (not clear) with a UL flammability classification of 94HB or better.
- Finish shall be epoxy-polyester hybrid powder coat (paint).
- The cabinet shall have the option of being delivered fully assembled. All cabinets will include installation hardware (hex lag screws) for wood studs and 50 each #12-24 equipment mounting screws.
- Load bearing capacity for cabinets that wall-mount will be a minimum of 200 pounds per cabinet.
- Cabinets that are wall-mount only will be certified and UL Listed to standard UL 60950 under category NWIN.
- Color: Wall Mount Cabinet will be White
- Quantity: See Drawing for size, quantity and installation details.
- Part#:

    - Hubbell RE4X
    - Great Lakes GL24WE-B-0
    - Great Lakes GL48WMCMM-B-SH-AF-CM
    - 11900-724 Chatsworth Cube-it
    - Accessories to be provided with each installed cabinet:

        - Sound Dampening Kit REKS
        - Fan Kit REKF
        - Fan Filter Kit REKFF

I. Telco Backboards

1. Backboards shall be 4’ x 8’ x .75” void free plywood (ACX Plywood with the “A” side turned out).
2. Sheets shall be but to size for the application intended.
3. The plywood shall be painted with two coats of white fire-retardant paint.

    - Flame Stop III paint additive ASTM E-84, NFPA 255, UL 723
    - Add one pint of Flame Stop III and one pint of water to one gallon of latex-based paint.

Part 3 Execution

3.1 Installation

A. Work Area Outlets Installation

1. No more than 12” of cable shall be stored in an outlet box, modular furniture raceway, or insulated walls.
2. Bend radius of the cable in the termination area shall not be less than 4 times the outside diameter of the cable.
3. The cable jacket shall be maintained to within 12.7mm (½ inch) of the termination point.
4. All UTP cables shall have no more than 12.7mm (½ inch) of pair untwist at the termination point.
5. Data jacks, unless otherwise noted in drawings, shall be located in the top position(s) of each faceplate. Data jacks in horizontally oriented faceplates shall occupy the left-most position(s).
6. Voice jacks, unless otherwise noted in drawings, shall occupy the next position(s) below the data on the faceplate. Voice jacks in horizontally oriented faceplates shall occupy the position left of the data jack.
7. Video jacks, unless otherwise noted in drawings, shall occupy the bottom position(s) on the faceplate. Video jacks in horizontally oriented faceplates shall occupy the position left of the data/voice jack.
8. All faceplates installed shall be level.
9. All outlets will be labeled according to the approved labeling scheme.
10. Each faceplate shall be machine labeled. The labeling shall be placed on the faceplate so that the individual jack can be clearly identified by its associated label.
11. Cables shall be identified by a self-adhesive label in accordance with the Identification and Labeling section of this specification and ANSI/TIA/EIA-606. The cable label shall be applied to the cable no further than 6” behind termination module, behind the faceplate on a section of cable that can be accessed by removing the cover plate.

B. Horizontal Distribution Cable Installation

1. Cable shall be installed in accordance with manufacturer’s recommendations and best industry practices.
2. Tie Wraps will not be allowed for supporting, bundling and/or dressing of any station cables on this project.
3. Contractor will provide a three foot “service loop” for all station cables. The service loop will be coiled and secured using Velcro in the accessible ceiling at the conduit stub to the work area outlet box.
4. A pull cord (nylon; 1/8" minimum) shall be co-installed with all cable installed in all “common” conduit runs. “Common” Conduit Runs are those that house more than one cable or set of cables that do not specifically feed a Work Station Outlet. Examples of

"Common" Conduit Runs are: floor/ceiling penetrations, stub-throughs, distribution conduits, all conduits between J-boxes, etc.

5. Cable raceways shall not be filled greater than the TIA/EIA-569-A maximum fill for the particular raceway type or 40%.
6. Cables shall be installed in continuous lengths from origin to destination (no splices) except for transition points, or consolidation points.
7. The cable's minimum bend radius and maximum pulling tension shall not be exceeded.
8. Pulling tension on 4-pair UTP cables shall not exceed 25-lb for a four-pair UTP cable.
9. The Cable Support System shall be installed in such away that will allow for future cables to be added and to provide sufficient protection of all cable.
10. For all installs where station cables are not installed in a continuous conduit run the following guidelines will apply. The Contractor will be responsible to reinstall all cables and pathways that do not meet with the following at no additional cost to the Owner:
11. J-hooks shall be installed to support all station cables every 4ft to 5ft.
12. All pathways shall be run at right angles. No diagonal pathways will be allowed unless otherwise noted on the drawings.
13. Horizontal cables shall be bundled in groups of no more than 25 cables per Cooper B-Line's BCH21 J-hook, no more than 40 cables per Cooper B-Line's BCH32 J-hook, and no more than 64 cables per Cooper B-Line's BCH64 J-hook.
14. At no point shall cable(s) rest on acoustic ceiling grids, acoustic panels, or lighting fixtures.
15. All cables will be installed so that there is a minimum of 3" of clearance above all ceiling grid and tiles.
16. All cables will be installed so that there is a minimum of 12" of clearance above all florescent lighting.
17. All cables will be installed so that there is a minimum of 6" of clearance from all fire alarm and electrical system conduits.
18. Cables shall not be attached to the ceiling grid or lighting fixture wires. The contractor will provide their own carriers wires to support their horizontal cabling.
19. All cables shall be installed above fire-sprinkler systems and plumbing system fixtures and devises. Cables shall not be attached to or supported by these fixtures and/or their ancillary equipment or hardware.
20. The cable system and support hardware shall be installed so that it does not obscure any valves, fire alarm conduit, boxes, or other control devices.
21. Contractor is responsible for sealing around all cables that penetrate fire rated barriers.
22. Any cable damaged or exceeding recommended installation parameters during installation shall be replaced by the contractor prior to final acceptance at no cost to the Owner.

C. Horizontal Cross-Connect Installation

1. Cables shall be dressed and terminated in accordance with the recommendations made in the TIA/EIA-568-A standard, manufacturer's recommendations and best industry practices.
2. The cable jacket shall be maintained to within 12.7mm (½ inch) of the termination point.
3. All UTP cables shall have no more than 12.7mm (½ inch) of pair untwist at the termination point.
4. Bend radius of the cable in the termination area shall not exceed 4 times the outside diameter of the cable.
5. All cables shall be neatly bundled and dressed continuously from the entrance point of the Telecommunications Room to their respective panels or blocks. Each panel or block shall be fed by an individual bundle separated and dressed back to the point of cable

entrance into the rack or frame. Contractor will use Velcro strip to bundle cables together. The use of Tie –Wraps is not permitted.

6. Each cable shall be clearly labeled on the cable jacket behind the patch panel at a location that can be viewed without removing the bundle support ties. Cables labeled within the bundle, where the label is obscured from view shall not be acceptable.

D. Backbone Cable Installation

1. Backbone cables shall be installed separately from horizontal distribution cables.
2. Where possible the backbone and horizontal cables shall be installed in separate conduits.
3. Where backbone cables and distribution cables are installed in a cable tray or wireway, backbone cables shall be installed first and bundled separately from the horizontal distribution cables.
4. Pulling tension on Backbone cables shall not exceed the manufacture's limitations.
5. The minimum bend radius for all Backbone cables is 16 times the cable diameter or the manufactures specification, whichever is greater.
6. All OSP cables may not penetrate more than 50ft into the buildings before be terminated or splices to cable with a fire resistant jacket, unless the jacket is indoor/outdoor rated.
7. A pull cord (nylon; 1/8" minimum) shall be co-installed with all cable installed in any conduit.
8. A pull cord (nylon; 1/8" minimum) shall be installed with all empty OSP and Entrance Facility conduit.
9. All backbone cables shall be securely fastened to the sidewall of the TR on each floor.
10. Backbone cables spanning more than three floors shall be securely attached at the top of the cable run with a wire mesh grip and on alternating floors or as required by local codes.
11. Vertical runs of cable shall be supported to messenger strand, cable ladder, or other method to provide proper support for the weight of the cable.
12. Large bundles of cables and/or heavy cables shall be attached using metal clamps and/or metal banding to support the cables.

E. Backbone Cross-Connect Installation

1. Cables shall be dressed and terminated in accordance with the recommendations made in the TIA/EIA-568-A document, manufacturer's recommendations and best industry practices.
2. Bend radius of the cable in the termination area shall not exceed 16 times the outside diameter of the cable.
3. All cables shall be neatly bundled and dressed continuously from the entrance point of the Telecommunications Room to their respective panels or blocks.
4. Contractor will provide a minimum of a 3 foot "service loop" for each backbone cable before terminating to allow future rearrangement. Cables will be coiled and secured above the ceiling where possible or to the Telco Backboard where entrance point is from the floor.
5. Wall mounted termination block fields shall be installed with the lowest edge of the mounting frame 18" from the finished floor.
6. Contractor shall provide a machine label 1ft. to 2ft. from the entrance point of the TR and 6in. to 12in. from the termination point on each backbone cable. Cable shall be easily identified and fully legible without removing the bundle support ties.

F. Cabinets, Racks, Enclosures and Ladder Rack Installation

1. Wall Mount Racks/Cabinets shall be securely attached to the Telco Backboard using minimum 3/8" hardware or as required by local codes.
2. Floor Mount Racks/Cabinets shall be securely attached to the concrete floor using minimum 3/8" drop-in anchor hardware or as required by local codes.
3. All Floor Mount Racks/Cabinets will be either; secured on one side to the wall or attached to the closest wall with ladder rack.
4. All Racks/Cabinets shall be braced to meet Zone 4 seismic requirements.
5. Contractor will maintain a minimum of 36 inches of clearance from the front of the all rack/cabinets and all other obstructions.
6. Floor Mount Racks/Cabinets shall be installed to allow for a minimum of 36" from rear and all other obstructions.
7. All racks shall be grounded to the telecommunications ground bus bar.
8. Rack mount screws not used for installing patch panels and other hardware shall be bagged and left with the rack upon completion of the installation.
9. The plywood bottom edge shall be mounted vertically no less than 12" above the finished floor.
10. Contractor will provide all cutouts for the Electrical Contractors expansion rings and electric receptacles as shown on the drawings.
11. Ladder Rack must be securely attached to walls, backboards, and racks/cabinets to comply with all Zone 4 seismic requirements.
12. Ladder rack shall be installed so that there is a minimum of 8" of unobstructed clearance above rack.
13. Ladder Rack shall be installed so that there is a minimum of 12" of clearance from all: florescent lighting, electrical conduits/circuits, and fire alarm conduits/devices.

3.2 Identification and Labeling

A. General Requirements

1. The contractor shall develop and submit for approval a labeling system for the cable installation. The Owner will negotiate an appropriate labeling scheme with the successful contractor.
2. The approved system will comply with the TIA/EIA -606-A Class 2 designations and include at a minimum, identifiers for all major components of the system: telecommunication rooms, grounding bus bars, racks, cables, panels and outlets. The labeling system shall designate the cables origin and destination and a unique identifier for the cable within the system. Racks and patch panels shall be labeled to identify the location within the cable system infrastructure.
3. All label printing will be machine generated or hand-held printers using indelible ink ribbons or cartridges. Self-laminating labels will be used on cable jackets, appropriately sized to the OD of the cable, and placed within view at the termination point on each end. Outlet, patch panel and wiring block labels shall be installed on, or in, the space provided on the device.
4. All labeling information shall be recorded on the as-built drawings and all test documents shall reflect the appropriate labeling scheme.

3.3 Testing and Acceptance

A. General

1. All cables and termination hardware shall be 100% tested for defects in installation and to verify cabling system performance under installed conditions according to the requirements of ANSI/TIA/EIA-568-A Addendum 5, TSB-67 and TSB-95. All pairs of

each installed cable shall be verified prior to system acceptance. Any defect in the cabling system installation including but not limited to cable, connectors, feed through couplers, patch panels, and connector blocks shall be repaired or replaced in order to ensure 100% useable conductors in all cables installed.

2. All cables shall be tested in accordance with this document, the ANSI/TIA/EIA standards, the Manufacturer's Warranty guidelines and best industry practice. If any of these are in conflict, the Contractor shall bring any discrepancies to the attention of the project team for clarification and resolution.
3. Contractor will notify the Owner/Owner's Representative 72 hours before commencement of testing.
4. Upon receipt of the test documentation, the Customer reserves the right to have the contractor perform a 10% witnessed "spot testing" of the cabling system to validate test results provided in the test document, at no additional cost. If a significant amount of cables are marginal and/or fail during the "spot test" Contractor will retest the entire cable plant at no additional cost.

B. Copper Cable Testing

1. Twisted Pair Cable

- All twisted-pair copper cable links (including backbone cables) shall be tested for continuity, pair reversals, shorts, opens and performance as indicated below.
- Continuity - Each pair of each installed cable shall be tested using a test unit that shows opens, shorts, polarity and pair-reversals, crossed pairs and split pairs. Shielded/screened cables shall be tested with a device that verifies shield continuity in addition to the above stated tests. The test shall be recorded as pass/fail as indicated by the test unit in accordance with the manufacturers' recommended procedures, and referenced to the appropriate cable identification number and circuit or pair number. Any faults in the wiring shall be corrected and the cable re-tested prior to final acceptance.
- Length - Each installed cable link shall be tested for installed length using a TDR type device. The cables shall be tested from patch panel to patch panel, block to block, patch panel to outlet or block to outlet as appropriate. The cable length shall conform to the maximum distances set forth in the ANSI/TIA/EIA-568-A Standard. Cable lengths shall be recorded, referencing the cable identification number and circuit or pair number. For multi-pair cables, the shortest pair length shall be recorded as the length for the cable.

2. Category 6 Performance

- Follow the Standards requirements established in:
    - ANSI/TIA/EIA-568-A -TSB-67
    - Wire Map
    - Length
    - Attenuation
    - NEXT (Near end crosstalk)
    - · ANSI/TIA/EIA-568-A -TSB-95
    - Return Loss
    - ELFEXT Loss
    - Propagation Delay
    - Delay skew
    - · ANSI/TIA/EIA-568-A, Amendment 5.

- PSNEXT (Power sum near-end crosstalk loss)
- PSELFEXT (Power sum equal level far-end crosstalk loss)

- A Level III or better test unit is required to verify category 6 performances and must be updated to include the requirements of TSB-95 and Amendment 5. Testers will be equal to Fluke Network's DXT CableAnalyzer™ Series.
- All testers shall have been recalibrated with 6 months of use on this project. Contractor will be asked to provide proof of recalibration.
- Test results shall be automatically evaluated by the equipment, using the most up-to-date criteria from the TIA/EIA Standard, and the result shown as pass/fail. The approved Level Three tester shall provide a printed document for each test that is also available in a downloadable file using an application from the test equipment manufacturer. The printed test results shall include a print out of all tests performed, and the individual test results for each cable.

C. Fiber Optic Cable Testing

1. 50/125µ Backbone Fiber

- Each fiber strand shall be tested for attenuation with an Optical Power Meter and light source and with an Optical Time Domain Reflectometer (OTDR) for actual length and splice/connector loss. Cable length shall be verified using sheath markings. The guidelines and procedures established for Tier 1 testing in TIA/TSB-140 shall apply.
- All fiber optic cables shall be tested from the site's MDF to each fiber terminals located in the IDF. The results of OTDR testing to define the length of each riser cable shall be documented. The Contractor shall conduct a power meter (loss) test of each fiber optic station and riser cable at both wavelengths, 850/1300nm for MM and 1310/1550nm for SM, A to B, B to A, and OSPL (OSPL is defined as La + Lb). No individual station or riser fiber link segment (including connectors) shall measure more than 2.0 dB loss. Tests shall be conducted using ANSI/EIA/TIA/EIA-526-14A, Method B. Test results evaluation for the panel to panel (backbone) shall be based on the values set forth in ANSI/TIA/EIA-568-B.1.The Contractor shall provide an electronic printout for each strand tested with the Power Meter and the OTDR.
- Where concatenated links are installed to complete a circuit between devices, the Contractor shall test each link from end to end to ensure the performance of the system. After the link performance test has been successfully completed, each link shall be concatenated and tested. The test method shall be the same used for the test described above. The evaluation criteria shall be established between the Owner and the Contractor prior to the start of the test.
- All installed cables must meet or exceed the defined standards for performance. The Contractor shall take all steps necessary to repair or replace any optic not meeting the standard.
- Fiber optic riser and station cable test results shall be provided in electronic format to the Owner.

3.4 System Closeout and As-built Documentation

A. General Requirements

1. Upon completion of the installation, the telecommunications contractor shall provide three (3) full documentation sets to the Owner's Representative/Engineer for approval.

One (1) to be a hardcopy and two (2) to be electronic copies. Documentation shall include the items detailed in the sub-sections below.

2. Documentation shall be submitted within ten (10) working days of the completion of each testing phase. This is inclusive of all test results and draft as-built drawings. Draft drawings may include annotations done by hand. Machine generated (final) copies of all drawings shall be submitted within 30 calendar days of the completion of each testing phase. At the request of the Owner's Representative/Engineer, the telecommunications contractor shall provide copies of the original test results.
3. The Owner's Representative/Engineer will request that a 10% random field re-test be conducted on the cable system, at no additional cost, to verify documented findings. Tests shall be a repeat of those defined above. If findings contradict the documentation submitted by the telecommunications contractor, additional testing can be requested to the extent determined necessary by the Engineer, including a 100% re-test. This re-test shall be at no additional cost to the Owner.
4. Test Results documentation shall be provided in two media, as listed above, one (1) hardcopy and one (1) on disk within three weeks after the completion of the project. The documentation shall be clearly marked on the outside front cover with the words "Project Test Documentation", the project name, and the date of completion (month and year). The results shall include a record of test frequencies, cable type, conductor pair and cable (or outlet) I.D., measurement direction, reference setup, and crew member name(s). The test equipment name, manufacturer, model number, serial number, software version and last calibration date will also be provided at the end of the document. Unless the manufacturer specifies a more frequent calibration cycle, an bi-annual calibration cycle is anticipated on all test equipment used for this installation. The test document shall detail the test method used and the specific settings of the equipment during the test as well as the software version being used in the field test equipment.
5. Printouts generated for each cable by the wire test instrument shall be submitted as part of the documentation package.
6. When repairs and re-tests are performed, the problem found and corrective action taken shall be noted, and both the failed and passed test data shall be documented.
7. The As-Built drawings are to include cable routes, outlet locations and the approved labeling identifiers. Their sequential number as defined elsewhere in this document shall identify outlet locations. Numbering, icons, and drawing conventions used shall be consistent throughout all documentation provided. The Owner will provide floor plans in paper and electronic (DWG, AutoCAD 2008) formats on which as-built construction information can be added. These documents will be modified accordingly by the telecommunications contractor to denote as-built information as defined above and returned to the Owner.
8. Contractor will provide one laminated 11"x17" drawing at each IDF that includes the building layout for that IDF, along with the outlet locations and all of the approved labeling.

END OF SECTION

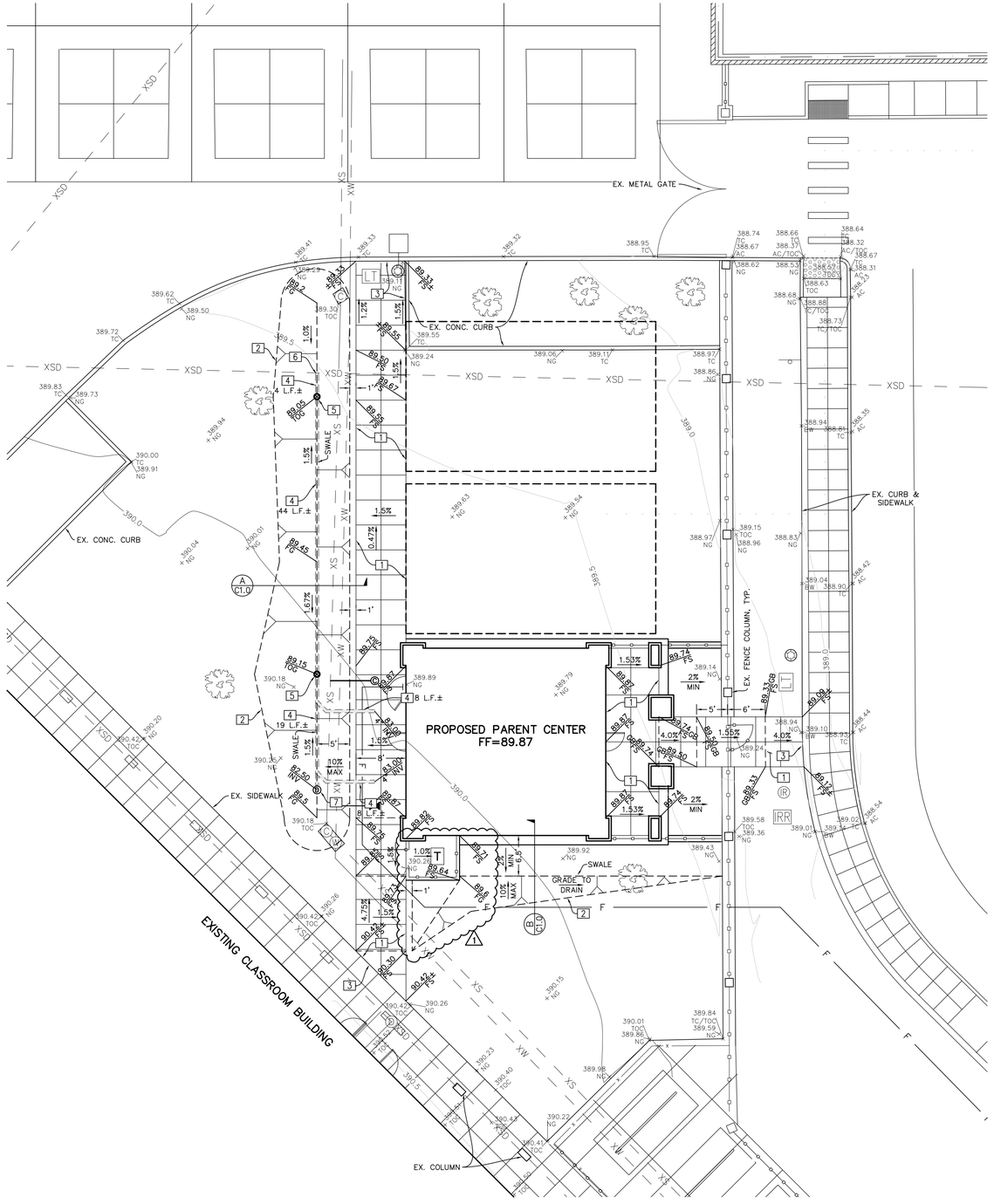
LEGEND:

- DESIGN ELEVATION
- EXISTING ELEVATION
- DESIGN GRADE
- PROPOSED SEWER MAIN
- PROPOSED WATER LINE
- PROPOSED SEWER CLEANOUT
- PROPOSED WATER VALVE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN INLET
- EXISTING CHAIN-LINK FENCE
- EXISTING WROUGHT IRON FENCE
- EXISTING ELECTRICAL VAULT
- EXISTING LIGHT BOX
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING WATER VALVE
- EXISTING SEWER CLEAN-OUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING TREE (SIZE VARIES)
- EXISTING CONTOUR WITH ELEVATION
- EXISTING GRADE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM DRAIN LINE

ABBREVIATIONS

EX	EXISTING
FG	FINISHED GROUND
FS	FINISHED SURFACE
FP	FINISHED PAD
FF	FINISHED FLOOR
NG or OG	NATURAL/ORIGINAL GROUND
EP	EDGE OF ASPHALT PAVEMENT
AC	TOP OF ASPHALT PAVEMENT
AB	AGGREGATE BASE
FL	FLOWLINE
GB	GRADE BREAK
TOG	TOP OF GRATE
TOC	TOP OF CONCRETE
CONC	CONCRETE
BW	BACK OF SIDEWALK
TC	TOP OF CURB
~	ON THIS SHEET
MAX	MAXIMUM
MIN	MINIMUM
TYP	TYPICAL
EL or ELEV	ELEVATION
BDRY	BOUNDARY
EA	EACH
ESMT	EASEMENT
RW	RIGHT-OF-WAY
SD	STORM DRAIN
CB	CATCH BASIN
SWR	SANITARY SEWER
MH	MANHOLE
WTR	WTR
G	GAS

1" = 40'-0" | 1" = 30'-0" | 1" = 20'-0" | 1/8" = 1'-0" | 1/4" = 1'-0"



GRADING CONSTRUCTION NOTES

1. CONSTRUCT 4" MIN. CONCRETE SIDEWALK/FLATWORK, REFER TO ARCHITECT'S PLAN FOR DIMENSIONS NOT SHOWN. COMPACT 6" MIN. SUB-GRADE TO 90% MAX DENSITY.
2. DAYLIGHT LINE, SLOPE TO MATCH EXISTING GROUND.
3. MATCH EXISTING TOP OF CURB/SIDEWALK GRADE.
4. INSTALL 6" PVC OR HDPE STORM DRAIN PIPE @ MIN 1.0% SLOPE (DISTANCE SHOWN).
5. INSTALL CHRISTY V05 DRAIN BOX WITH RISER AND V1-71C GRATE PER DETAIL C/C1.0.
6. TIE INTO EXISTING STORM DRAIN. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF EXISTING STORM DRAIN IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
7. CONSTRUCT CLEANOUT PER DETAIL A/C1.1 MARK LID "DRAIN"

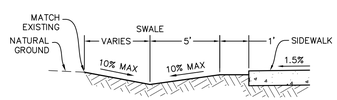
NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. ALL REMAINING UTILITY BOXES, VAULTS, MANHOLES, CLEANOUTS, ETC. SHALL BE ADJUSTED TO FINISH GRADE.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF EXISTING EQUIPMENT AND UTILITIES IN CONFLICT WITH CONSTRUCTION WITH OWNER PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
5. SEE STORM DRAIN PLAN, AND SEWER & WATER PLAN FOR DESIGN INFORMATION.
6. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
7. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
8. ADD 300 FEET TO ALL DESIGN ELEVATIONS.
9. GRADING DESIGN ASSUMES STEM CURB IS CONSTRUCTED ON ALL EXTERIOR WALLS.

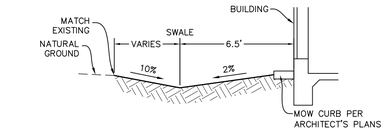
BENCHMARK USED:

TOP OF CONCRETE MONUMENT IN LAMPHOLE AT THE EAST QUARTER CORNER OF SECTION 5, 30/28 M.D.M. LYING 29.45' SOUTH OF THE CENTERLINE INTERSECTION OF EAST BELLE TERRACE AND COTTONWOOD ROAD.

ELEVATION = 385.41 (USGS DATUM) PER TRACT 6378 PLANS



A TYPICAL GRADING SECTION
NTS



B TYPICAL GRADING SECTION
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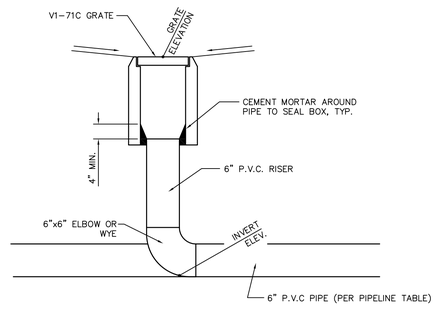

C TYPICAL V05 DRAIN BOX W/ RISER
NO SCALE

NORTH
SCALE: 1"=10'
0 5 10 20

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-122604 INC: 0
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2025

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA 93305

Project Name:

PARENT CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
1100 CITADEL STREET
BAKERSFIELD, CA 93307

integrated designs
by SOMAM, Inc.

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FRED W. PORTER II
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STATE OF CALIFORNIA

Sheet Title:

GRADING PLAN

Job No.: **5528**

Sheet No.: **C1.0**

Release: ADDENDUM 1 03/14/23

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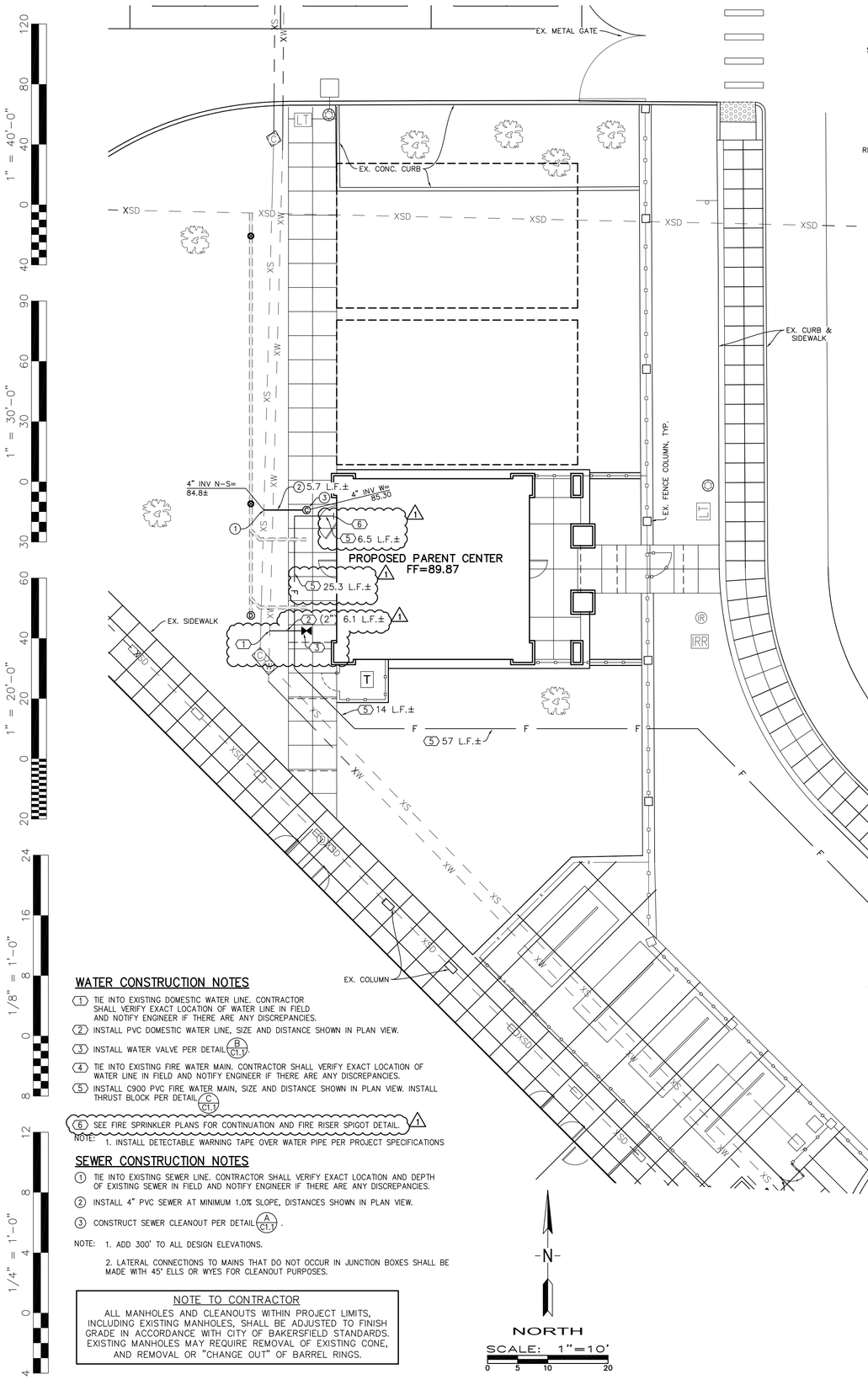


WATER CONSTRUCTION NOTES

1. TIE INTO EXISTING DOMESTIC WATER LINE. CONTRACTOR SHALL VERIFY EXACT LOCATION OF WATER LINE IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
2. INSTALL PVC DOMESTIC WATER LINE, SIZE AND DISTANCE SHOWN IN PLAN VIEW.
3. INSTALL WATER VALVE PER DETAIL B/C1.1.
4. TIE INTO EXISTING FIRE WATER MAIN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF WATER LINE IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
5. INSTALL C900 PVC FIRE WATER MAIN, SIZE AND DISTANCE SHOWN IN PLAN VIEW. INSTALL THRUST BLOCK PER DETAIL C/C1.1
6. SEE FIRE SPRINKLER PLANS FOR CONTINUATION AND FIRE RISER SPIGOT DETAIL 1

NOTE: 1. INSTALL DETECTABLE WARNING TAPE OVER WATER PIPE PER PROJECT SPECIFICATIONS

SEWER CONSTRUCTION NOTES

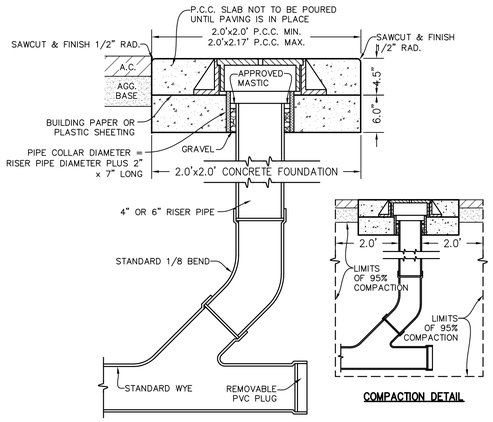
1. TIE INTO EXISTING SEWER LINE. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF EXISTING SEWER IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
2. INSTALL 4" PVC SEWER AT MINIMUM 1.0% SLOPE, DISTANCES SHOWN IN PLAN VIEW.
3. CONSTRUCT SEWER CLEANOUT PER DETAIL A/C1.1 .

NOTE: 1. ADD 300' TO ALL DESIGN ELEVATIONS.

2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.

NOTE TO CONTRACTOR

ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.



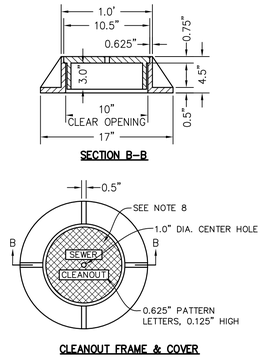
CLEANOUT SECTION

CLEANOUT NOTES:

1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A".
3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.01B OF THE STANDARD SPECS.
5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
6. 95% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 24" OF THE RISER PIPE.
7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CAULK REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAVING SURFACE.

A / C1.1 SEWER CLEANOUT DETAIL
N.T.S.

COMPACTION DETAIL

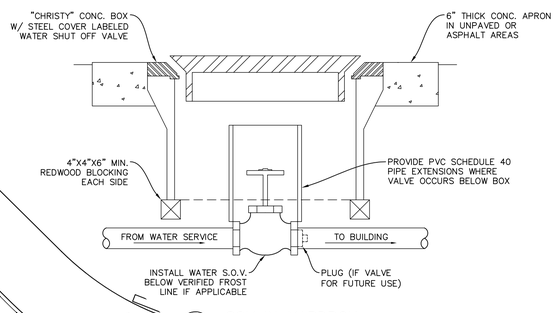


SECTION B-B

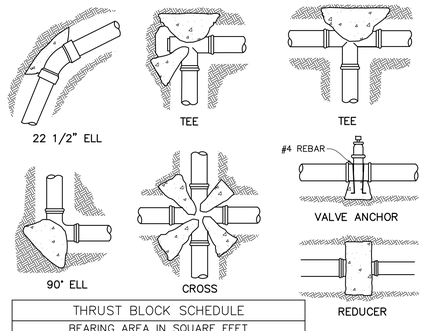
CLEANOUT FRAME & COVER

CLEANOUT COVER NOTES:

1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS No. 30B.
6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.



B / C1.1 SOV IN YARDBOX
NTS



THRUST BLOCK SCHEDULE						
BEARING AREA IN SQUARE FEET						
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL	22 1/2° ELL	CROSS	VALVE
4"	2	2	2	1	-	-
6"	3	4	2	2	1.5 EA.	3.0
8"	5	7	4	2	3.0 EA.	5.5
10"	8	11	6	3	4.5 EA.	9.0
12"	11	16	8	4	6.5 EA.	13.0
16"	16	23	13	7	8.0 EA.	16.0

NOTES:

1. ALL VALVES, FITTINGS AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUSTS BLOCKS.
2. BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.
3. CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING.
4. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
5. JOINT SHALL BE KEPT CLEAR OF CONCRETE.
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

C / C1.1 TYPICAL THRUST BLOCK DETAILS
N.T.S.

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FRED W. PORTER, II
RCE 74059
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STATE OF CALIFORNIA

Sheet Title:
SEWER & WATER PLAN

Job No.: **5528**

Sheet No.: **C1.1**

Release: ADDENDUM 1 03/14/23

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J:\3238\Improvements\3238CI-PC\dwg MATTHEW CARSON 03/14/23

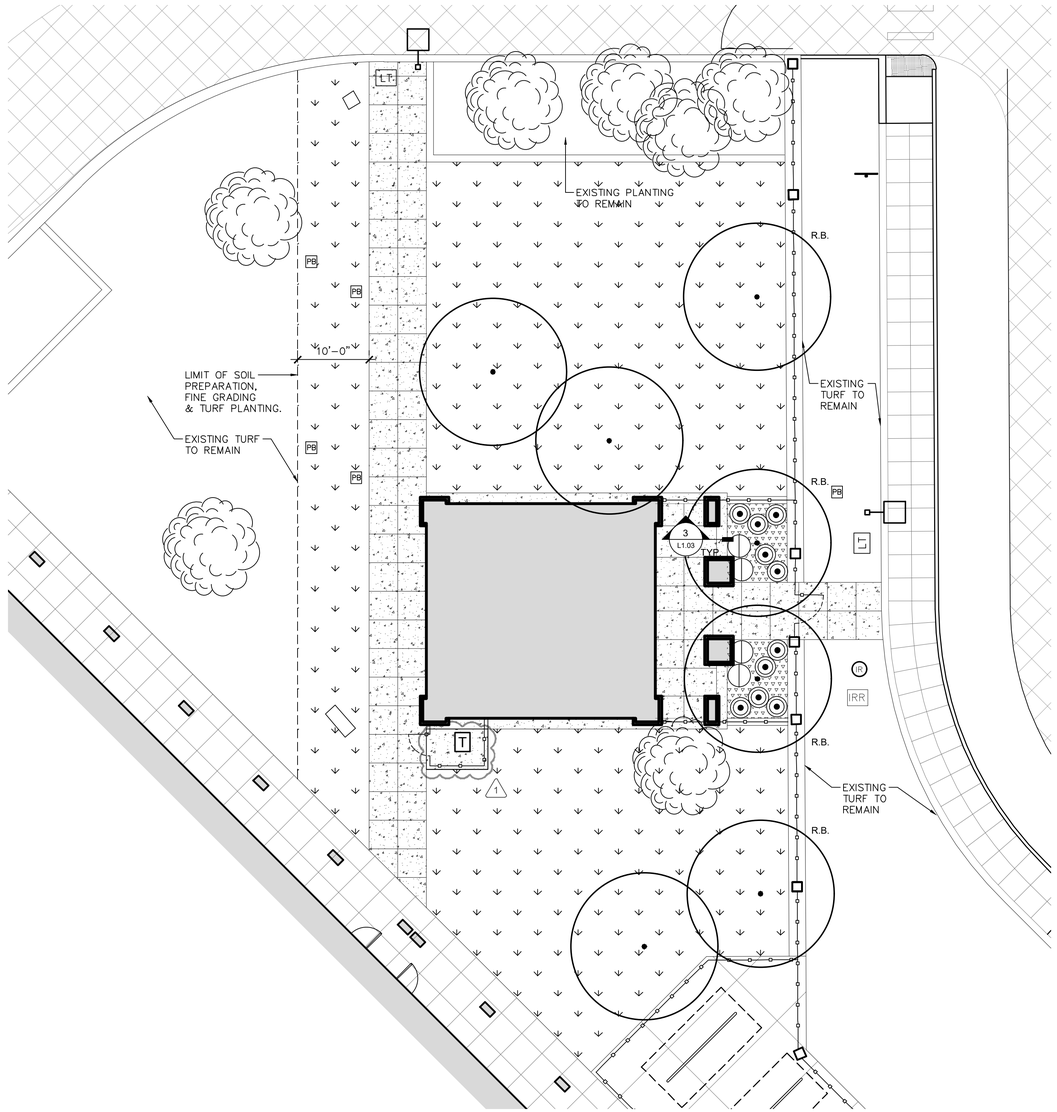
1" = 40'-0"
120 80 40 0 40

1" = 30'-0"
90 60 30 0 30

1" = 20'-0"
60 40 20 0 20

1/8" = 1'-0"
24 16 8 0 8

1/4" = 1'-0"
12 8 4 0 4



LANDSCAPE PLAN
PARENT CENTER

SCALE: 1" = 10'

PLANTING LEGEND

TREES:

PISTACIA CHINENSIS 'KEITH DAVEY' CHINESE PISTACHE (24" BOX)

R.B. — INDICATES ROOT BARRIER INSTALLATION IN THIS LOCATION. REFER TO INSTALLATION DETAIL #02 ON PLAN SHEET L1.03.

SHRUBS:

LOROPETALUM CHINENSE 'JAZZ HANDS' 'CHINESE FRINGE FLOWER' (5 GAL.)

PLUMBAGO AURICULATA 'ROYAL CAPE' CAPE PLUMBAGO (5 GAL.)

3" LAYER OF TAN / GOLD COLOR DECOMPOSED GRANITE MULCH. DECOMPOSED GRANITE MULCH TO BE PLACED UNDER ALL DESIGNATED LANDSCAPE AREAS AND WHERE SHOWN ON PLAN. REFER TO INSTALLATION DETAILS #01 AND #03 ON PLAN SHEET L1.03.

MIX OF 75% BERMUDA & 25% PERENNIAL RYEGRASS (SEED) PER DISTRICT AND SPECIFICATIONS.

EXISTING TREE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

LANDSCAPE NOTES

1. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR OTHER PLANT MATERIAL, GRADE DIFFERENCES, OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
2. PLANT QUANTITIES ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON PLAN PRIOR TO BIDDING. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREAS SHOWN ON THE PLAN AT THE SPECIFIED SPACING LISTED IN THE PLANT LIST.
3. ALL TREE AND SHRUB SPECIMENS ALLOCATED FOR INSTALLATION SHALL BE OF 'CLASS A' QUALITY, FREE OF PESTS, DISEASE, AND / OR DAMAGE, AND SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT ANY GIRDLING ROOTS OR EXCESSIVE TOP GROWTH. ALL PLANT MATERIAL INTENDED FOR INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).
4. THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE ARCHITECT. TREES SHALL BE REJECTED WITHOUT ADEQUATE BRANCH STRUCTURE, IN POOR HEALTH, OR IN ROOT-BOUND CONTAINERS.
5. NOTIFY THE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND LANDSCAPE PLANTING FOR APPROVAL OF LAYOUT AND PLANT SPECIMEN QUALITY. PLANT LOCATIONS SHALL BE ADJUSTED PER THE ARCHITECT'S DIRECTION TO AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, EXISTING PLANT MATERIAL, UTILITIES, LIGHT POLES, OR TO MEET THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS AND / OR NEW PLANT MATERIAL.
6. INSTALLATION OF ALL TREES AND SHRUBS SHALL BE SPACED AND INSTALLED IN ACCORDANCE WITH COMMON NURSERY LANDSCAPE STANDARDS.
7. ALL TREES LOCATED WITHIN 10 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 16 FOOT LONG x 24 INCH DEEP LINEAR POLYETHYLENE BARRIER AT THE EDGE OF PAVEMENT / STRUCTURES, CENTERED ON THE TREE TRUNK.
8. AFTER TREE STAKING OR GUYING IS COMPLETED, REMOVE NURSERY STAKES FROM TREES.
9. INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF AREAS. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM FOUR FOOT (4') DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
10. PRIOR TO SOIL CONDITIONING, RIP IN FOUR DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURF AREAS TO A 12 INCH DEPTH, AND SHRUB AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES (6").
11. UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS ONE INCH (1") DIAMETER AND GREATER FROM THE TOP TWO INCHES (2") OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.05 FOOT TOLERANCE. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
12. OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS PRESSURE TESTED AND OPERATIONAL, AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
13. INSTALL A THREE INCH (3") DEPTH OF THE SPECIFIED DECOMPOSED GRANITE MULCH IN ALL PLANTING AREAS EXCEPT FOR TURF AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN.
14. CONTRACTOR SHALL SUSTAIN NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE BY OWNER.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-122604 INC: 0
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BAKERSFIELD CITY SCHOOL DISTRICT
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LICENSED ARCHITECT CURTIS E. FLYNN No. C 25955 REN. 5-31-25 STATE OF CALIFORNIA

Sheet Title:
LANDSCAPE PLAN

Job No.: **5528**

Sheet No.: **L1.01**

Release: ADDENDUM 1 / 1 11/22/24

G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER 12/19/24

1" = 40'-0"

1" = 30'-0"

1" = 20'-0"

1/8" = 1'-0"

1/4" = 1'-0"

Reference Evapotranspiration (ETo)			51.1				
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
A-1 / low Use Trees	0.3	Bubbler	0.75	0.400	84.00	33.60	1,065
A-2 / Turf	0.7	Spray	0.75	0.933	1,843.00	1720.13	54,497
A-3 / Turf	0.7	Spray	0.75	0.933	1,100.00	1026.67	32,527
A-4 / Turf	0.7	Spray	0.75	0.933	2,305.00	2151.33	68,159
A-5 / Low Use Shrubs	0.3	Bubbler	0.75	0.400	184.00	73.60	2,332
				Totals	5,516	5,005.33	158,579
Special Landscape Areas							
				Totals	5,516	5,005.33	
						ETWU Total	158,579
						Maximum Allowed Water Allowance (MAWA)[e]	170,846

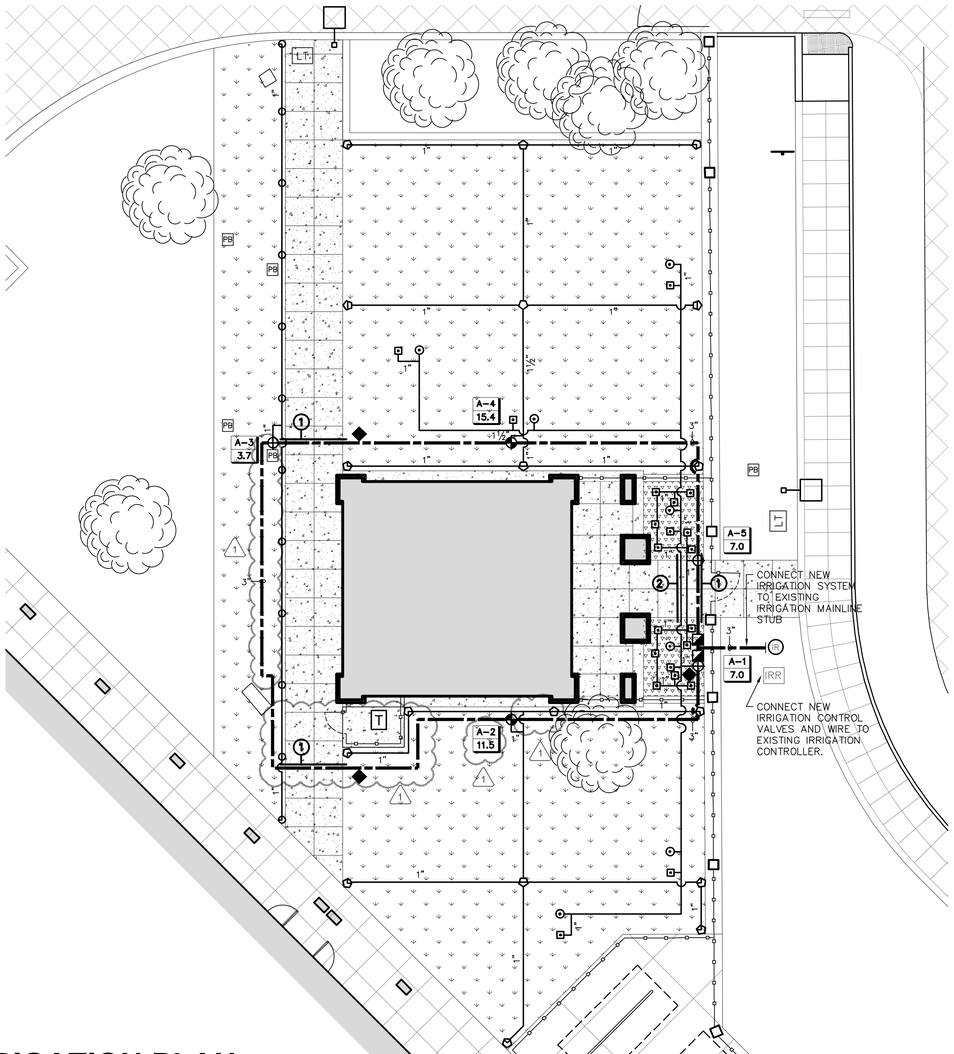
[a] *Hydrozone #/Planting Description*
1.) low water use shrubs
2.) moderate water use shrubs
3.) moderate water use trees

[b] *Irrigation Method*
overhead spray or drip

[c] *Irrigation Efficiency*
0.75 for spray
0.81 for drip

[d] *ETWU (Annual Gallons Required) =* Eto x 0.62 x ETAF x Area where 0.62 is a conversion factor that acre-inches per acre per year to gallons per square foot per year.

[e] *MAWA (Annual Gallons Allowed) = (Eto) (.0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]* where 0.62 is a conversion factor that acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 or residential areas and 0.45 for non-residential areas.



IRRIGATION PLAN
PARENT CENTER

SCALE: 1" = 10'

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	Toro #570Z-4PS-COM-10-SBH-PC3, 4" pop-up sprinkler with flow regulating stem, check valve and Stream Bubbler Nozzle (½" inlet: 0.5 gpm @ 30 psi). Install on uphill side of plant or tree. Refer to Installation Detail #11 on Plan Sheet L1.04.
	Rainbird #RWS-B-C-1401 with #1401 (0.5 gpm) bubbler Root Watering System. Install on uphill side of plant or tree. Refer to Installation Detail #10 on Plan Sheet L1.04.
	Rainbird #1804-SAM-PRS, 4" pop up sprinkler with 12' radius Hunter MP 1000 Rotator nozzles, O-12QP and O-12HP patterns, quarter and half arcs. (½" inlet: 0.17/.34 gpm @ 30 psi). Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. If nozzle radius adjustment required is greater than 25% of nozzle rating, the contractor is to substitute nozzle with 8', 10', or specialty pattern nozzle as required at no additional cost to Owner. Contractor is to review nozzle substitutions with Landscape Architect for comment, prior to installation. See Installation Detail #12 on Plan Sheet L1.04.
	Rainbird #5006-+-SAM-R-SS, 4" pop up rotor with low angle nozzle patterns, 1.0 LA, 2.0 LA and 3.0 LA, quarter, half and full arcs. (½" inlet: 1.05/2.02/3.07 gpm @ 45 psi). Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. See Installation Detail #13 on Plan Sheet L1.04.
	Install (1) New 1" Irritrol #100P1-S-OMR-100, 100 Series Electric Remote Control Valve with pressure regulating module. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on bubbler valves. Filter is to be installed on discharge side of valve. Refer to Installation Detail #07 on Plan Sheet L1.04. Wire to available terminal in controller.
	Install (1) New 1 1/2" Irritrol #100P1.5-S-OMR-100, 100 Series Electric Remote Control Valve with pressure regulating module. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on bubbler valves. Filter is to be installed on discharge side of valve. Refer to Installation Detail #06 on Plan Sheet L1.04. Wire to available terminal in controller.
A-1 / 8.6	Controller # / Station # Gallons per minute
	Rainbird 44LRC, quick coupling valve with locking rubber cover. Provide Maintenance Personnel with three (3) quick coupler keys with hose swivels. Install in separate 10" round valve box. Refer to Installation Detail #04 on Plan Sheet L1.04.
	1" thru 3": NIBCO # T-113 IRR Isolation Gate Valve. Gate Valves are to be line size as noted on the plan. Provide two (2) operating handles (3' min. length) for each type required to the District. See Installation Detail #03 on Plan Sheet L1.04.
	2" THRU 3": PVC SCHEDULE 40 SOLVENT WELD MAINLINE PIPE. Size mainline piping as noted on the plan. Install all pipe in strict accordance with manufacturers instructions with concrete thrust blocks at all changes in direction. No bending, or curving of pipe will be allowed, except as permitted by the pipe manufacturer. Pipe manufacturer must be approved prior to ordering materials. Use mechanical joint restraints where concrete thrust blocks are not applicable, such as vertical changes in direction, or when two pipelines are side by side. Sleeve all pipe under paved surfaces per Sleeving Detail. All mainline fittings that are three inch (3"), or smaller are to be Lasco Schedule 80 Solvent Weld fittings, or approved equal. See manufacturers installation instructions. See Installation Details #02, #05 & #09 on Plan Sheet L1.04.
	1" thru 2": PVC Class 200 Solvent Weld lateral pipe. Sleeve all pipe under paved surfaces over eight feet wide with PVC Class 200 pipe a minimum of two times larger than the pipe being sleeved. One pipe per sleeve only. Minimum sleeve size is 2". Wires are to be sleeved separately from pipe. Size lateral piping as noted on the lateral pipe sizing chart below. Pipe sizing is not to exceed 4.0 feet per second flow velocity. Install all pipe in strict accordance with manufacturers instructions, using appropriate cement and primer for the various pipe sizes and prevailing site conditions. (Note: 1/2", 3/4" & 1 1/4" pipes are not allowed to be used on the project.) Refer to Installation Detail #09 on Plan Sheet L1.04.
1	PVC Irrigation Sleeve. Install per Sleeve Legend and related notes. Refer to Installation Detail #05 on Plan Sheet L1.04.

LATERAL PIPE SIZING CHART	
PIPE SIZE	ALLOWABLE RANGE GALLONS PER MINUTE
¾"	NOT USED
1"	1 – 12 GPM
1½"	13 – 30 GPM
2"	31 – 46 GPM
2½"	NOT USED
3"	NOT USED

THE CONTRACTOR SHALL SIZE ALL LATERAL LINE PIPES TO CORRESPOND WITH THE GALLONS PER MINUTE OF FLOW SHOWN IN THE PIPE SIZE CHART. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLING IRRIGATION SYSTEM.

IRRIGATION SLEEVE LEGEND	
KEY	DESCRIPTION
1	(1) 6" PVC MAINLINE SLEEVE, (1) 2" PVC WIRE SLEEVE
2	(1) 4" PVC LATERAL SLEEVE

1. ALL SLEEVING SHOWN SHALL BE INSTALLED PER DETAIL 5/L1.04, MINIMUM SIZE AS INDICATED IN IRRIGATION SLEEVE LEGEND.
2. LOCATIONS ARE DIAGRAMMATIC.
3. SLEEVING SHALL RUN BENEATH THE HARDSCAPE BETWEEN LANDSCAPE AREAS AT TERMINAL ENDS OF LINES INDICATED.
4. SLEEVING SHALL BE INSTALLED 12"-18" FROM ADJACENT PARALLEL HARDSCAPE.

IRRIGATION NOTES

1. IF EXISTING IRRIGATION SYSTEMS ARE TO BE USED AND EXPANDED TO HANDLE ADDITIONAL COVERAGE OF NEW PLANTING, THE CONTRACTOR SHALL BE RESPONSIBLE TO UPSIZE ANY PART OF THAT SYSTEM TO COMPENSATE FOR THE IRRIGATION EXPANSION.
2. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT
3. CONFIRM OPERATIONAL STATUS OF EXISTING METER AND WATER SERVICE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS
4. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN, AND TO ADJUST SAID DIMENSIONS TO FIT, SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED
6. ALL OFFSETS, FITTINGS, ETC. SHALL BE IN ACCORDANCE WITH CURRENT MWELO REQUIREMENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING HIS WORK. HE SHALL PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES, AND ORDINANCES ACCORDINGLY.
7. IRRIGATION VALVES AND VALVE BOXES SHALL BE LOCATED IN SHRUB / GROUNDCOVER AREAS INSTEAD OF IN TURF GRASS AREAS WHENEVER POSSIBLE
8. INSTALL SLEEVES UNDER ALL ASPHALT, CONCRETE, OR OTHER HARDSCAPE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS NOTED OTHERWISE. CONTROL WIRING SHALL BE SLEEVED IN TWO INCH (2") SCH 40 PVC UNLESS NOTED OTHERWISE. MINIMUM DEPTH OF SLEEVES UNDER ALL HARDSCAPE IMPROVEMENTS IS TO BE 18" BELOW SUBGRADE
9. CONTRACTOR SHALL SAWCUT ASPHALT OR CONCRETE TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM
10. THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR
11. THE CONTRACTOR SHALL PROVIDE ADJUSTMENT TO SPRAY HEAD NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS. CONTRACTOR TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND / OR STRUCTURES ACCORDING TO INDUSTRY INSTALLATION STANDARDS AND CURRENT MWELO REQUIREMENTS.
12. ALL TRENCHING FOR MAINLINE, LATERAL LINES, AND CONTROL WIRES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.
13. CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL MAINLINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE INSTALLED ACCORDINGLY. CONCRETE THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH
14. ALL MAINLINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH ALL VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT, AND ONLY THEN, MAY THE LINE BE BACKFILLED.
15. WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN FOR WIRE CONNECTOR METHODS ALLOWABLE. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
16. ONLY TEFLON TAPE, OR AN APPROVED TEFLON PASTE, MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE
17. THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:
    A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.
    B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).
    C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.
    D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.
    E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
    F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.
    G. INITIAL ELECTRICAL DATA ON EACH VALVE:
        (1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.
        (2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.
18. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF CONTROLLER CHARTS. THE CHARTS ARE TO BE A REDUCED DRAWING OF THE ACTUAL PLANS COLOR CODED WITH DIFFERENT COLORS FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE
19. IRRIGATION TRENCHING AND PIPE INSTALLATION, LOCATED WITHIN EXISTING TREE CANOPIES TO REMAIN, SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH (1") IN DIAMETER.

LANDSCAPE IRRIGATION COMPLIANCE:

THE LANDSCAPE IRRIGATION PLAN SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH SECTION 490 OF CHAPTER 2.7, DIVISION 2, TITLE 23, CALIFORNIA CODE OF REGULATIONS, EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35 IN ACCORDANCE WITH THE 2019 CAL GREEN BUILDING STANDARDS CODE PARAGRAPH 5.304.6.

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Sheet Title:
IRRIGATION PLAN

Job No.: **5528**

Sheet No.: **L1.02**

Release: ADDENDUM 1 (1) 11/22/24

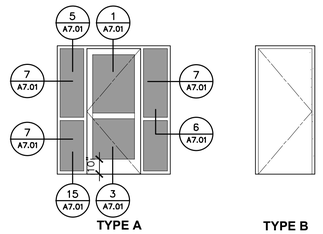
G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER 12/19/24

DOOR SCHEDULE

DOOR SCHEDULE

DOOR NO.	TYPE NO	DOOR OPENING SIZE	DOOR THK	DOOR MAT	DOOR CORE	DOOR FIN.	FRAME MAT	FRAME FIN	GLASS SIZE	LOUVER SIZE	U/L RAT'G	HARDWARE NO.	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS SILL	SIGNAGE SHT. A8.01	REMARKS
101A	A	3'-0"x 7'-0"	1 3/4"	HM	INSUL	P	HM	P		-	-	1	1/A7.01	6/A7.01	6/A7.01	3/A7.01	1,4,5	MAG LOCK
101B	A	3'-0"x 7'-0"	1 3/4"	HM	INSUL	P	HM	P		-	-	1	1/A7.01	6/A7.01	6/A7.01	3/A7.01	1,4,5	MAG LOCK 1
102	B	3'-0"x 7'-0"	1 3/4"	WD	SC	FF	HM	P	-	-	-	2	2/A8.02	3/A8.02	3/A8.02	14/A8.01	2	
103	B	3'-0"x 7'-0"	1 3/4"	WD	SC	FF	HM	P	-	-	-	3	2/A8.02	3/A8.02	3/A8.02	10/A8.01	5	
104	B	3'-0"x 7'-0"	1 3/4"	HM	INSUL	P	HM	P	-	-	-	3	1/A7.01	2/A7.01	2/A7.01	3/A7.01	5	

DOOR TYPES



TYPE A

TYPE B

DOOR ABBREVIATIONS

FF	FACTORY FINISH
HM	HOLLOW METAL
INSUL	INSULATED
L	LAMINATED
P	PAINT (SEE SPECS)
SC	SOLID CORE
WD	WOOD

ACCESSIBILITY NOTE

A. THE MAXIMUM EFFORT TO OPERATE EXTERIOR DOORS SHALL NOT EXCEED 5 POUNDS. CBC 11B-404.2.9 AT ACCESSIBLE ENTRANCES

B. CBC 1010.1.11 - NEW BUILDINGS ON A K-12 PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.1.9. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

MATERIAL AND FINISH SCHEDULE

MATERIAL AND FINISH SCHEDULE

Room No.	ROOM NAME	FLOOR MAT	FLOOR FIN	BASE MAT	BASE FIN	BASE HT	WAINSCOT MAT	WAINSCOT FIN	WAINSCOT HT	WALLS NORTH MAT	WALLS NORTH FIN	WALLS EAST MAT	WALLS EAST FIN	WALLS SOUTH MAT	WALLS SOUTH FIN	WALLS WEST MAT	WALLS WEST FIN	CEILING MAT	CEILING FIN	CEILING HT	REMARKS
101	CLASSROOM	CPT	FF	RTB	FF	4"	-	-	-	TB	FF	TB	FF	TB	FF	TB	FF	SAR	FF	9'-0"	WALK OFF CARPET TILES @ ENTRANCE 1
102	UNISEX TOILET	CT	FF	CT	FF	6"	-	-	-	CT	FF	CT	FF	CT	FF	CT	FF	GB	P	8'-0"	
103	ELECTRICAL	VCT	FF	RTB	FF	4"	-	-	-	PLY/GB	P	PLY/GB	P	GB	P	GB	P	-	-	9'-0" 1	
104	FIRE RISER	CONC	SEAL	RTB	FF	4"	-	-	-	GB 1	P	GB 1	P	GB	P	GB	P	-	-	OPEN	

M&F NOTES

1. ALL FLOOR PLAN ROOM NAMES AND NUMBERS ARE FOR CONSTRUCTION INFORMATION ONLY. THE CONTRACTOR SHALL COORDINATE ACTUAL ROOM NAMES & NUMBERS WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING ANY ROOM SIGNAGE.
2. SEE SPECIFICATIONS FOR ADDITIONAL FINISH MATERIAL INFORMATION.
3. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
4. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT AS PER CBC 11B-302.1
5. ALL GLAZING TO COMPLY WITH CBC 2406.3
6. GYP BOARD TEXTURE TO BE LIGHT SPAY PER SPECIFICATIONS

M&F ABBREVIATIONS

SAT	=	SUSPENDED ACCOUSTICAL TILE CEILING
CPT	=	CARPET
CT	=	CERAMIC TILE
CTB	=	CERAMIC TILE W/INTEGRAL COVE
FF	=	FACTORY FINISH
FRP	=	FIBERGLASS REINFORCED PANELS
GB	=	GYPSUM BOARD
P	=	PAINT SYSTEM - SEE SPECIFICATIONS
RTB	=	RUBBER TOPSET BASE
SV	=	SHEET VINYL
CONC	=	CONCRETE
SEAL	=	SEALED CONCRETE
PLY	=	PLYWOOD 1

* SEE SPECIFICATIONS

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Sheet Title:

SCHEDULES

Job No.:

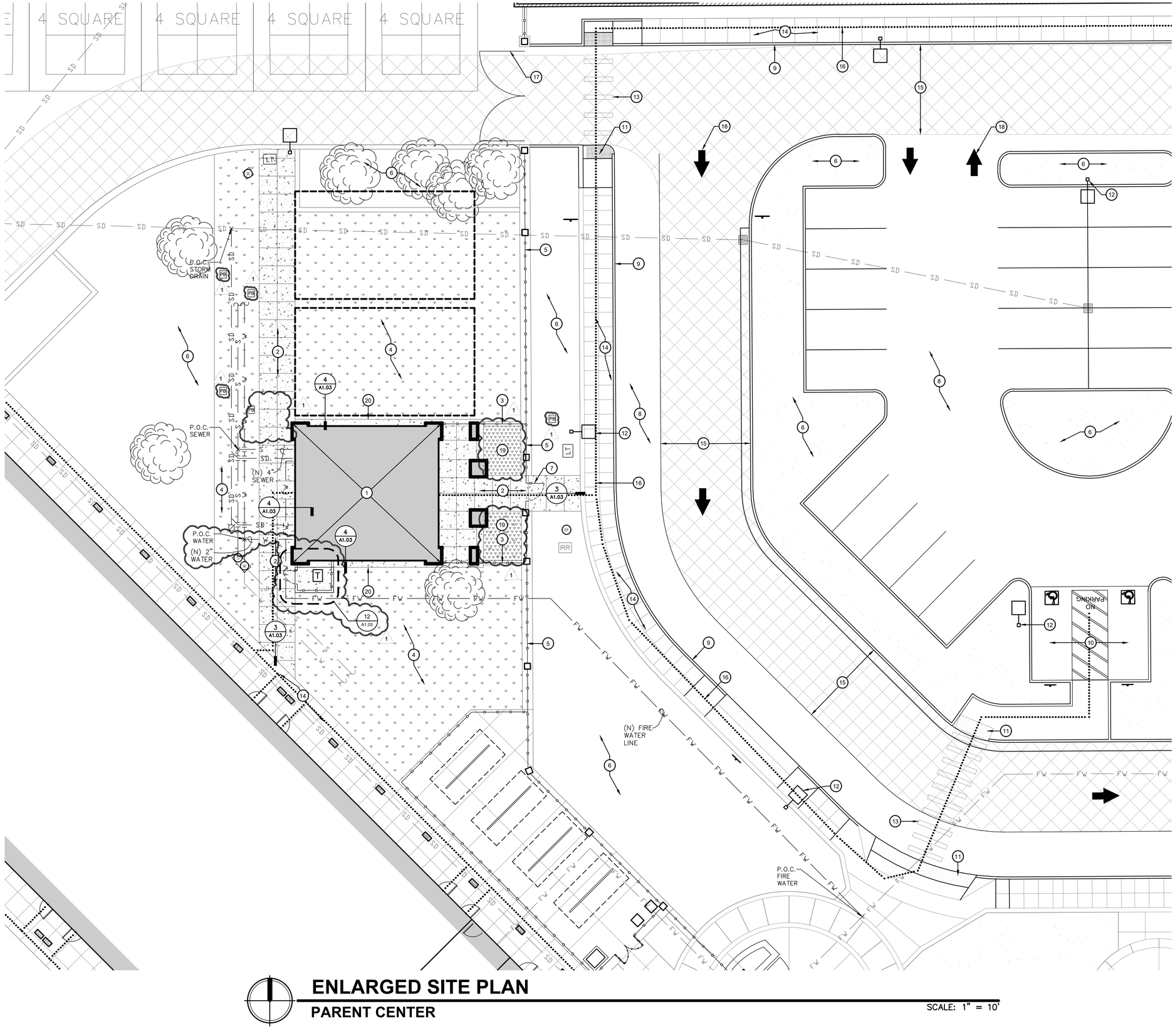
5528

Sheet No.:

A0.01

Release: ADDENDUM 1 1 11/22/24

1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4



ENLARGED SITE PLAN

PARENT CENTER

SCALE: 1" = 10'

KEY NOTES

1. NEW BUILDING UNDER THIS APPLICATION
2. NEW CONCRETE SIDEWALK, -SEE 1/A1.03
3. (N) DECORATIVE STEEL FENCE, -SEE 6/A1.03
4. (N) TURF. ADJUST EXISTING IRRIGATION TO PROVIDE FULL COVERAGE. -SEE LANDSCAPE PLAN. 1
5. (E) DECORATIVE STEEL FENCE, -SEE DSA# 03-118394
6. (E) LANDSCAPE AND IRRIGATION, , -SEE DSA# 03-118394
7. (N) DECORATIVE GATE w/ 4' PANIC HARDWARE DOOR -SEE 5/A1.03 (REMOVE PORTION OF EXISTING FENCE PANEL. 1
8. (E) AC PAVING, -SEE DSA# 03-118394
9. (E) 6" CONCRETE CURB, -SEE DSA# 03-118394
10. (E) ACCESSIBLE PARKING, -SEE DSA# 03-118394
11. (E) TRUNCATED DOMES, -SEE DSA# 03-118394
12. (E) PARKING LOT LIGHT POLE AND BASE, -SEE DSA# 03-118394
13. (E) PAINTED WHITE CROSSWALK STRIPING, -SEE DSA# 03-118394
14. (E) CONCRETE SIDEWALK, -SEE DSA# 03-118394
15. (E) FIRE TRUCK ACCESS LANE.
16. DOTTED LINE INDICATES ACCESSIBLE PATH OF TRAVEL (DSA# 03-118394 ADDENDUM NO.2)
17. (E) 20 ' WIDE GATE, -SEE DSA# 03-118394
18. (E) PAINTED DIRECTIONAL ARROW, -SEE DSA# 03-118394
19. (N) PLANTER, -SEE LANDSCAPE PLANS. 1
20. (N) CONC. MOWSTRIP, -SEE 4/A1.03

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.
C. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY COMPACTION RETEST DUE TO INITIAL FAILURE.
D. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
E. A COPY OF TITLE-24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES.
F. ADDENDA SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA.
G. C.C.D.s SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER AND APPROVED BY DSA.
H. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
I. ALL WORK SURFACES DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT SURFACES.
J. NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1 IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.")AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.
K. ALL BUILDING AND ROOM NAMES INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE "NOT" THE ACTUAL BUILDING/ ROOM SIGNAGE DESIGNATION. THE GENERAL CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL REQUIRED SIGNAGE WITH THE OWNER/ARCHITECT PRIOR TO STARTING CONSTRUCTION.
L. GENERAL CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE RELOCATABLE BUILDING DELIVERY DATES TO THE SCHOOL SITE WITH THE MFGR.
M. THE GENERAL CONTRACTOR SHALL CONSTRUCT ALL NEW RELOCATABLE BUILDING FOUNDATIONS AS PER THE RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS AND SPECIFICATIONS.
N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL HOOK-UPS TO THE RELOCATABLE BUILDINGS AFTER INSTALLATION HAS BEEN COMPLETED BY THE MANUFACTURER.
O. 5'-0" DEEP x 5'-0" WIDE MINIMUM LANDINGS AT DOORWAYS SHALL BE AS DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) OF NOT GREATER THAN 1/4 IN 12 SLOPE. SLOPES SHALL BE AWAY FROM DOORWAYS.
P. GENERAL/SITE CONTRACTOR SHALL FIELD VERIFY THAT EXISTING PATH OF TRAVEL (P.O.T.) IS A MINAMUM OF 4'-0" WIDE AND IS SLIP RESISTANT. IF IT IS NOT, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD AND A REMEDY OR ALTERNATE P.O.T. WILL BE PROVIDED.
Q. THE MAXIMUM DROP BETWEEN EXISTING FINISHED GRADES AND THE TOP OF THE P.O.T. SHOULD NOT EXCEED 4". IF IT DOES, PROVIDE THE NECESSARY WARNING CURB PER CBC SEC. 11B-303.5.
R. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A C.C.D. OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. *PER DSA IR 16-1, SEC. 5.4

S. CONTRACTOR SHALL ADJUST ALL DOOR CLOSERS TO A MAXIMUM OPENING FORCE OF 5 LBF

LEGEND

- NEW BUILDING
- NEW CONCRETE SIDEWALK
- FIRE TRUCK LANE
- NEW TURF
- PLANTER
- (N) TRANSFORMER 1
- (N) DECORATIVE FENCE
- ACCESSIBLE PATH OF TRAVEL

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Sheet Title:

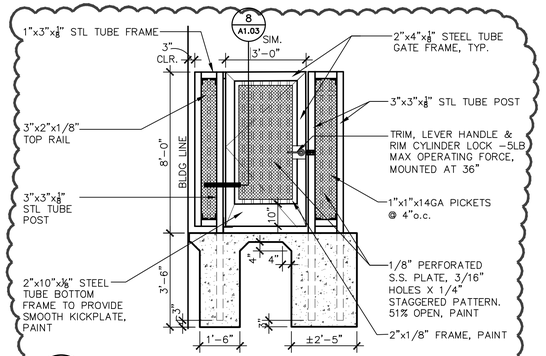
ENLARGED SITE PLAN

Job No.: **5528**

Sheet No.: **A1.02**

Release: ADDENDUM 1 1 11/22/24

G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER 1/28/25

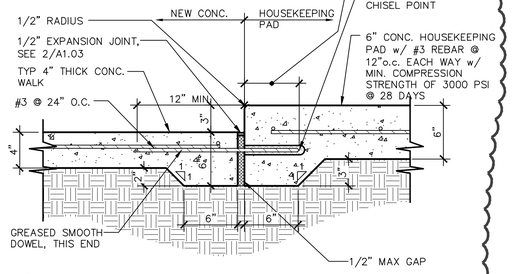


13 A1.03 DECORATIVE STEEL SINGLE GATE

ADS100-53 SCALE: 3/8" = 1'-0"

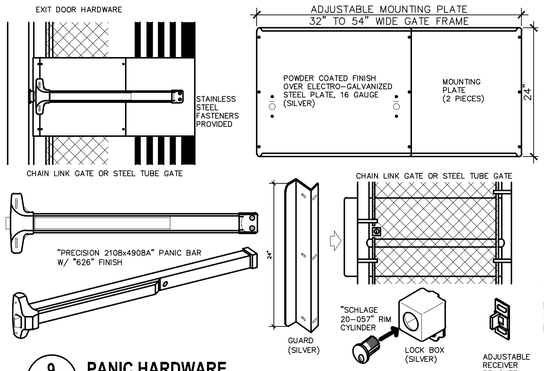
INSTALLATION:

1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.



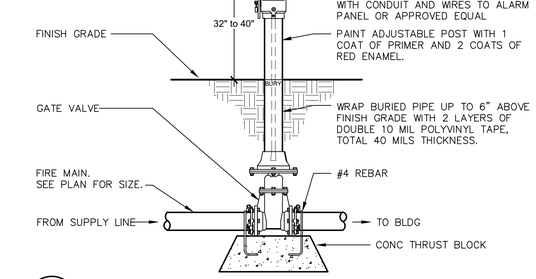
14 A1.03 WALK TO HOUSEKEEPING PAD

ADS100-06 SCALE: 1 1/2" = 1'-0"



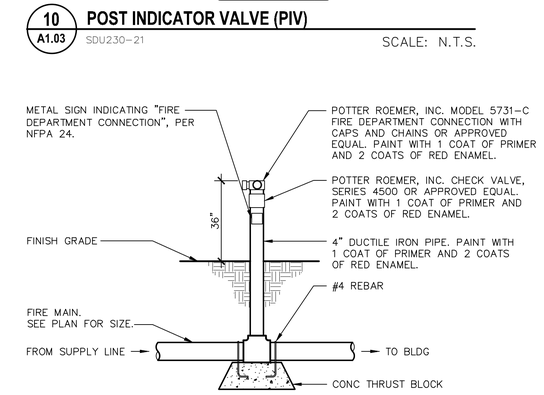
9 A1.03 PANIC HARDWARE

ADS100-52 N.T.S.



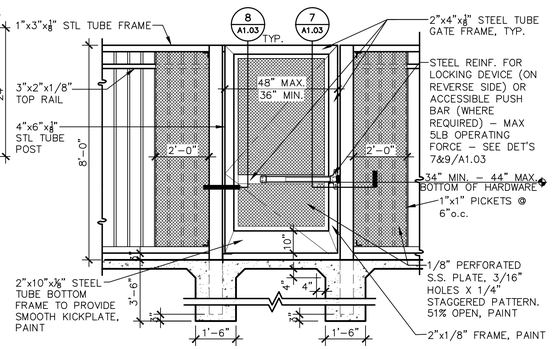
10 A1.03 POST INDICATOR VALVE (PIV)

SDU230-21 SCALE: N.T.S.



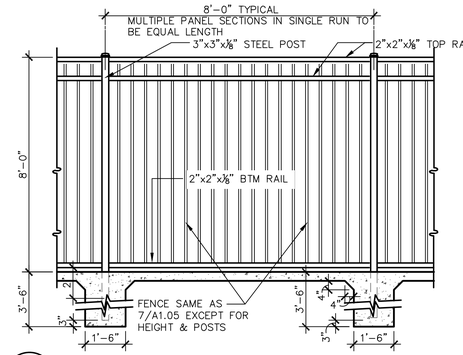
11 A1.03 FIRE DEPARTMENT CONNECTION (FDC)

SDU130-22 SCALE: N.T.S.



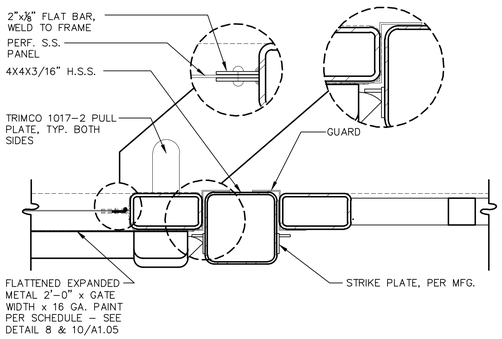
5 A1.03 DECORATIVE STEEL SINGLE GATE

ADS100-50 SCALE: 3/8" = 1'-0"



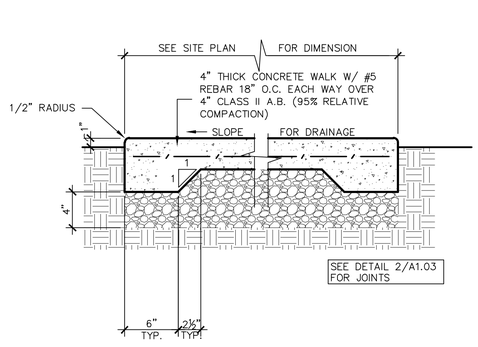
6 A1.03 8' HIGH DECORATIVE STEEL FENCE

ADS100-50B SCALE: 3/8" = 1'-0"



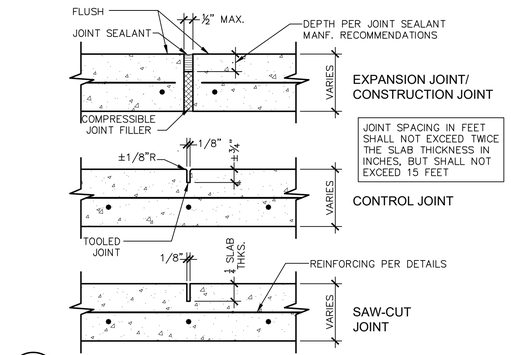
7 A1.03 LOCKING DEVICE @ ACCESSIBLE GATE

ADS100-49 SCALE: 3" = 1'-0"



1 A1.03 TYPICAL CONCRETE WALK

ADS100-15 SCALE: 1 1/2" = 1'-0"

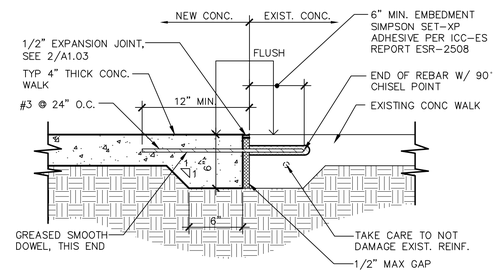


2 A1.03 CONCRETE CONTROL JOINTS

ADS110-01 SCALE: 3" = 1'-0"

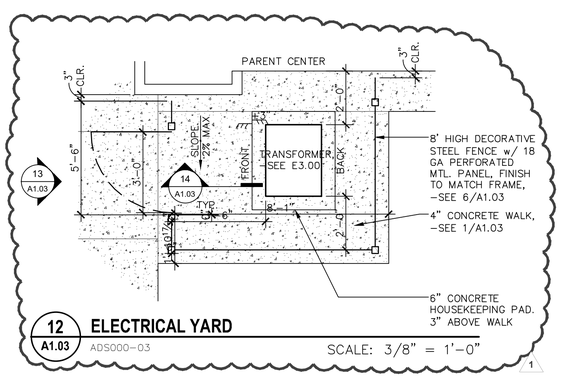
INSTALLATION:

1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.



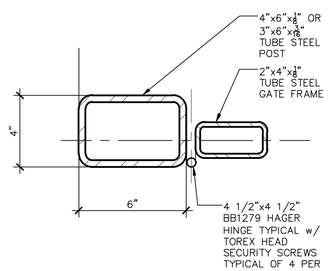
3 A1.03 (N) CONC WALK TO (E) CONC WALK

ADS100-05 SCALE: 1 1/2" = 1'-0"



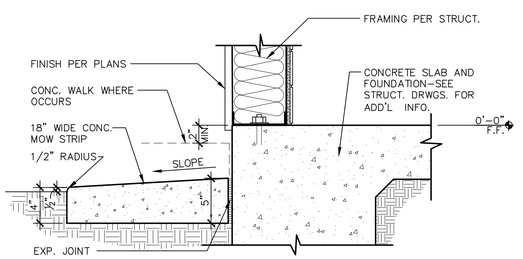
12 A1.03 ELECTRICAL YARD

ADS000-03 SCALE: 3/8" = 1'-0"



8 A1.03 GATE HINGE

ADS120-05 SCALE: 3" = 1'-0"



4 A1.03 TYPICAL MOWSTRIP

ADW131-23 SCALE: 1 1/2" = 1'-0"

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1300 BAKER ST
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Project Name:

PARENT CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

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Sheet Title:

SITE DETAILS

Job No.: **5528**

Sheet No.: **A1.03**

Release: ADDENDUM 1 11/22/24

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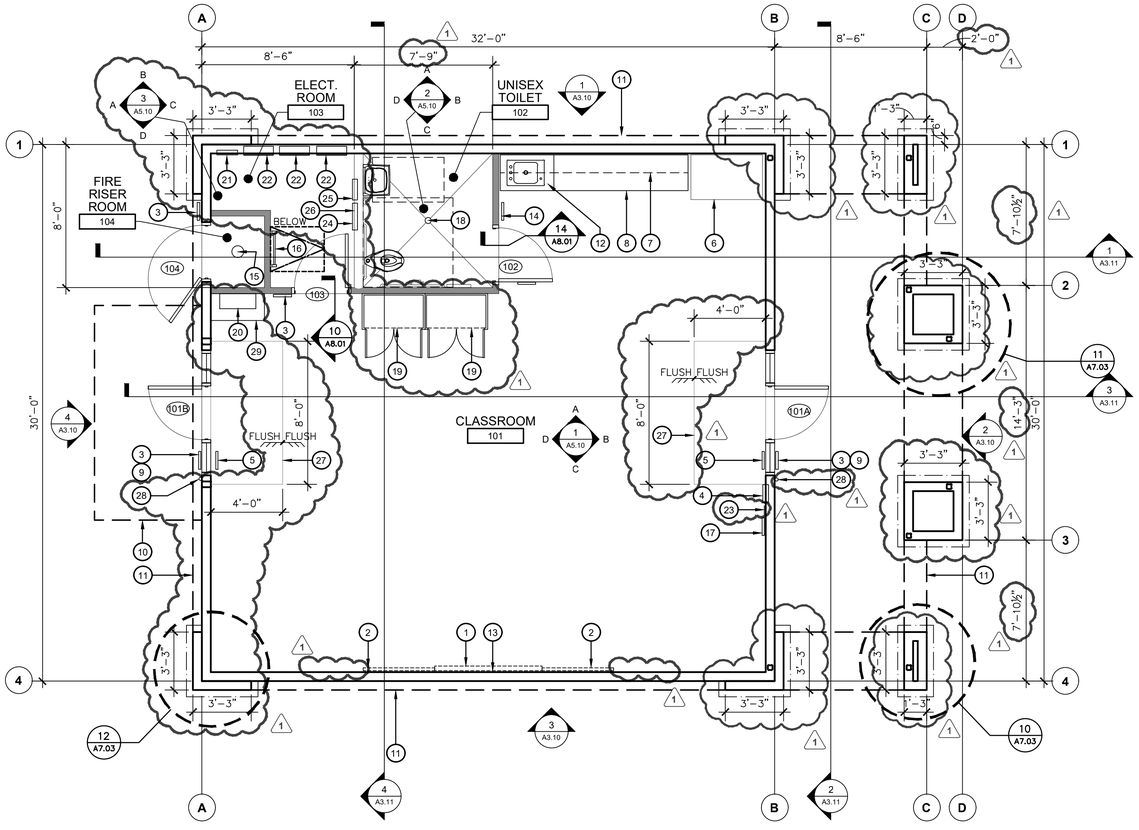

FLOOR PLAN
PARENT CENTER

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

ALS SYSTEM

ASSISTIVE LISTENING SYSTEM (ALS):

1. PROVIDE A SET OF PORTABLE ALS WITH A TRANSMITTER AND A MINIMUM OF TWO HEARING-AID COMPATIBLE RECEIVERS.

   PER CBC 2019, 11B-219.
   960S.F. / 20 (OCCUPANT LOAD) = 48
   48 x 4% = 1.92 ALS DEVICES REQUIRED (OR 2 MIN.).

2. THE SYSTEM SHALL BE STORE IN THE SCHOOL ADMINISTRATION OFFICE UNTIL REQUESTED FOR USE.

3. SPECIFY THE ALS TYPE AND THAT THE SYSTEM SHALL BE CAPABLE OF INTERFACING WITH THE VOCE AMPLIFICATION SYSTEMS AND ANY MEDIA PROGRAM AUDI SYSTEM INSTALLED, AND SHALL COMPLY WITH CBC SECTIONS 11B-219 AND 11B-706.

4. SYSTEM SHALL INCLUDE: ANCHOR AUDIOASSISTIVE LISTENING PACKAGE #AL-9000: 16 CHANNEL TRANSMITTER, DC POWER SUPPLY, 4 BELT PACK RECEPTACLES WITH EAR BUDS WITH NECK LOOPS, WIRELESS MICROPHONE & BATTERY CHARGER, OR EQUAL..

KEY NOTES

1. 4'-0"x 6'-0" SMART BOARD .
2. 4'-0" X 4'-0" MARKER BOARD. SEE DETAIL 9/A8.02
3. ROOM ID SIGNAGE - SEE DETAIL 5/A8.01
4. FIRE EXTINGUISHER CABINET. SEE DETAIL 5/A8.02
5. TACTILE EXIT SIGN. SEE DETAIL 4/A8.01
6. REFRIGERATOR - F.B.O.
7. UPPER CABINETS - BACKING BY CONTRACTOR, CABINETS F.B.O. / I.B.O. SEE DETAIL 10/A8.02
8. BASE CABINETS - BACKING BY CONTRACTOR, CABINETS F.B.O. / I.B.O. SEE DETAIL 10/A8.02
9. BUILDING ENTRANCE SIGNAGE PER DETAIL 1/A8.01
10. METAL CANOPY ABOVE
11. DASHED LINE INDICATES SOFITT ABOVE
12. S.S HANDWASH WITH SOAP AND PAPER TOWEL DISPENSER - HANDWASH F.B.O. / I.B.O.
13. CLOCK AND SPEAKER ABOVE MARKER BOARD - SEE INTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS
14. ACCESSIBLE UNISEX TOILET SIGNAGE - SEE DETAIL 2/A8.01
15. FIRE RISER
16. ROOF ACCESS LADDER - SEE DETAILS 10/A7.01 THRU 14/ A7.01
17. ALS AVAILABLE SIGN, PROVIDE PORTABLE ASSISTIVE LISTENING SYSTEM PER CBC, 11B-216.10, 11B-219 AND 11B-706, -SEE DETAIL 11/A8.01.
18. FLOOR DRAIN, -SEE PLUMBING DRAWINGS.
19. FULL HEIGHT LOCKING CABINETS - BACKING BY CONTRACTOR, CABINETS F.B.O. / I.B.O. SEE DETAIL 10/A8.02.
20. IDF, -SEE ELECTRICAL SHEETS.
21. FATC, -SEE ELECTRICAL SHEETS.
22. ELECTRICAL PANEL, -SEE ELECTRICAL SHEETS.
23. ALARM KEYPAD, -SEE ELECTRICAL SHEETS.
24. SONITROL SECURITY CABINET, -SEE ELECTRICAL SHEETS.
25. MAG CONTROL BOX, -SEE ELECTRICAL SHEETS.
26. HVAC W/RELESS REPEATER, -SEE MECHANICAL SHEETS.
27. WALK OFF CARPET TILES.
28. MAG LOCK.
29. BOOK SHELF, - BACKING BY CONTRACTOR, BOOK SHELF F.B.O. / I.B.O. SEE DETAIL 4/A5.10.

GENERAL NOTES

1. DIMENSIONS ARE GIVEN TO FACE OF STUD UNLESS NOTED OTHERWISE.
2. DIMENSIONS FOR ACCESSIBILITY COMPLIANCE ARE GIVEN FROM CENTERLINE OR FACE OF FIXTURE/ACCESSORY TO FACE OF FINISH OR ADJACENT FIXTURE/ACCESSORY. SEE NOTE BELOW
3. SEE SHEET A8.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS AT ALL TOILET ROOM ACCESSORIES AND ACCESSIBLE FIXTURES: WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, ETC.
4. SEE MATERIAL & FINISH SCHEDULE ON SHEET A0.01 FOR MATERIAL & FINISH SELECTIONS.
5. ALL INTERIOR WALLS INDICATED TO RECEIVE ACOUSTIC BATT INSULATION. PROVIDE GYPSUM BD. FROM FINISH FLOOR TO WITHIN ½" OF ROOF DECK ABOVE W/ BLOCKING BETWEEN ROOF FRAMING MEMBERS
6. ALL EXTERIOR WALLS TO RECEIVE R-19 F.G. BATT INSULATION
7. ALL GYPSUM BOARD TO BE 5/8" U.N.O. CEMENT BACKER @ C.T.
8. FRAME ALL WALLS FROM FLOOR SLAB BELOW TO WITHIN 1/4" OF THE UNDERSIDE OF THE ROOF DECK ABOVE U.N.O. W/ 5/8" GYP. BD. BOTH SIDES FROM FIN. FLOOR BELOW TO 6" ABOVE HIGHEST ADJACENT CEILING
9. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS
10. SEE STRUCTURAL DRAWINGS FOR TYPICAL WOOD FRAMING CONSTRUCTION DETAILS
11. ALL INSULATION AT EXTERIOR WALLS SHALL BE R-19 INSULATION. INSULATION IN ATTIC SPACE SHALL BE R-38 FOIL-FACT F.G. BATT INSULATION INSTALLED. INSULATION INSTALLED ON ROOF DECK SHALL BE R-30 RIGID INSULATION

GENERAL NOTES

6" METAL STUD

4" METAL STUD

CMU VENEER

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STATE OF CALIFORNIA

Sheet Title:

FLOOR PLAN

Job No.: **5528**

Sheet No.: **A2.10**

Release: ADDENDUM 1 △ 11/22/24

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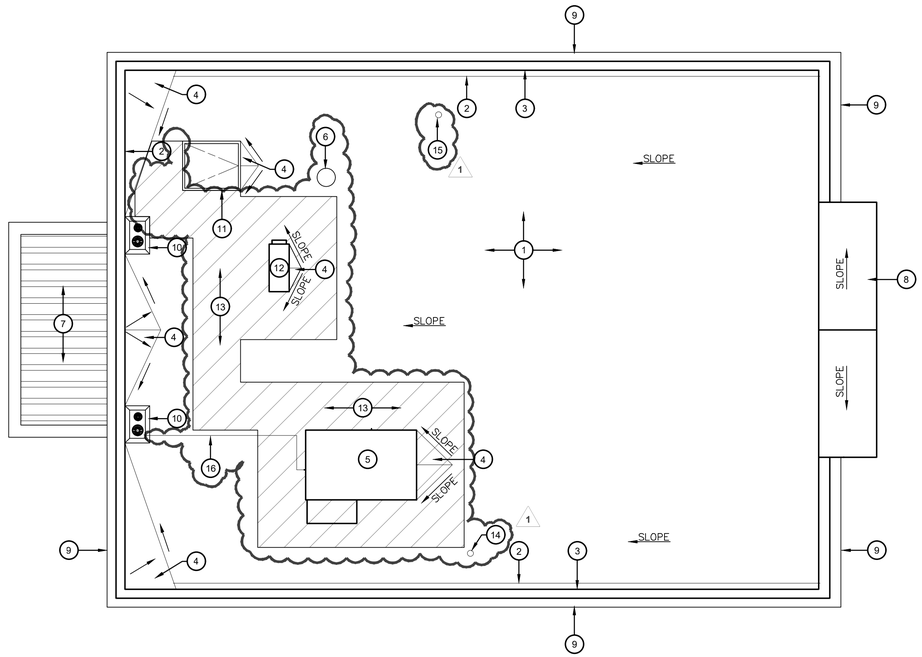

ROOF PLAN
PARENT CENTER

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

KEY NOTES

1. SINGLE PLY ROOF MEMBRANE
2. CANT STRIP, -SEE 4/A7.02
3. SHEET METAL PARAPET CAP
4. CRICKET, -SEE 8/A7.02
5. MECHANICAL UNIT ON ROOF CURB, -SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION, -SEE 5/A7.02
6. ROOF VENT PENETRATION w/ ROOF CAP, -SEE 7/Mo.11
7. METAL AWNING, -SEE SHEET A7.05 (DEFERRED SUBMITTAL).
8. SHEET METAL CAP
9. SHEET METAL FLASHING
10. ROOF DRAIN AND OVERFLOW - SEE 2/A7.02.
11. ROOF ACCESS HATCH, -SEE 10-14/A7.01.
12. OUTDOOR UNIT ON PLATFORM. SEE MECHANICAL DRAWINGS.
13. ROOF WALK MATS TYP., -SEE SPEC SECTION 075423.
14. HOSE-BIBB ON ROOF, -SEE 6/A7.02 AND MECHANICAL DRAWINGS.
15. ROOF VENT PENETRATION, -SEE 7/A7.02 & MECHANICAL DRAWINGS.
16. CONDENSATE DRAIN PIPE ON ROOF, -SEE PLUMBING PLANS

GENERAL NOTES

1. ALL ROOF PENETRATIONS SHALL BE WEATHER TIGHT
2. ALL SHEET METAL COPING SHALL BE PAINTED TO MATCH ADJACENT FINISH. ALL FLASHING SHALL HAVE A 15# UNDERLAYMENT.

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Sheet Title:

ROOF PLAN

Job No.: **5528**

Sheet No.: **A4.10**

Release: ADDENDUM 1 11/22/24

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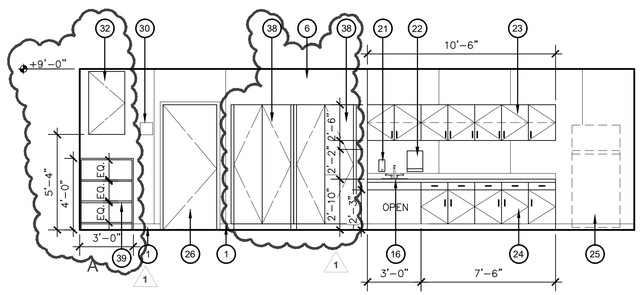
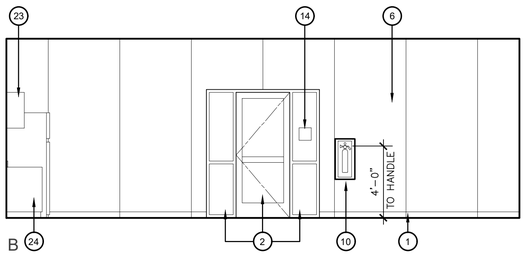
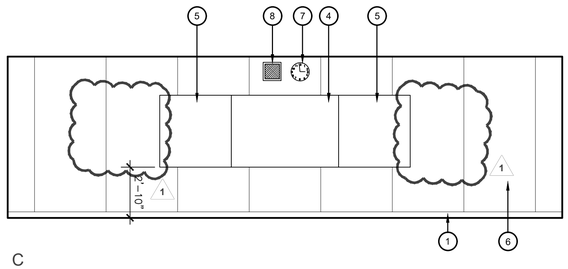
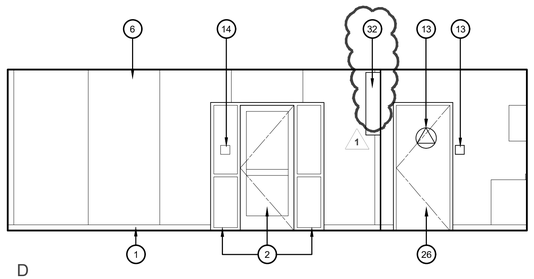
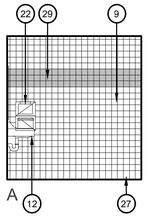
1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4

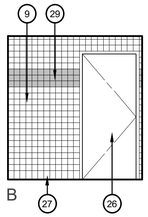


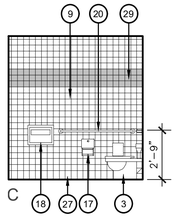


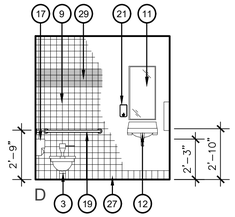




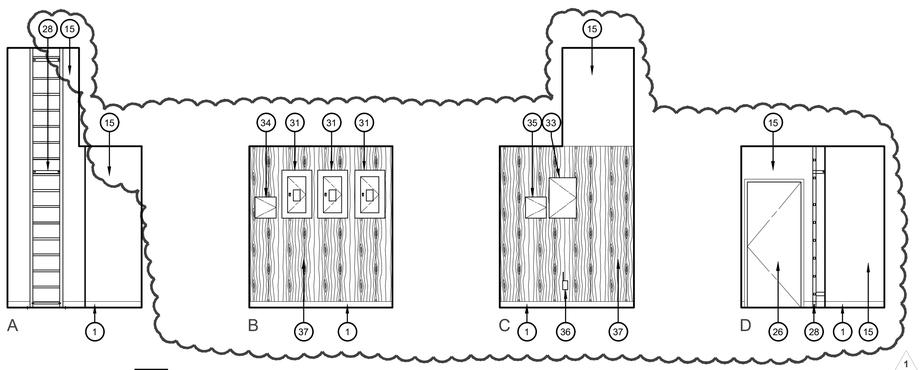






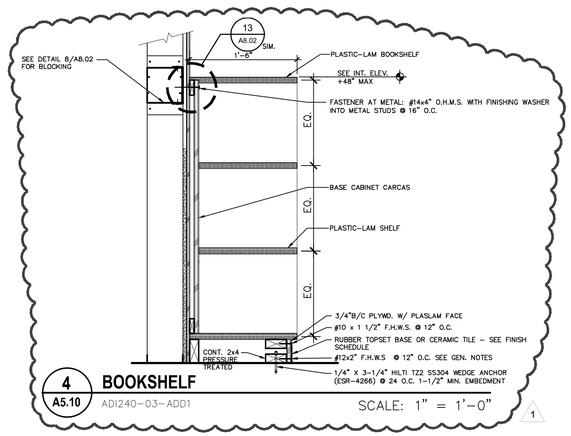


1 CLASSROOM 101
1/4" = 1'-0"



3 ELECT. ROOM 103
1/4" = 1'-0"

2 UNISEX TOILET 102
1/4" = 1'-0"



4 BOOKSHELF A5.10
ADI240-03-ADD1
SCALE: 1" = 1'-0"

KEY NOTES

1. 4" RUBBER TOPSET BASE
2. DOOR & WINDOW FRAME - SEE SCHEDULES
3. FLOOR MOUNTED WATER CLOSET - SEE PLUMBING.
4. 4'-0" X 6'-0" SMART BOARD - SEE DETAIL 9/A8.02 SIM.
5. 4'-0" X 4'-0" MARKER BOARD - SEE DETAIL 9/A8.02
6. VINYL COVERED TACK BOARD
7. CLOCK - SEE ELECTRICAL
8. SPEAKER - SEE ELECTRICAL
9. CERAMIC WALL TILE
10. WALL MOUNTED FIRE EXTINGUISHER - SEE DETAIL 5/A8.02
11. MIRROR
12. LAVATORY- SEE PLUMBING PLANS
13. ACCESSIBLE UNISEX TOILET ROOM SIGN- SEE DETAIL 2/A8.01
14. TACTILE EXIT SIGNAGE - SEE DETAIL 4/A8.01
15. GYP BOARD - TEXTURE, PRIME & PAINT
16. SINK WITH FAUCET - SEE PLUMBING
17. TOILET PAPER DISPENSER
18. TOILET SEAT PAPER DISPENSER
19. 36" GRAB BAR - SEE DETAIL 8/A8.01
20. 48" GRAB BAR - SEE DETAIL 8/A8.01
21. WALL MOUNTED SOAP DISPENSER - F.B.O. INSTALLED BY CONTRACTOR
22. PAPER TOWEL DISPENSER - F.B.O. INSTALLED BY CONTRACTOR
23. WOOD VENEER FACED UPPER CABINETS - SEE DETAIL 10/A8.02
24. WOOD VENEER FACED BASE CABINETS - SEE DETAIL 10/A8.02
25. REFRIGERATOR - F.B.O.
26. DOOR & FRAME - SEE SCHEDULES
27. CERAMIC 6" TILE COVE BASE
28. ROOF ACCESS LADDER - SEE DETAILS 10-14/A7.01
29. CERAMIC TILE ACCENT COLOR, TWO COURSES
30. ROOM ID SIGN - SEE DETAIL 5/A8.01.
31. ELECTRICAL PANEL, -SEE ELECTRICAL SHEETS.
32. IDF, -SEE E-4.0.
33. SONITROL SECURITY CABINET, -SEE ELECTRICAL SHEETS.
34. FATC, -SEE ELECTRICAL SHEETS.
35. MAG CONTROL BOX, -SEE E-4.0.
36. HVAC WIRELESS REPEATER, -SEE MECHANICAL SHEETS.
37. ¾" PLY. WD. o/ GYP. BD.
38. FULL HEIGHT LOCKING CABINETS - BACKING BY CONTRACTOR, CABINETS F.B.O. / I.B.O. SEE DETAIL 10/A8.02.
39. BOOKSHELF, -BACKING BY CONTRACTOR, BOOKSHELF F.B.O. / I.B.O. -SEE 4/A5.10.

1

GENERAL NOTES

1. REFER TO ROOM FINISH SCHEDULE FOR FINISHES SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS
2. CONTRACTOR SHALL PROVIDE BACKING AS PER MANUFACTURES REQUIREMENTS FOR ALL WALL MOUNTED ACCESSORIES. SEE DETAIL 7/A8.01 FOR ACCESSORY MOUNTING HEIGHTS AND DETAIL 10/A8.02 FOR CASEWORK ANCHORING
3. COLORS FOR ALL ITEMS OF WORK SHALL BE SELECTED BY ARCHITECT
4. ALL CABINET DOOR PULLS SHALL BE MOUNTED VERTICALLY AND DRAWER PULLS SHALL BE MOUNTED HORIZONTALLY
5. CONTRACTOR SHALL COORDINATE w/ ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR LOCATIONS OF ALL OUTLETS, EXITS SIGNS, DATA BOXES, ACCESS DOORS, AND REQUIRED FINISHES
6. SEE DETAILS ON SHEET A8.01 FOR STANDARD MINIMUM ACCESSIBLE CLEARANCES/HEIGHTS AT TOILETS, LAVATORIES, TOILET ACCESSORIES, DRINKING FOUNTAINS, ETC.

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Sheet Title:

INTERIOR ELEVATIONS

Job No.: **5528**

Sheet No.: **A5.10**

Release: ADDENDUM 1 11/22/24

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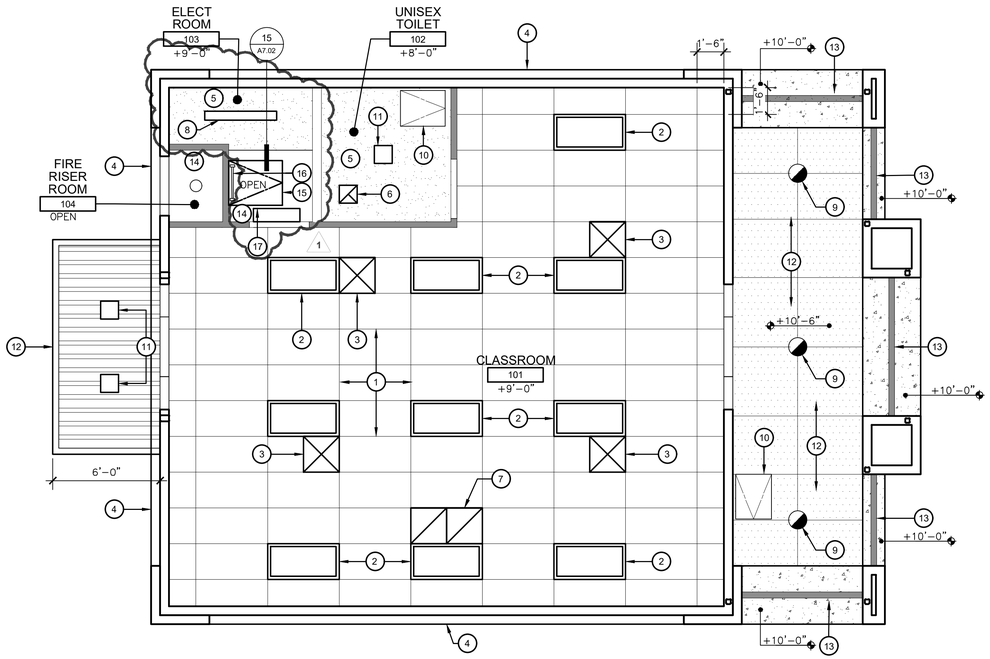

REFLECTED CEILING PLAN

PARENT CENTER

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

KEY NOTES

1. SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM, -SEE SHEETS A8.03 & A9.04
2. 2' X 4' RECESSED LIGHT FIXTURE
3. MECHANICAL SUPPLY GRILLE, SEE MECHANICAL
4. ROOF OVERHANG
5. GYPSUM BOARD CEILING - SEE DETAIL 15/A8.01
6. EXHAUST FAN, -SEE MECHANICAL
7. RETURN GRILLE, -SEE MECHANICAL.
8. SURFACE MOUNTED LIGHT FIXTURE, -SEE ELECTRICAL SHEETS. 1
9. RECESSED CAN LIGHT FIXTURE
10. CEILING ACCESS DOOR, -SEE 1/A7.02
11. 1' SURFACE MOUNTED LIGHT FIXTURE
12. METAL AWNING, -SEE SHEET A7.05 (DEFERRED SUBMITTAL).
13. 4" CONTINUOUS SOFFIT VENT
14. NO CEILING ,OPEN TO ROOF FRAMING
15. ROOF HATCH
16. ROOF ACCESS LADDER
17. INDOOR AIR UNIT, -SEE MECHANICAL PLANS. 1

GENERAL NOTES

1. ALL GYPSUM BOARD SOFFITS AND CEILINGS SHALL BE 5/8" THICK, UNLESS NOTED OTHERWISE.
2. SEE INTERIOR ELEVATIONS / SECTIONS FOR ADDITIONAL INFORMATION AT SPECIAL CEILING AREAS
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER WATER TIGHT FLASHING AROUND ALL ROOF PENETRATIONS, PER SMACNA STANDARDS

LEGEND

- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- SOFFIT
- 2x4 RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- RECESSED CAN LIGHTS
- 4x SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS) 1
- 1' SQUARE SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- MECHANICAL SUPPLY GRILLE (SEE MECHANICAL DRAWINGS)
- EXHAUST FAN (SEE MECHANICAL DRAWINGS)
- GYPSUM BOARD CEILING

APPROVED
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APP: 03-122604 INC: 0
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DATE: 02/25/2025

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST
BAKERSFIELD, CA 93305

Project Name:

PARENT CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
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Sheet Title:

REFLECTED CEILING PLAN

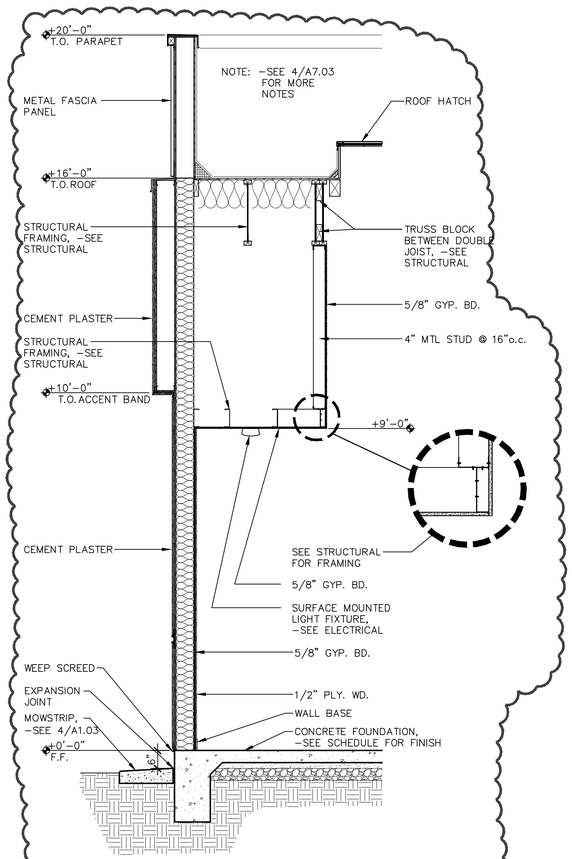
Job No.: **5528**

Sheet No.: **A6.10**

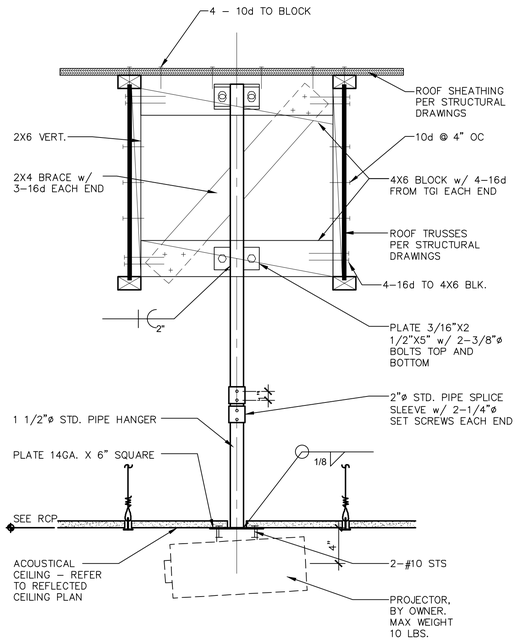
Release: ADDENDUM 1 1 11/22/24

G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER 12/19/24

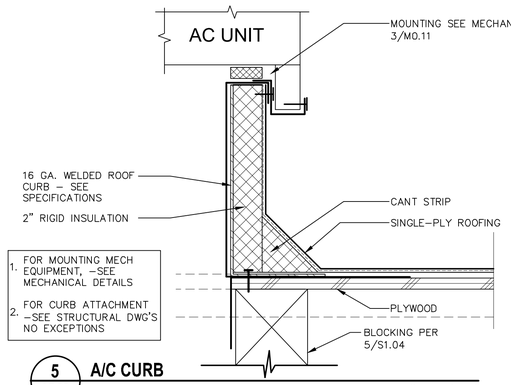
1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4



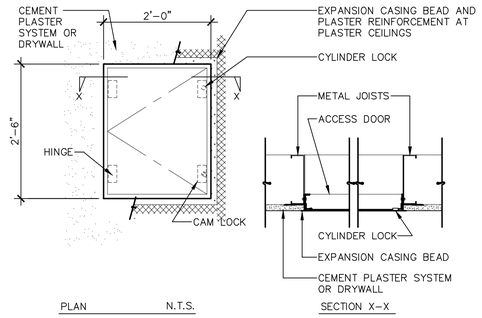
15 / A7.02 ELECTRICAL ROOM SECTION
ADW131-24 SCALE: 1/2" = 1'-0"



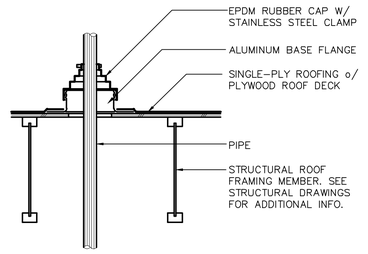
10 / A7.02 PROJECTOR MOUNTING
ADM200-02 SCALE: 1 1/2" = 1'-0"



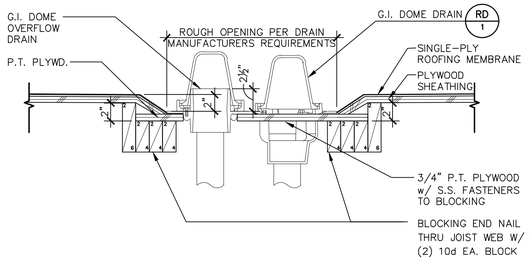
5 / A7.02 A/C CURB
ADR200-20 SCALE: 3" = 1'-0"



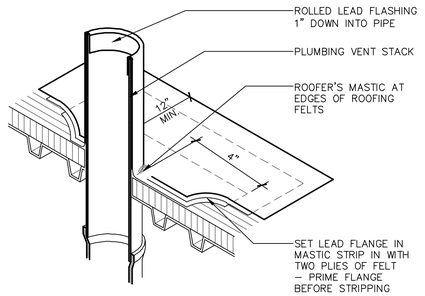
1 / A7.02 FLUSH METAL ACCESS DOOR AT CEILING
ADC030-01 SCALE: 3/4" = 1'-0"



6 / A7.02 DET. AT PIPE PENETRATION
ADR100-02_ADD1 SCALE: 1" = 1'-0"

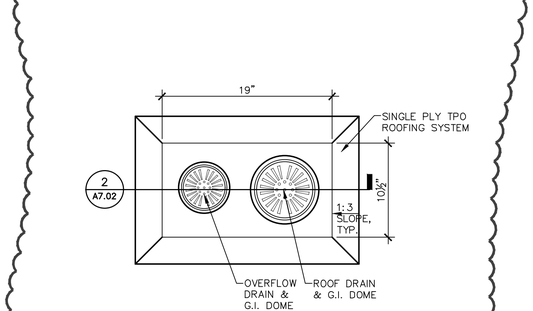


2 / A7.02 ROOF DRAIN
ADR100-04_ADD1 SCALE: 1 1/2" = 1'-0"

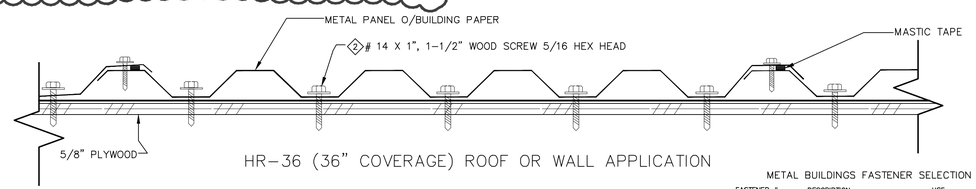


NOTE:
1. SHEET LEAD MINIMUM OF 2 1/2-LB PER SQUARE FOOT

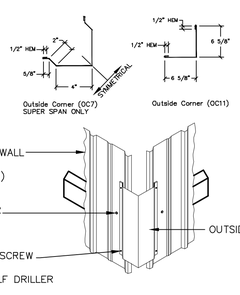
7 / A7.02 PLUMBING VENT FLASHING
ADR100-05 SCALE: 3" = 1'-0"



3 / A7.02 ROOF DRAIN
ADR100-05_ADD 1 SCALE: 1 1/2" = 1'-0"



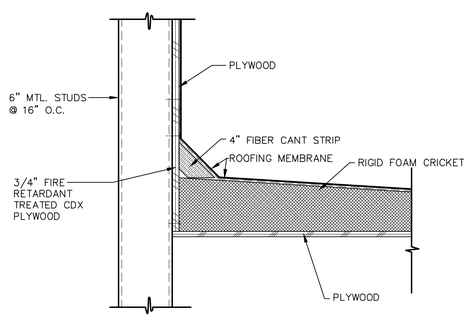
16 / A7.02 METAL FASCIA PANELS
ADW133-01 SCALE: 3" = 1'-0"



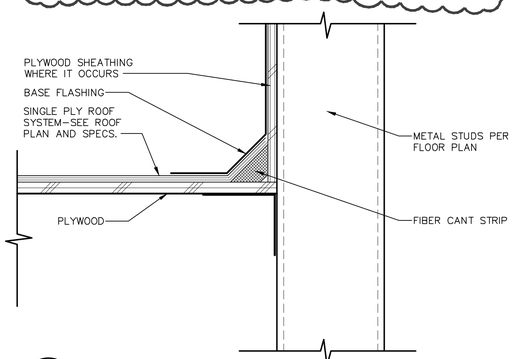
11 / A7.02 METAL FASCIA PANEL OUTSIDE CORNER
ADW133-02 SCALE: 3" = 1'-0"

METAL BUILDINGS FASTENER SELECTION

FASTENER #	DESCRIPTION	USE
1	#9x1", 1 1/2",2",2 1/2",3" WOOD SCREW 1/4" HEX HEAD	PANEL TO DIMENSIONAL LUMBER.
2	#14x1", 1 1/2", WOOD SCREW 5/16" HEX HEAD	PANEL TO PLYWOOD MIN. 1/2" THICK, STRUCTURAL GRADE
3	#12x3/4" STITCH SCREW 1/4" HEX HEAD (COMPATIBLE WITH #10 WOOD SCREW)	TRIM AND SIDE LAP ATTACHMENTS
4	#14x7/8" LAP SELF DRILLER 5/16" HEX HEAD (COMPATIBLE WITH #14 WOOD SCREW)	TRIM AND SIDE LAP ATTACHMENTS
5	STST-42 STAINLESS STEEL RIVET 1/8 x 1/8	TRIM TO TRIM OR TRIM TO PANEL ATTACHMENTS
6	#12x1", 1 1/2", 2", 2 1/2" SELF DRILLER 5/16" HEX HEAD	PANEL TO PURLIN OR DECK ATTACHMENTS



8 / A7.02 CANT AND CRICKET
ADR133-02 SCALE: 1 1/2" = 1'-0"



4 / A7.02 ROOF TO WALL FLASHING
ADR120-02 SCALE: 3" = 1'-0"

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Job No.: **5528**

Sheet No.: **A7.02**

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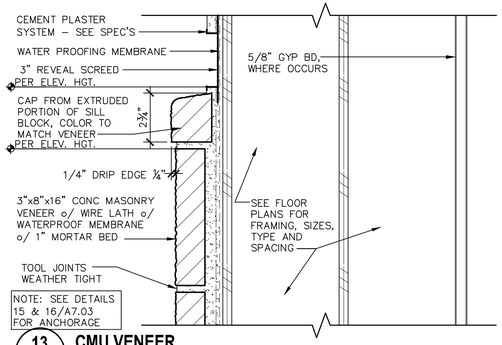
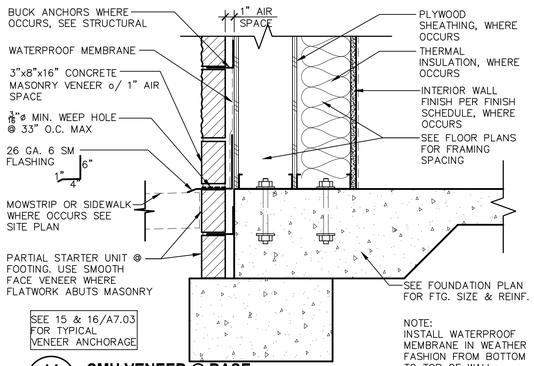
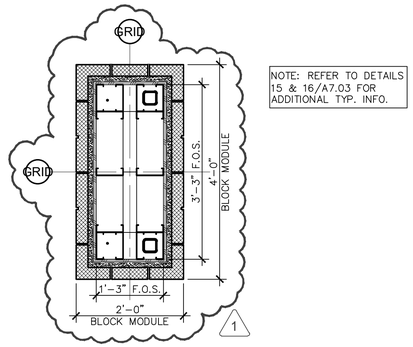


13 / A7.03 CMU VENEER ADW142–03 SCALE: 3" = 1'–0"

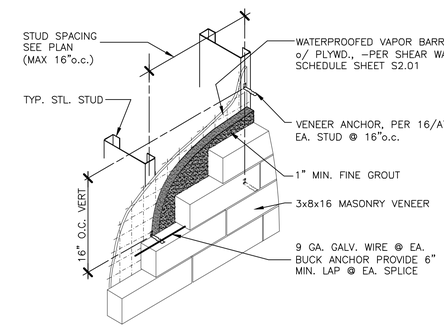


14 / A7.03 CMU VENEER @ BASE ADW142–02 SCALE: 1 1/2" = 1'–0"

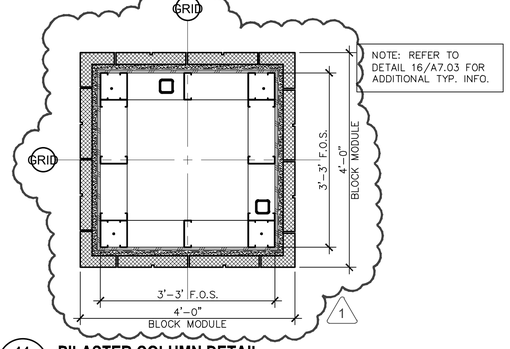


NOTE: REFER TO DETAILS 15 & 16/A7.03 FOR ADDITIONAL TYP. INFO.

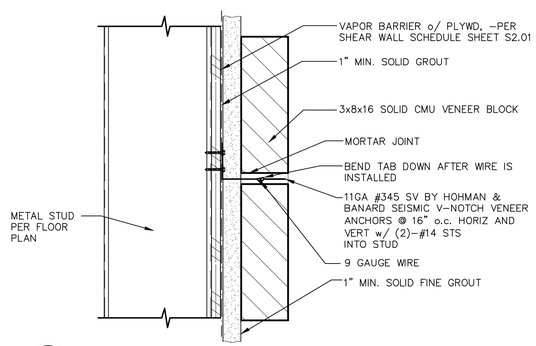
10 / A7.03 COLUMN DETAIL ADW132–05 SCALE: 3/4" = 1'–0"



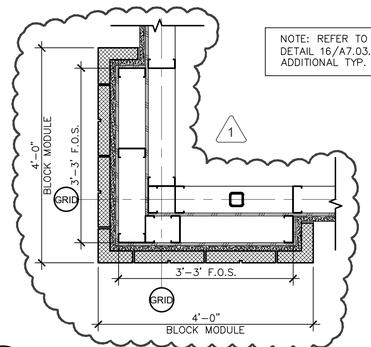
15 / A7.03 VENEER ANCHORAGE @ STEEL STUD ADW132–03



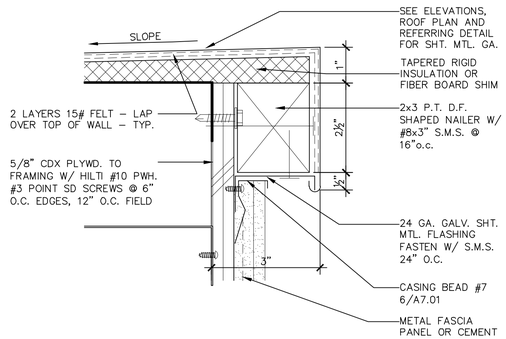
11 / A7.03 PILASTER COLUMN DETAIL ADW132–04 SCALE: 3/4" = 1'–0"



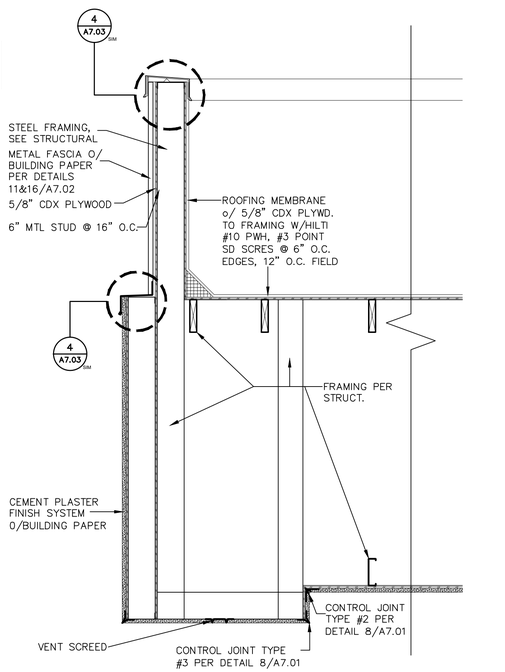
16 / A7.03 VENEER ANCHOR ADW132–02 SCALE: 3" = 1'–0"



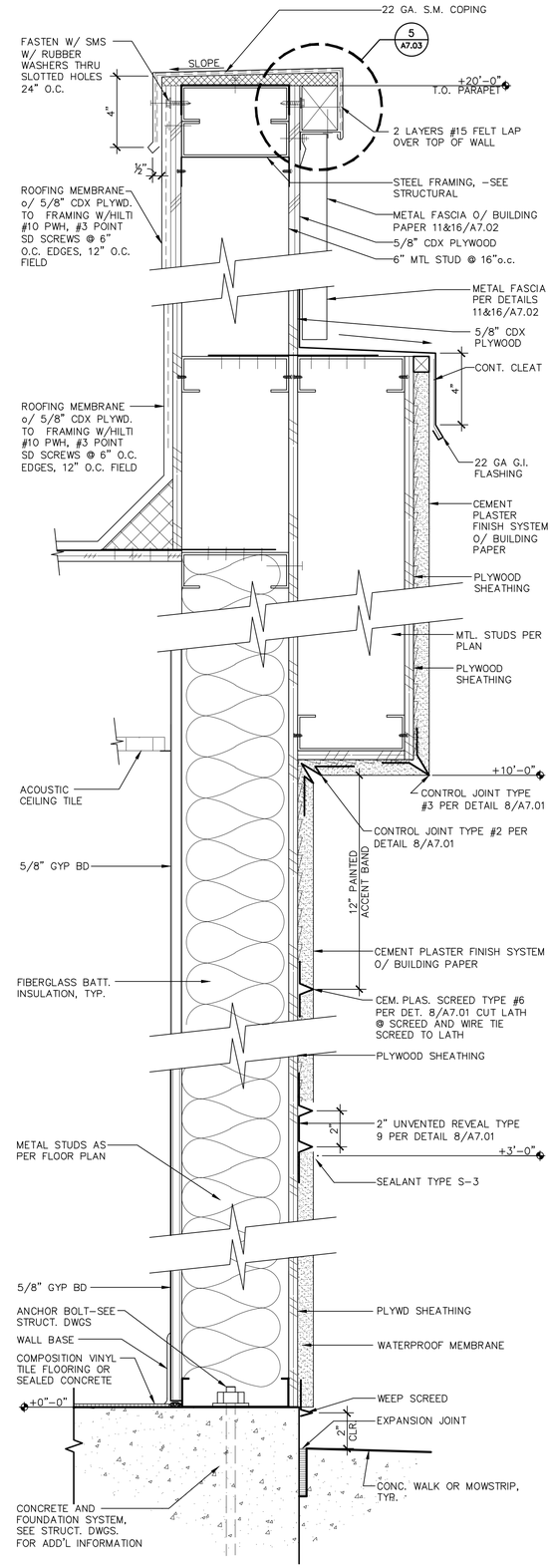
12 / A7.03 PILASTER COLUMN DETAIL ADW132–06 SCALE: 3/4" = 1'–0"



5 / A7.03 COPING CAP FLASHING ADW131–13 SCALE: N.T.S



4 / A7.03 PARAPET FRAMING ADR131–04 SCALE: 3/4" = 1'–0"



4 / A7.03 WALL SECTION ADW131–20 SCALE: 3" = 1'–0"

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-122604 INC: 0
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Sheet Title:
EXTERIOR DETAILS

Job No.: **5528**

Sheet No.: **A7.03**

Release: ADDENDUM 1 (1) 11/22/24

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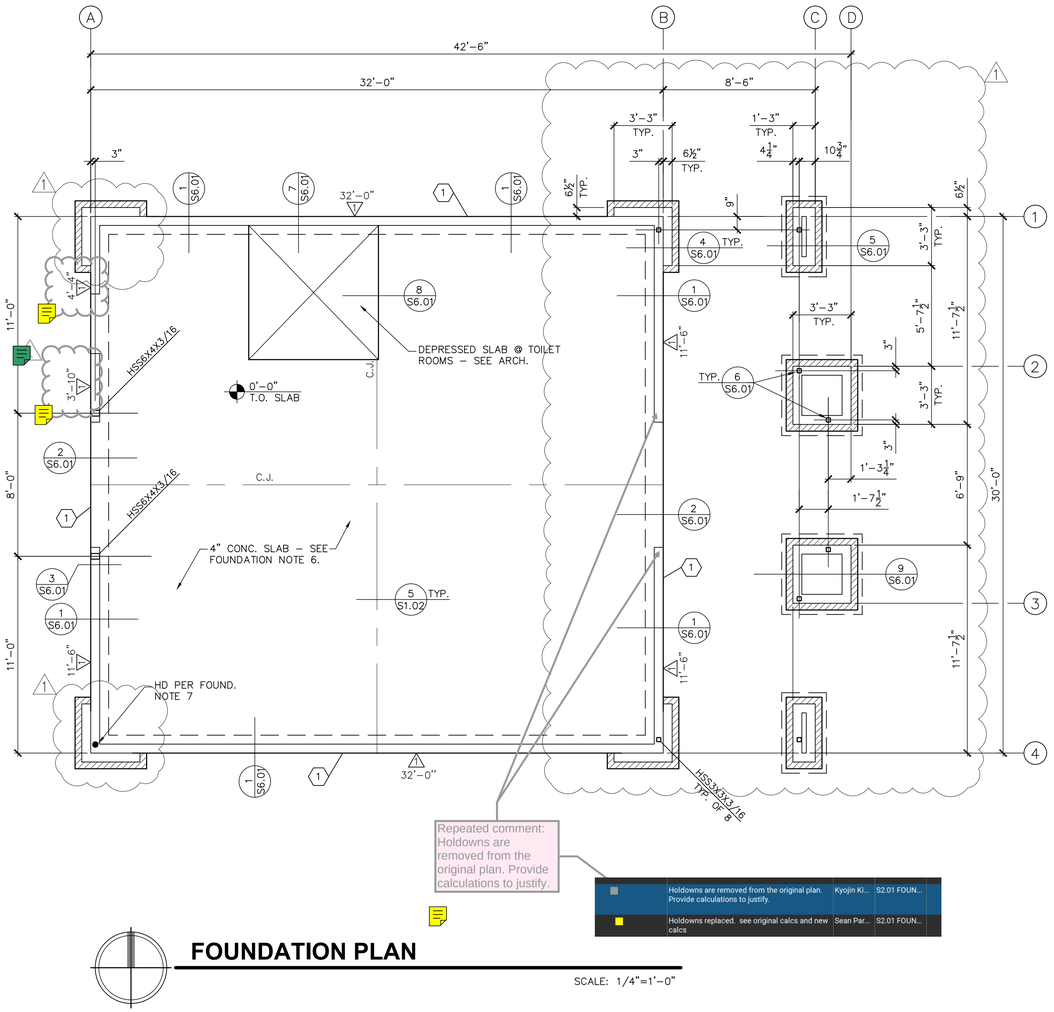

FOUNDATION PLAN

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

FOUNDATION NOTES

1. REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEET S1.01 THRU S1.05.
2. SEE DETAIL 5/S1.03 WHERE PIPES INTERSECT FOOTING.
3. ALL EMBEDDED ITEMS MUST BE TIED IN PLACE AND SECURE PRIOR TO FOUNDATION INSPECTION.
4. SEE 1/S1.02 FOR METHOD OF POURING CONCRETE SLABS ON GRADE.
5. PLYWOOD WALL SHEATHING IS TO BE APPLIED OVER THE ENTIRE WALL.
6. 4" (MIN.) THICK CONCRETE SLAB WITH #3 BARS AT 16"OC EACH WAY SET 1½" DOWN FROM TOP OF SLAB. MAINTAIN MINIMUM SLAB THICKNESS AT SLOPED SLABS.
7. ● DENOTES HOLDOWN TYPE "1" PER "HOLDOWN SCHEDULE", THIS SHEET.
8. SEE 10/S1.05 FOR TYPICAL STEEL STUD TO COLUMN CONNECTION.
9. ◁ DENOTES SHEAR WALL PER "SHEAR WALL SCHEDULE", THIS SHEET.
10. WALL STUDS SHALL BE 600S162-43 @ 16"OC U.N.O.

WALL SHEATHING SCHEDULE

TYPE	THICK-NESS	PANEL INDEX	GRADE	WIDTH FRAMING MEMBER	SCREW SIZE	SCREW SPACING TYPE	SCREW SPACING P.E.S	SCREW SPACING INT	ANCHOR SCREWS DIA-METER	ANCHOR SCREWS EMBED. DEPTH	ANCHOR SCREWS SPACING	REFERENCE	ASD CAPACITY (PLF) WIND / SEISMIC
1	15/32"	32/16	CDX STRUCT 1 PLYWD.	STEEL STUD	#10	SMS	6	12	1/4"	1¼"	PER DETAIL	SEE 2/S1.04	455 / 356

NOTES:
1. PROVIDE FRAMING MEMBERS AT MINIMUM WIDTH INDICATED WHERE PLYWOOD SHEETS ARE SPLICED.
2. P.E.S. - PLYWOOD EDGE SCREW SPACING
3. INT - INTERIOR PLYWOOD SCREWS TO SUPPORTS, NOT OTHERWISE SPECIFIED. SEE 2/S1.04 FOR OTHER INFORMATION.
4. SMS - SHEET METAL SCREW (1" MIN. LENGTH)
5. SCREWS USED TO ATTACH SHEATHING SHALL BE IN ACCORDANCE WITH ASTM C1513.

FOOTING SCHEDULE

MARK	PLAN DIM.	MIN. DEPTH	REINFORCEMENT
1	1'-0" WD.	1'-6"	2-#5 CONT. TOP & BOT.

HOLDOWN SCHEDULE

TYPE	SIMPSON HOLDOWN	MIN. POST	FASTENERS SCREWS TO POST[3]	ANCHOR BOLTS	DETAIL REFERENCE
1	S/HDU6	DBL. 600S162-68	12 - #14	5/8"ø	8/S1.03

NOTES:
1. INSTALL HOLDOWN IMMEDIATELY ADJACENT TO END OF WALL, AS SHOWN ON FOUNDATION PLAN, ATTACH TO POST.
2. INSTALL PER MANUFACTURERS REQUIREMENTS AND GUIDELINES.
3. PROVIDE PLYWOOD EDGE SCREWS TO POST AT HOLDOWN.

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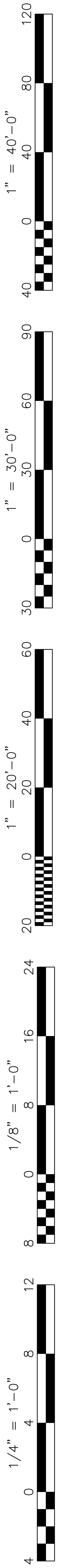
Sheet Title:

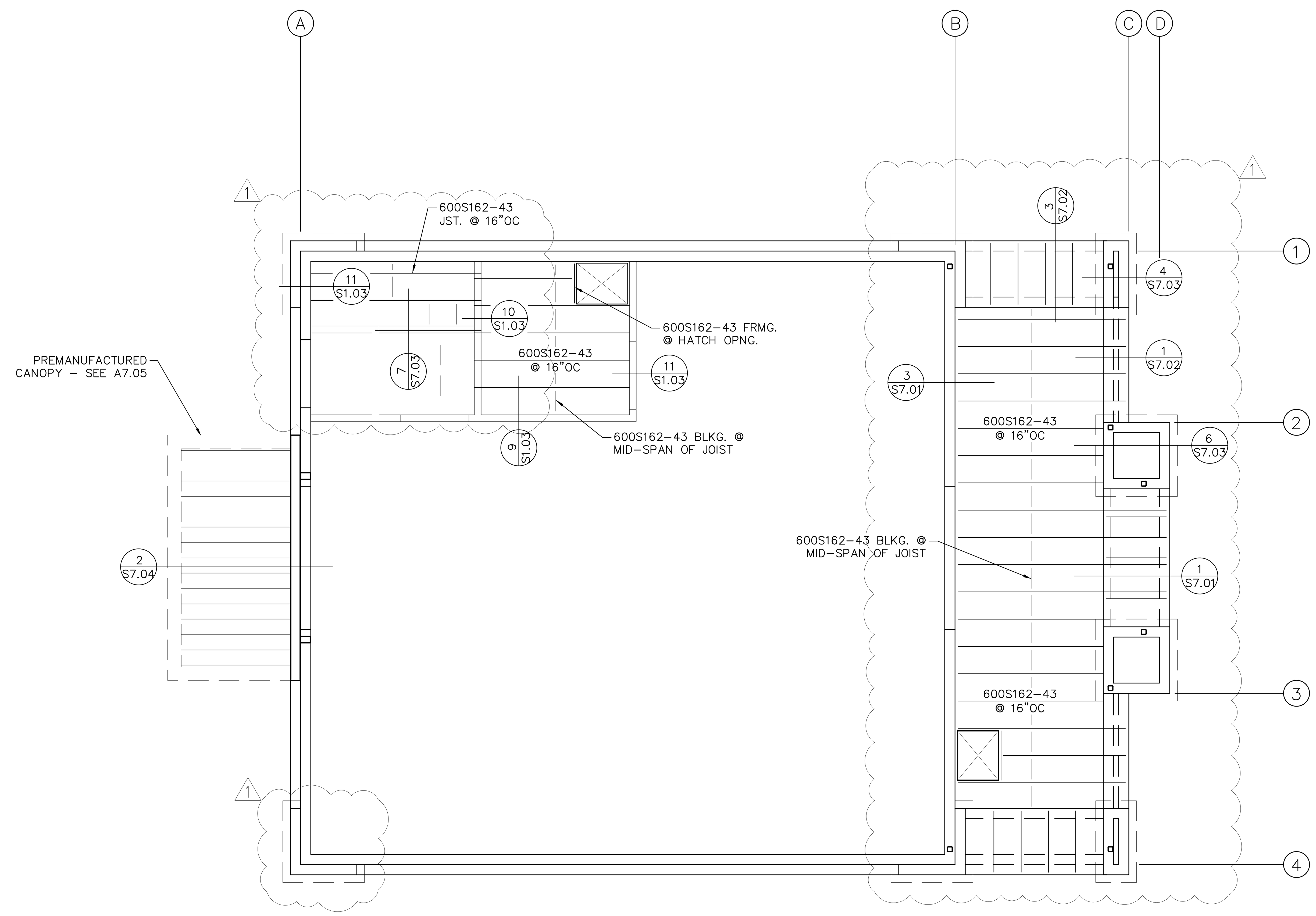
FOUNDATION PLAN

Job No.: **5528**

Sheet No.: **S2.01**

Release: **ADDENDUM 1** 1 **11/7/24**





CEILING FRAMING PLAN

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

CEILING FRAMING NOTES

1. REFER TO GENERAL NOTES ON SHEETS S1.01 THRU S1.05.
2. CONTRACTOR SHALL VERIFY FIRE SPRINKLER LINE LAYOUT AND PROVIDE FOR ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
3. CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL EQUIPMENT.

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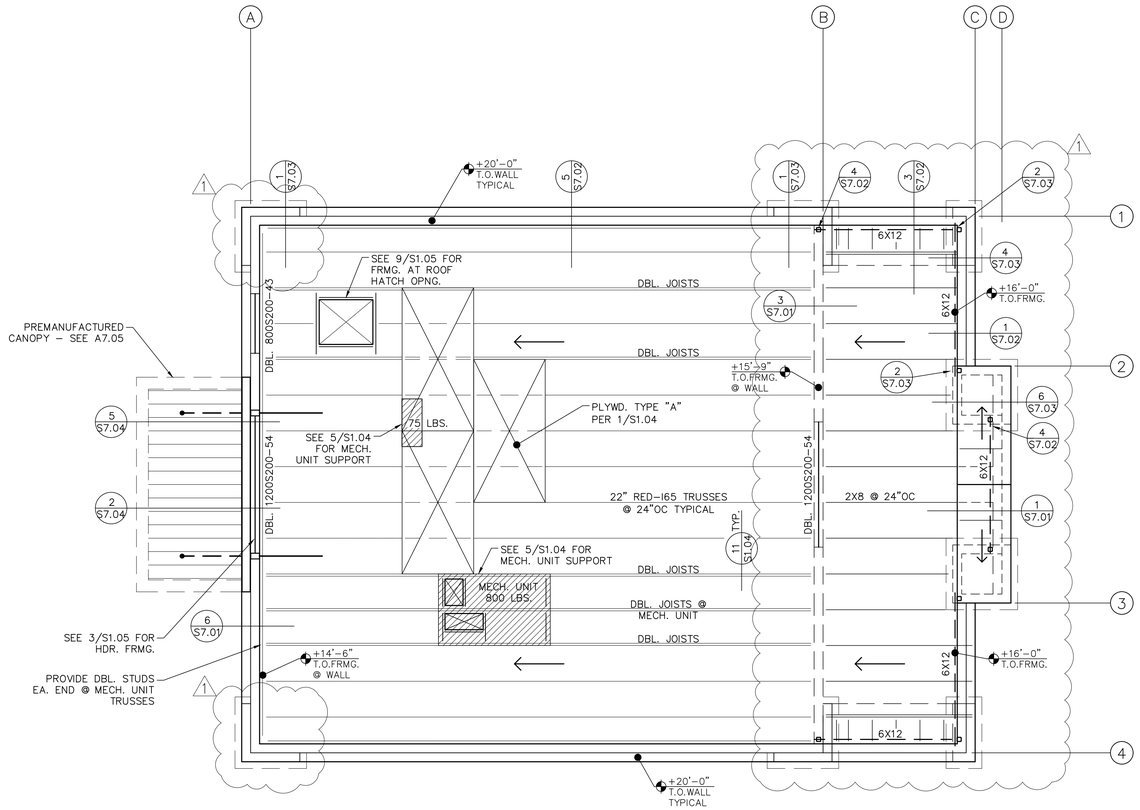
Sheet Title:

CEILING FRAMING PLAN

Job No.: **5528**

Sheet No.: **S3.01**

Release: ADDENDUM 1 △1 11/7/24



ROOF FRAMING PLAN

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

ROOF FRAMING NOTES

1. REFER TO GENERAL NOTES ON SHEETS S1.01 THRU S1.05.
2. ALL ROOF FRAMING SPACES AS SHOWN ON PLANS SHALL BE AS MEASURED ON OF SLOPE.
3. ALL ROOF SHEATHING SHALL BE TYPE "A" PER DETAIL 1/S1.04, U.N.O.
4. SEE DETAIL 9/S1.05 FOR TYPICAL FRAMING AT ROOF OPENINGS.
5. CONTRACTOR SHALL VERIFY FIRE SPRINKLER LINE LAYOUT AND PROVIDE FOR ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
6. CONTRACTOR SHALL VERIFY AND COORDINATE THE WEIGHTS & LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS AND PROVIDE ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
7. ⟶ REPRESENTS DIRECTION OF DOWNWARD SLOPE.
8. ALL POST TO BEAM CONNECTIONS SHALL HAVE SIMPSON PC OR EPC CONNECTORS, U.N.O..
9. USE SPLICE PER 6/S1.05 TYPICAL, U.N.O.
10. ALL WALLS SHALL BE 600S162-43 STUDS @ 16"OC, U.N.O.
11. PROVIDE COMPLETE TRUSS DRAWINGS AND CALCULATIONS. TRUSS DRAWINGS MUST BE APPROVED WITHIN 30 DAYS OF PERMIT ISSUANCE. NO INSPECTIONS WILL BE PERFORMED IF TRUSS DRAWINGS ARE NOT APPROVED AFTER 30 DAYS. TRUSS DRAWINGS MUST INCLUDE THE HANGERS FOR TRUSSES.
12. APPROVED TRUSS DRAWINGS MUST BE ON JOB SITE FOR INSPECTION PURPOSES.

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STATE OF CALIFORNIA

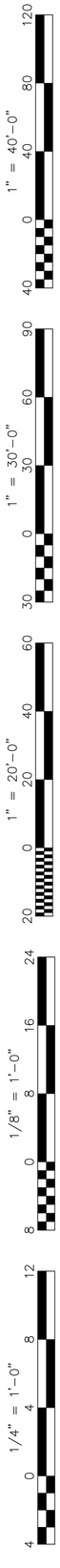
Sheet Title:

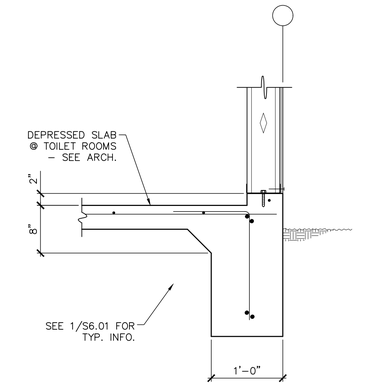
ROOF FRAMING PLAN

Job No.: **5528**

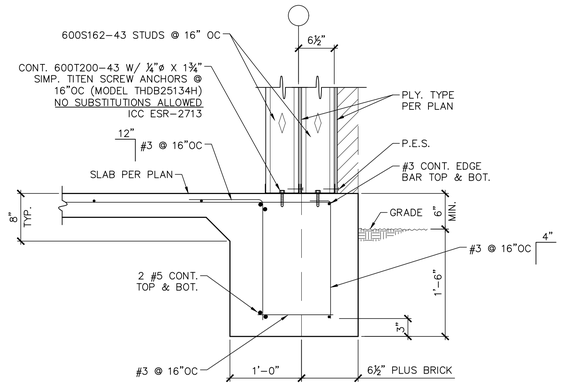
Sheet No.: **S4.01**

Release: **ADDENDUM 1** 1 **11/7/24**





DETAIL
SCALE: 1"=1'–0"
7 / S6.01



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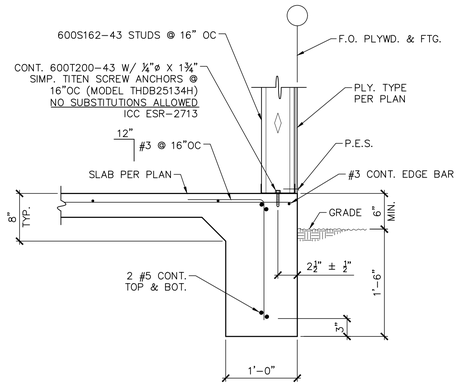
4 / S6.01



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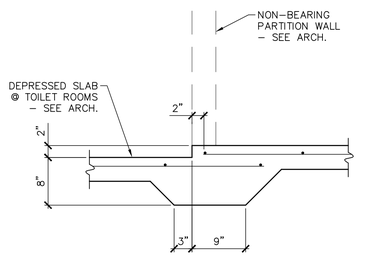
1 / S6.01



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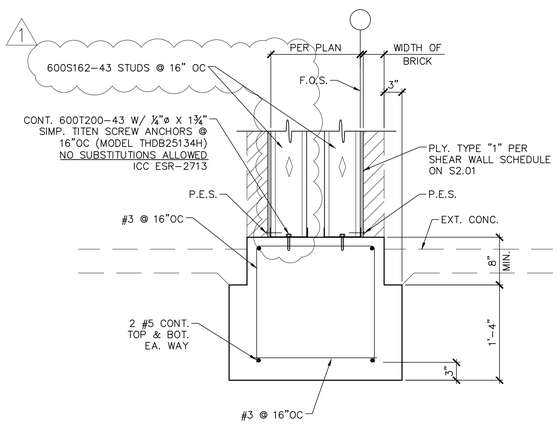
8 / S6.01



DETAIL
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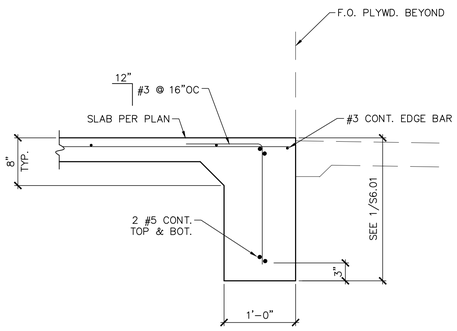
5 / S6.01



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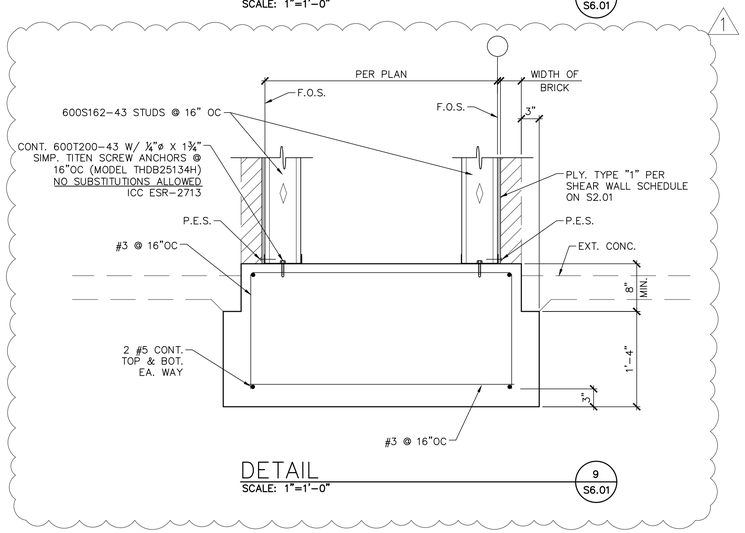
2 / S6.01



DETAIL
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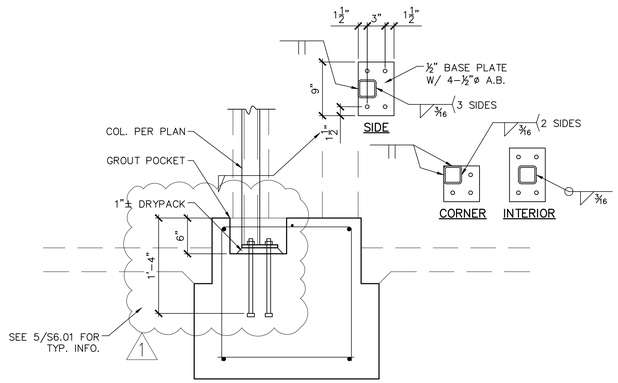
9 / S6.01



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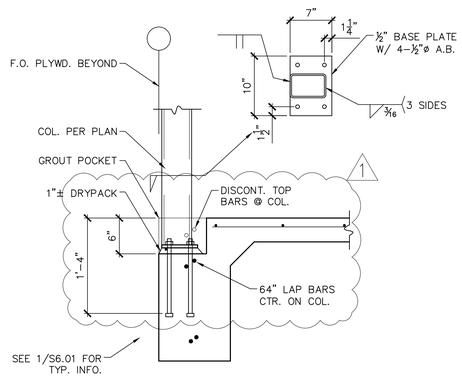
6 / S6.01



DETAIL
SCALE: 1"=1'–0"
3 / S6.01

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DATE: 02/25/2025

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Sheet Title:

FOUNDATION DETAILS

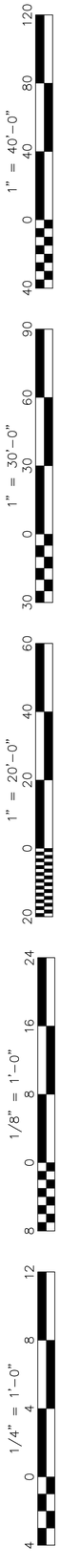
Job No.:

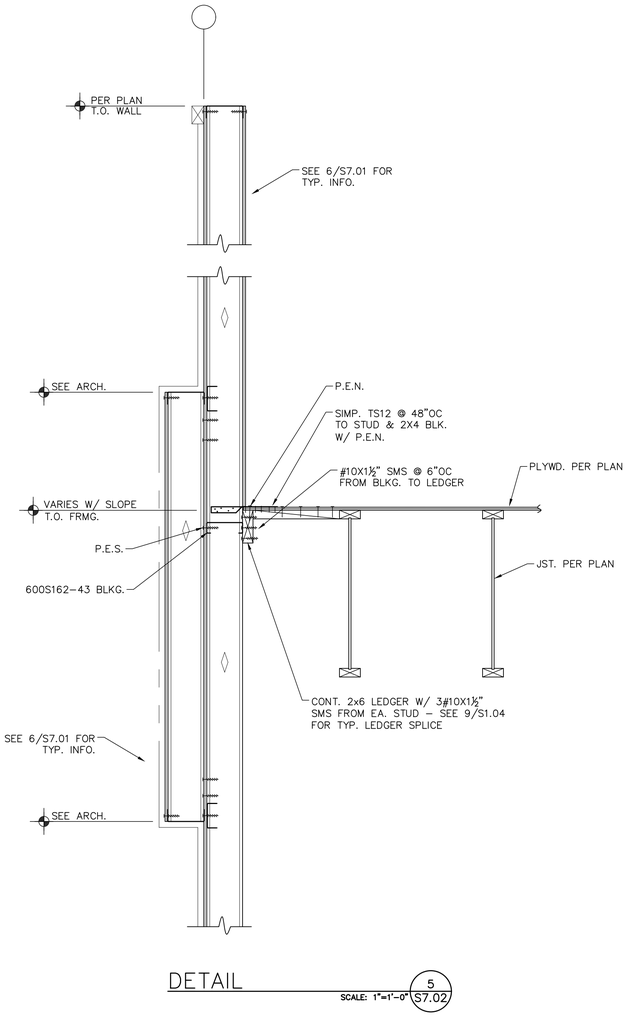
5528

Sheet No.:

S6.01

Release: **ADDENDUM 1** 1 **11/7/24**





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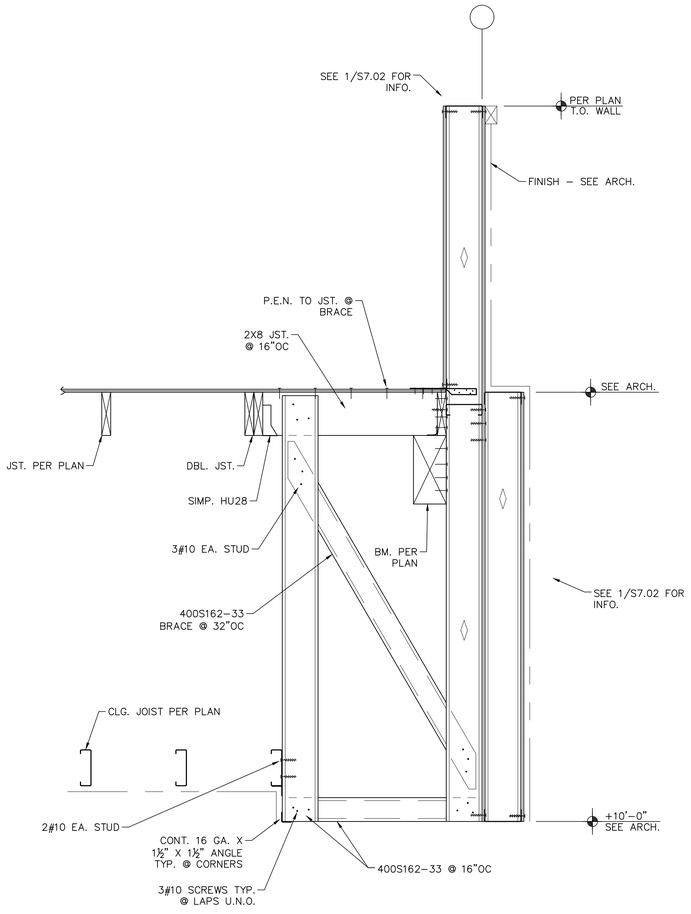

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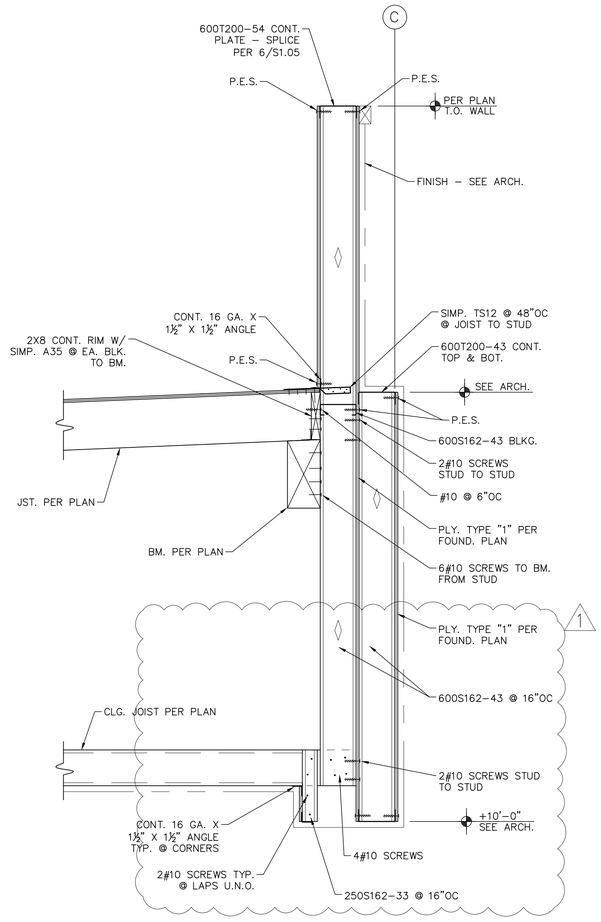

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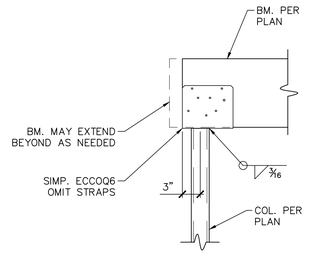

DETAIL 4 S7.02
SCALE: 1"=1'-0"

DETAIL DELETED 1

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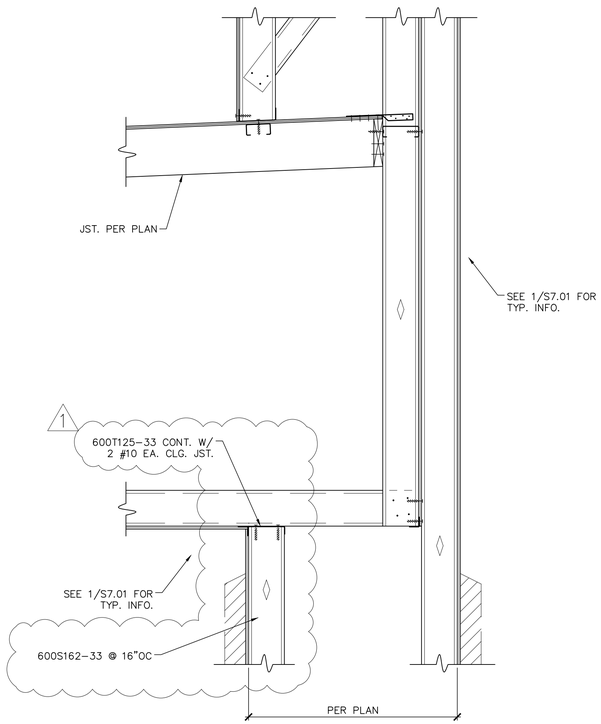
Sheet Title:

FRAMING DETAILS

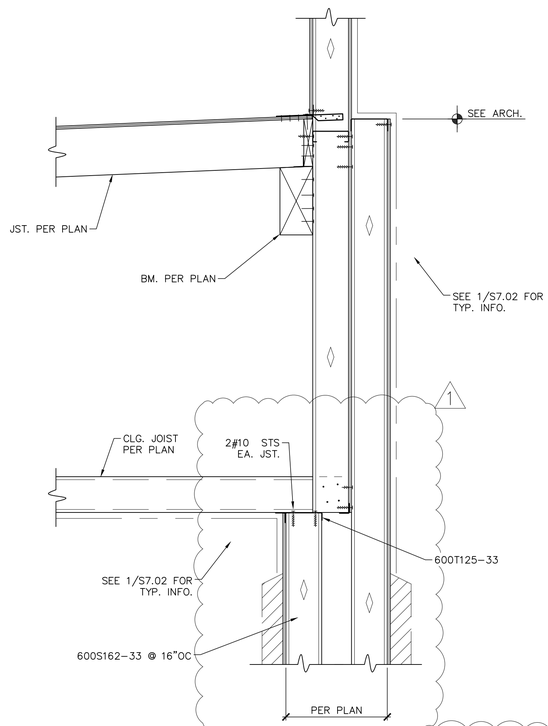
Job No.: **5528**

Sheet No.: **S7.02**

Release: **ADDENDUM 1** 1 **11/7/24**



DETAIL 6 — SCALE: 1"=1'-0" — S7.03



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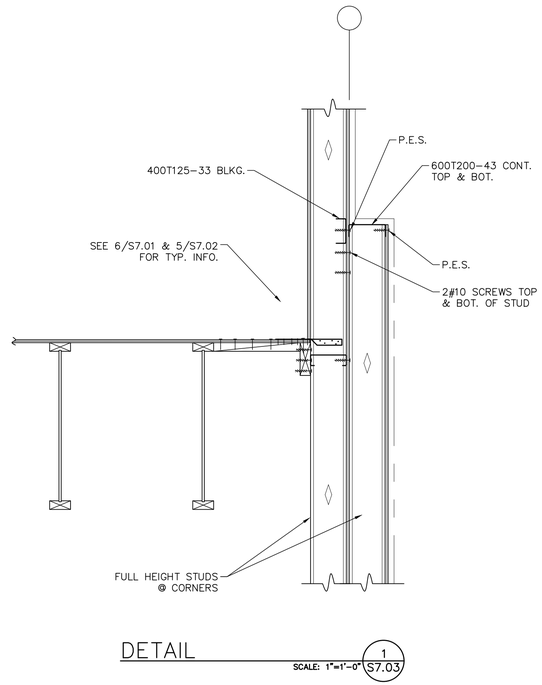
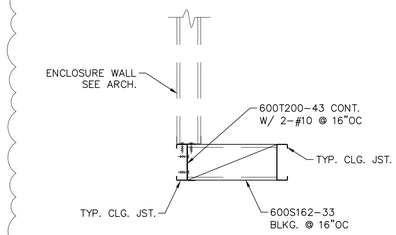


DETAIL 1 — SCALE: 1"=1'-0" — S7.03



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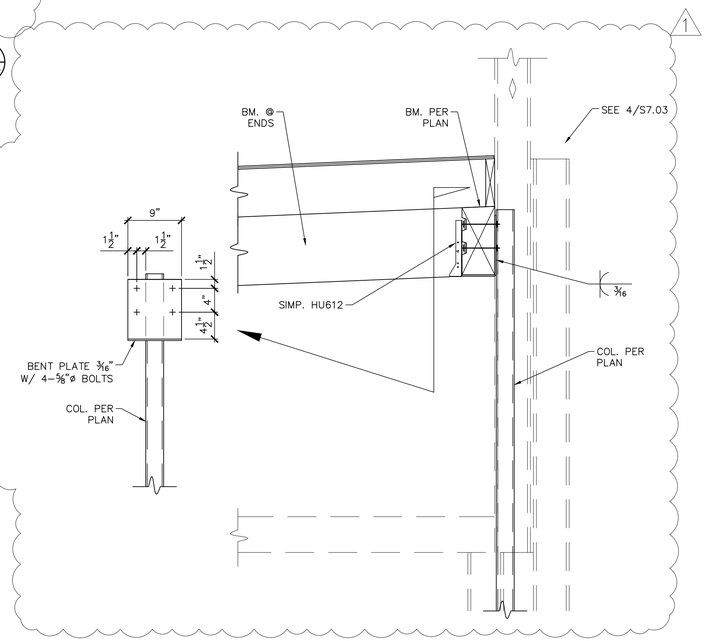

DETAIL 2 — SCALE: 1"=1'-0" — S7.03

1" = 40'-0" (120, 80, 40, 0, 40)

1" = 30'-0" (90, 60, 30, 0, 30)

1" = 20'-0" (60, 40, 20, 0, 20)

1/8" = 1'-0" (24, 16, 8, 0, 8)

1/4" = 1'-0" (12, 8, 4, 0, 4)

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Sheet Title:

FRAMING DETAILS

Job No.: **5528**

Sheet No.: **S7.03**

Release: **ADDENDUM 1** (1) **11/7/24**

1" = 40'-0" 120 80 40 0 40

1" = 30'-0" 90 60 30 0 30

1" = 20'-0" 60 40 20 0 20

1/8" = 1'-0" 24 16 8 0 8

1/4" = 1'-0" 12 8 4 0 4

GRILLE SCHEDULE

MARK	LOCATION	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
B	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.

NOTE: ALL INTERIOR COMPONENTS, EVERYTHING BEHIND THE FACE PLATE, SHALL BE PAINTED FLAT BLACK.

PLUMBING FIXTURE & EQUIPMENT SCHEDULE

MARK	FIXTURE	CONNECTIONS CW	HW	W	V	DESCRIPTION
WC 1	WATER CLOSET ADA	1"	-	4"	2"	KOHLER K-96057-SS "HIGHCLIFF ULTRA" WITH ANTIMICROBIAL FINISH, ELONGATED BOWL, FLOOR MOUNT, 1.1 TO 1.6 GPF. SLOAN "ROYAL" 111-1.28 FLUSH VALVE WITH HANDLE POINTED TOWARDS WIDE SIDE OF STALL. BEMIS 1655SSCT EXTRA HEAVY DUTY OPEN FRONT SEAT.
L 1	LAVATORY ADA	1/2"	-	2"	1-1/2"	KOHLER K-2005 "KINGSTON", 21"x18" WALL HUNG VITREOUS CHINA WITH 4" CENTERS. MCGUIRE 155A GRID DRAIN AND TAILPIECE. CHICAGO 420-E280SABCP 0.5 GPM, SINGLE LEVER FAUCET WITH VANDAL PROOF NON-AERATING OUTLET. PROVIDE J.R. SMITH 723 CONCEALED ARMS AND STEEL SUPPORT PLATE PER 11/M0.11 FOR FIXTURE MOUNTING. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT. CONNECT COLD WATER TO BOTH INLETS.
S 1	SINK ADA	1/2"	-	2"	1-1/2"	JUST SLF-ADA-2225-A-GR SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 16"x22"x6-1/2" DEEP BOWL SIZE, J-35-SSF SINK STRAINER. CHICAGO 350-E35ABCP 1.5 GPM GOOSENECK FAUCET WITH VANDAL PROOF LEVER HANDLE. PROVIDE EXTRA HOLE FOR GLASS FILLER FAUCET.
ST 1	SINK TRIM	1/2"	-	-	-	CHICAGO 712-ABCP GLASS FILLER FAUCET WITH DECK FLANGE, SET ADJUSTABLE FLOW CONTROL TO 1.0 GPM, COATED METAL PUSH-BACK HANDLE WITH LOCKING CLIP.
HB 1	HOSE BIBB	3/4"	-	-	-	J.R. SMITH 5573 RECESSED WALL FAUCET IN CONCEALED STAINLESS STEEL BOX WITH LOCKING DOOR, VACUUM BREAKER, REMOVABLE HANDWHEEL, AND TEE KEY.
HB 2	HOSE BIBB	3/4"	-	-	-	WOODFORD MODEL Y24-BR ROUGH BRASS STANDPIPE FAUCET, 34HF ANTI-SIPHON VACUUM BREAKER, METAL HANDWHEEL, AND LOOSE TEE KEY.
WHA 1	WATER HAMMER ARRESTER	1/2"	-	-	-	SIOUX CHIEF HYDRA-RESTER 652-AS, SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
FD 1	FLOOR DRAIN	1/2"	-	2"	1-1/2"	J.R. SMITH 2005(B)-P050-BHP 5" SQUARE NICKEL BRONZE STRAINER HEAD, DUCO CAST IRON BODY WITH FLASHING COLLAR, TRAP PRIMER CONNECTION, HEEL PROOF GRATE.
TP 1	TRAP PRIMER	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS P1-500 VALVE. PROVIDE DU-U DISTRIBUTION UNIT WHEN MORE THAN ONE DRAIN IS SERVED, UP TO 4 DRAINS PER DISTRIBUTION UNIT. PLUG UNUSED OUTLETS AS REQUIRED. PROVIDE WALL ACCESS DOOR. REFER TO PLANS FOR NUMBER OF DRAINS SERVED.
RD 1	COMBINATION ROOF & OVERFLOW DRAIN	-	-	-	-	J.R. SMITH SERIES 148 COMBINATION ROOF AND OVERFLOW DRAIN, CAST IRON, FLASHING CLAMPS, GRAVEL STOPS, AND ENAMEL PAINT FOR OUTDOOR PROTECTION. PROVIDE 148-10 OVERFLOW DOME. SEE PLANS FOR OUTLET SIZE.

INDOOR UNIT SCHEDULE

MARK	IDU 1
CFM (LOW / MED / HIGH)	176 / 335 / 382
ESP (IN WC)	
MINIMUM OSA (CFM)	0
HP / BHP / WATTS	
VOLTAGE/PHASE	(1)
MCA / MOCP	0.3125 /
RPM	
DRIVE	DIRECT
MOUNTING	WALL (4)
COOLING:	
TOTAL (MBH)	12
SENSIBLE (MBH)	
EADB / EAWB (°F)	80 / 67
AMBIENT DB (°F)	95
REFRIGERANT	R410A
LIQUID LINE SIZE	1/4"
SUCTION LINE SIZE	1/2"
CONDENSATE CONN	5/8"
SEER / EER AT AHRI	25.5 / 14
HEATING:	
CAPACITY (MBH)	12
EADB (°F)	70
AMBIENT DB (°F)	47
HSPF / COP	13 / 3.81
FILTERS:	
QUANTITY / SIZE	
TYPE	WASHABLE
PD, CLEAN (IN WC)	
MANUFACTURER	CARRIER
TYPE	HEAT PUMP
MODEL NUMBER	40MAHBQ12 - OFCI 1
CONTROL	T'STAT (3)
SERVICE	SERVER ROOM
OP WEIGHT (LBS)	25
ACCESSORIES	(2)

NOTES:
(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT
(2) CONDENSATE PUMP WITH SEPARATE 120V POWER - OFCI 1
(3) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT - OFCI 1
(4) FOR MOUNTING, SEE 6/M0.11

OUTDOOR UNIT SCHED

MARK	ODU 1
MCA / MOCP	15 / 15
FUSE SIZE	15
VOLTAGE/PHASE	208-230/1
MOUNTING	ROOF (5)
COOLING:	
TOTAL (MBH)	12
AMBIENT DB (°F)	95
SEER / EER AT AHRI	25.5 / 14
HEATING:	
CAPACITY (MBH)	12
AMBIENT DB (°F)	47
HSPF / COP	13 / 3.81
REFRIGERANT	R410A
LIQUID LINE SIZE	1/4"
SUCTION LINE SIZE	1/2"
MANUFACTURER	CARRIER
TYPE	HEAT PUMP 1
MODEL NUMBER	38MARBQ12 - OFCI 1
SERVICE	IDU-1
OP WEIGHT (LBS)	75
ACCESSORIES	(1),(2),(3),(4)

NOTES:
(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT
(2) CRANKCASE HEATER - FACTORY INSTALLED 1
(3) LOW AMBIENT COOLING OPERATION TO 40°F
(4) DISCONNECT BY DIV 26 ELECTRICAL
(5) FOR MOUNTING, SEE DETAIL 5/M0.11

PACKAGE AIR COND UNIT SCHED

MARK	AC 1
VOLTS/PHASE	460/3
MCA / MOCP	23 / 25
FLA / LRA	21 / 53
FUSE SIZE	25
BLOWER:	
CFM	1600
DUCT SP (IN WC)	0.8
MINIMUM OSA (CFM)	150
HP / BHP	1 / 0.79
DRIVE	DIRECT
COOLING:	2 STAGES
TOTAL (MBH)	44.5
SENSIBLE (MBH)	35
EADB / EAWB (°F)	80 / 67
AMBIENT DB (°F)	105
REFRIGERANT	R410A
CONDENSATE CONN	3/4"
SEER / EER AT AHRI	16.2 / 12.2
HEATING:	
CAPACITY (MBH)	45.6
EADB (°F)	70
AMBIENT DB (°F)	47
STRIP HEATER (KW)	5.5
HSPF / COP	8.3 / 3.7
FILTERS:	
RA: QUANTITY / SIZE	4 / 16x16x2
TYPE	MERV 13
PD, CLEAN (IN WC)	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1
TYPE	WASHABLE
MANUFACTURER	CARRIER
TYPE	HEAT PUMP
MODEL NUMBER	50GCQM05 - OFCI 1
CONTROL	T'STAT (6)
SERVICE	CLASSROOM E
OP WEIGHT (LBS)	800
ACCESSORIES	(1),(2),(3),(4),(5),(7)

NOTES:
(1) INSULATED ROOF CURB TO MATCH ROOF SLOPE; SEE DETAIL 3/M0.11 - OFCI 1
(2) HEAVY DUTY CONDENSER COIL GUARD - FACTORY INSTALLED 1
(3) HINGED ACCESS PANELS - FACTORY INSTALLED 1
(4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, BAROMETRIC RELIEF, AND DEMAND CONTROL VENTILATION - OFCI 1
(5) DISCONNECT BY DIV 26 ELECTRICAL
(6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT
(7) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT - FACTORY INSTALLED 1

EXHAUST FAN SCHED

MARK	EF 1
CFM	95
ESP (IN WC)	0.25
HP / BHP / WATTS	- / - / 19.4
VOLTAGE/PHASE	115/1
RPM	950
TIP SPEED	
SONES	0.5
DRIVE	DIRECT
MOUNTING	CEILING (6)
MANUFACTURER	GREENHECK
TYPE	
MODEL NUMBER	SP-A110 - OFCI 1
CONTROL	(1)
SERVICE	SEE PLANS
OP WEIGHT (LBS)	17
ACCESSORIES	(2),(3),(4),(5)

NOTES:
(1) INTERLOCK WITH LIGHTS
(2) SOLID STATE FAN SPEED CONTROLLER - OFCI 1
(3) BACKDRAFT DAMPER - FACTORY INSTALLED 1
(4) ROOF CAP WITH BIRDSCREEN - OFCI 1
(5) DISCONNECT BY DIV 26 ELECTRICAL
(6) FOR MOUNTING, SEE DETAIL 4/M0.11

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☒ MD☒ PP☒ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #) #OPM-0043-13 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.

GENERAL PLUMBING AND HVAC NOTES

A. THE PLANS AND SPECIFICATIONS DESCRIBE THE PLUMBING WORK AND HVAC WORK OF THIS PROJECT. ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.

B. ALL LOCATIONS OF EXISTING UTILITIES, DUCTWORK, AND EQUIPMENT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTING UTILITIES AND DUCTWORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.

C. PLUMBING AND HVAC LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.

D. PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719 AND 1101.13.

E. PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AIR INTAKE OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES.

F. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.

G. THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL CONFORM TO CBC CHAPTER 16A.

H. PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 502, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

I. DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.

J. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	ABBR	SYMBOL	ABBR	DESCRIPTION
AC 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	AC-1		S. W. D.	SOIL, WASTE OR DRAIN
				V	VENT
A 10x10-3 120	GRILLE DESIGNATION NECK SIZE & BLOW CFM			CW	DOMESTIC COLD WATER
				HW	DOMESTIC HOT WATER
	SUPPLY AIR	SA		HWR	DOMESTIC HOT WATER RETURN
	RETURN AIR	RA	GAS		GAS MAIN BY GAS UTILITY COMPANY
	EXHAUST AIR	EXH	G	G	LOW PRESSURE NATURAL GAS
	ACOUSTIC LINED DUCT	(L)	RWL	RWL	RAIN WATER LEADER
	DUCT RISER		OL	OL	OVERFLOW LEADER
	DUCT DROP		CD	CD	CONDENSATE DRAIN
	SQUARE TO ROUND FITTING		D	D	DRAIN
	FIRE/SMOKE DAMPER	FSD	IW	IW	INDIRECT WASTE
SD	DUCT SMOKE DETECTOR	SD		FCO	FLOOR CLEANOUT
	VOLUME CONTROL DAMPER	VCD		COTG	CLEANOUT TO GRADE
T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT		WCO	WALL CLEANOUT
S	SWITCH			VTR	VENT THROUGH ROOF
202	CARBON DIOXIDE SENSOR AT 48" MAXIMUM TO TOP OF BOX	CO2		GV OR SOV	GATE OR SHUT - OFF VALVE
RL	REFRIGERANT LIQUID	RL		BV	BALL VALVE
RS	REFRIGERANT SUCTION	RS		CV	CHECK VALVE
	ABOVE FINISH FLOOR	AFF		STR	STRAINER
	CAP				UNION
	EXISTING	(E)			ELBOW UP
	(E) TO BE REMOVED	DEMO			ELBOW DOWN
	NEW	(N)		RED	REDUCER
	OUTSIDE AIR	OSA		HB	HOSE BIBB
	POINT OF CONNECTION	POC		PP	PETES PLUG
	TYPICAL	TYP		PRV	PRESSURE RELIEF VALVE

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BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST
BAKERSFIELD, CA 93305

Project Name:

PARENT CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
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REGISTERED PROFESSIONAL ENGINEER — LISA LUM — 33710 — EXP. 6-30-26 — MECHANICAL — STATE OF CALIFORNIA

Sheet Title:

GENERAL NOTES - LEGEND

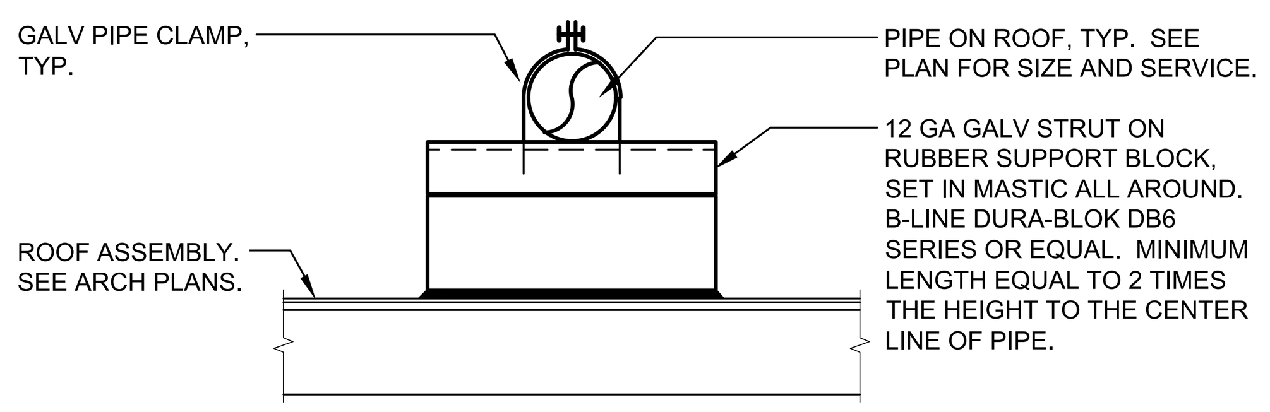
Job No.: **5528**

Sheet No.: **M0.01**

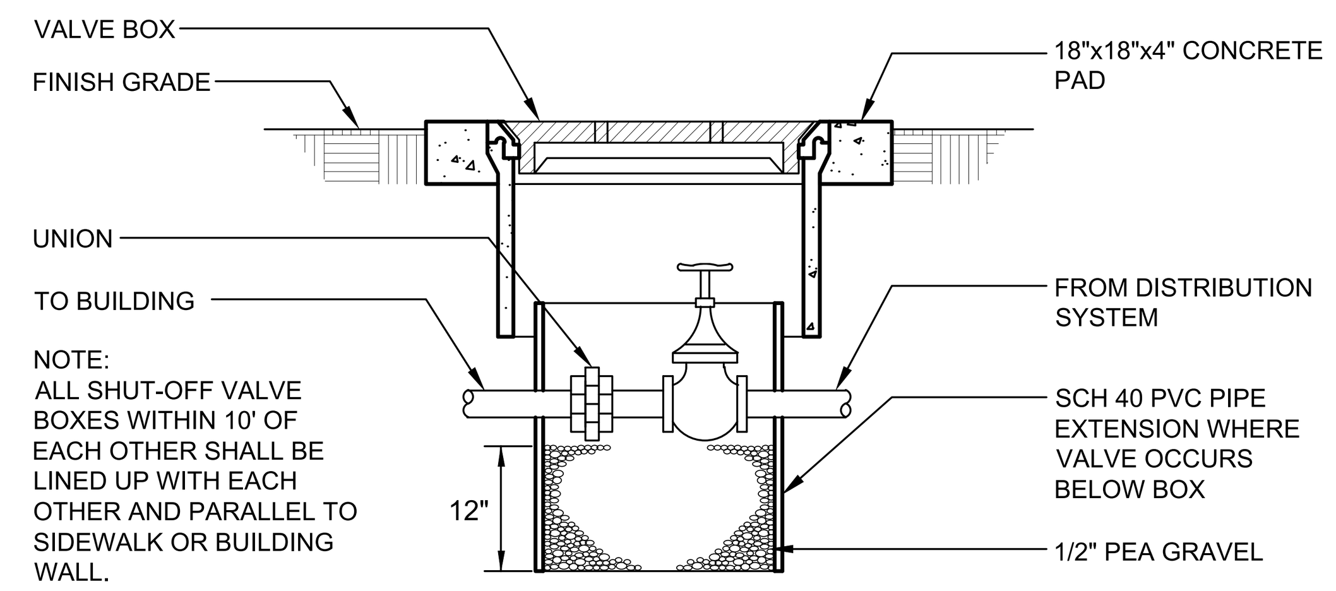
Release: ADDENDUM 1 (1) 11/22/24

1" = 40'-0" (0, 40, 80, 120)
1" = 30'-0" (0, 30, 60, 90)
1" = 20'-0" (0, 20, 40, 60)
1/8" = 1'-0" (0, 8, 16, 24)
1/4" = 1'-0" (0, 4, 8, 12)

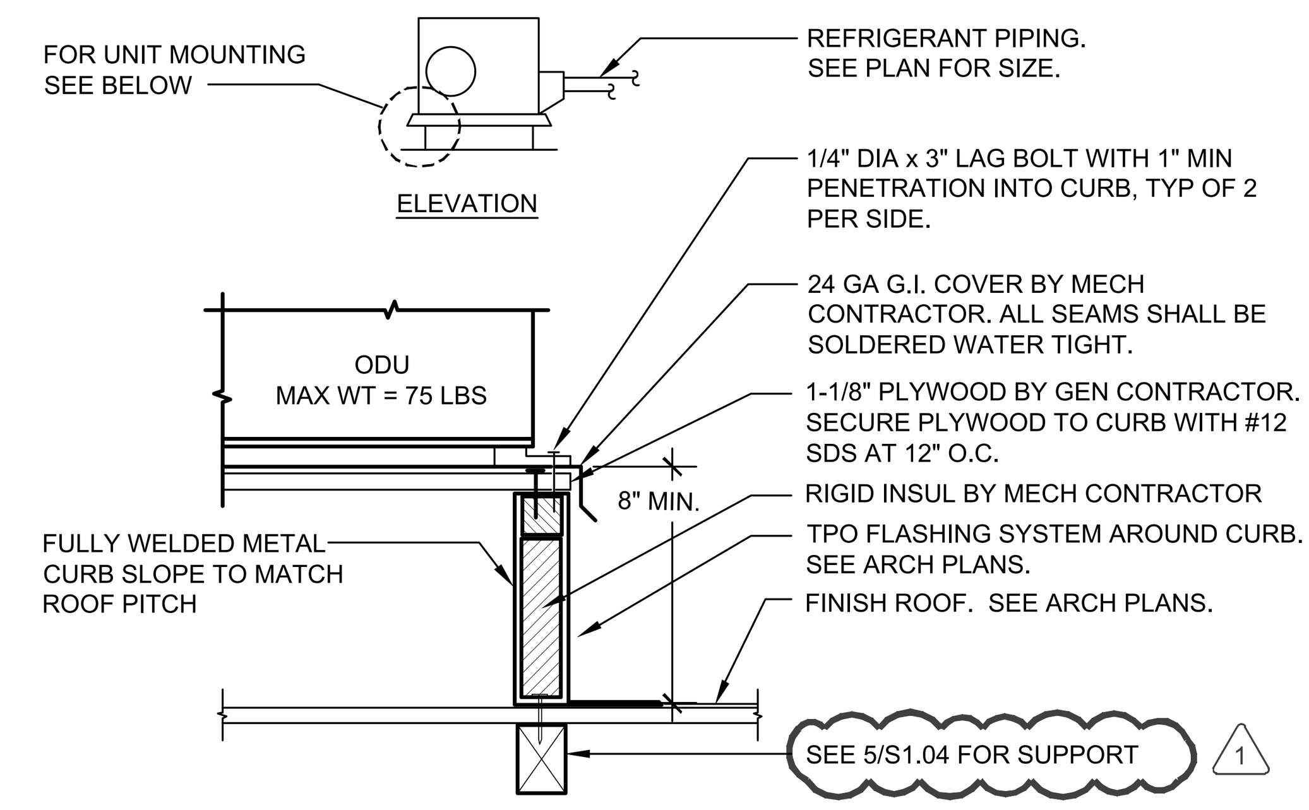
NOTES:
1. FOR CONDENSATE DRAIN PIPING, SIZES 1" OR SMALLER:
   A. COPPER PIPING - 6'-0" SPACING MAXIMUM
   B. GALV STEEL PIPING - 7'-0" SPACING MAXIMUM



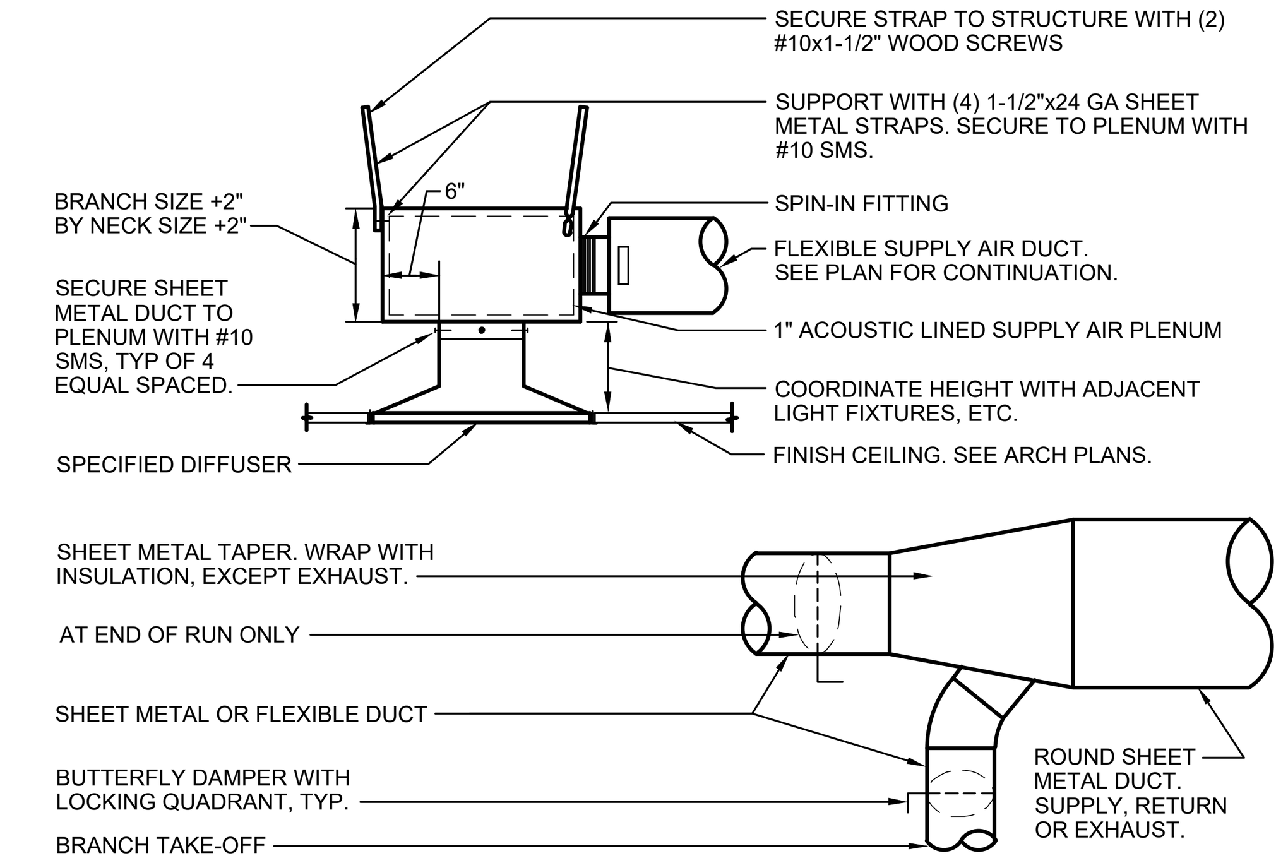
13 / M0.11 PIPE SUPPORT - ROOF — SCALE: N.T.S.



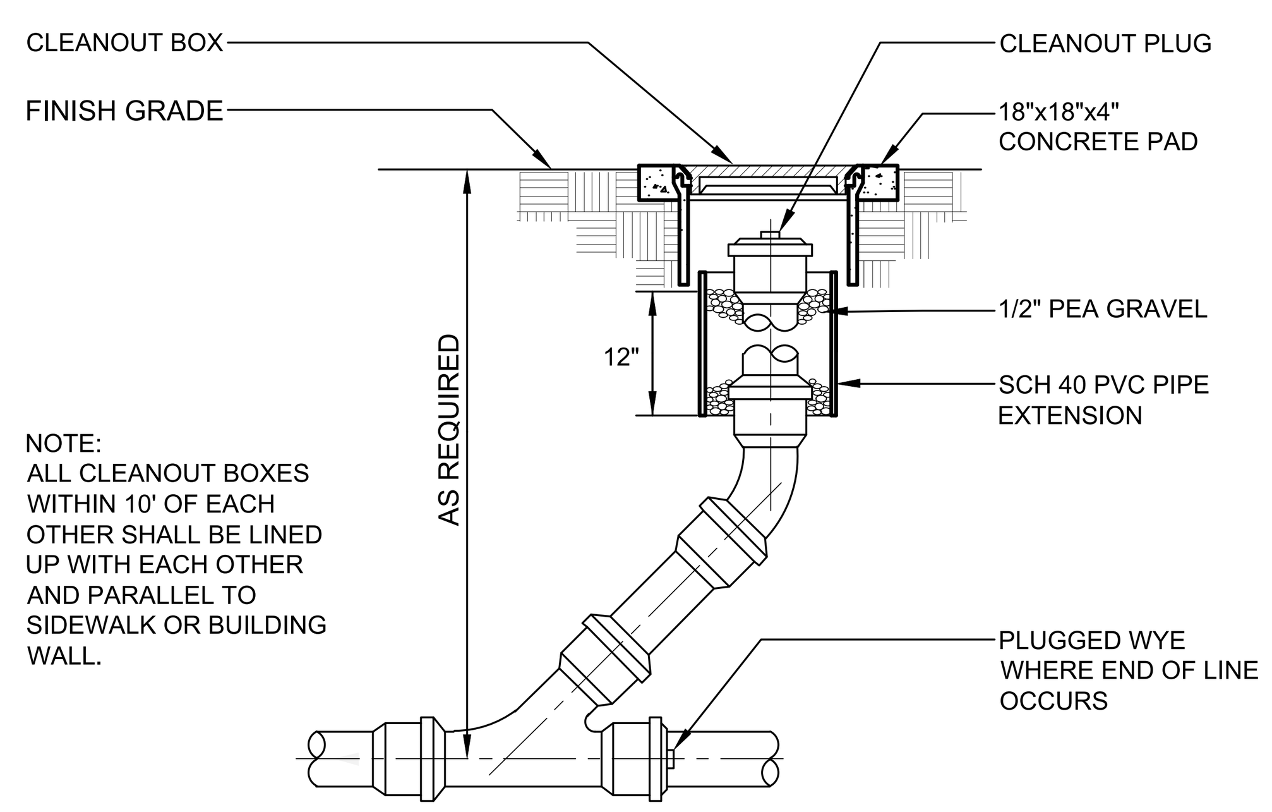
9 / M0.11 SHUT OFF VALVE IN BOX — SCALE: N.T.S.



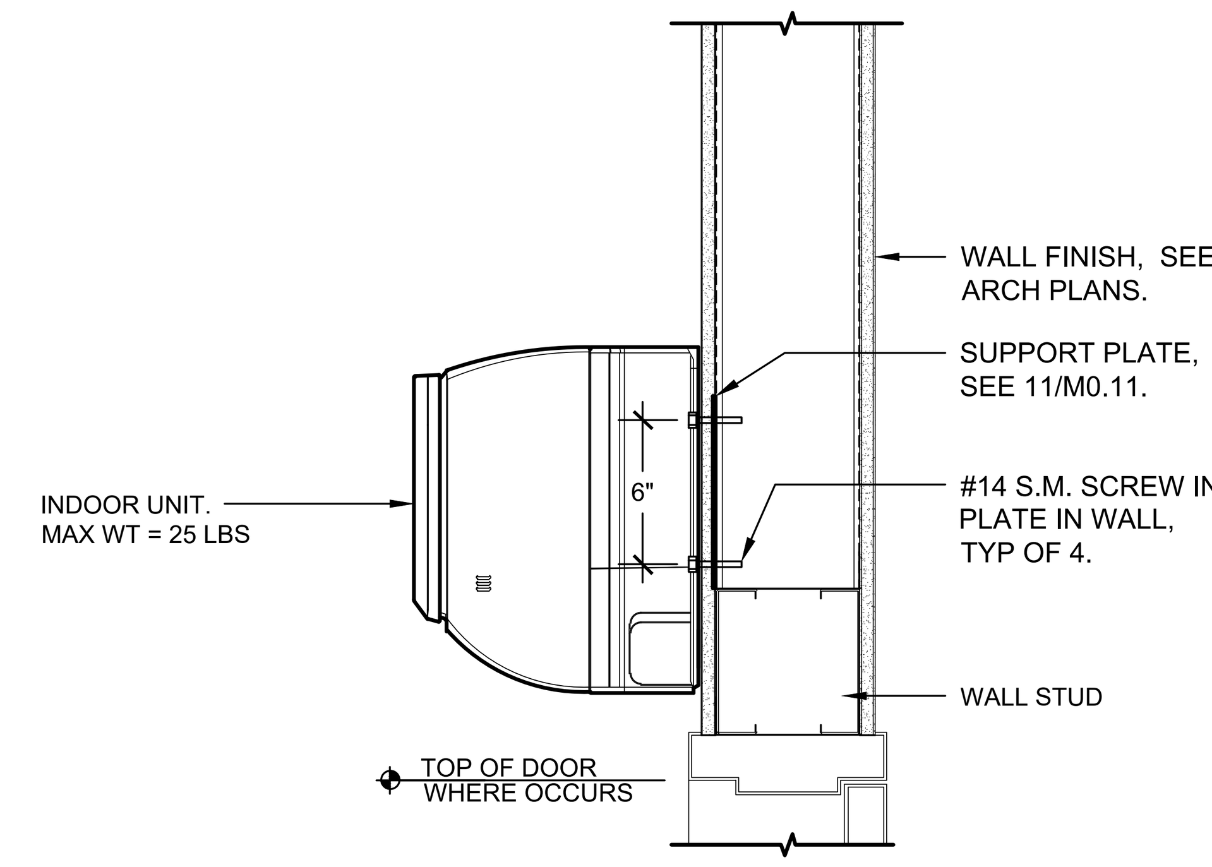
5 / M0.11 OUTDOOR UNIT — SCALE: N.T.S.



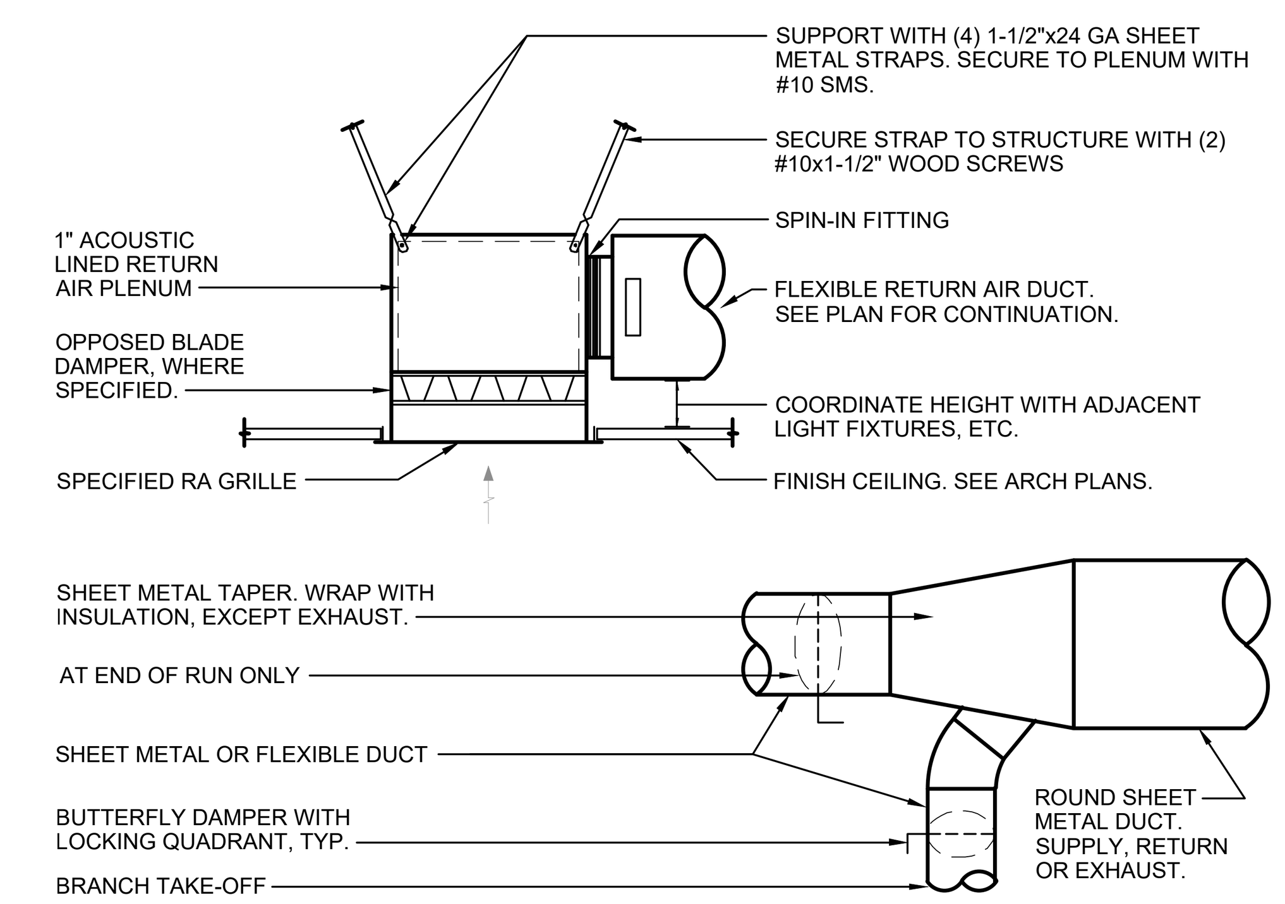
1 / M0.11 TYPICAL SUPPLY AIR DEVICE - BRANCH DUCT — SCALE: N.T.S.



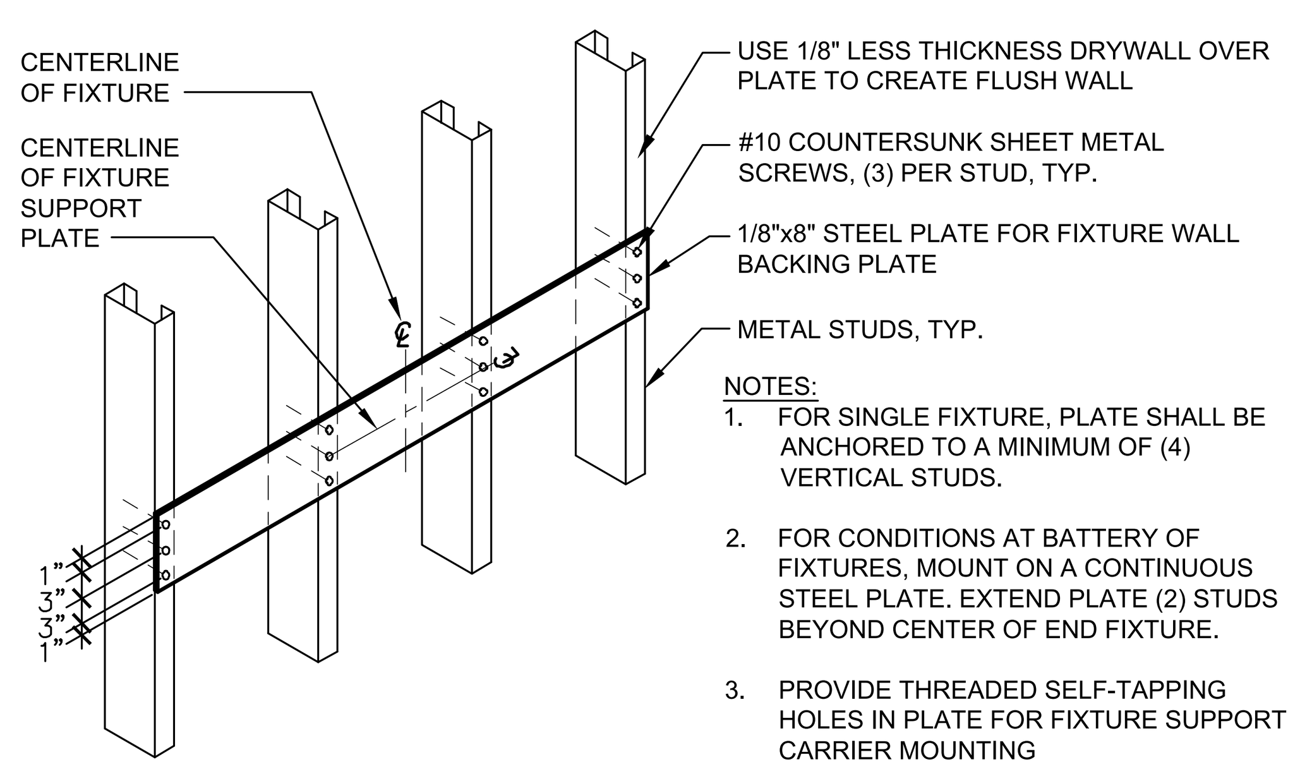
10 / M0.11 CLEANOUT TO GRADE (COTG) — SCALE: N.T.S.



6 / M0.11 INDOOR UNIT — SCALE: N.T.S.

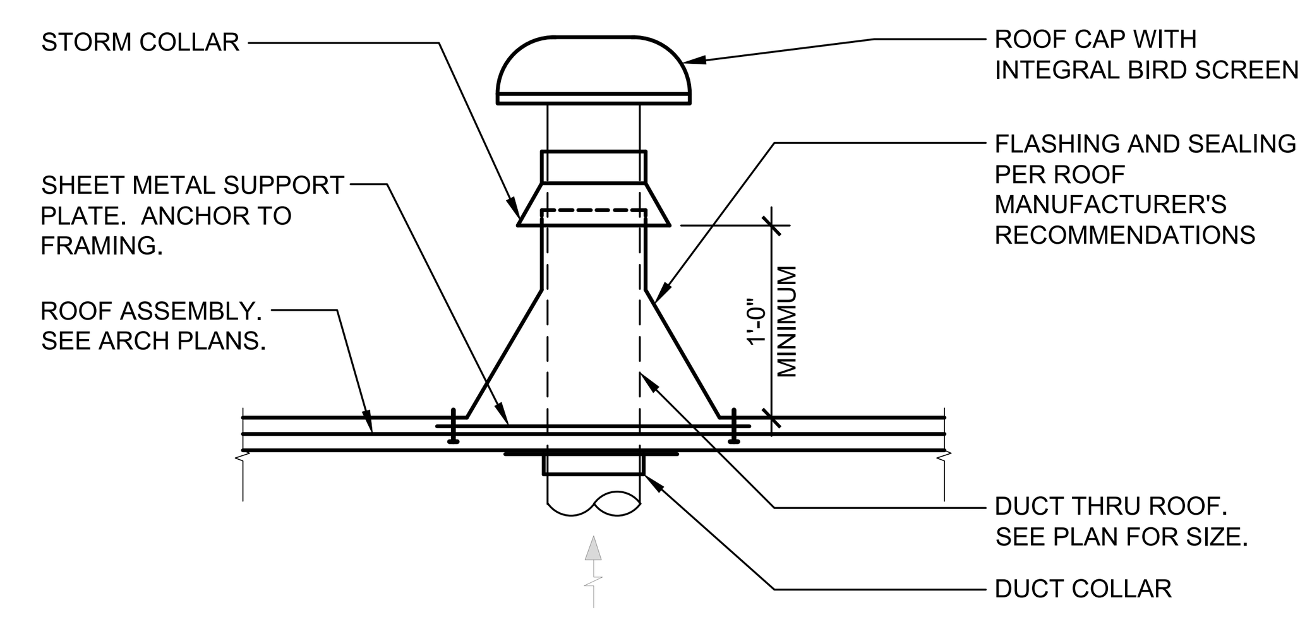


2 / M0.11 TYPICAL RETURN/EXHAUST AIR DEVICE - BRANCH DUCT — SCALE: N.T.S.

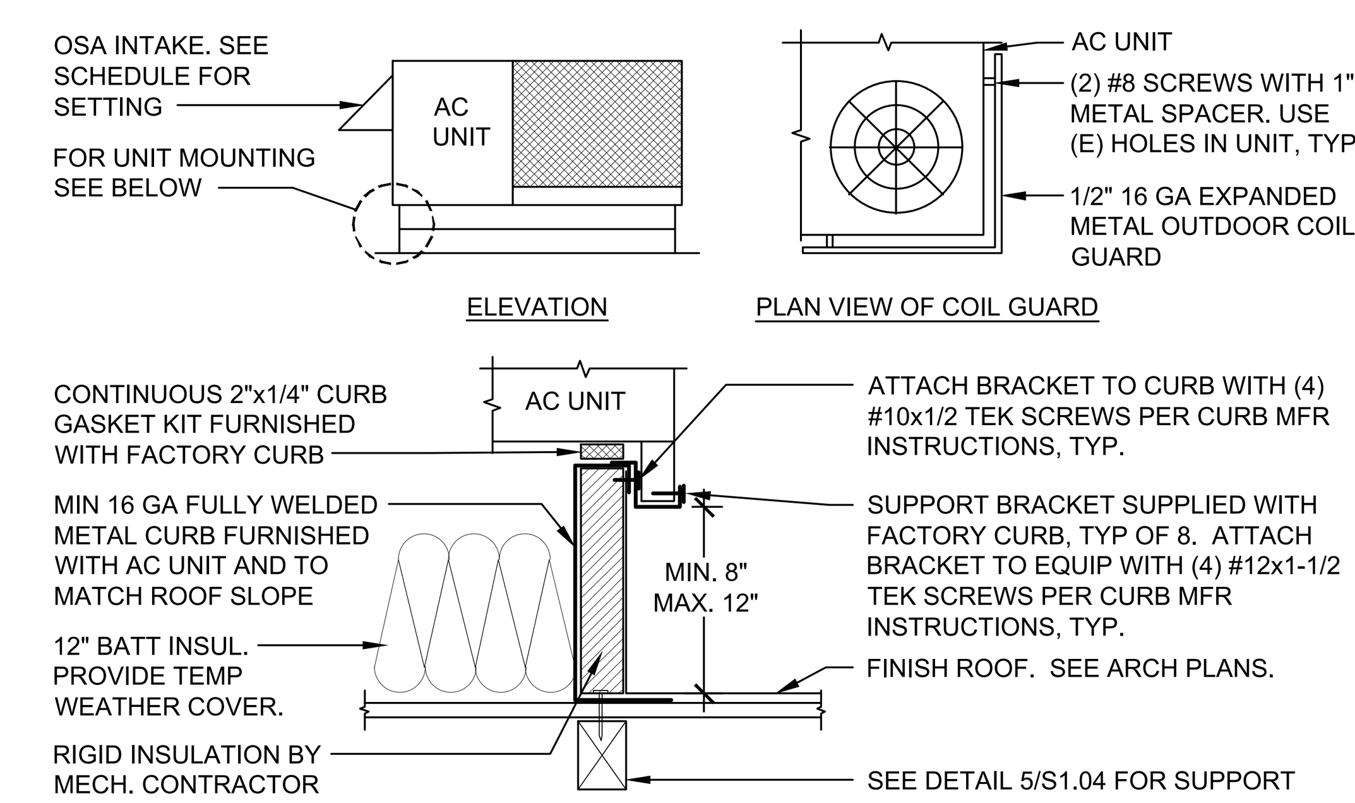


NOTES:
1. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
2. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
3. PROVIDE THREADED SELF-TAPPING HOLES IN PLATE FOR FIXTURE SUPPORT CARRIER MOUNTING
4. PROVIDE J.R. SMITH CONCEALED ARMS MOUNTED TO PLATE FOR LAVATORY INSTALLATION.

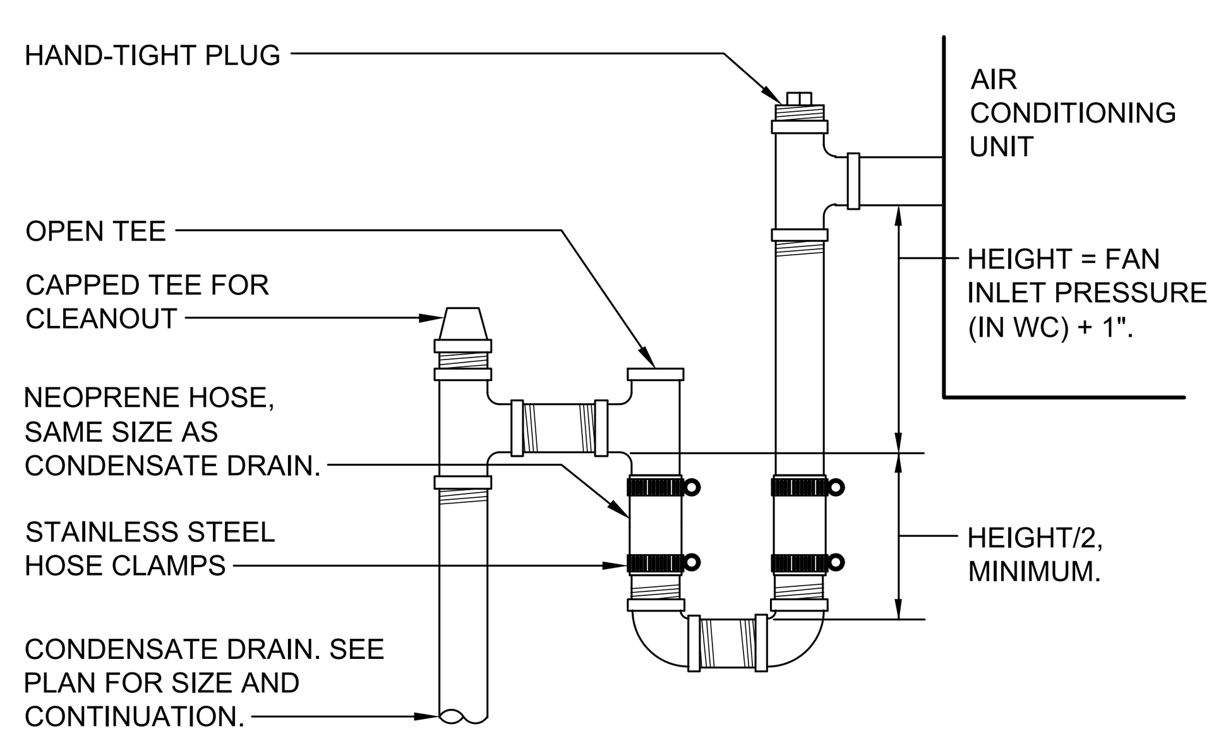
11 / M0.11 FIXTURE SUPPORT BACKING - METAL STUDS — SCALE: N.T.S.



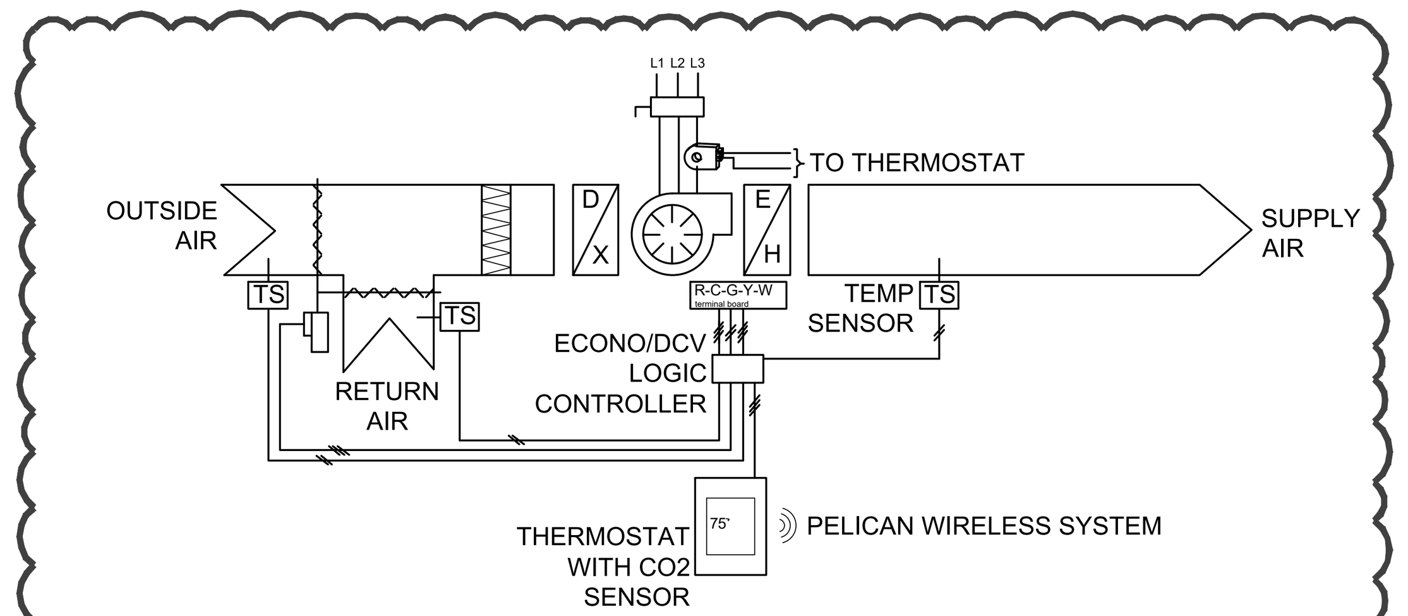
7 / M0.11 DUCT THRU ROOF - EXHAUST — SCALE: N.T.S.



3 / M0.11 AC UNIT MOUNTING — SCALE: N.T.S.

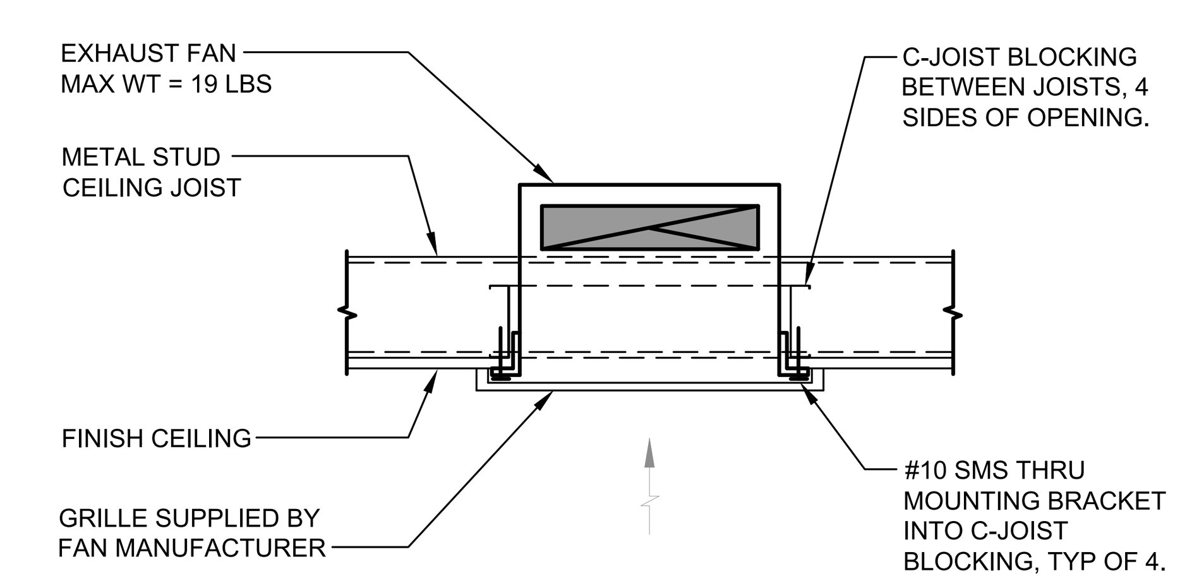


12 / M0.11 CONDENSATE DRAIN CONNECTION - DRAW THRU — SCALE: N.T.S.



NOTES:
1. LINE VOLTAGE AND CONDUIT BY DIVISION 26
2. UNIT EQUIP WITH 0-10 VDC ECONOMIZER ACTUATOR AND DAMPERS.
3. ECONOMIZER LOGIC CONTROLLER KIT TO INCLUDE CONTROLLER AND TEMPERATURE SENSORS. PELICAN WIRELESS PEARL.
4. THERMOSTAT WITH INTEGRATED CO2 SENSOR. CONTRACTOR TO INSTALL OWNER FURNISHED PELICAN WIRELESS THERMOSTAT.
5. CURRENT SENSOR. VERIS H6ECM

8 / M0.11 CONTROL SCHEMATIC - HEAT PUMP — SCALE: N.T.S.



4 / M0.11 EXHAUST FAN - CEILING — SCALE: N.T.S.

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Sheet Title:
DETAILS

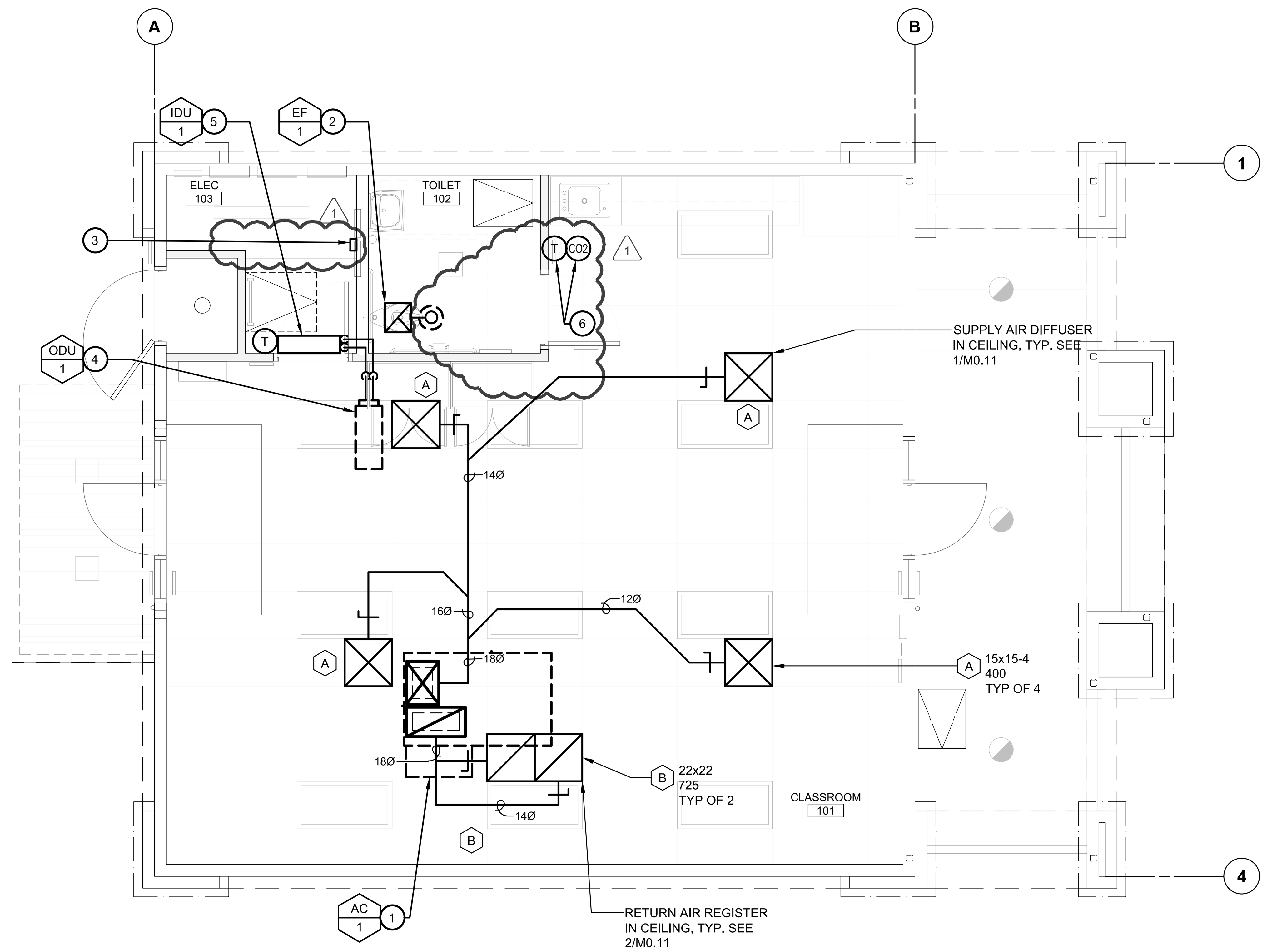
Job No.: **5528**

Sheet No.: **M0.11**

Release: ADDENDUM 1 — 11/22/24 — 12/19/24

G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER

1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"



HVAC PLAN
PARENT CENTER

SCALE: 1/4" = 1'

KEY NOTES

1. AC UNIT ON ROOF WITH 18x14(L) SUPPLY AIR PLENUM AND 26x12(L) RETURN AIR PLENUM DROP THRU ROOF. SEE DETAILS 3 & 8/M0.11. TRANSITION AND OFFSET AS NEEDED TO AVOID STRUCTURAL MEMBERS. SEE STRUCTURAL ROOF FRAMING PLAN. UNIT IS OWNER FURNISHED, CONTRACTOR INSTALL (OFCI)
2. CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT THRU ROOF. PROVIDE FLASHING AND CAP ASSEMBLY. SEE 4/M0.11 AND 7/M0.11 FAN IS OFCI
3. HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL OUTLET.
4. OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT PIPING TO INDOOR UNIT. SEE 5/M0.11 UNIT IS OFCI
5. INDOOR UNIT ON WALL. EXTEND REFRIGERANT PIPING TO OUTDOOR UNIT. SEE 6/M0.11 UNIT IS OFCI
6. TOP OF THERMOSTAT AND CARBON DIOXIDE SENSOR AT 48" MAXIMUM ABOVE FINISHED FLOOR. THERMOSTAT WITH INTEGRAL CO2 SENSOR IS OFCI

LEGEND

SYMBOL	DESCRIPTION	ABBR
AC 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	AC-1
A 10x10-3 120	GRILLE DESIGNATION / NECK SIZE & BLOW / CFM	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EXH
	ACOUSTIC LINED DUCT	(L)
	DUCT RISER	
	DUCT DROP	
	SQUARE TO ROUND FITTING	
	FIRE/SMOKE DAMPER	FSD
SD	DUCT SMOKE DETECTOR	SD
	VOLUME CONTROL DAMPER	VCD
CO2	CARBON DIOXIDE SENSOR AT 48" MAXIMUM TO TOP OF BOX	CO2
S	SWITCH	
T	THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX	T'STAT
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
	ABOVE FINISH FLOOR	AFF
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
	OUTSIDE AIR	OSA
X	POINT OF CONNECTION	POC
	TYPICAL	TYP

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EXP. 6-30-26
MECHANICAL
STATE OF CALIFORNIA

Sheet Title:
HVAC PLAN

Job No.:
5528

Sheet No.:
M2.11

Release: ADDENDUM 1 11/22/24

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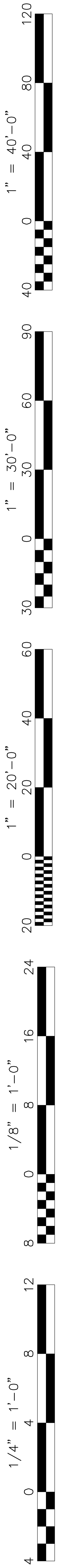

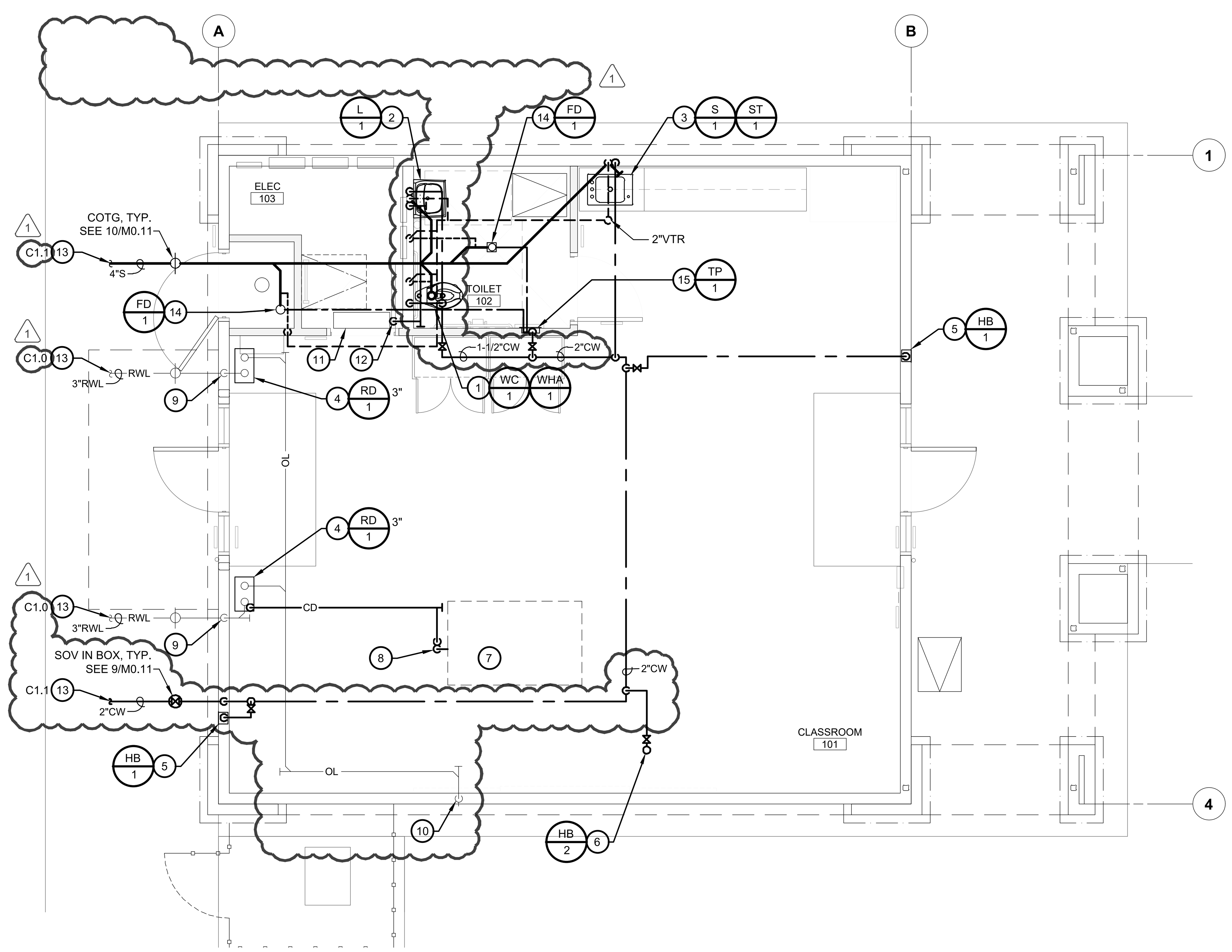

PLUMBING PLAN

PARENT CENTER

SCALE: 1/4" = 1'

KEY NOTES

1. 1-1/2"CW, 4"S, 2"V TO WATER CLOSET, TYP.
2. 3/4"CW, 2"W, 1-1/2"V TO LAV, TYP.
3. 3/4"CW, 2"W WITH WCO, 1-1/2"V TO SINK, TYP. CABINET TO BE FURNISHED AND INSTALLED BY OWNER. COORINATE SINK INSTALLATION WITH OWNER.
4. COMBO ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCH ROOF PLAN FOR EXACT LOCATION.
5. 3/4"CW TO HOSE BIBB AT 12" ABOVE FINISH GRADE, TYP.
6. 3/4"CW UP TO HOSE BIBB ON ROOF WITH SOV, TYP. SEE ARCH PLANS FOR EXACT LOCATION. DO NOT PLACE IN WALKWAY.
7. AC UNIT ON ROOF. SEE MECH PLANS FOR EXACT LOCATION.
8. CONNECT 3/4"CD TO AC UNIT WITH TRAP PER 12/M0.11 AND DISCHARGE TO NEAREST ROOF DRAIN WITH AIR GAP. SEE 13/M0.11
9. 3" RWL DOWN IN WALL TO BELOW GRADE, PROVIDE COTG AND CONNECT TO SITE STORM DRAIN SYSTEM, TYP.
10. 3" OL DOWN IN WALL, DISCHARGE THRU WALL AT +12" ABOVE FINISH GRADE WITH 1" EXTENSION PAST WALL. SEAL WALL PENETRATION WATER TIGHT. PAINT EXPOSED PIPE TO MATCH WALL. SEE ARCH PLANS FOR EXACT LOCATION.
11. INDOOR UNIT ON WALL WITH CONDENSATE PUMP. SEE MECH PLANS FOR EXACT LOCATION.
12. CONNECT 3/4" DRAIN TO INDOOR UNIT, OFFSET ABOVE CEILING, AND DISCHARGE TO TAILPIECE OF LAV.
13. SEE CIVIL PLANS FOR CONTINUATION
14. 1/2"CW BELOW FLOOR FROM TRAP PRIMER, 2"W, 1-1/2"V TO FLOOR DRAIN, TYP.
15. 3/4"CW TO TRAP PRIMER WITH SOV IN WALL AT +24" BEHIND WALL ACCESS PANEL. EXTEND 1/2"CW BELOW FLOOR TO FLOOR DRAIN.

LEGEND

SYMBOL	DESCRIPTION	ABBR
	SOIL OR WASTE	S. W.
	VENT	V
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
CD	CONDENSATE DRAIN	CD
D	DRAIN	D
	FLOOR CLEANOUT OR CLEANOUT TO GRADE	FCO COTG
	WALL CLEANOUT	WCO
	VENT THROUGH ROOF	VTR
	GATE OR SHUTOFF VALVE	GV SOV
	UNION	
	ELBOW UP	
	ELBOW DOWN	
	REDUCER	RED
	HOSE BIBB	HB
	ABOVE FINISH FLOOR	AFF
	CAP	
	EXISTING	(E)
	(E) TO BE REMOVED	DEMO
	NEW	(N)
X	POINT OF CONNECTION	POC
	TYPICAL	TYP

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Sheet Title:

PLUMBING PLAN

Job No.: **5528**

Sheet No.: **M3.11**

Release: ADDENDUM 1 11/22/24

G:\2022frs\22-5528 BCSD MLK PARENT CENTER\Sheets SEAN PARKER 12/19/24

(N) PANEL SCHEDULE "LPC-1"

SERVICE: 120/208V 1Φ 3W | BUS: 100A | LOC.: SEE PLAN | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	REC	LTG	MISC	POLE	TRIP	CIRC		CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	REMARKS
R/R REC			1			1	20	1		2	20	1	3					WORK ROOM REC
COUNTER REC			1			1	20	3		4	20	1	1					SMART BOARD
"			1			1	20	5		6	20	1	2					WORK ROOM REC
"			1			1	20	7		8	20	1	2					"
REFRIGERATOR			1			1	20	9	*	10	20	1	2					ELECTRIC ROOM
EXT REC			3			1	20	11		12	20	1	1					"
IDF	500		1			1	20	13		14	20	1						SPARE
IDF CABINET		180	1			1	20	15		16	20	1						MAG LOCK CONTROL
MAG LOCK DOORS	500		2			1	20	17		18	20	1						EXT LIGHTING
CHROME BOOK REC		500	1			1	20	19		20	20	1						LIGHTING
SPARE						1	20	21		22	15	2			1			OPU-1 / IDU-1
COND PUMP		200			1	1	20	23		24	X	X						"

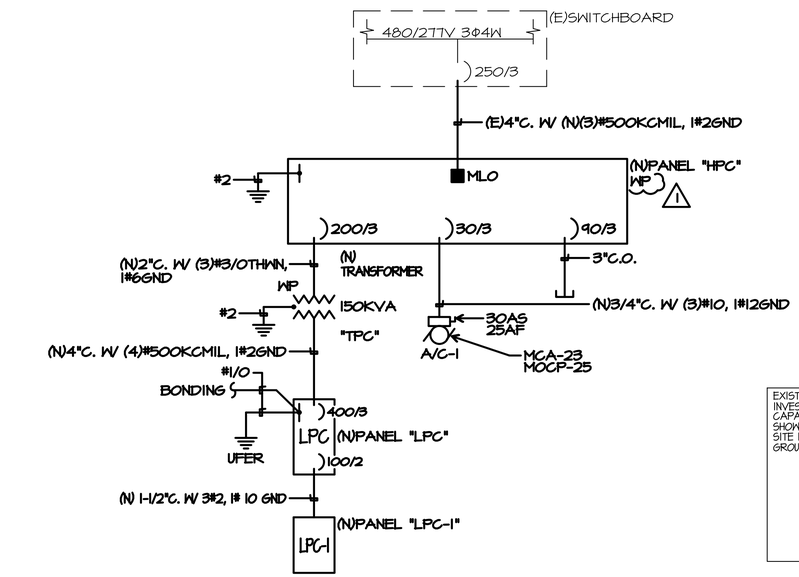
MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM

(N) PANEL SCHEDULE "LPC"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: 400A - 3P | BUS: 400A | LOC.: SEE PLAN
NEMA 3R | MTG.: SURFACE

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC		CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
PANEL LPC - 1						1	2	100	1		2									SPACE
"							X	X	3		4									"
SPARE							2	100	5		6									"
"							X	X	7		8									"
"							2	100	9		10									"
"							X	X	11		12									"
"							2	100	13		14									"
"							X	X	15		16									"
SPARE							1	20	17		18									"
"							1	20	19		20									"
"							1	20	21		22									"
"							1	20	23		24									"

MINIMUM BKR | A.I.C. RATING= 10,000 AMPS SYM



SINGLE LINE DIAGRAM (A)
SCALE: NONE

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS
SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS

REGISTERED PROFESSIONAL ENGINEER — EDWARD S. MALONEY — EXP. 06/30/2025 — ELECTRICAL — STATE OF CALIFORNIA

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
11. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BE IN CONDUIT.
13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structure engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork and Electrical Distribution System Bracing

Piping, ductwork and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are a noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Electrical Distribution Systems (E):

Detailed on the approved drawings with project specific notes and details.

ACCESSIBILITY NOTES

Installation of switches, outlets and controls to reflect the accessibility requirements of the 2022 CBC Chapters 11A and 11B for Accessibility.

1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.

3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

4. CBC 11B-308.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased to 48".

6.Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

SYMBOLS

	CONDUIT EXISTING
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
	CONDUIT STUBBED OUT AND CAPPED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12.
A-3	HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
	SAWCUT
	GROUND CONNECTION
	DISTRIBUTION SWITCHBOARD OR PANEL
	PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
	SIGNAL TERMINAL CABINET, SURFACE & FLUSH
	FLUORESCENT FIXTURE
2 a	OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
	SURFACE FIXTURE ON FLUSH OUTLET.
	RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
	EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
	LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
A 100	LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
FC 1	MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
	SPECIAL RECEPTACLE – SEE PLAN
M	METER
	FLUSH FLOOR RECEPTACLE
	RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.
	DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
	DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
GFI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	CEILING RECEPTACLE
	RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
J	JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
T	THERMOSTAT F.B.O. +48"
2	MOTOR, NO. INDICATES HORSEPOWER
	CLOCK OUTLET +7'-6" U.N.O.
	DISCONNECT SWITCH, NON-FUSED
F	DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
	COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
	MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
D	DIMMER W/INTEGRAL "ON-OFF" SW.
	PUSHBUTTON
PC	PHOTOCELL
SD	SMOKE DETECTOR
	TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
TV	CABLE TV OUTLET +18" U.N.O.
M	MOTION SENSOR
$	EXISTING SWITCH
S	SINGLE POLE SWITCH
^{2}	DOUBLE POLE SWITCH
^{3}	THREE WAY SWITCH
^{P}	SWITCH W/PILOT LT.
^{M}	MANUAL MOTOR STARTER

(S, ^{2}, ^{3}, ^{P}: QUIET TOGGLE TYPE RATED AT 20A, 120/277V AC. +42" U.N.O.)

FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTING
LST	LABOR SAVING TANDEM
MLO	MAIN LUGS ONLY
W/	WITH
C.O.	CONDUIT ONLY
W.P.	WEATHERPROOF
F.B.O.	FURNISHED BY OTHERS, INSTALL & CONNECT
U.N.O.	UNLESS NOTED OTHERWISE
N.E.C.	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
S/M	SURFACE MOUNT
U/G	UNDERGROUND
CWP	COLD WATER PIPE
AFF	ABOVE FINISHED FLOOR
HACR	HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
N.L.	NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

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APPROVED
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APP: 03-122604 INC: 0
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DATE: 02/25/2025

Owner:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER ST
BAKERSFIELD, CA 93305

Project Name:

PARENT CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL
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LICENSED ARCHITECT — CURTIS E. FLINN — No. C 28966 — REN. 8-31-25 — STATE OF CALIFORNIA

Sheet Title:

GENERAL NOTES, SYMBOLS & DETAILS

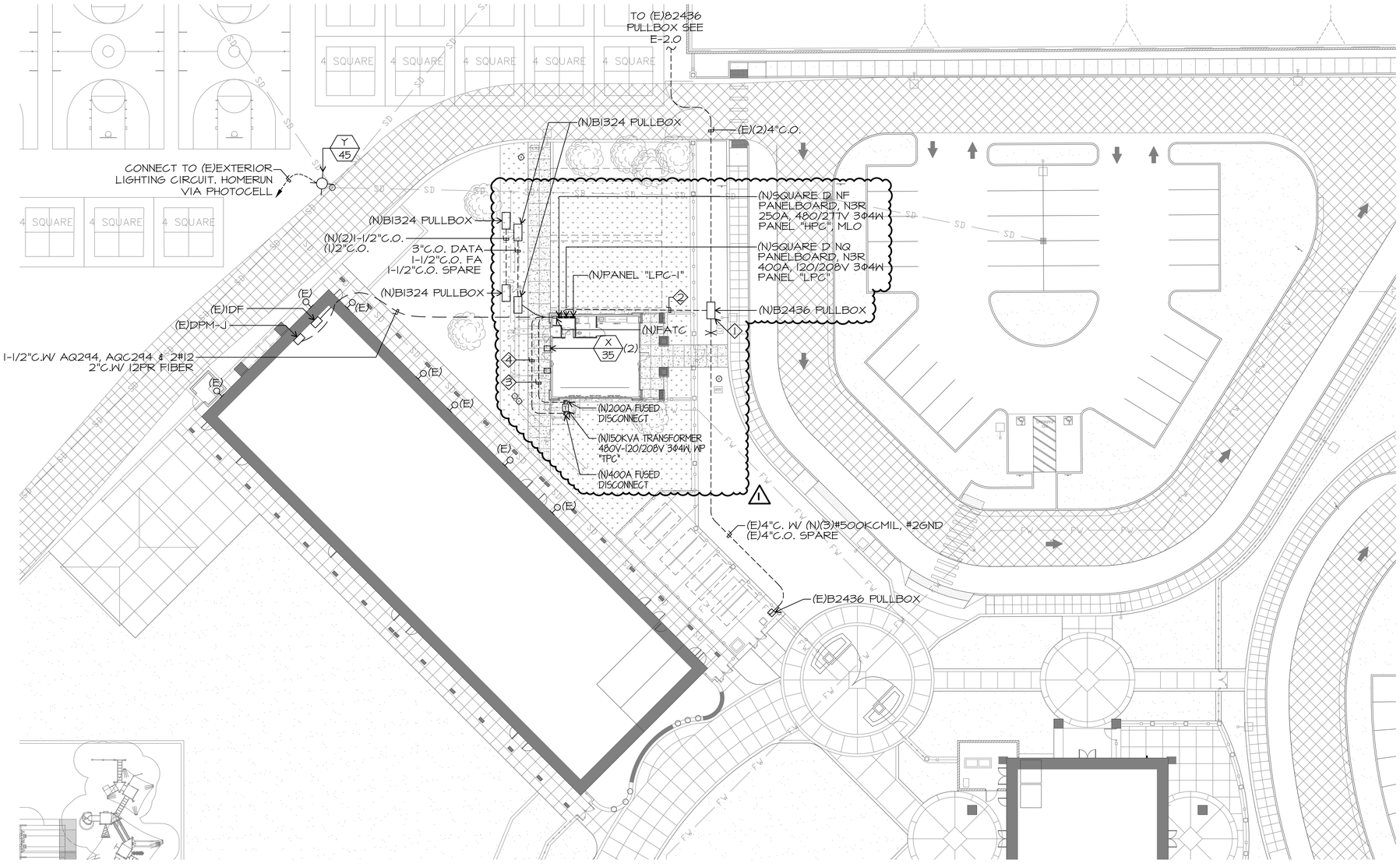
Job No.: 5528

Sheet No.: E-1.0

Date: 11/22/24

ELECTRICAL NOTES

1. INTERCEPT (E)(2)4"CONDUITS AND INSET A NEW PULLBOX. ELBOW CONDUITS UP INTO BOX AND CAP OFF SPARES.
2. (N)4"C. W/ (3)#500KCMIL, #2GND (N)3"C.O.
3. (N)2"C. W/ (3)#3/0THWN, #4GND FROM PANEL "HPC" TO 200A DISCONNECT.
4. (N)4"C. W/ (4)#500KCMIL, #2GND FROM 400A DISCONNECT TO PANEL "LPC".



ENLARGED ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0" 0 5 10 20 40

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REGISTERED PROFESSIONAL ENGINEER MALONEY No. E013083 EXP. 06/30/2025 ELECTRICAL STATE OF CALIFORNIA

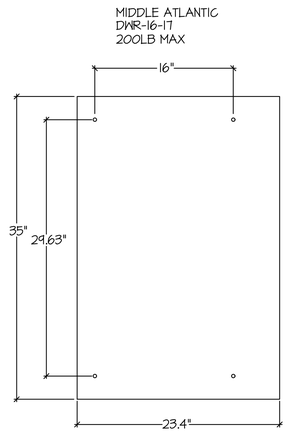
Sheet Title:

ENLARGED ELECTRICAL SITE PLAN

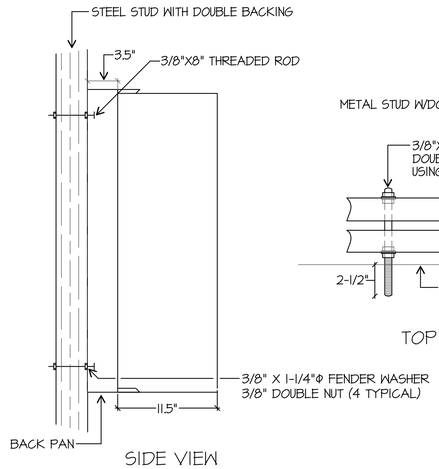
Job No.: 5528

Sheet No.: E-3.0

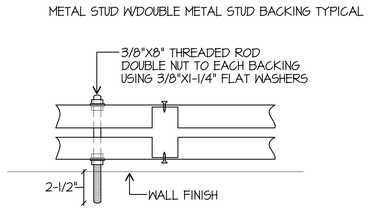
Date: 11/22/24



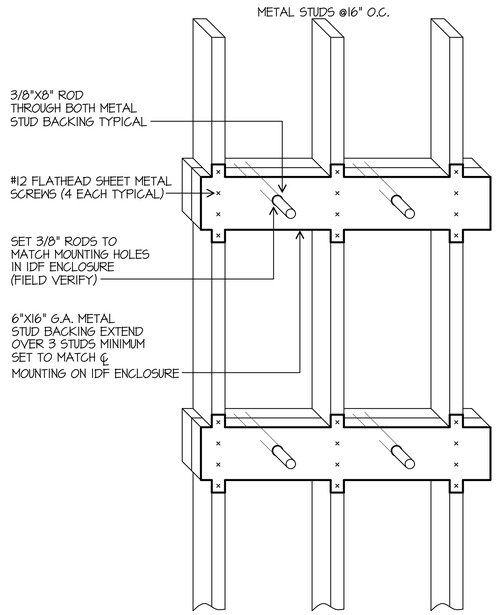
FRONT VIEW OF BACK PAN



SIDE VIEW



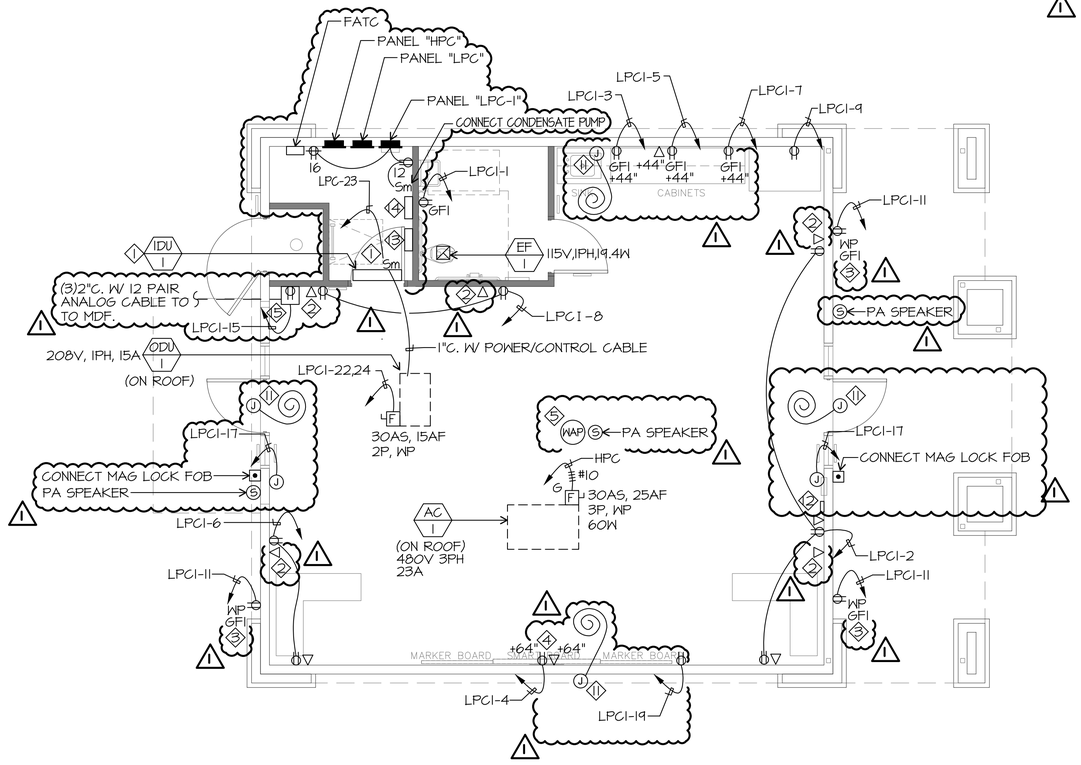
TOP VIEW



FRONT WALL ELEVATION

IDF MOUNTING DETAIL, STEEL STUDS

SCALE: NONE



ELECTRICAL FLOOR PLAN

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

ELECTRICAL NOTES

1. IDU HAS A CONDENSATE PUMP WITH SEPARATE 120V POWER. IDU IS POWERED BY ODU ON ROOF.
2. ROUTE CONDUIT ABOVE CEILING
3. PROVIDE WP LOCKABLE COVER FOR EXTERIOR OUTLETS.
4. SMART BOARD TYP. LAYOUT, CONTROL TO SMART BOARD FROM TEACHERS LOCATION, RIGHT HAND SIDE TO CONTROL SMART BOARD.
5. WAP LOCATION. (2) CAT6A IN 2 PORT PLATE ATTACHED TO TILE.
6. EACH WORK STATION SHALL HAVE (3)CAT6 AT DATA BOX BACK TO IDF.
7. PROVIDE CAT6 CABLE TO EACH WALL CENTER FOR FUTURE CAMERA. NO BOX SHALL BE INSTALLED. WIRE SHALL BE COILED NEATLY ABOVE CEILING W/ 30' EXTRA. CONTRACTOR TO PROVIDE, DISTRICT TO INSTALL.
8. J-HOOKS SHALL BE INSTALLED TO CENTER OF ROOM. 25FT LEAD FROM CENTER OF WALL.
9. ALL WALL DATA LOCATIONS SHALL BE INSTALLED W/ (3)CAT6 CABLES IN 3 PORT PLATE.
10. RACEWAY SHALL BE ADDED ABOVE CEILING.
11. 20' CAT6 CABLE COILED ABOVE CEILING FOR CAMERAS.
12. SECURITY KEYPAD WITH LV CABLE BACK TO IDF.
13. SONITROL SECURITY CABINET. PROVIDE (2)2"C. FROM CABINET TO ABOVE CEILING (IN WALL).
14. MAG CONTROL BOX. PROVIDE 2" SLEEVE.
15. (N)IDF W/ POWER OUTLET IN CABINET. SEE DETAIL A/E-4.0 FOR MOUNTING. COORDINATE INSTALLATION WITH DISTRICT AND INSTALLER.

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Sheet Title:

ELECTRICAL FLOOR PLAN

Job No.:

5528

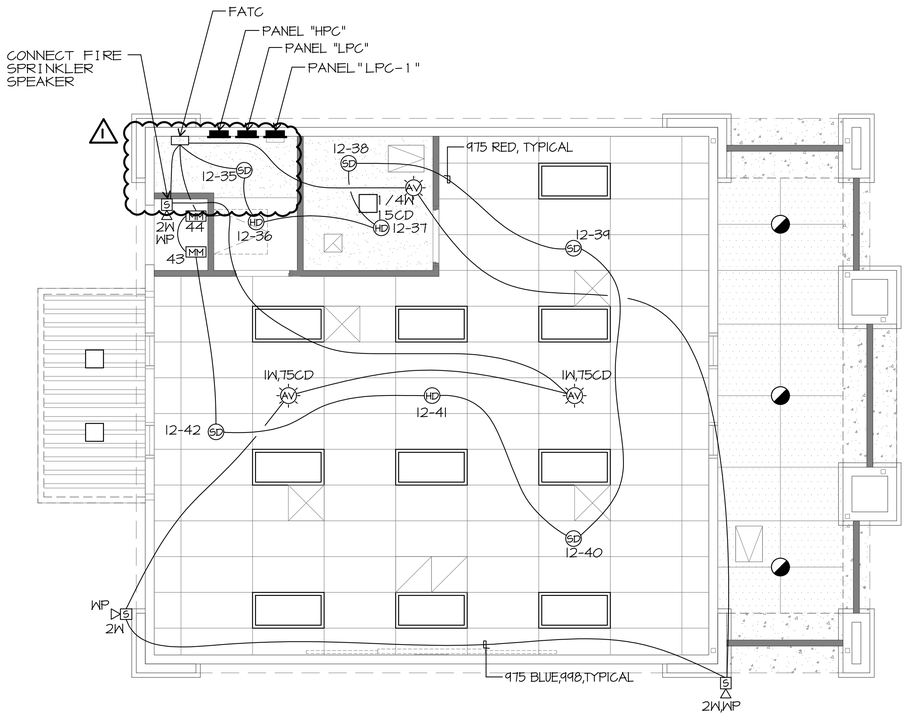
Sheet No.:

E-4.0

Release: ADDENDUM 1 ⚠ Date: 11/22/24

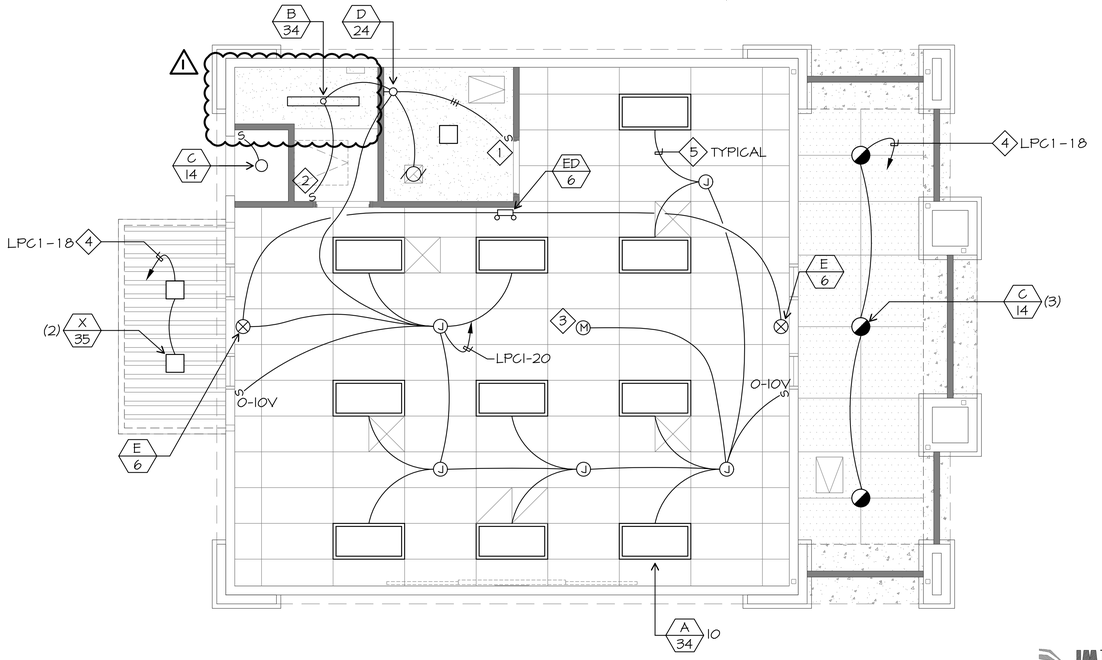
LED FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE TYPE	LED MODULE COLOR TEMP	LED MODULE WATTS	DRIVER	OPTIC/LENS	REMARKS
A 34	LITHONIA 2BLT448LADPGZ10LP835		3500K	34	0-10V	DIFFUSE	2 X 4
B 34	LITHONIA FMLWL848-35K		3500K	34	0-10V	DIFFUSE	4 FT S/M WRAP
C 14	LITHONIA EVOSH30/15DFFSOLMVOLTEZ10		3500K	14	0-10V	DIFFUSE	6" WP DOWNLIGHT
D 24	TECH 700BCBAS24S927LED		2700K	24	ELV	DIFFUSE	VANITY LIGHT
E 6	ISOLITE RLPGUWHMTEB		GREEN 4000K	6	NICAD BATTERY	PRISMATIC	EXIT SIGN W/ EM LIGHT
ED 6	ISOLITE RLEMGUWHMTEB		GREEN 4000K	6	NICAD BATTERY	PRISMATIC	DOUBLE SIDED EXIT SIGN W/ EM LIGHT
X 35	LITHONIA CNY LED P1 40K MVOLT DDB		4000K	35	0-10V	DIFFUSE	LED CANOPY LIGHT
Y 45	RADIAN LIGHTING RAD PT P2 40K PATH 120 PT4 PE RSS12		4000K	45	0-10V	DIFFUSE	LED POLE LIGHT



FIRE ALARM PLAN

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



LIGHTING PLAN

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

LIGHTING NOTES

1. SENSOR SWITCH # WSX-PDT-2P-FAN-WH.
2. SENSOR SWITCH # WSX-PDT-WH.
3. SENSOR SWITCH # CWR9-PDT.
4. HOME RUN VIA PHOTOCELL
5. MCLUMINARY CABLE 2 12# 14, 1# 12 GND

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Sheet Title:

LIGHTING AND FIRE ALARM PLANS

Job No.: 5528

Sheet No.: E-5.0

Release: ADDENDUM 1 ⚠ Date: 11/22/24

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