ROCKFORD BOARD OF EDUCATION
INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES FOR SCHOOL DISTRICT NO. 205 ROCKFORD, ILLINOIS

IFB No. **17-25 Rockford Public School District 205 School A, Zone 2**

DATE: **Monday, January 30, 2017**

RE: **ADDENDUM NO. 2**

To All Bidders:

Attached are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

If you plan to hand deliver your IFB submission on the due date, please note you must check in on the 3rd floor prior to coming to the bid opening. Please allow time for this as late submission will not be accepted.

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Purchasing Manager by email at tamara.pugh@rps205.com.

CANNONDESIGN

ADDENDUM NO. 2

Date of Addendum: January 27, 2017
Original Date of Contract Documents: Issued for Bid: January 04, 2017

Owner:

Rockford Public School District 205
School A, Zone 2
Cherry Valley, IL
Cannon Project No. 005005.00

Architects and Engineers

Cannon Design
225 N. Michigan Ave, Suite 1100
Chicago, Illinois 60601

This Addendum amends Drawings and/or Specifications and/or Addenda for the above titled project, as indicated below, and is hereby incorporated into the Contract Documents as part thereof.

Bidders are required to acknowledge receipt of this Addendum in the space provided on the Proposal/Bid Form.

NARRATIVES:

SPECIFICATIONS (PROJECT MANUAL)

1. AIA A701

   A. Delete this document in its entirety and insert new AIA A701 attached to this Addendum.

2. SUPPLEMENTARY INSTRUCTION TO BIDDERS

   A. Page SIB-1,1,A strike the following: "Proposals shall be submitted in duplicate on the form provided. The sample proposal form bound into these Specification is for reference only and shall not be detached."

   B. Page SIB-5,16 strike the following "Before a bid can be considered by the school district, the above referenced tax identification number must be on the bid form in the signature section. We also specifically require that you identify the legal organizational status of your firm in the signature section as to whether it is a corporation, partnership, proprietorship, etc. Should you have any questions concerning this tax identification number please contact us."

3. ASBESTOS NOTIFICATION

   A. Delete this form in its entirety.

4. BID FORM

   A. Delete this document in its entirety and insert new BID FORM attached to this Addendum.

5. 015000 – TEMPORARY FACILITIES AND CONTROLS

   A. Page 015000-3, Article 2.2, Paragraph C, Subparagraph 3, ADD "Provide a dedicated internet service line separate from the contractors."

6. 042000 – UNIT MASONRY

A. Page 042000-19, Article 3.12, Paragraph B, Subparagraph 2, has been revised to read as follows:

2. At masonry veneer walls, lay flashing over and bond to stainless steel drip and extend flashing through the veneer and across air space behind veneer. Extend flashing up face of back up wall at least 8 inches and terminate with a term bar. See item 4 for description of stainless steel drip. Seal top of term bar with a sealant to the compatible with the Air Barrier.

7. 072131 – FLUID APPLIED INSULATION COATINGS

A. Page 072131-3, Article 2.1, Paragraph A, ADD "or owner approved equal:"

8. 074212.13 – FORMED METAL WALL PANELS

A. Page 072131-3, Article 2.2, Paragraph B,1 ADD "or owner approved equal:"

9. 078413 – PENETRATION FIRESTOPPING

A. Page 078413-2, Article 1.6, Delete Paragraph C. In its entirety.

B. Page 078413-6, Article 3.5, Insert Paragraph "A" as follows:

"A. Testing Agency: Engage a qualified testing agency to preform tests and inspections."

10. 078466 – FIRE-RESISTIVE JOINT SYSTEMS

A. Page 078446-2, Article 1.6, Delete Paragraph C. In its entirety.

B. Page 078446-4, Article 3.5, Insert Paragraph "A" as follows:

"A. Testing Agency: Engage a qualified testing agency to preform tests and inspections."

11. 079500 – EXPANSION CONTROL

A. Page 079500-2, Article 2.3, Paragraph A, ADD "or owner approved equal:"

12. 085113 – ALUMINUM WINDOWS

A. Page 085113-1, Article 2.1, Paragraph A, ADD "or owner approved equal:"

13. 086200 – UNIT SKYLIGHTS

A. Page 086200-1, Article 2.1, Paragraph A, ADD "or owner approved equal:"

14. 087100- DOOR HARDWARE SCHEDULE

A. Page 087100-4 PART 3, Add the following: "10. Or owner approved equal:"

15. 092116- GYPSUM BOARD SHAFT WALL ASSEMBLIES

A. Section 087100 is being issued as a new document and attachment to this Addendum.

16. 096446- WOOD ATHLETIC FLOORING

    A. Page 096466, Article 2.2, Paragraph A,1 ADD “or owner approved equal:”

    B. Page 096466-3, Article 2.2, Paragraph A,1,B ADD the following paragraph

    "c. Aacer Scissorloc II with air flow system”

17. 096513 – RESILIENT BASE

    A. Page 096513, Article 2.2, Paragraph A, ADD “or owner approved equal:”

    B. Page 096513, Article 2.2, Paragraph A, Subparagraph 4, DELETE the following:

    “http://www.specagent.com/LookUp/?uid=123456853219&mf=04&src=wd”

18. 096519 – RESILIENT TILE FLOORING

    A. Page 096519, Article 2.2, Paragraph A, ADD “or owner approved equal:”

    B. Page 096519, Article 2.3, Paragraph A, ADD “or owner approved equal:”

19. 096813 – TILE CARPETING

    A. Page 096813-2, Article 2.2 Paragraph A, Subparagraph 1, ADD “or owner approved equal:”.

    B. Page 096813-2, Article 2.3 Paragraph A, Subparagraph 1, ADD “or owner approved equal:”.

20. 099620 – GRAFFITI-RESISTANT COATINGS

    A. Page 099620-2, Article 2.1, ADD the following Paragraph “C. Or owner approved equal:”

21. 116643 – SCOREBOARD

    A. Page 116643-1, Article 2.1, ADD the following Paragraph “B. Or owner approved equal:”

22. 126600 – TELESCOPING STANDS

    A. Page 126600-3, Article 2.1 ADD the following Paragraph “C. Or owner approved equal:”

DRAWINGS:

Volume 1:

1. G0 – COVER SHEET

   A. Added Vicinity Map

Volume 2:

1. G00 – COVER SHEET

   B. Added Vicinity Map

2. A0101 SERIES SHEETS:

   A. Add key notes:

      1. 21 ACCESS PANEL

      2. KNOX BOX – RECESSED

3. A0101C – LEVEL 01 PLAN – AREA C

   A. Add plan detail callout 6/A0423 at column K5 and 5.2

4. A0101D – LEVEL 01 PLAN – AREA D

   A. Add Access Panel in Staff Toilet room 113, locate under hand dryer, add keynote 21 pointing at location.

   B. Add Recessed Knox Box at main entry, add keynote 22 pointing at location.

5. A0102A – ROOF PLAN – AREA A

   A. At storm shelter roof, at two roof drain location, modify note to read: RD, SEE PLUMBING AND STRUCTURAL

   B. At storm shelter roof, at two vents through roof locations, modify note to read: VENT THROUGH ROOF, IN PIPE CURB, SEE PLUMBING AND STRUCTURAL

   C. At storm shelter roof, at exhaust fan location, modify note to read: EXHAUST FAN, ON ROOF CURB, SEE MECHANICAL AND STRUCTURAL

   D. At storm shelter roof, at two relief hood locations, modify note to read: RELIEF HOOD, ON ROOF CURB, SEE MECHANICAL AND STRUCTURAL

6. A0102B – ROOF PLAN – AREA B

   A. Roof area above Boiler Room, at Vent Through Roof, modify note to read: VENT THROUGH ROOF IN THIMBLE, SEE MECHANICAL

7. A0102C – ROOF PLAN – AREA C

   A. add section detail callout 3/A0453 at column K5 and 5.2

8. A0102D – ROOF PLAN – AREA D

   A. Roof area above Washer/Dryer room 110, modify note to read: DRYER VENT DOWN THROUGH ROOF CURB, SEE MECHANICAL

9. A0400 SERIES SHEETS:

   A. Add general notes to read (This information amends notes tagged in details):

      1. FLUID APPLIED MEMBRANE AIR BARRIER IS TO BE USED FOR ALL CMU SUBSTRATES. USE TRANSITION STRIP OVERLAPPING THE FLEXIBLE FLASHING AND SEALING AGAINST FLUID APPLIED MEMBRANE AIR BARRIER.
      2. MODIFIED BITUMINOUS SHEET AIR BARRIER IS TO BE USED FOR ALL COLD FORM METAL FRAMED GYPSUM SHEETING SUBSTRATES. ALSO USE AS A TRANSITION FROM FLUID APPLIED AIR BARRIER TO SEAL AGAINST ADJACENT MATERIALS PER SPECIFICATION

10. A0401 – WALL SECTIONS

    A. Wall section 5/A0401, add tag elevations at openings:

       1. B/ OPENING AT 102’-0”

       2. T/ OPENING AT 112’-0”

       3. B/ OPENING AT 114’-8”

       4. T/ OPENING AT 118’-8”

11. A0452 – EXTERIOR SECTION DETAILS

    A. Detail 2/A0452 add note at anchor into partial height CMU partition to read: SEE STRUCTURAL FOR DESIGNED ANCHORS

Volume 3:

1. G000 – COVER SHEET

   B. Added Vicinity Map

2. E0101A – LEVEL 01 LIGHTING PLAN – AREA A

   A. General Note A updated to read : PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS. AVOID BUNDLING CONDUIT FEEDERS IN CLOSE PROXIMITY SO THAT THE SHELTER ENVELOPE IS NOT DEGRADED OR THE PENETRATION FALLS INTO THE CONDITION AS DESCRIBED ABOVE.

3. E0402 – ENLARGED PLANS

   A. General Note B updated to read : PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS. AVOID BUNDLING CONDUIT FEEDERS IN CLOSE PROXIMITY SO THAT THE SHELTER ENVELOPE IS NOT DEGRADED OR THE PENETRATION FALLS INTO THE CONDITION AS DESCRIBED ABOVE.

4. E0403 – ENLARGED PLANS

   A. General Note A updated to read : PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS. AVOID BUNDLING CONDUIT FEEDERS IN CLOSE PROXIMITY SO THAT THE SHELTER ENVELOPE IS NOT DEGRADED OR THE PENETRATION FALLS INTO THE CONDITION AS DESCRIBED ABOVE.

ATTACHED:

1. Pre-Bid Meeting Minutes and attachments

2. Bidding RFI Report

SPECIFICATIONS:

1. AIA A701
2. BID FORM

DRAWINGS – VOLUME 1

3. C21 – DETAIL

   A. Drawing C21-DETAILS has been revised and is being reissued as an attachment to this Addendum

2. S0101

   A. New sheet for aid in building layout.

3. S0101.A

   A. Revised footing configuration at 0.5-L and 0.5-K.2

   B. Added/revised dimensions

   C. Added note

4. S0101.B

   A. Removed erroneous grid line

   B. Revised dimension

5. S0101.D

   A. Added dimensions

6. S0102.A

   A. Added dimension string

   B. Added sheet note

7. S0102.B

   A. Added dimension strings

   B. Added sheet note

8. S0102.C

    A. Added plan details

    B. Added sheet note

9. S0102.D

    A. Added plan details

    B. Added sheet notes

10. S0200.A

    A. Added perimeter slab bars

    B. Added not regarding slab reinforcing

    C. Added notes at no-shelter walls intersecting shelter walls

11. S0200.B

    A. Added/relocated shroud framing at small diameter roof penetrations

    B. Added sheet note

12. S0200.C

    A. Added detail 4

    B. Revised detail 1

    C. Revised load notes to match STR calculations

13. S0200.D

    A. Revised slab condition at details 1-4, 19

    B. Added note for chairs/bolsters at details 5-6, 8-9, 11-15, 17, 21

    C. Added note for pour stops/formed edge at details 6, 8, 12-15, 21

    D. Added note for A706 bars at details 6, 14, 17

    E. Revised detail 18 to show bridging termination at beam

14. S0501

    A. Revised bearing plate dimensions at details 14-15

    B. Revised masonry rebar at detail 15

    C. Added dimension to detail 18

15. S0505

    A. Added note s to detail 15

16. S0506

    A. Added detail 9

DRAWINGS – VOLUME 2

4. G00 – COVER SHEET

    A. Drawing G00 – COVER SHEET has been revised and is being reissued as an attachment to this Addendum

5. A0101A – LEVEL 01 PLAN – AREA A

    A. Drawing A0101A_LEVEL 01 PLAN – AREA A has been revised and is being reissued as an attachment to this Addendum

6. A0101B – LEVEL 01 PLAN – AREA B

    A. Drawing A0101B_LEVEL 01 PLAN – AREA B has been revised and is being reissued as an attachment to this Addendum

7. A0201 – ENLARGED PLANS – TOILET ROOMS

    A. Drawing A0201 – ENLARGED PLANS – TOILET ROOMS has been revised and is being reissued as an attachment to this Addendum

8. A0311 – EXTERIOR ELEVATIONS

    A. Drawing A0311 – EXTERIOR ELEVATIONS has been revised and is being reissued as an attachment to this Addendum

9. A0312 – EXTERIOR ELEVATIONS

    A. Drawing A0312 – EXTERIOR ELEVATIONS has been revised and is being reissued as an attachment to this Addendum

10. A0423 – EXTERIOR PLAN DETAILS

    A. Drawing A0423 – EXTERIOR PLAN DETAILS has been revised and is being reissued as an attachment to this Addendum

11. A0453 – EXTERIOR SECTION DETAILS

    A. Drawing A0453 – EXTERIOR SECTION DETAILS has been revised and is being reissued as an attachment to this Addendum

12. A1006 – DOORS & BORROWED LIGHTS SCHEDULE

    A. Drawing A1006 – DOORS & BORROWED LIGHTS SCHEDULE has been revised and is being reissued as an attachment to this Addendum

13. A1200 – GENERAL FINISH NOTES & MATERIAL LEGEND

    A. Drawing A1200 – GENERAL FINISH NOTES & MATERIAL LEGEND has been revised and is being reissued as an attachment to this Addendum

14. A1231A – LEVEL 01 FINISH PLAN – AREA A

    A. Drawing A1231A – LEVEL 01 FINISH PLAN – AREA A has been revised and is being reissued as an attachment to this Addendum

15. A1231B – LEVEL 01 FINISH PLAN – AREA B

    A. Drawing A1231B – LEVEL 01 FINISH PLAN – AREA B has been revised and is being reissued as an attachment to this Addendum

16. A1231C – LEVEL 01 FINISH PLAN – AREA C

    A. Drawing A1231C – LEVEL 01 FINISH PLAN – AREA C has been revised and is being reissued as an attachment to this Addendum

17. A1231D – LEVEL 01 FINISH PLAN – AREA D

    A. Drawing A1231D – LEVEL 01 FINISH PLAN – AREA D has been revised and is being reissued as an attachment to this Addendum

DRAWINGS – VOLUME 3

1. P0101.D – UNDERGROUND & LEVEL 01 SANITARY, VENT & STORM PLAN – AREA D

    B. Drawing P0101.D is being issued as an attachment to this Addendum.

2. P0303 – ENLARGED PLUMBING PLAN

    A. Drawing P0303 is being issued as an attachment to this Addendum.

3. M0101B – HVAC DUCTWORK PLAN

    A. Exhaust airflow values were revised to exhaust fans EF-2, EF3, EF-4, and EF-5.

    B. Exhaust duct mains were revised to 8x8 for EF-4 and EF-5.

4. M0101D – HVAC DUCTWORK PLAN

   A. Exhaust airflow values were revised to exhaust fans EF-6.

   B. Added return air transfer air duct connection to admin. offices.

   C. C.A.I. for cloth's dryer was added and dry vent size was up-dated.

   D. Added keyed note #3

5. M0102B – HVAC DUCTWORK PLAN

   A. Expansion loop for hot water piping was added to plans.

   B. Added keyed note #3

6. M0102D – HVAC DUCTWORK PLAN

   A. C.A.I. for cloth's dryer was added and dry vent size was up-dated.

   B. Added keyed note #3

7. M0201A – HVAC PIPING PLAN

   A. Expansion loop(s) for hot water piping were added.

   B. Added keyed note #2

8. M0201B – HVAC PIPING PLAN

   A. Expansion loop(s) for hot water piping were added.

   B. Added keyed note #1

   C. Branch HWS & HWR piping was added to server boiler room unit heater.

9. M0301 – ENLARGED PLAN

   A. Updated keyed note #1

   B. Added keyed note #5

   C. Removed HWS & HWR piping serving VAV-A209

   D. Branch HWS & HWR piping was added to server boiler room unit heater.

10. M0401 – Riser diagram

    A. Eliminated/removed by-pass control valve at/near pressure sensor for HW system.

11. M0402 – Riser diagram

    A. Updated air separator model number to a RL-5G.

12. M0501 – Schedules

    A. Fin-tube schedule: added remark #5.

    B. Unit heater schedule: Added remark #4 to fin-tube schedule, and added missing UH-7 to schedule.

13. M0502 – Schedules

    A. Pump schedule: Revised HWP-1 & HWP-2 model number and remark # 3.

    B. Computer room AC schedule: removed remark #3 from schedule and indicated respective remarks to each unit.

    C. Cabinet Heater schedule: added remark #3 to schedule.

14. M0601 – Flow and Control Diagrams

    A. #2: Added sequence for VAV-A209 to VAV sequence.

    B. #3: Added heating position point.

    C. #4: Added damper command point and updated fan number for fan sequence.

15. M0701 – Details

    A. #2: removed fire damper at kitchen hood.

    B. #4: removed fire damper for ducted transfer air connection.

16. E0201A – LEVEL 01 POWER AND SYSTEMS PLAN – AREA A

    A. Drawing E0201A is being issued as an attachment to this Addendum.

17. E0201B – LEVEL 01 POWER AND SYSTEMS PLAN – AREA B

    A. Drawing E0201B is being issued as an attachment to this Addendum.

18. E0521 – POWER RISER DIAGRAMS

    A. Drawing E0521 is being issued as an attachment to this Addendum.

19. E0601 – LIGHTING SCHEDULES

    A. Drawing E0601 is being issued as an attachment to this Addendum.

20. E0621 – POWER SCHEDULES

    A. Drawing E0621 is being issued as an attachment to this Addendum.

21. E0641 – SYSTEM SCHEDULES

    A. Drawing E0641 is being issued as an attachment to this Addendum.

22. E0721 – POWER DETAILS

1. Drawing E0721 is being issued as an attachment to this Addendum.

END OF ADDENDUM NO. 2

CANNONDESIGN

MEETING NOTES

Project Name	Rockford Public Schools 205 - New Elementary School A – Cherry Valley, IL
Project Number	5005.00
Date	January 25, 2016
Time	9:30 a.m.
Place	RPS 205 Administration Building, 501 7th Street, Rockford, IL 61104
Attendees	Refer to sign-in sheet
Attachments	RPS 205 Opening Statement, SSR Prebid Agenda and Presentation, Sign-in Sheet

Mandatory Prebid Meeting
Bid No. 17-25
Rockford Public School District #205
New Elementary School A – Cherry Valley, IL

The following is a summary of the above-mentioned meeting.

A. Introduction – Ragnar Benson Construction read aloud an opening statement for the project; refer to the attached.

1. Meeting Sign-In Sheet – all attendees were instructed to sign in and provide contact information.
2. Date / Time / Place of Bid Opening –
    a. Bids will be received no later than 2:00 p.m. on Wednesday, February 15, 2017.
    b. Bidders will need to check in on the 3rd floor of the Administration Building to gain access to the 6th floor to deliver bids. Once collected, bids will be publicly opened and read aloud in the lower level of the Administration Building.
    c. RPS Bid Number: 17-25
    d. Refer to specifications front end documents for documents to be submitted with bid.
    e. All Requests for Information (RFIs) are to be submitted to the District's Purchasing Department; attention: Tamara Pugh, RPS 205 tamara.pugh@rps205.com
3. Key Individuals –
    a. Owner – Rockford Public School District #205
        1) Tamara Pugh, RPS 205 tamara.pugh@rps205.com
        2) Kevin Behling, RPS 205 – Executive Director of Design & Construction
        3) Todd Schmidt, RPS 205 – Chief Operating Officer
    b. Architect/Engineer – CannonDesign / Arc Design Resources (Civil)
        1) Keri VanSant, CannonDesign – Project Manager

2) Sanja Residbegovic, CannonDesign – Project Architect

3) Jeff Linkenheld, Arc Design Resources – Principal

4) Jason Stone, Arc Design Resources – Project Engineer

c. Program Manager – Ragnar Benson Construction

1) Paul Paolini, Project Executive

2) Dennis Williams, Senior Project Manger

3) Craig Elliott, Senior Project Manager

d. Commissioning Agent – Smith Seckman Reid

1) Laura Ludwig, Principal

B. Project Procedures –

1. Bid Date/Time: **Wednesday, February 15, 2017 @ 2:00 p.m.**
2. Tax Exempt ID: E9992-3386-07
3. Bid RFI Procedure – Email Only – All correspondence MUST be sent to Tamara Pugh
4. Bid Documents – Architectural Plan Issue Date 1/4/17
5. Bidding Requirements –

a. Deliverables

1) Check List

2) Bid Form Complete

3) AIA A305 Contractor Qualification Statement

b. 5% Bid Bond or a Cashier's Check MUST accompany the Bid

*NOTE: Bid Bond or Cashier's Check must be made payable to the Owner **not** CannonDesign.*

c. Performance and Payment Bonds will be required for 100% of the bid value for the project.

d. Alternates – Provide pricing for **all** alternates. Alternates 1A, 1B, 2, 3 and 4 pricing will be valid for a period of 90 days after notice of award. Alternates 5 and 6 will be valid for a period of 30 days after notice of award.

e. Alternates identified in Section 012300 of Specifications:

1) Alternate #1A – ADD - Kindergarten Rooms Cubbies

2) Alternate #1B – ADD - Kindergarten Rooms Wall Cabinets

3) Alternate #2 – ADD - Display Cases & Tack Surfaces

4) Alternate #3 – ADD - Library Casework

5) Alternate #4 – ADD - Increase Generator Capacity

6) Alternate #5 – ADD - Additional Parking Spaces @ Bus Loop

7) Alternate #6 – ADD - Water Main Extension

f. It is the Contractor's responsibility to visit the project site and review contract documents prior to bidding the project.

6. Addenda Status

a. Addendum #1 was issued on January 24, 2017.

b. Addendum #2 will be issued on January 27, 2017.

c. Last day for RFIs is February 8, 2017.

d. Last addendum will be issued by February 10, 2017.

7. Faxed/emailed bids will **NOT** be accepted.

8. Changes to the bid documents will be executed via addendum only. Minutes from the Prebid Meeting will be included in Addendum #2.

9. Permits & Fees

a. Building permit will be issued by the Regional Office of Education and will be obtained by RPS 205.

b. Notice of Intent by RPS 205 – Permit has been received.

c. RRWRD I/C Permit Application will be need to be completed and submitted by the Contractor. The cost of the application will be a reimbursable expense for the Contractor.

d. RRWRD Connection/Flow charges will be paid by the Contractor as a reimbursable expense.

e. Winnebago County Health Department permit application will be completed by the Contractor. The fee will be a reimbursable expense.

f. ComEd permanent service cost will be paid directly by RPS 205.

g. Nicor permanent service cost will be paid directly by RPS 205.

h. Village of Cherry Valley water connection fees will be paid by contractor as a reimbursable expense; Village has approved has approved and project is at EPA for water main approval.

C. Project Overview – Arc Design Resources and CannonDesign provided a general overview of the site and building, respectively.

1. Site

a. Located southwest of the intersection of Perryville Road and Harrison Avenue.

b. Absolutely no construction access will be allowed from Riddelle Lane. The new access road from Perryville Road will be utilized as the construction access for the site.

c. The area of Riddelle Lane will include watermain service connection work; advance notification of work in this area will be required for residents.

d. As part of a separate project, the County will be conducting a road widening and installation of a left-turn lane at Perryville Road.

e. Lime stabilization is identified on the Drawings for the school building pad. **UPDATE: Area of lime stabilization will be updated via addendum to include a portion of the parking lot.**

f. Undercuts are identified for portions of the parking lot and bus loop as allowances. Prior to any undercutting, specifications indicate requirements for continual discing and drying for 3 consecutive days. **UPDATE: A revised undercut value of 695 CY for the north bus loop will be issued via addendum.**

g. Landscaped berms are identified on the west side of the site, as well as a detention pond at the northeast corner; the intent is for the site to balance for cut and fill. There are opportunities on the site to help with a balanced condition (detention area and north athletic fields).

h. A decorative plaza is indicated for the main entrance in the Drawings.

i. Utility routing was discussed and coordination/communications have been started with:

1) Com Ed – Permanent Service Installation – July 2017

2) Nicor

3) Cherry Valley Water Department - has approved and project is at EPA for water main approval.

4) RRWRD – the EPA permit has been received; the Contractor will be responsible for the I/C Permit Application; the Contractor's plumbing subcontractor must be licensed and bonded with the RRWRD prior to starting work on the project.

2. Building

a. New 86,300 SF elementary school; building is a 4-strand, K-5 school, with interior shared spaces.

b. Review documents for central roof design with clerestories and skylights indicated throughout the building.

c. Storm shelter and construction sequencing –

1) Storm shelter is designed to meet the ICC 500-2014 code requirements and has 12-inch thick, fully-grouted masonry walls. The District is utilizing a 3rd-party peer review firm for the design.

2) Contractors are required to review the specifications for special inspections and testing, as well as the "Quality Assurance Plan". Special protection for penetrations are identified in the Drawings; the Contractor is required to review all disciplines and coordinate trades, penetrations and opening protectives.

3) Once construction has begun on the storm shelter, it must be continuous until each trade is complete (no phasing).

4) The shelter is designed with systems to provide passive ventilation, lighting and plumbing/water for occupants for a minimum 2-hour time period following a storm event.

5) Contractors are required to review all documents to coordinate penetrations through roof and walls of shelter for all disciplines; not all penetrations may be indicated in the architectural drawings. Special opening protective details have been provided in the documents.

d. Glazed brick is identified in the documents for the kindergarten area; special shapes and multiple colors are identified.

e. A mechanical systems description was provided.

3. QA/QC

a. Called Inspections are required by the ROE and must be scheduled during construction

b. Testing requirements are identified in the documents.

c. Special inspections are identified and required for the storm shelter.

d. Commissioning will be required for building systems as identified in the documents. Refer also to attached presentation and agenda for additional information.

1) Refer to Specification Section 019113 for roles and responsibilities and Commissioning Plan information.

2) Building Start is the digital application/program that will be utilized for all commissioning activities.

3) A prefunctional checklist will be required by the Contractor.

4) Commissioning agent will review and backcheck testing and balancing performed by the Contractor.

5) Written authorization by the Contractor will be required prior to the start of final functional performance testing.

6) “Beta” testing is to be completed prior to functional testing. If system is not operating as designed, Contractor can anticipate back charges for additional trips to the project site.

7) Peak load conditions will be tested for summer and winter; 2-day duration for seasonal testing of building systems.

8) A 10-month warranty review will be required for all commissioned building systems.

9) The District will have graphics completed for the controls contractor in advance of functional testing.

4. Project Management and Coordination

a. Project Schedule and updating – will be required for each pay request submission

b. Project supervision and management requirements (full time) – both site superintendent and project manager must be onsite and dedicated solely to this project.

c. Mock-ups and Pre-installation meetings – are identified in the documents; masonry mock-ups are to be standalone (in-wall mock-ups are not allowed).

d. Brick Masonry – special finishes and shapes are identified in the documents.

e. Meetings – Weekly meetings will be conducted at project site.

f. Owner and Architect trailer – identified and specified in the documents; separate internet connections shall be provided for this trailer from the Contractor's use.

g. Change Order procedures / Labor rates – Prevailing wages are required; all required documentation will need to be submitted before any change orders are processed.

h. Web-based submittal system / Development of Submittal Schedule – Submittal Schedule must be submitted for review and approval within 60 days of Notice of Award.

i. Schedule of Values / Stored Materials – Schedule of Values must be submitted for review and approval within 60 days of Notice of Award; breakouts will be required for each trade subcontractor for materials and labor.

j. The Contractor will be responsible for managing and maintaining the project's Storm Water Pollution Prevention Plan (SWPPP).

k. A 10% retainage will be held until the end of the project; no partial release of retainage will be granted.

l. All subcontractors must be capable of performing and completing work within the schedule identified.

5. Contractor Parking Requirements – No access to site will be allowed from Riddelle Lane.

6. Staging/material storage requirements to be established by the Contractor; suggestions for fencing and staging are provided in the Drawings.

7. Use of Utilities – Temporary power and use costs, permanent electric service use costs, and gas service use fees shall be the responsibility of the Contractor.

8. Site safety and working times – Contractor is solely responsible for site safety and security. Contractor shall review and adhere to noise ordinances and construction working hours for the Village of Cherry Valley.

9. Project Milestone Dates

   a. CORRECTION: Award Letter is anticipated for March 1, 2017, following Board of Education award on February 28, 2017.

   b. CORRECTION: Start Date is anticipated for March 2, 2017.

   c. Commissioning Pre-Construction Meeting – April 17, 2017

   d. Commissioning Functional Testing – April 16, 2018

   e. Substantial Completion – May 15, 2018

f. Project Final Completion – June 15, 2018 **FIRM DATE**; RPS 205 will be moving in at this time in preparation for school year.

g. **CORRECTION:** Final Commissioning for Heating System – **Winter 2018/2019**

D. Miscellaneous Project Items –

1. Closeout Process – all submittals shall be digital; the Contractor will be responsible for coordinating with the District's printing company (BHFX) for filing of all project-related documents.

2. Criminal History Documentation – Fingerprinting is not required.

3. A cleared employee list must be provided by the Contractor for its employees, as well as the employees of any subcontractors. A search of the Illinois Sexual Predator and Illinois Murder and Violent Offender Against Youth databases shall be completed for every worker on the project site.

4. Owner Furnished Materials – review responsibility matrix in the Electrical Drawings for additional information. Contractor is responsible for receiving the material, storing it and disposal of debris.

5. Post Bid Deliverables

   a. Project Manager résumé

   b. Project Superintendent résumé

   c. Project Schedule of Values to be submitted within 60 days of award letter

   d. Project labor rate schedule years 2017 and 2018

   e. Project Submittal Schedule to be submitted within 60 days of award letter

E. General Questions –

1. The Project Budget is within the range of $17M to $18M.

2. The requirement for full-time project management and job superintendent is required only for the General Contractor, not subcontractors.

3. There are no liquidated damages for the project.

4. The Bid Form must be 100% complete; RPS 205 will review and verify requirements for submittal of a duplicate form.

5. This is not a LEED-certified project.

6. The RRWRD has permitted the project for flows. The sanitary line is considered a private line.

7. Any cost associated for permitting required for the access road connection at Perryville Road will be a reimbursable expense to the Contractor.

8. The Contractor shall utilize a web-based submittal system. The basis-of-design is "Submittal Exchange". The Contractor can submit a substitution request prior to bidding utilizing the substitution request form included in Addendum #1 for other web-based submittal systems. The cost of any web-based submittal system shall be the responsibility of the Contractor.

9. Builders Risk Insurance will be carried by RPS 205; RPS 205 will review and confirm responsibility for payment of deductibles.

10. Project is not utilizing any state or federal funding.
11. Contractor shall begin work immediately following receipt of Notice of Award letter.
12. The SWPPP has been developed by Arc Design Resources. The Contractor is responsible for management and maintenance of the SWPPP; permit has been received.
13. Owner-furnished/Contractor-installed items do not include furnishings and equipment other than what is indicated in the documents.
14. Prevailing wages are required for this project.
15. There are no specific minority participation goals or requirements for this project.
16. Review specifications for payment procedures and requirements for certified payroll, waivers, draft copies and payment schedule. Pay applications will not be processed without submittal of waivers.
17. The Quality Assurance Plan indicates special requirements for certifications and documentation; submit all RFIs in writing for clarification.
18. Determination for release of CAD files for use in preparing bid is forthcoming.

F. Site Visit – Following the meeting, Contractors were encouraged to visit the site on self-guided tours.

To the best of my knowledge, the above items were discussed. Should there be any additions or corrections, please advise CannonDesign in writing within seven days. We will consider these meeting notes an accurate record for proceeding with the necessary “actions”, unless informed otherwise as noted.

Prepared by,

Keri VanSant
CannonDesign

ROCKFORD PUBLIC SCHOOLS
17-25 New Elementary School A
Pre-Bid Meeting Sign-In Sheet
Wednesday January 25, 2017 at 9:30 AM

PRE-BID CONFERENCE OPENING STATEMENT

Welcome to the mandatory pre-bid conference for IFB 17-25 New Elementary School A for the Rockford Public Schools.

The purpose of this meeting is to receive input, comments, questions, clarifications and suggested changes relative to this solicitation. As a reminder, the only acceptable changes to the Bid/RFP are formal Addendums published by the RPS Purchasing department. Additionally, the Addendum may address other issues identified by the School District.

The goal of today's meeting is to increase your knowledge of the solicitation as it is written and provide an information mechanisim in which you may advise the School District of any changes it should make. Consequently, any changes you wish the Rockford Public Schools to consider must be submitted in writing to the Purchasing department before the deadline as expressed in the solicitation.

We will try to answer as many of the questions as possible. If we cannot answer a question today, we will defer that answer to the published Addendum. Additionally, minutes from this pre-bid conference will be published in the Addendum.

- Bid Opening is scheduled for Wednesday, February 15, 2017 at 2:00 PM Rockford Board of Education, 6th floor Conference Room. Late bids will not be accepted. Faxed or emailed bids will not be accepted.

- Board Approval February 28, 2017

- Bid RFI Procedures – Email Only – All correspondence during the bid process MUST be sent to Tamara Pugh, Purchasing Process Manager at tamara.pugh@rps205.com Last RFI will be accepted until February 8th at 12 pm. Last addendum will be issued by February 10th at 12 pm.

- Addendums will be emailed to all attendees at the pre-bid conference, posted on the RPS website, Demand Star and the 3 printing companies.

- PLEASE reference the **REQUIRED FORMS CHECK LIST** for all documents that must be submitted with your bid offer form. All forms must be properly completed, signed and submitted or your bid will be deemed non-responsive. 5% Bid bond for the Base bid to be included.

I will turn it over to the Project Manager for summary of the project.

CHERRY VALLEY – ROCKFORD, IL
COMMISSIONING PRE BID MEETING AGENDA
January 25, 2017
Meeting Location: Rockford Administration Building

I. OVERVIEW OF COMMISSIONING (Cx) PROCESS within Contract Documents

A. Commissioning Process Goals and Benefits

1. Documents completion of project *per construction documents*
2. Commissioning scope defined in **Specification 019113.**
3. Ensures Owner is prepared to operate and maintain the building upon occupancy
4. Owner receives building with systems functioning properly and efficiently
5. Reduces Contractor call-backs and warranty phase expense
6. Architect/Engineer receives independent verification that systems are installed and functional per design intent.

B. Commissioning (Cx) Plan

1. The Construction Document (CD) Cx Plan will be issued to the Project Team. The Commissioning Plan includes an overall outline of all commissioning activities as well as equipment Prefunctional Checklists (PFC) and Functional Performance Test (FPT) scripts.
2. The Commissioning Plan is a "living" document and will be revised as required based on any changes made during the submittal and construction process.

3. BUILDING START ELECTRONIC COMMISSIONING PLATFORM

- Building Start is a paperless digital platform we use for managing all commissioning aspects of your project. Using iPads, Android devices or Windows based devices, SSR uses this system to share construction information and capture on-site observations and construction feedback using the cloud.

- Building Start is a real-time system for sharing project information, with data and notes immediately available for the Project Team's use. Building Start can assist the trades in sequencing the order of Quality Control checks and equipment startups, and by tracking completion and issues, we are able to use this tool to identify problems that could impact the construction schedule and keep the project on track.

- GC, OR, OWNER, mechanical and electrical subcontractors will be given access to Building Start. All prefunctional and functional performance test scripts, all issues and Master Issue List will be within Building Start.

- Once the Cx Plan has been developed and uploaded to Building Start, SSR will provide a training session on its use and reporting features.

- Building Start session: Individuals with direct knowledge and responsibility for the installation of the equipment and completion of the prefunctional checklists must be available for 1 hour training. Subcontractor must come prepared with iPad or Android device for their own use.

C. Equipment/Systems to be Commissioned

- PLUMBING:
  - Domestic Water Booster Pump (if any).
  - Domestic Hot Water Heaters, Recirculation Pumps and associated Thermostatic Mixing Valves.
  - Any Building Automation System (BAS/EMS) integration or monitoring of commissioned Plumbing equipment/systems.
  - BAS System trending data for the Commissioning Performance Monitoring, Optimization and Reporting (Cx-PMOR) System for 100% of the equipment monitored or controlled by the BAS.

- MECHANICAL:
  - Heating Hot Water System including the Boilers, Hot Water Pumps, Hot Water System Chemical Treatment, and associated components.
  - Rooftop Units.
  - Computer Room Cooling Units (indoor and outdoor components).
  - Exhaust Fans.
  - Kitchen Hood and Exhaust Fan.
  - Variable Air Volume Terminal Units – 25% sampling rate for FPTs.
  - Unit Heaters and Cabinet Heaters – 25% sampling rate for FPTs.
  - Radiant Panels – 25% sampling rate for FPTs.
  - Building Automation Systems ('BAS/EMS') for all commissioned equipment including graphics, system integration components, and network tie-ins to the existing campus BAS.
  - BAS System trending data for the Commissioning Performance Monitoring, Optimization and Reporting (Cx-PMOR) System for 100% of the equipment monitored or controlled by the BAS.

- ELECTRICAL:
  - Lighting and Daylighting Control Systems (interior and exterior).
  - Emergency Power including the Emergency Generator and Automatic Transfer Switches. Commissioning scope only includes testing operation of Emergency Generator and Transfer Switches, Alarms and Annunciation. Commissioning does not include "Black-Site Test" verification of operation of equipment/systems on emergency power (loss of normal power – transfer to emergency power – restoration of normal power).
  - Any Building Automation System (BAS/EMS) integration or monitoring of commissioned Electrical equipment/systems.
  - BAS System trending data for the Commissioning Performance Monitoring, Optimization and Reporting (Cx-PMOR) System for 100% of the equipment monitored or controlled by the BAS.

D. Prefunctional checklists

1. GC and subcontractors with direct knowledge of the installation are to complete the prefunctional checklists that are within the Cx Plan which will be located in the cloud through Building Start. SSR will conduct site visits to backcheck contractor completion of installation checklists.

E. Equipment Start-Up, Control System debugging and Test and Balance Work

1. GC / subcontractors are responsible for equipment/systems start-up.
2. Control system subcontractor is requested to submit a 100% complete start-up plan including point-to-point verification to CxA prior to start of functional testing. Controls subcontractor will

be required to export data points to the cloud for third party trending. Please refer to the specification section for further details of this requirement.

3. GC to forward to CxA copy of final TAB report (at least in draft form) prior to functional testing execution.

4. **The subcontractors should completely check out and operate the equipment/systems prior to SSR functional performance testing to insure correct operation. Subcontractors to fill out FPT checklists as required to verify that various control sequences are operating correctly prior to SSR FPT verification. SSR FPT verification is not intended to be "beta" testing for the control systems. Any testing or retesting as a result of incomplete or failed installation will be charged to the contractor.**

5. GC to notify CxA when all start-up activities, HVAC control work, and test and balance work is complete and systems are ready for functional testing.

F. Functional Performance Testing (FPT)

1. SSR will coordinate final testing dates and schedules for functional testing with GC PM / subcontractors.

2. During SSR FPT verification testing the various equipment/system procedures are to be demonstrated by contractors and witnessed/verified by SSR.

G. Commissioning Meetings

1. In general, SSR will attempt to discuss any other commissioning related activities (scheduling of site visits to complete checklists, MDL items, etc.) in conjunction with the subcontractor progress meetings. SSR will call other commissioning only meetings to discuss/resolve any lingering commissioning related activities as required. We understand how busy everyone is and we will only schedule additional commissioning specific meetings as a last resort to resolve an issue.

COMMISSIONING REQUIREMENTS

1. Specification Section 019113
2. Building Start Commissioning Plan and contractor completion of prefunctional checklists
3. Contractor requirements to remedy/resolve issues
4. Readiness for functional testing – TAB, BAS points emailed to cloud for third-party trending, completed FPTs (beta testing)
5. Functional Testing
6. Opposed season testing & Warranty phase

ROCKFORD PUBLIC SCHOOLS
17-25 Rockford Public School District 205 School A, Zone 2
Pre-Bid Meeting Sign-In Sheet
Wednesday, January 25, 2017 at 9:30 a.m.

ROCKFORD PUBLIC SCHOOLS
WORLD-CLASS EDUCATION FOR ALL CHILDREN

PRE-BID MEETING SIGN-IN SHEET

IFB # 17-25 Rockford Public School District 205 School A, Zone 2

Wednesday, January 25, 2017 9:30 am (CST)

Printed Name	Company Name	Company Address	Telephone	E-mail
MICHAEL RADZEVICH	GEORGE SOLLITT CONST. CO	790 N. CENTRAL AVE WOODDALE IL. 60191	630-860-7333.	ESTIMATING@sollitt.COM mradzevich@sollitt.com.
Ryan Steeno	IHC Construction, LLC	1500 executive drive Elgin IL 60123	847-742-1516	estimating@IHC construction.com
Tom Rizzio	FH Paschen	5515 N River rd Chicago	773-444-3474	TRizzio@FHPaschen.com
Robert Zitek	FH Paschen		773-444-3474 773-693-0064 fax	bzitek@fhpaschen.com
Michele Drorak	SWEDBERG ASSOCIATES	1135 E STATE ST SYCAMORE IL	815 895 9116	mdrorak@swedbergs.com
Ryan Hathaway	N-TRAIC GROUP	590 MATERIAL AVE	815-228-3600	rhathaway@ntraicgroup.com
CRAIG MANDEL	MARTAM CONSTRUCTION	1200 GASKET DRIVE, ELGIN, IL	847-608-6800	CRAIG@MARTAM.com
MIKE BENSTENT	MADISON Construction	15657 South 70th Ct. ORLAND PK IL.	708-673-6888	MIKE.benstent@MADISONconstruction.NET

ROCKFORD PUBLIC SCHOOLS
17-25 Rockford Public School District 205 School A, Zone 2
Pre-Bid Meeting Sign-In Sheet
Wednesday, January 25, 2017 at 9:30 a.m.

Printed Name	Company Name	Company Address	Telephone	E-mail
Jeff Bockhup	Stenstrom General Const.	2420 20th St RKFD 61104	815-398-2420	jeffb@rstenstrom.com
DAVE DINGES	STENSTROM GENERAL CONTRACTOR	2420 20th ST. ROCKFORD, IL	815-398-2420	DAVED@RSTENSTROM.COM
Brian Girgen	JP Cullen & Sons	330 E Delevan Drive Janesville, WI	608-754-6601	brian.girgen@jpcullen.com
DAN LEI	MORSE ELECTRIC	500 W. SOUTH ST. FREEPORT	815-266-4217	dlei@themorsegroup.com
Tony Gilbertson	FISCHER EXCAVATING	1567 HEINOE RD FREEPORT	815-233-3232	TGILBERTSON@FISCHERINC.COM
Jason Stone	Arc Design Resources	5291 Zenith Parkway	815-484-4300	jstone@arcdesign.com
TODD Byxbe	Miller Engineering	1616 SOUTH Main ST Rockford, IL 61102	815-963-4878	TByxbe@mecogroup.com
Steven Reed	The Morse Group	1390 Gateway blvd Beloit, WI 53511	608-449-2456	sreed@themorsegroup.com
KERI VANSANT	CANNON DESIGN	225 N. MICHIGAN, CHICAGO, IL		KVANSANT@CANNONDESIGN.COM
SANJA RESIDBEGOVIC	CANNON DESIGN	" "		SRESIDBEGOVIC@CANNONDESIGN.COM
AL KUPSIK	SCHENNER CONSTRUCTION	601 BLACKHAWK Dr. BURLINGTON, WI. 53105	262-221-6239	AKUPSIK@SCHENNERCONSTRUCTION.COM

ROCKFORD PUBLIC SCHOOLS
17-25 Rockford Public School District 205 School A, Zone 2
Pre-Bid Meeting Sign-In Sheet
Wednesday, January 25, 2017 at 9:30 a.m.

Printed Name	Company Name	Company Address	Telephone	E-mail
AL KUPSIK	SCHERREN CONST.	601 BLACK HAWK	262-539-3100	AKUPSIK@SHERRENCONSTRUCTION.COM
JAKE DYKSTRA	CORD CONSTRUCTION CO.	1322 E. STATE ST. ROCKFORD 61104	815/965-6630	DYKSTRA@CORDCONSTRUCTION.COM
NICK REDIESKE	CORD CONSTRUCTION	1322 E. STATE ST ROCKFORD, IL 61104	815-965-6620	REDIESKE@CORDCONSTRUCTION.COM
KEVIN GUGLIUZZA	SCANDROLI CONSTRUCTION	855 N. MADISON ST RKFD IL 61107	815 962 4037	KEVIN@SCANDROLI.COM
JEFF LINKENHELD	ARC DESIGN RESOURCES	5291 Zenith L.P. 61111	815-484-4300	jlinkenheld@arcdesign.com
JAYMEJ CROZIER	ABSOLUTE FIRE PROTECTION	5279 28TH AVE ROCKFORD	815-397-6500	JCROZIER@ABSOLUTE-FIRE.COM
CALVIN FOX	Pit Stop JANITORIAL SERVICE, INC	14810 S. CICERO OAK FOREST, ILL	708-808-4766	PitStopJanitorialService.(A)gmail.com

Bidding RFI Report

PROJECT: 5005.00 Rockford 205 - School A, Zone 2, Cherry Valley, IL
ADDENDUM 1/24/2016
ADDENDUM 1/27/2016

CANNONDESIGN

ID	From	Received	Response Date	Question	Answer
1	Karen Looker Stalker Sports Floors 1215 Waupaca St New London, WI 54961 800-831-8773 920-982-4811 Fax	1/20/2017_ email	1/27/2017	Subject: Substitution Request Stalker Sports Floors Dear Tamara, Stalker Sports Floors would like the opportunity to bid on your project: 17-25 School A Zone 2 New Construction. I have attached our manufactures specs and shop drawing, along with a substitutions request form. If additional information is require please let us know.	Refer to Addendum 02.
2	Todd Hoffman 4120 Enterprise Ave. #120 Naples, FL 34104 USA Tel.: 1-800-606-0756 Fax: 1-239-384-9061 Website: www.sunflexwall.com Email: t.hoffman@sunflexwall.com	1/20/2017_ email		In reviewing the project specifications for the Aluminum Framed Folding/Paired Panel System (08 41 14), NanaWall SL45 has been used as the basis of design and we ask for consideration as an allowed substitute. For your review I have attached pertinent information for our comparable SF50. Additionally, I am providing the following link for more specific product information: http://www.sunflexwall.com/products/fold-and-slide-systems/non-insulated-aluminum-system/sf-50/.	
3	Alesia Richey Arizona Courtlines, Inc. (ACI) 8742 North 78TH Avenue, Peoria, Arizona 85345 Tel. 623.939.8126 Fax. 623.939.2526 email. alesia@arizonacourtlines.com	1/23/2017_ email		As the Architect for the above – referenced project, please find the attached Request for Prior Approvals for the following Specification Sections Specification Section: 116623- Gymnasium Equipment	
4	Neal Swartz Cell Ph 502-396-6903 Project Engineer KE Fibertec NA Inc 2107 Emmorton Park Rd Ste 102 Edgewood MD 21040 email; ns@kefibertec.com	1/27/2017_ email		We are seeking to be listed as an approved equal on your project- Rockford Public School. This is in reference to fabric duct located on drawing M0102A and referenced in the specification section.	

ID	From	Received	Response Date	Question	Answer
5	Brian Girgen SENIOR ESTIMATOR p : 608.754.6601 f : 608.754.9171 e : brian.girgen@jpcullen.com www.jpcullen.com	1/26/2017_ email	1/27/2017	1. Supplementary Instructions to Bidder's Item#1.A states that proposals "shall be submitted in duplicate". With the volume of information required to fill out bidder's will need to cut-off internal bid receiving earlier in order to fill out all of the information in duplicate thus potentially raising the cost to the Owner (may not be able to include a close to bid time sub quote). Would the Owner consider only requiring (1) copy of the proposal?	1. Refer to Addendum 02.
				2. Supplementary Instructions to Bidder's Item#1.A states, "The sample proposal form bound into these specifications is for reference only and shall not be detached". We could find no such "sample proposal form". If the "sample proposal form" refers to the Bid Form and the various other forms to be included with the bid please note Supplemental Instruction to Bidder's item 3.C states "Proposal shall be made on the form provided and shall not be altered in any way". Please clarify if we are to use the Bid Form, etc. from the specifications or clarify what "sample proposal form" refers to.	2. Refer to Addendum 02.
				3. Included in the Specifications is an "Asbestos Notification" form. It states that we are to sign and acknowledge that a "fill in the blank" school contains asbestos materials and "we should not disturb" and " have been informed of the types and locations of this material". We found no reference to an Asbestos Report in the documents and am not quite sure how there could be one as it is a greenfield site. Please advise and clarify if there is a report and if this how this form should be filled out if it is required.	3. Refer to Addendum 02.
				4. Supplementary Instructions to Bidder's Item#4 states "Statement as to whether the bidder has adequate equipment to do the work properly and expeditiously". Supplemental Instruction to Bidder's item 3.C states "Proposal shall be made on the form provided and shall not be altered in any way". Please clarify where we are to add this statement to the proposal if it is required, or if it is required to be separate statement on separate page that a bidder is to include with the proposal.	4. Refer to Addendum 02.
				5. Supplementary Instructions to Bidder's Item#16 states "BEFORE A BID CAN BE CONSIDERED BY THE SCHOOL DISTRICT, THE ABOVE REFERENCED TAX IDENTIFICATION NUMBER MUST BE ON THE BID FORM IN THE SIGNATURE SECTION". On the actual bid from signature section there is no blank for FEIN, and Supplemental Instruction to Bidder's item 3.C states "Proposal shall be made on the form provided and shall not be altered in any way". Also note the W-9 form requests the same information and is to be included with proposal. Please clarify if we are to handwrite in at any location on the signature portion of the Bid Form our FEIN, if a line can be added to the Bid Form, or if it is even required on the Bid Form.	5. Refer to Addendum 02.
				6. On the Bid From page 5 it states that "Bidder is required to submit a list of reference with bid form. See attached document". We are unclear what the "attached document" refers to. Are we required to include reference directly attached to the actual Bid Form (and if so what types of references) or is the inclusion of references as required in Section Four of the AIA A305 – 1986 satisfy this requirement.	6. Refer to Addendum 02.
				7. The Required Bid Forms Checklist states that a W-9 Department of Treasury Internal Revenue Service form is to be submitted with the Bid Proposal. Included in the documents is a Rockford Board of Education "Substitute IRS Form W-9". Please clarify if it is acceptable to submit the Rockford Board of Education "Substitute IRS Form W-9" in lieu of an Internal Revenue Service W-9 form.	7. It is acceptable to submit the Rockford Board of Education "Substitute IRS Form W-9" in lieu of an Internal Revenue Service W-9 form.
				8. In the pre-bid meeting it was mentioned that there was no state funds being used for this project. Per Supplementary Instructions to Bidders item 15 – Employment of Illinois Workers on Public Works Act, it states among other things that 90% of labor needs to be Illinois labor if the unemployment is greater than 5% for any public works project that has state funding. Please confirm via addendum that this clause (#15) is not applicable to the project and strike from the documents.	8. The project is locally funded. The language in question cannot be removed from the documents. It is up to the bidder to determine what impact, if any, the language will have on their bid.
				9. Please review and see if it would be acceptable to submit the subcontractor listing after the bid is submitted. This would allow bidders to incorporate bids that arrive up to bid time and ultimately provide a lower cost for the overall project.	9. The breakout costs and subcontractor listing will need to be submitted at bid time. A maximum of 2 subcontractors per trade can be listed if needed.
6	Dan Lei Project Estimator The Morse Group | Morse Electric o:815.266.4217 c:815.509.7777 f:815.266.8917 dlei@themorsegroup.com	1/26/2017_ email	1/27/2017	Sheet E0521 shows the Electrical Power Riser Diagram, but no feeder schedule is shown. Will there be an electrical feeder schedule issued that shows the conduit and wire sizes required for each power feed for the electric panels, switchboard, generator, etc.?	Refer to Addendum 02.
7	Lisa Giannini Life Safety Hardware Consultants Lisa@lshc.org (847) 960-7360	1/26/2017_ email	1/27/2017	After reviewing the hardware specifications it appears that the specifications are proprietary. Only 1 manufacturer is listed in the hardware schedule. I would like to have Stanley Hardware be included in this specification. If you agree and would like to have a quote from us, please respond to this email and I will have one of our distributors prepare a quote.	Refer to Addendum 02 .

ID	From	Received	Response Date	Question	Answer
8	Judi Stanley Project Administrative Assistant Stenstrom General Contractor - Design / Build Group 2420 20th St., Rockford, IL 61104 Office: 815-398-2420 Fax: 815-398-0041 JudiS@rstenstrom.com http://www.rstenstrom.com	1/26/2017_ email	1/27/2017	Are we able to get a plan set with a refundable deposit per your AIA document Article 3.1.1?	Refer to Addendum 02.
9	Brian Girgen SENIOR ESTIMATOR p : 608.754.6601 f : 608.754.9171 e : brian.girgen@jpcullen.com www.jpcullen.com	1/26/2017_ email		10. Sheet A0311 elevation 2 shows brick types 6-7-8 (red) along grid line 4 (room 337). Details 4 and 6/A0202 and 2/A0455 at this location call out brick types 12-13-14. Please confirm the correct brick types for this location. 11. Finish Plans A1231A-D reference CWT-1 in multiple locations at sinks, etc. Also referred to on interior elevations such as 4,5/A0610 (and elsewhere. We are unable to locate this wall tile on the Finish Schedule. Please provide. 12. On the Finish Schedule sheet A1200 ACT-1 and ACT-3 are both called out as specific and different ceiling tiles. On the A0700 RCP's at multiple locations (typical of classrooms) it calls out for ACT-1 but has call out note 8 (rooms such as 330, 333, 334, 301, 3012, 303, 304, etc.). Call out note 8 references ACT-3. Rooms 324, 325, and 327 call out for ACT-3 and have note 8 referencing ACT-3. Please confirm if the rooms on the RCP's with call out note 8 and referencing ACT-1 are to receive ACT-1 or ACT-3. 13. Similar to Cullen question #12, the RCP series of drawings A0700's RCP Notes section has a call out of "ACT-3: 2' X 2' ACT ceiling provide mineral wool above ceiling" and a Note 8 which states "ACT-3: 2' X 2' Performa – Symphony F". Please clarify if only the locations that reference specifically "ACT-3" on the RCP drawings are to receive mineral wool or if all ceilings with Note 8 reference are to receive mineral wool above ceiling also by circular reference to ACT-3. 14. On RCP A0700's series there is an "ACT-3" reference on RCP Notes that states to "provide mineral wool above ceiling". We are unable to locate a thickness or reference to this product in the specifications. Please provide. 15. On RCP A0700's series there is a Note 7 that references tectum panels at the ceiling. We were unable to locate this product in the specifications or in the Finish Schedule A1200. Please provide. 16. On sheet C02 at Perryville Road there is a reference to a Monument Sign. We are unable to locate any details or specifications for this. Please provide or confirm that this is not part of the project scope. 17. Spec Section 003132.1-1.1 states that soil boring information is attached and bound herein. They do not appear to be attached. Please provide.	
10	Rudolph Masonry, Inc. David Rudolph Vice President / Estimator Direct: 815-378-9384 Fax: 815-623-8116 RudolphMasonry.com	1/27/2017_ email		01.) We are using 5 different brick on this project, will the mortar be grey or colored mortar for the 5 different brick? If the mortar is colored mortar, will we just pick from the standard colors? 02.) Area "A1" at Door #302A & #303A, I assume there will be Dry Wall on Steel Studs above the door? See Detail 16/S0200D I-beam is at deck, and it looks to be opening under I-beam? Detail 9/A0602 looks like it could be block?	
11	Carolyn Dammen Architectural Services Coordinator Mule-Hide Products Co., Inc. 1195 Prince Hall Drive Beloit, WI 53511 Direct: 608-361-6828 www.mulehide.com	1/27/2017_ email		Mule-Hide Products would like to submit a substitution request on behalf of Distinctive Roofing for the TPO roofing system on this project. The formal request, along with supporting documentation, is attached.	

ID	From	Received	Response Date	Question	Answer
12	Nick Redieske Estimator / Project Manager LEED Green Associate Cord Construction Company 1322 East State Street Rockford, IL 61104 Phone 815 / 965-6630 x 148 Fax 815 / 965-6641 Mobile 815 / 262-6125	1/27/2017_ email		1. Will the AWI certification be waived for Millwork suppliers? 2. Allowance calls for 2,300 CY for bus lane and 500 CY for foundations. Undercut note on C07 states to include 2,200 CY included in base bid. The allowances and unit prices are for different imported materials. Please clarify what is to be included in the base bid. 3. Will the borings be provided? The spec section is included but the borings are not. 4. One of the metal panel contractors has mentioned that the spec calls for all colors including custom colors. He mentioned that with the square footage required on the project the cost for the material will be inflated due to the over stock of material that will be required to be manufactured and not utilized if a custom color is required. Please confirm that custom colors are required as a possible selection for the metal wall panels.	

AIA® Document A701™ – 1997

Instructions to Bidders

for the following PROJECT:
(Name and location or address)

THE OWNER:
(Name, legal status and address)
Board of Education
Rockford School District No. 205
Winnebago and Boone Counties, Illinois
501 Seventh Street
Rockford, Illinois 61104

THE ARCHITECT:
(Name, legal status and address)

TABLE OF ARTICLES

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ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement or Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders, the bid form, and other sample bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between the Owner and Contractor, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications and all Addenda issued prior to execution of the Contract.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201as revised by Owner, or in other Contract Documents are applicable to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the Work as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 The Bidder by making a Bid represents that:

§ 2.1.1 The Bidder has read and understands the Bidding Documents or Contract Documents, to the extent that such documentation relates to the Work for which the Bid is submitted, and for other portions of the Project, if any, being bid concurrently or presently under construction.

§ 2.1.2 The Bid is made in compliance with the Bidding Documents and all required information required by Owner in the Bidding Documents has been furnished by Bidder..

§ 2.1.3 The Bidder has visited the site, become familiar with local conditions under which the Work is to be performed and has correlated the Bidder's personal observations with the requirements of the proposed Contract Documents.

§ 2.1.4 The Bid is based upon the materials, equipment and systems required by the Bidding Documents without exception.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 COPIES

§ 3.1.1 Bidders may obtain complete digital sets of the Bidding Documents via download from the issuing office designated in the Advertisement or Invitation to Bid. Paper copies of the Bidding Documents will not be provided. Bids including all required documents must be submitted on paper within the time and at the location specified in the Advertisement or Invitation to Bid.

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§ 3.1.2 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the Advertisement or Invitation to Bid, or in supplementary instructions to bidders.

§ 3.1.3 Bidders shall use complete sets of Bidding Documents in preparing Bids; neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

§ 3.1.4 The Owner and Architect may make copies of the Bidding Documents available on the above terms for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.

§ 3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

§ 3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall at once report to the Architect errors, inconsistencies or ambiguities discovered.

§ 3.2.2 Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall submit inquiries to the Director of Purchasing for Owner, 501 Seventh Street, Rockford, Illinois 61104.

§ 3.2.3 Interpretations, corrections and changes of the Bidding Documents will be made by Addendum. Interpretations, corrections and changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon them.

§ 3.3 SUBSTITUTIONS

§ 3.3.1 The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.

§ 3.3.2 No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect and Program Manager at least ten days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.3 If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

§ 3.3.4 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 ADDENDA

§ 3.4.1 Addenda will be transmitted to all who are known by the issuing office to have received a complete set of Bidding Documents.

§ 3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Each Bidder shall ascertain prior to submitting a Bid that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

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ARTICLE 4 BIDDING PROCEDURES

§ 4.1 PREPARATION OF BIDS

§ 4.1.1 Bids shall be submitted on the forms included with the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and figures. In case of discrepancy, the amount written in words shall govern.

§ 4.1.4 Interlineations, alterations and erasures must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change."

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall make no additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name of the Bidder and the nature of legal form of the Bidder. The Bidder shall provide evidence of legal authority to perform within the jurisdiction of the Work. Each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder.

§ 4.2 BID SECURITY

§ 4.2.1 Each Bid shall be accompanied by a bid security in the form and amount required if so stipulated in the Instructions to Bidders. The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and will, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. The amount of the bid security shall not be forfeited to the Owner in the event the Owner fails to comply with Section 6.2.

§ 4.2.2 If a surety bond is required, it shall be written on AIA Document A310, Bid Bond, unless otherwise provided in the Bidding Documents, and the attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of the power of attorney.

§ 4.2.3 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either (a) the Contract has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bids may be withdrawn or (c) all Bids have been rejected.

§ 4.3 SUBMISSION OF BIDS

§ 4.3.1 All copies of the Bid, the bid security, if any, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder's name and address and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

§ 4.3.2 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened.

§ 4.3.3 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.4 Oral, telephonic, telegraphic, facsimile or other electronically transmitted bids will not be considered.

§ 4.4 MODIFICATION OR WITHDRAWAL OF BID

§ 4.4.1 A Bid may not be modified, withdrawn or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting a Bid.

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§ 4.4.2 Prior to the time and date designated for receipt of Bids, a Bid submitted may be modified or withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder. Written confirmation over the signature of the Bidder shall be received, and date- and time-stamped by the receiving party on or before the date and time set for receipt of Bids. A change shall be so worded as not to reveal the amount of the original Bid.

§ 4.4.3 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids provided that they are then fully in conformance with these Instructions to Bidders.

§ 4.4.4 Bid security, if required, shall be in an amount sufficient for the Bid as resubmitted.

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 OPENING OF BIDS

This bid is form a project for the Rockford Public Schools. All bids advertised, submitted, and selected for award by Owner and other matters relating to the bidding process shall adhere to the provisions of Illinois law, in particular the provisions of the School Code, including without limitation, the provisions of 105 ILCS 5/10-20.21.

At the discretion of the Owner, if stipulated in the Advertisement or Invitation to Bid, the properly identified Bids received on time will be publicly opened and will be read aloud. An abstract of the Bids may be made available to Bidders.

§ 5.2 REJECTION OF BIDS

The Owner shall have the right to reject any or all Bids. A Bid not accompanied by a required bid security or by other data required by the Bidding Documents, or a Bid which is in any way nonresponsive, incomplete or irregular is subject to rejection.

§ 5.3 ACCEPTANCE OF BID (AWARD)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsible Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's own best interests.

§ 5.3.2 The Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 CONTRACTOR'S QUALIFICATION STATEMENT

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request, a properly executed AIA Document A305, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted as a prerequisite to the issuance of Bidding Documents.

§ 6.2

(Paragraphs deleted)

SUBMITTALS

(Paragraphs deleted)

§ 6.2.1 The Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, after notification of selection for the award of a Contract, furnish to the Owner through the Architect in writing:

- **.1** a designation of the Work to be performed with the Bidder's own forces;
- **.2** names of the manufacturers, products, and the suppliers of principal items or systems of materials and equipment proposed for the Work; and
- **.3** names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

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§ 6.2.2 The Bidder will be required to establish to the satisfaction of the Architect, Program Manager and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder in writing if either the Owner, Program Manager or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, (1) withdraw the Bid or (2) submit an acceptable substitute person or entity. The Owner may accept the substitute person or entity or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 BOND REQUIREMENTS

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Bonds may be secured through the Bidder's usual sources.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 If the Owner requires that bonds be secured from other than the Bidder's usual sources, changes in cost will be adjusted as provided in the Contract Documents.

§ 7.2 TIME OF DELIVERY AND FORM OF BONDS

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond. Both bonds shall be written in the amount of the Contract Sum.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

ARTICLE 8 FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

The Agreement for the Work will be written on AIA Document A101-2007 as revised by Owner and be accompanied by General Conditions on AIA Document A201-2007, as revised by Owner and further revised by Supplementary Conditions issued by Owner all as included in the Bidding Documents.

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BID FORM

To: Rockford Public School District 205
501 7th Street
Rockford, Illinois 61104

In compliance with your Invitation for Bids, the undersigned,

_____
(Name of firm, partnership or Corporation)

hereby proposes to furnish all labor and materials and perform all general work for the construction of the in strict accordance with the Project Manual dated January 4, 2017 and the Drawings mentioned therein, and including any subsequently issued addenda for consideration of the following amount:

Base Bid _____ Dollars ($_____)

ALTERNATES

Refer to Division 01 Section 012300 – Alternates for description of Alternates.

Alternate Bid #1A: ADD Kindergarten Room Cubbies

Bid Amount $_____.

Alternate Bid #1B: ADD Kindergarten Room Wall Cabinets

Bid Amount $_____.

Alternate Bid #2: ADD Display Cases & Tack Surface

Bid Amount $_____.

Alternate Bid #3: ADD Library Casework

Bid Amount $_____

Alternate Bid #4: ADD Increase Generator Capacity & Transfer Switch

Bid Amount $_____.

Alternate Bid #5: ADD Parking Spaces at Bus Loop

Bid Amount $_____.

Alternate Bid #6: ADD Water Main Extension

Bid Amount $_____.

PROJECT MILESTONE DATES

1. Award Letter -3/01/2017
2. Start Date -3/02/2017
3. Commissioning Pre-Construction Meeting- 4/16/2017
4. Commissioning Functional Testing- 4/15/2018
5. Substantial Completion -5/15/2018
6. Project Final Completion- 6/15/18
7. Final Commissioning - Winter 2019

If written notice of the acceptance of this Bid is mailed, telegraphed, or delivered to the undersigned at any time prior to the date set for the expiration of the Bid Security, the undersigned will, within ten (10) days after the notice, execute and deliver a contract in accordance with the required Form of the Agreement and give Performance and Payment Bond, if so required, in accordance with the Bid as accepted.

The undersigned acknowledges that the bidder has adequate equipment to do the work properly and expeditiously:

The undersigned hereby designates as his office to which such notice of acceptance may be mailed, telegraphed or delivered:

_____

This Bid may be withdrawn at any time prior to the scheduled time for the opening of Bids or any authorized postponement thereof.

Caution: This Bid may be rejected if not accompanied by a guarantee in the specified amount. Any certified check may be held uncollected at risk of Bidders submitting them.

.

Addendum Receipt: The receipt of the following addenda to the Specifications is acknowledged:

Addendum No. _____ Date _____ Addendum No. _____ Date _____
Addendum No. _____ Date _____ Addendum No. _____ Date _____

Addendum No. _____ Date _____ Addendum No. _____ Date _____

Submittals, as required by the Instructions/Supplementary Instructions to Bidders, shall be completed and delivered to the Architect, by the two (2) or three (3) low bidders, within three working days after the Bid opening.

Dated _____, 2017 _____
Legal name of person, partnership or corporation

(Sign Bid Here) By: _____
Name and Title

Legal Business Address: _____
Street Address

_____
City and State

UNIT PRICES

Should the amount of work required for this project be increased or decreased due to changes in design or conditions at the site, the undersigned agrees that the following unit prices will be the basis for an increase or decrease to the contract amount.

Refer to Division 01 Section 012200 – Unit Prices for description of Unit Prices.

Unit Price No. 1: For over excavation, hauling spoils off-site and breaker run aggregate (2” -3”) material at locations where unsuitable soils are encountered at the North Bus Loop.
$_____/cubic yard.

Unit Price No. 2: For over excavation, hauling spoils off-site and compacted granular fill material at locations where unsuitable soils are encountered at the building foundations.
$_____/cubic yard.

ALLOWANCES:

The following material cost allowances have been included in the Base Bid and should the following allowance exceed or be less than the cost of selected items, the difference in cost shall be added to, or credited to the Owner's Contract.

Refer to Division 01 Section 012100 – Allowances for description of Allowances.

Allowance No. 1: Include 695 cubic yards of over-excavation, hauling spoils off-site and breaker run aggregate (2” -3”) material at locations where unsuitable soils are encountered at the North Bus Loop.

Allowance No. 2: Include 500 cubic yards of over excavation, hauling spoils off-site and compacted granular fill material at locations where unsuitable soils are encountered at the building foundations

LIST MAJOR SUBCONTRACTORS/VALUES

1. EARTHWORK SUBCONTRACTOR_____$_____

2. SITE UTILITIES SUBCONTRACTOR_____$_____

3. CONCRETE_____$_____

4. MASONRY_____$_____

5. STEEL FABRICATION_____$_____

6. ROOFING _____$_____

7. WINDOWS _____$_____

8. PLUMBING_____$_____

9. HVAC SUBCONTRACTOR _____$_____

   a) HVAC CONTROLS SUBCONTRACTOR_____

11. ELECTRICAL SUBCONTRACTOR_____$_____

   a) TECHNOLOGY SYSTEMS SUBCONTRACTOR _____

   b) FIRE ALARM SYSTEM SUBCONTRACTOR _____

IF BIDDER IS A FIRM OR PARTNERSHIP, COMPLETE THE FOLLOWING:

Name of Members or Partners	Legal Residence
_____	_____
_____	_____
_____	_____
_____	_____

IF BIDDER IS A CORPORATION, COMPLETE THE FOLLOWING:

State of Incorporation: _____

Name and Title	Legal Residence
_____ President	_____
_____ Vice President	_____
_____ Secretary	_____

Bidders References: Each contractor is to submit a list of reference as indicated on AIA A305-1986.

DIRECTION FOR MAILING

Envelopes containing Bids, Guarantees, etc., must be sealed, marked and addressed in lower left hand corner as follows:

Bid For:
School A, Zone 2
Cherry Valley,Il

Address:
Rockford Public School District 205
501 7th Street
Rockford, Illinois 61104

Attention: Cannon Design

BID PROPOSAL CERTIFICATIONS

Firm Name _____

Business Address _____

Telephone Number _____ Date of Bid _____

I. **General Bid Certification**

The bidder certifies that he will furnish, at the prices herein quoted, the materials, equipment and/or services as proposed on this bid.

II. **Non-Collusive Bidding Certifications**: By submission of this bid proposal, the bidder also certifies compliance with the following:

1. Statement of Non-Collusion in Bids and Proposals to Political Subdivision of the State: Every bid or proposal hereafter made to a political subdivision of the state or any public department, agency or official thereof where competitive bidding is required by statute, rule, regulation, or local law, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalties of perjury: Non-collusive bidding certification.

   (a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:

      (1) The prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
      (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder to any competitor; and
      (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

   (b) A bid shall not be considered for award nor shall any award be made where (a)(1), (a)(2) and (a)(3) above have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a)(1), (a)(2) and (a)(3) above have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting completions.

   The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other

customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning subparagraph one (a).

2. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work of services performed or to be performed or goods sold or not to be sold, where competitive bidding is required by statute, rule, regulation, or local law, and where such bid contains the certification referred to in subdivision one of the section, shall be deemed to have been authorized by the board of directors of the bidder, and such authorization shall be deemed the board of directors of the bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

Signature (Authorized) _____

Title _____

WAIVER OF IMMUNITY CLAUSE

The bidder hereby agrees to the provisions of the applicable General Municipal Law which requires that upon the refusal of person, when called before a grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a public authority or with any public department, agency or official of the state or of any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract.

(a) Such person, any firm, partnership, or corporation of which he is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any municipal corporation or any public department, agency or official thereof, for goods, work or services, for a period of five years after such refusal, and

(b) Any and all contracts made with any municipal corporation or any public department, agency or official thereof, since the effective date of this law, by such person, and by any firm, partnership, or corporation of which he is a member, partner, director of officer may be canceled or terminated by the municipal corporation without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the municipal corporation for goods delivered or work done prior to the cancellation or termination shall be paid.

_____
Individual

_____
Corporation

Date _____ By: _____

AFFIRMATIVE ACTION AGREEMENT

Firm Name: _____

Business Address: _____

Telephone Number: _____

Non-discrimination Clauses:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color or national origin and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, sex, color or national origin. Such action shall be taken with reference, but not limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training.

2. The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the State Commission for Human Rights, advising such labor union or representative of the Contractor's agreement under clauses (1) through (7) (hereinafter called "non-discrimination clauses"). If the Contractor was directed to do so by the contracting agency as part of the bid or negotiation of this Contract, the Contractor shall request such labor union or representative to furnish him with a written statement that such labor union or representative will not discriminate because of race, creed, sex, color or national origin and that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this Contract shall be in accordance with the purposes and provisions of these non-discrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the Contractor shall promptly notify the State Commission for Human Rights of such failure or refusal.

3. The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Commission for Human Rights setting forth the substance of the provisions of clauses (1) and (2) and such provisions of the State's laws against discrimination as the State Commission for Human Rights shall determine.

4. The Contractor will state, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, sex, color or national origin.

5. The Contractor will comply with the provisions of Sections 291-299 of the Executive Law and the Civil Rights Law, will furnish all information and reports deemed necessary by the State Commission for Human Rights under these non-discrimination clauses and such sections of the Executive Law, and will permit access to his books, records and accounts by the State Commission for Human Rights, the Attorney General and the Industrial Commissioner for the purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and Civil Rights Law.

6. This Contract may be forthwith canceled, terminated or suspended, in whole or in part, by the contracting agency upon the basis of a finding made by the State Commission for Human Rights that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the state, until he satisfies the State Commission for Human Rights that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the State Commission for Human Rights after conciliation efforts by the Commission have failed to achieve compliance with these non-discrimination clauses and after a verified complaint has been filed with the Commission, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before three members of the Commission. Such sanctions may be imposed and remedies invoked dependently of or in addition to sanctions and remedies otherwise provided by law.

7. The Contractor will include the provisions of clauses (1) through (6) in every subcontract or purchase order in such a manner that such provisions will be binding upon each subcontractor or vendor as to operations to be performed within the State of Illinois. The Contractor will take such action in enforcing such provisions of such subcontract or purchase order as the contracting agency may direct, including sanctions or remedies for non-compliance. If the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interests of the State of Illinois.

Signature (Authorized) _____

Title _____

END OF BID FORM

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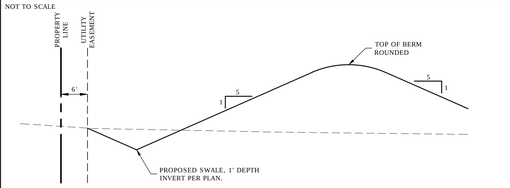
SECTION AT WEST LANDSCAPE BERMS (B-B)

NOT TO SCALE



HMA PATH SECTION

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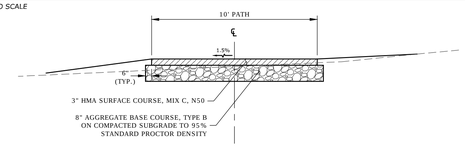

VALVE BOX DETAIL

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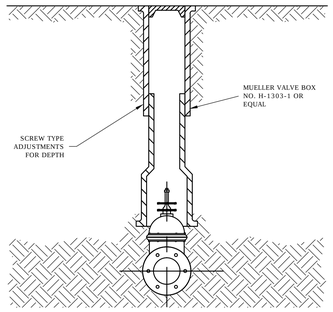
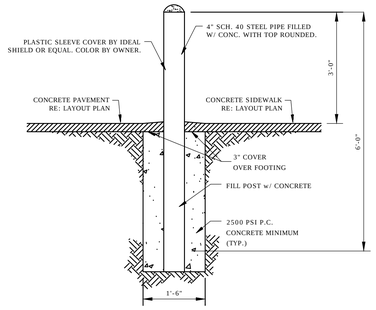


STANDARD BOLLARD DETAIL

NOT TO SCALE



PAVEMENT DETAILS

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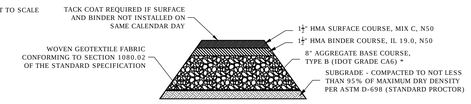
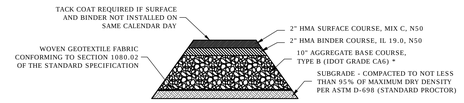
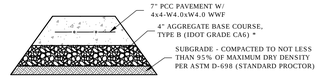


STANDARD ASPHALT PAVEMENT



HEAVY DUTY ASPHALT PAVEMENT

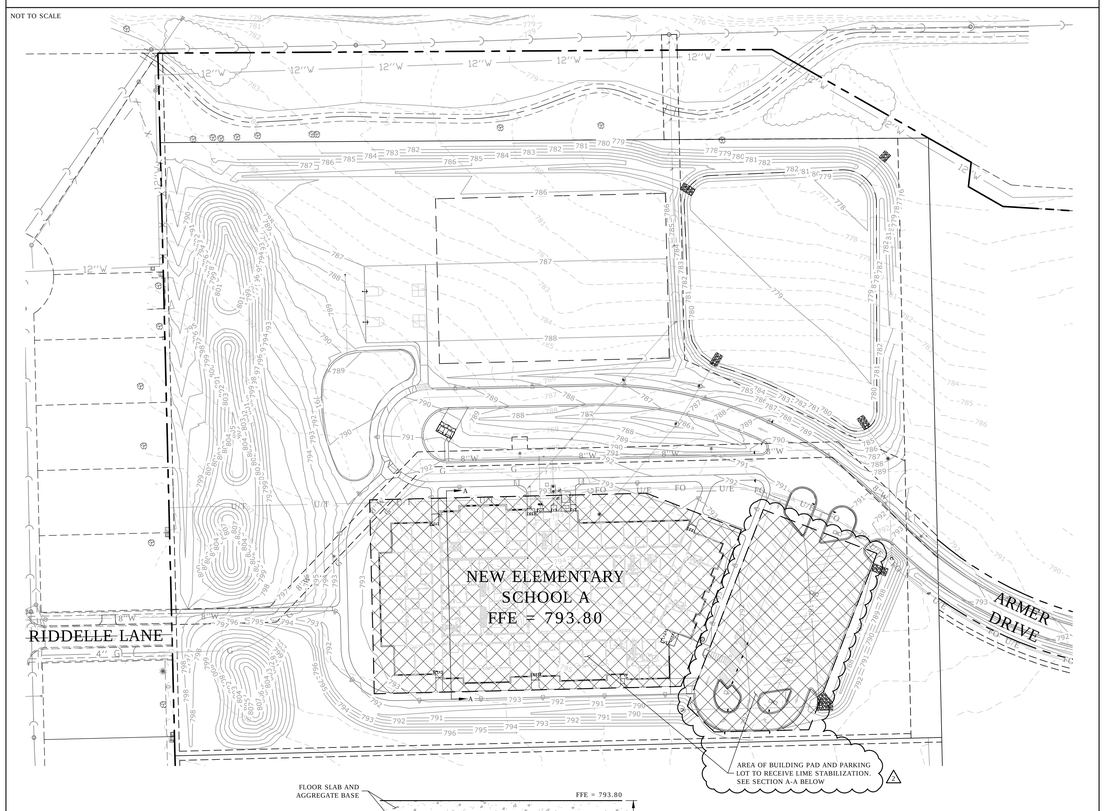


HEAVY DUTY PCC PAVEMENT

* TOP OF STONE SHALL EXTEND 6" BEYOND BOTTOM OF PAVEMENT IN ALL CASES

LIME STABILIZATION PLAN

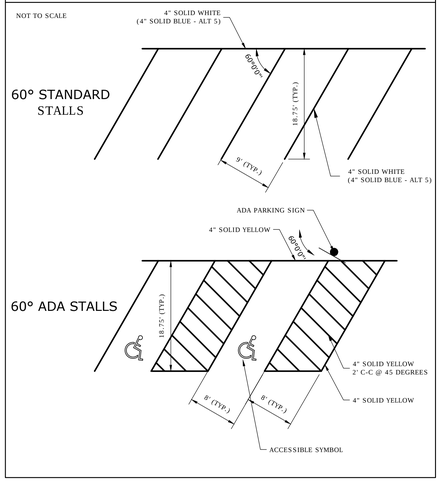
NOT TO SCALE



SECTION A-A

TYPICAL 60 DEGREE PARKING STRIPING DETAILS

NOT TO SCALE



PIPE EMBEDMENT

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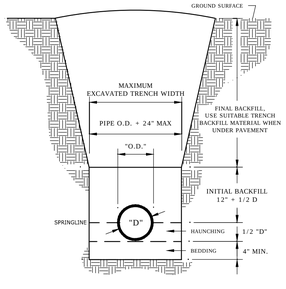
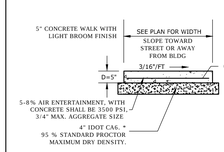


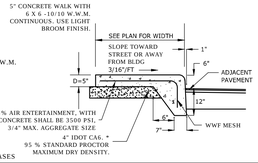
CONCRETE SIDEWALK DETAILS

NOT TO SCALE

STANDARD SIDEWALK



THICKENED EDGE SIDEWALK



NOTES:

1. SEE ARCHITECT SPECIFICATIONS FOR CONCRETE MIXTURE DETAILS
2. TOOLED JOINTS SHALL BE 1/4 AT 4' CENTERS.
3. EXPANSION JOINTS SHALL BE 3/4" BITUMINOUS IMPREGNATED FIBERBOARD AT 40' CENTERS.

* TOP OF STONE SHALL EXTEND 6" BEYOND BOTTOM OF CONCRETE IN ALL CASES

ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE

COLOR: TEXT, ARROW, AND BORDER; GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND WHITE

18" X 12" 18 GA. STEEL BAKED ENAMEL INTERNATIONAL HANDICAP SYMBOL MANUFACTURED IN ACCORDANCE WITH MUTCD R7-8

6"x12"

ONE SIGN PER GROUP MUST HAVE ADDITIONAL VAN ACCESSIBLE SIGN

2" SQUARE CHANNEL POST

5'-0" MIN.

3'-0"

NOTE:
VERIFY HEIGHT OF H.C. SIGN FROM TOP OF GRADE WITH LOCAL AUTHORITY.

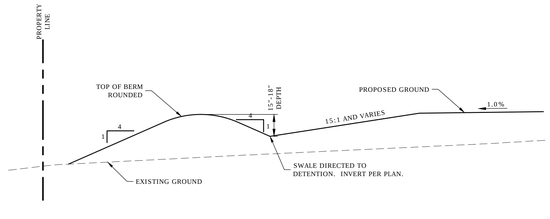
BOLLARD. SEE DETAIL THIS SHEET

39" STANDARD ACCESSIBLE SYMBOL

ACCESSIBLE SYMBOL

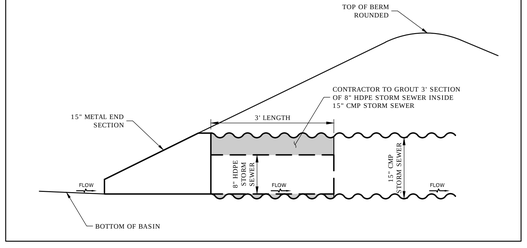
ATHLETIC FIELD SECTION AT NORTH PROPERTY LINE (A-A)

NOT TO SCALE



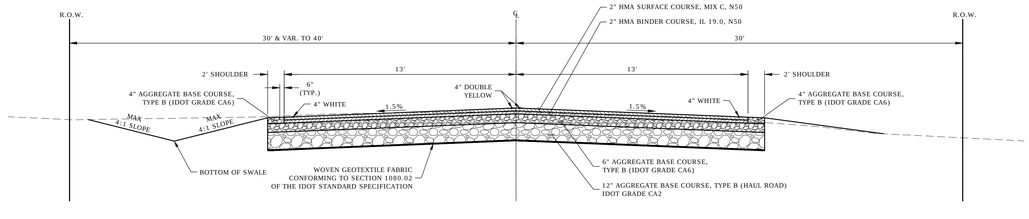
OUTLET PIPE FOR DETENTION BASIN

NOT TO SCALE



TYPICAL SECTION ACCESS ROAD

NOT TO SCALE



ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

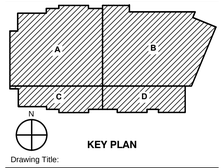
SCHOOL ZONE 2

CANNONDESIGN
225 North Michigan Avenue, Suite 1100
Chicago, Illinois 60601
T: 312.332.9600
F: 312.332.9601

S2O CONSULTANTS, INC
Kitchen Consultants
13 Winding Branch Rd
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
1	ISSUED FOR BID	01/04/2017
2	ADDENDUM 2	01/27/2017



KEY PLAN

Drawing Title:

DETAILS

Project No.: 005005.00 Checked by: JSL

C21

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1 BUILDING LAYOUT PLAN
1/16" = 1'-0"

NOTE: THE PURPOSE OF THIS PLAN IS TO AID IN THE LAYOUT OF THE PERIMETER FOUNDATION WALLS OF THE BUILDING. DIMENSIONS SHOWN ARE FROM THE OUTSIDE FACE OF FOUNDATION WALLS TO MAJOR BUILDING CORNERS. SEE SHEETS S0101.A, S0101.B, S0101.C, S0101.D, AND S0200.A FOR MORE DETAILED DIMENSIONS, SECTIONS, AND INTERIOR WALL AND COLUMN INFORMATION.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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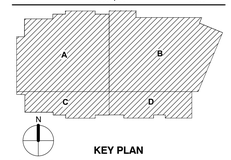
13 Winding Branch Rd
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
1	ADDENDUM 02	01/27/2017



Drawing Title: **KEY PLAN**

FOUNDATION WALL LAYOUT PLAN

Project No.: 005005.00 Checked by: Checker

S0101

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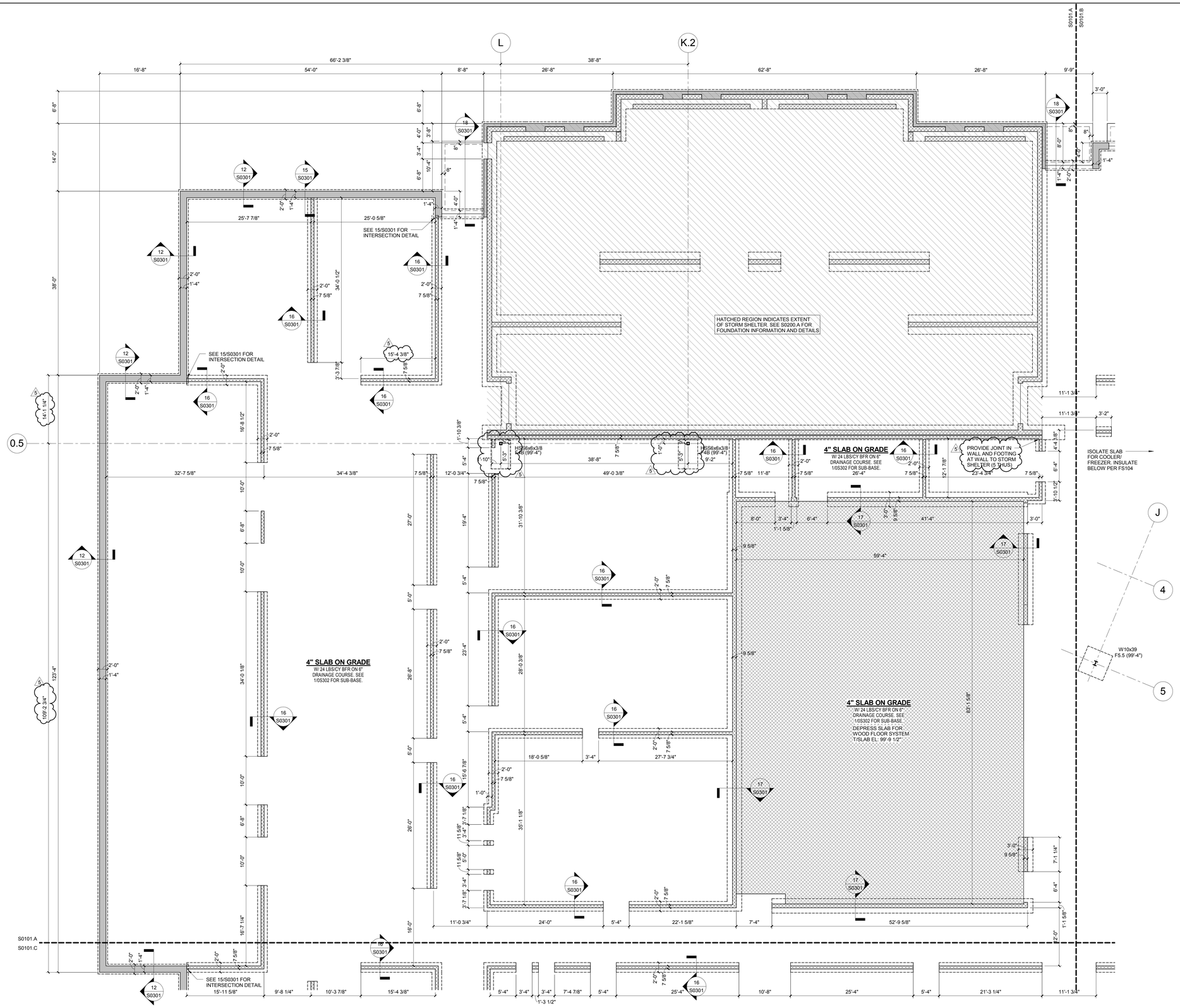

1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
3. TOP OF FOOTING ELEVATION AT BUILDING PERIMETER = 97'-4" UNLESS NOTED OTHERWISE.
4. TOP OF FOOTING ELEVATION AT INTERIOR = 99'-4" UNLESS OTHERWISE NOTED.
5. FX AND PX INDICATE FOOTING AND PIER MARKS. SEE SCHEDULE ON S0301 FOR FURTHER INFORMATION.
6. TOP OF PIER ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
7. ⊹ INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
8. NON-LOAD BEARING MASONRY WALLS ARE NOT SHOWN ON THIS PLAN. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND THICKEN SLAB BELOW PER DETAIL 8/S0302.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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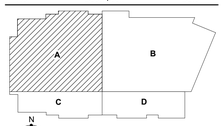
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
5	ADDENDUM 02	01/27/2017
4	ISSUED FOR BID	01/04/2017
3	PROGRESS PRINT	12/19/2016
2	ISSUED FOR 80% CD	11/17/2016
1	ISSUED FOR DD	08/25/2016



KEY PLAN

Drawing Title:

FOUNDATION PLAN - AREA A

Project No.: 005005.00 Checked by:

S0101.A

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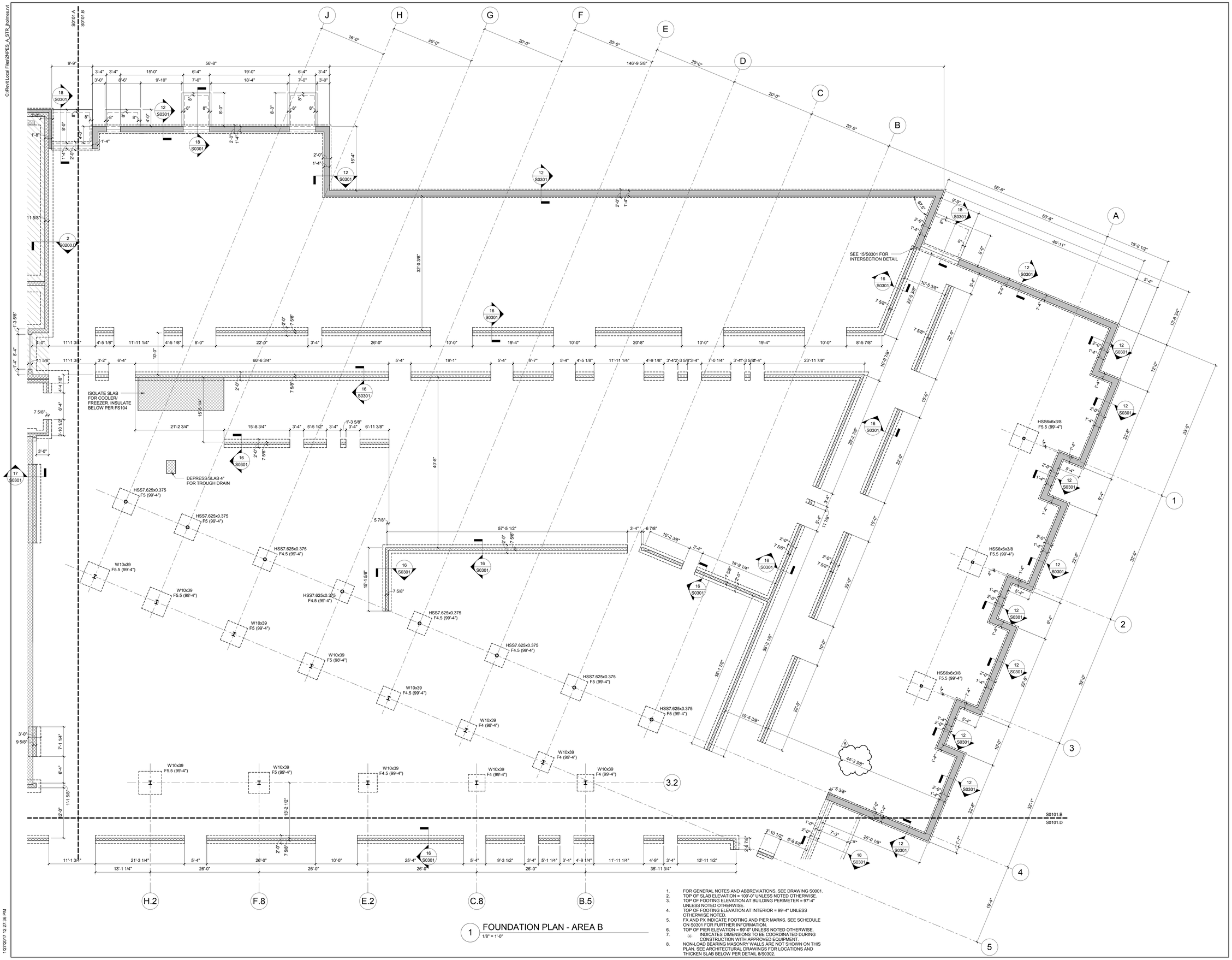

1 FOUNDATION PLAN - AREA B
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
3. TOP OF FOOTING ELEVATION AT BUILDING PERIMETER = 97'-4" UNLESS NOTED OTHERWISE.
4. TOP OF FOOTING ELEVATION AT INTERIOR = 99'-4" UNLESS OTHERWISE NOTED.
5. FX AND PX INDICATE FOOTING AND PIER MARKS. SEE SCHEDULE ON S0301 FOR FURTHER INFORMATION.
6. TOP OF PIER ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
7. ☼ INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
8. NON-LOAD BEARING MASONRY WALLS ARE NOT SHOWN ON THIS PLAN. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND THICKEN SLAB BELOW PER DETAIL 8/S0302.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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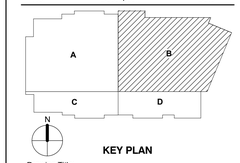
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
5	ADDENDUM 02	01/27/2017
4	ISSUED FOR BID	01/04/2017
3	PROGRESS PRINT	12/19/2016
2	ISSUED FOR 80% CD	11/17/2016
1	ISSUED FOR DD	08/25/2016



KEY PLAN

Drawing Title:

FOUNDATION PLAN - AREA B

Project No.: 005005.00 Checked by:

S0101.B

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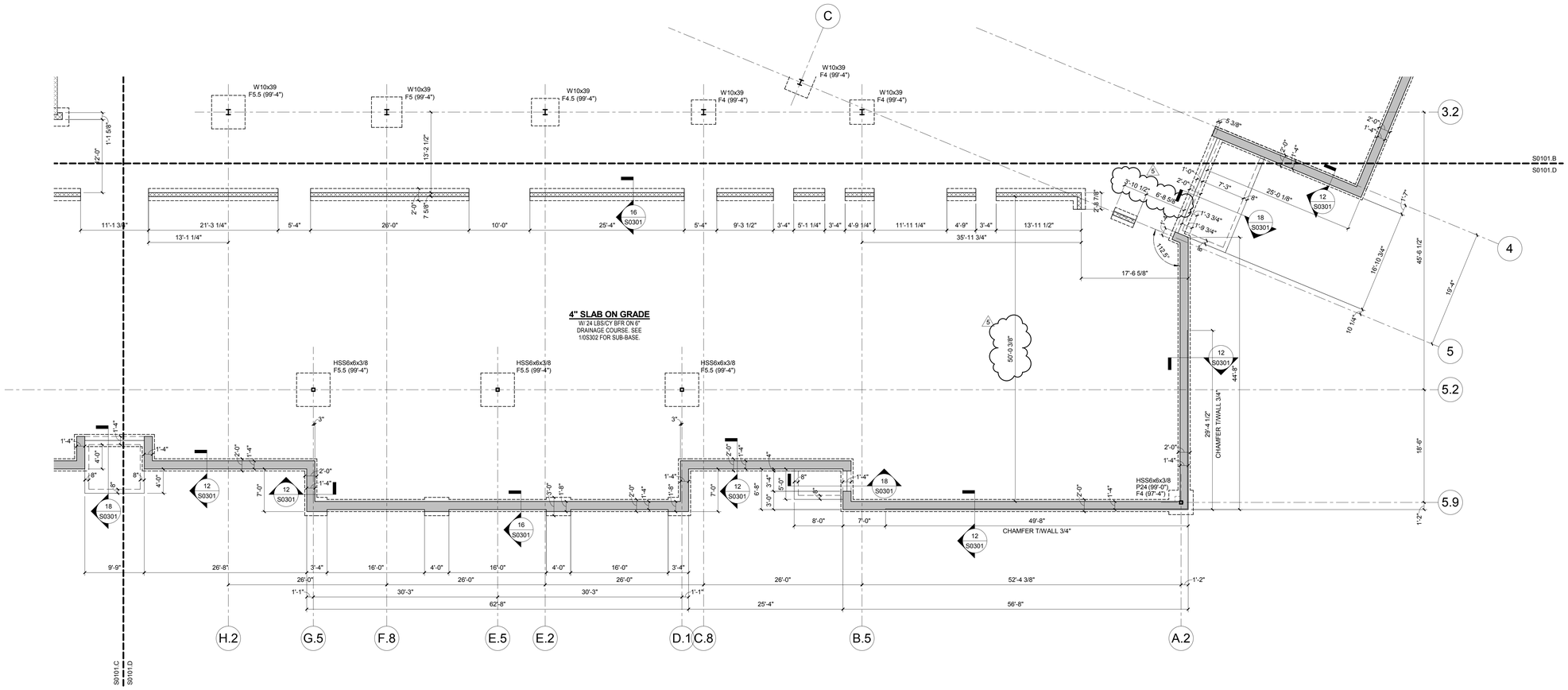

1 FOUNDATION PLAN - AREA D
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
3. TOP OF FOOTING ELEVATION AT BUILDING PERIMETER = 97'-4" UNLESS NOTED OTHERWISE.
4. TOP OF FOOTING ELEVATION AT INTERIOR = 99'-4" UNLESS OTHERWISE NOTED.
5. FX AND PX INDICATE FOOTING AND PIER MARKS. SEE SCHEDULE ON S0301 FOR FURTHER INFORMATION.
6. TOP OF PIER ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
7. ✳ INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
8. NON-LOAD BEARING MASONRY WALLS ARE NOT SHOWN ON THIS PLAN. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND THICKEN SLAB BELOW PER DETAIL 8/S0302.

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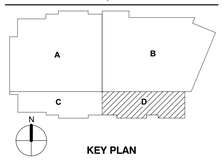

KEY PLAN

Drawing Title:

FOUNDATION PLAN - AREA D

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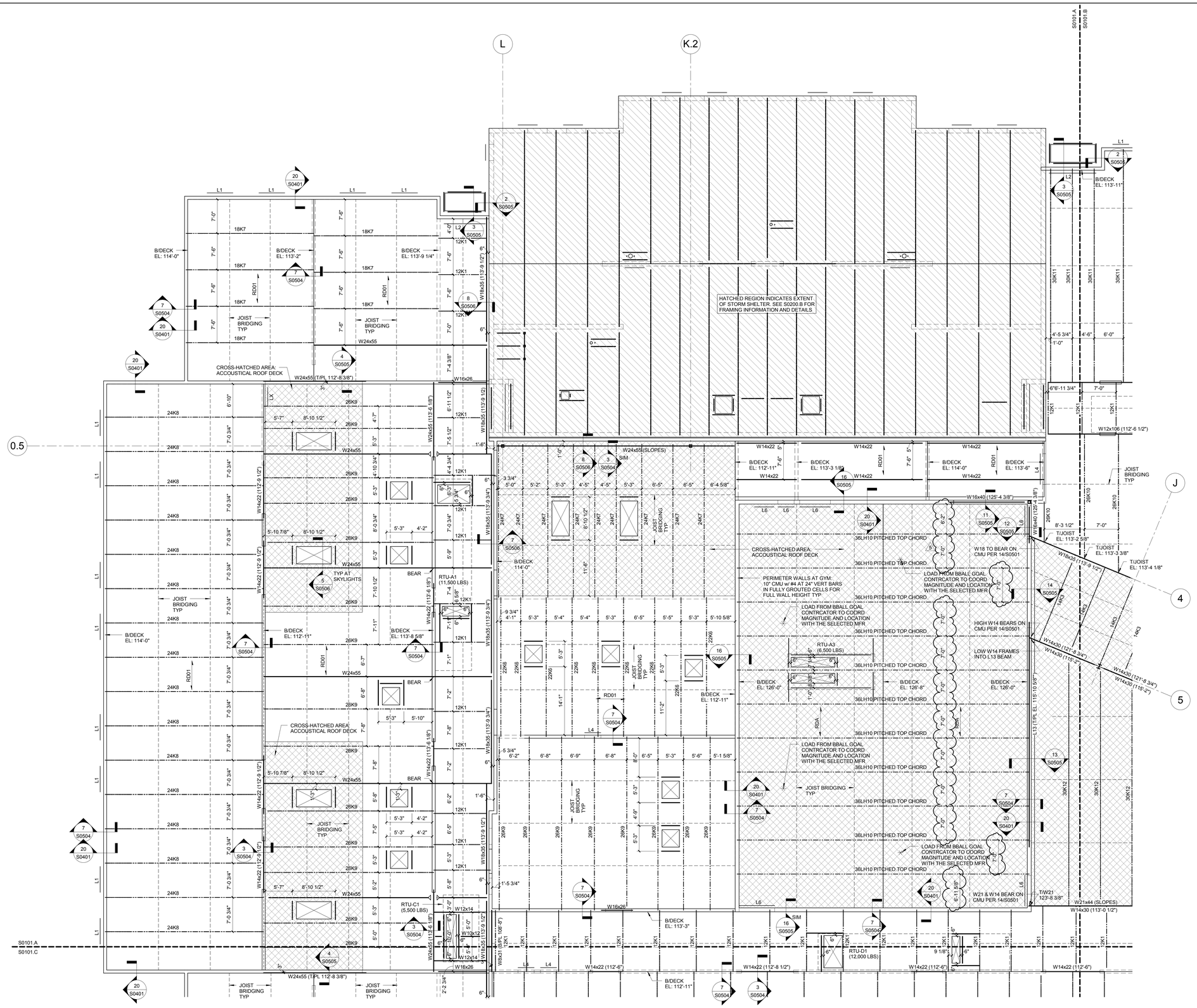

1 ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF STEEL ELEVATION = SEE PLAN.
3. RDO INDICATES SPAN DIRECTION OF METAL ROOF DECK. SEE SCHEDULE ON S0503 FOR DECK REQUIREMENTS.
4. SEE 2/S0401 FOR MINIMUM CMU WALL REINFORCING
5. SEE 19/S0401 FOR CMU WALL CONTROL JOINT REQUIREMENTS
6. INDICATES SLAB/DECK OPENING. SET EDGE OF SLAB AT 18" UNLESS NOTED OTHERWISE. SEE 5/S0503 FOR BEAM SIZES IF NOT INDICATED ON PLAN.
7. AT MECH EXHAUST FANS w/ OPENINGS 12"x12" OR LARGER, PROVIDE SUPPLEMENTAL FRAMING PER 5/S0503. SET EDGE OF SLAB AT 4". COORD LOCATIONS W/ MECH DWGS.
8. LX INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
9. ALL STEEL BEAMS WITHIN 5'-0" OF MASONRY FIRE WALLS SHALL NOT BE PAINTED AS THEY REQUIRE SPRAY-ON FIRE PROOFING
10. INDICATES LINTEL - SEE SCHEDULE 3/S0401

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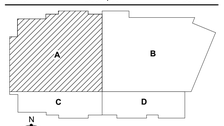

KEY PLAN

Drawing Title:

ROOF FRAMING PLAN - AREA A

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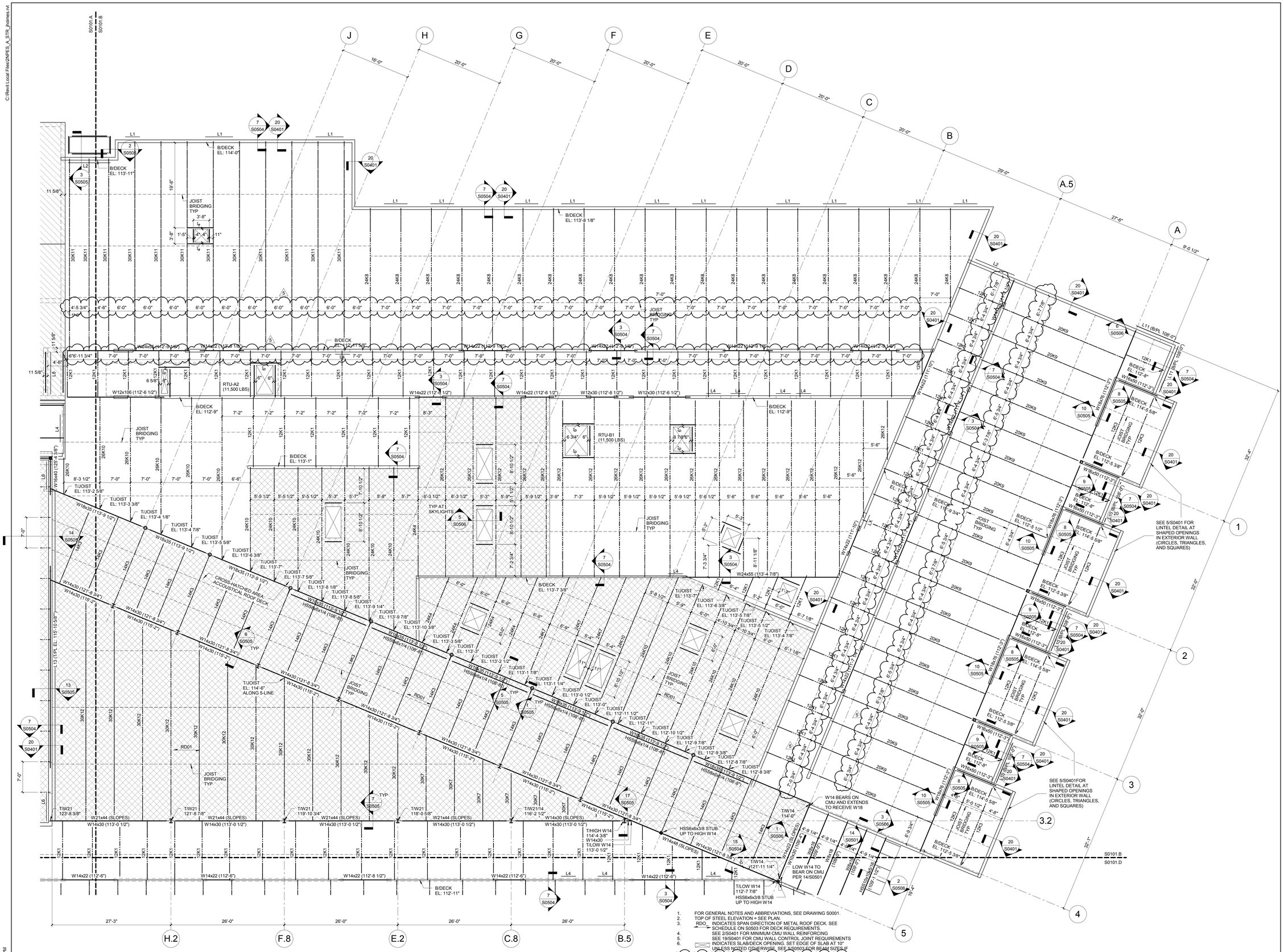

1 ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF STEEL ELEVATION = SEE PLAN.
3. RDO_ INDICATES SPAN DIRECTION OF METAL ROOF DECK. SEE SCHEDULE ON S0503 FOR DECK REQUIREMENTS.
4. SEE 2/S0401 FOR MINIMUM CMU WALL REINFORCING
5. SEE 19/S0401 FOR CMU WALL CONTROL JOINT REQUIREMENTS
6. INDICATES SLAB/DECK OPENING. SET EDGE OF SLAB AT 10" UNLESS NOTED OTHERWISE. SEE S/S0503 FOR BEAM SIZES IF NOT INDICATED ON PLAN.
7. AT MECH EXHAUST FANS w/ OPENINGS 12"x12" OR LARGER, PROVIDE SUPPLEMENTAL FRAMING PER S/S0503. SET EDGE OF SLAB AT 4". COORD LOCATIONS w/ MECH DWGS.
8. INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
9. ALL STEEL BEAMS WITHIN 5'-0" OF MASONRY FIRE WALLS SHALL NOT BE PAINTED AS THEY REQUIRE SPRAY-ON FIRE PROOFING
10. INDICATES LINTEL - SEE SCHEDULE 3/S0401

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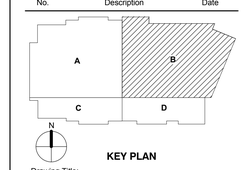

KEY PLAN

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ROOF FRAMING PLAN - AREA B

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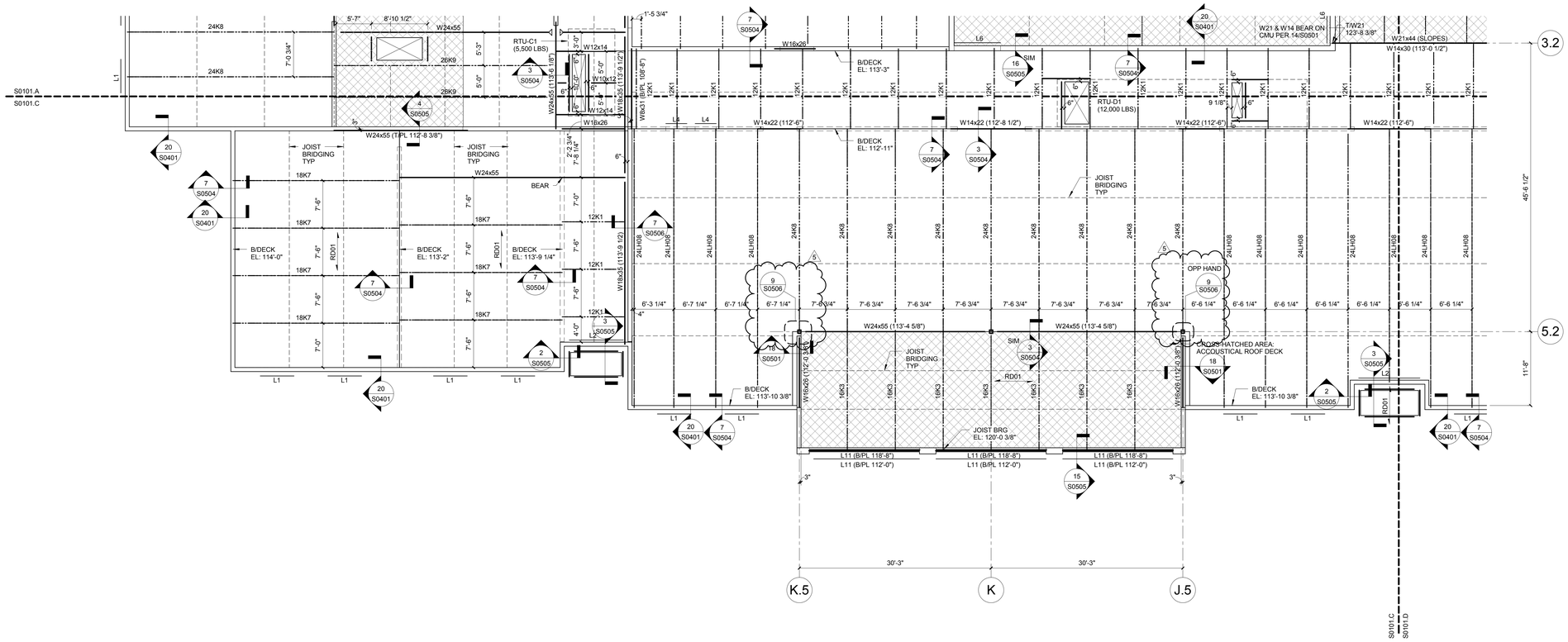

1 ROOF FRAMING PLAN - AREA C

1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF STEEL ELEVATION = SEE PLAN.
3. RDO_ INDICATES SPAN DIRECTION OF METAL ROOF DECK. SEE SCHEDULE ON S0503 FOR DECK REQUIREMENTS.
4. SEE 2/S0401 FOR MINIMUM CMU WALL REINFORCING
5. SEE 19/S0401 FOR CMU WALL CONTROL JOINT REQUIREMENTS
6. INDICATES SLAB/DECK OPENING. SET EDGE OF SLAB AT 10" UNLESS NOTED OTHERWISE. SEE 5/S0503 FOR BEAM SIZES IF NOT INDICATED ON PLAN
7. AT MECH EXHAUST FANS w/ OPENINGS 12"x12" OR LARGER. PROVIDE SUPPLEMENTAL FRAMING PER 5/S0503. SET EDGE OF SLAB AT 4". COORD LOCATIONS w/MECH DWGS.
8. INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT
9. ALL STEEL BEAMS WITHIN 5'-0" OF MASONRY FIRE WALLS SHALL NOT BE PAINTED AS THEY REQUIRE SPRAY-ON FIRE PROOFING
10. INDICATES LINTEL - SEE SCHEDULE 3/S0401

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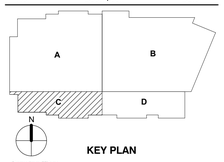

KEY PLAN

Drawing Title:

ROOF FRAMING PLAN - AREA C

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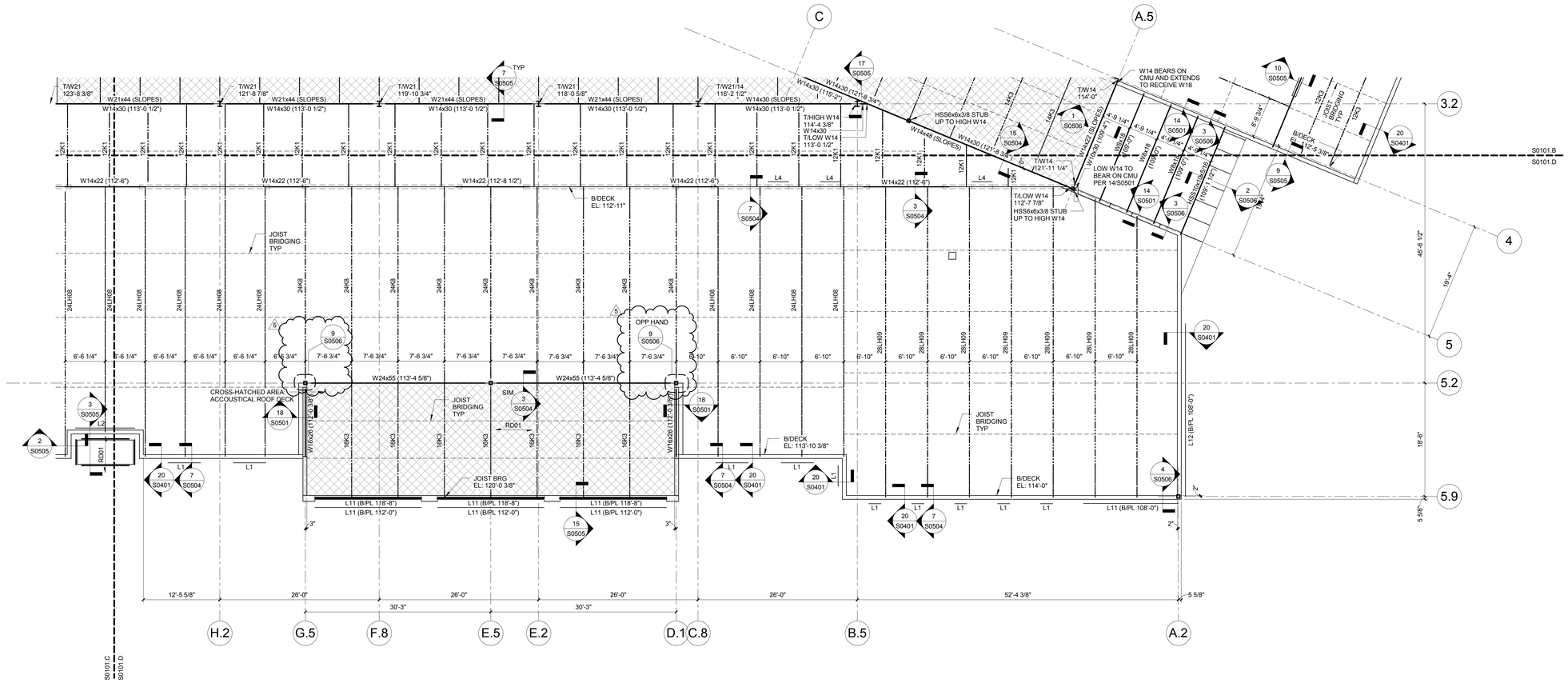

1 ROOF FRAMING PLAN - AREA D

1/8" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF STEEL ELEVATION = SEE PLAN.
3. RDO_ INDICATES SPAN DIRECTION OF METAL ROOF DECK. SEE SCHEDULE ON S0503 FOR DECK REQUIREMENTS.
4. SEE 2/S0401 FOR MINIMUM CMU WALL REINFORCING
5. SEE 19/S0401 FOR CMU WALL CONTROL JOINT REQUIREMENTS
6. INDICATES SLAB/DECK OPENING. SET EDGE OF SLAB AT 10" UNLESS NOTED OTHERWISE. SEE 4/S0503 FOR BEAM SIZES IF NOT INDICATED ON PLAN.
7. AT MECH EXHAUST FANS w/ OPENINGS 12"x12" OR LARGER, PROVIDE SUPPLEMENTAL FRAMING PER 5/S0503. SET EDGE OF SLAB AT 4". COORD LOCATIONS w/ MECH DWGS.
8. INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
9. ALL STEEL BEAMS WITHIN 5'-0" OF MASONRY FIRE WALLS SHALL NOT BE PAINTED AS THEY REQUIRE SPRAY-ON FIRE PROOFING
10. INDICATES LINTEL - SEE SCHEDULE 3/S0401

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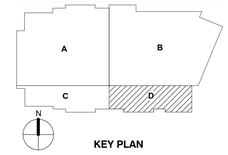

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ROOF FRAMING PLAN - AREA D

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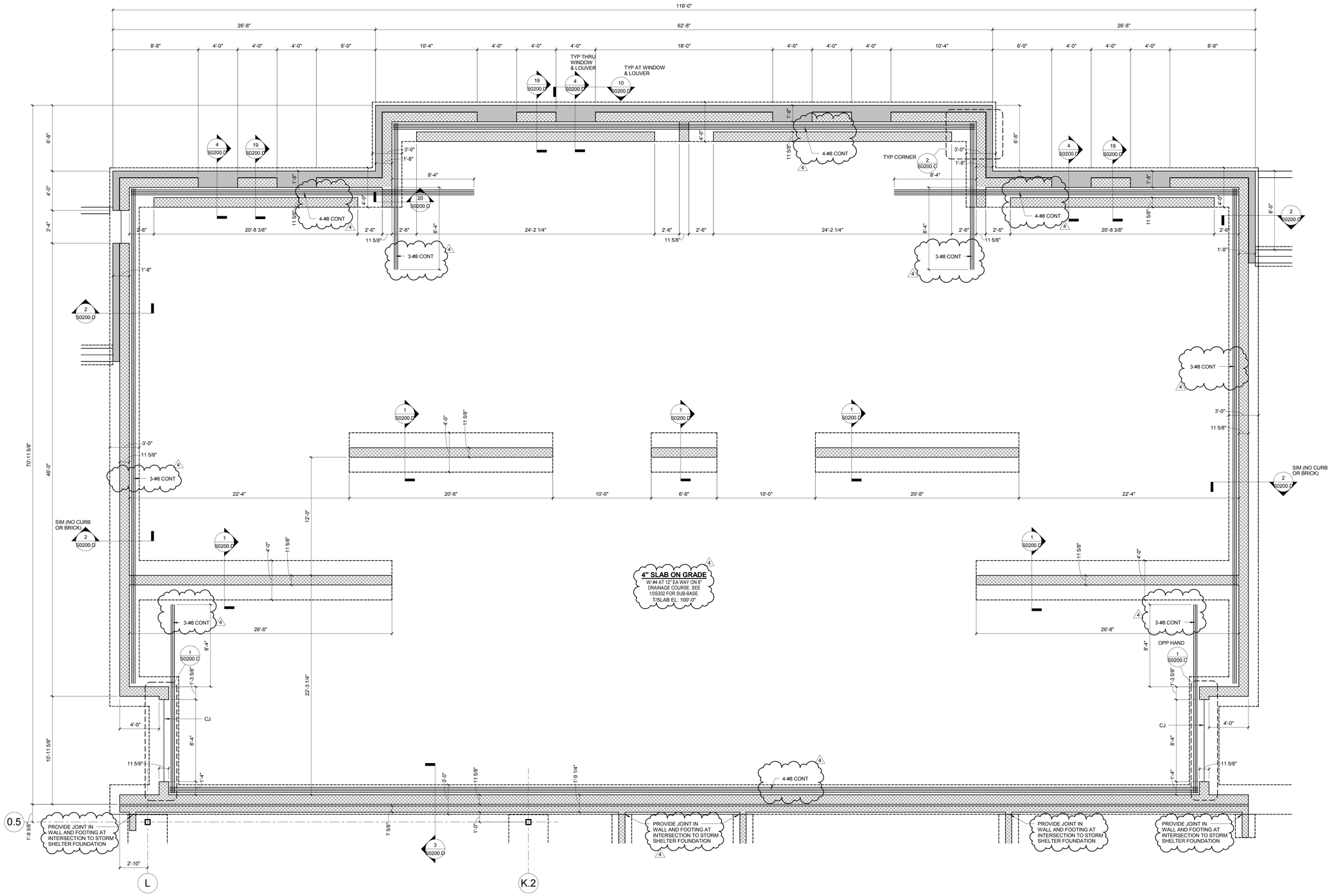

1 STORM SHELTER FOUNDATION PLAN

1/4" = 1'-0"

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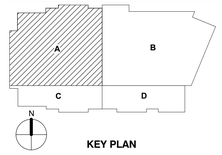

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STORM SHELTER FOUNDATION PLAN

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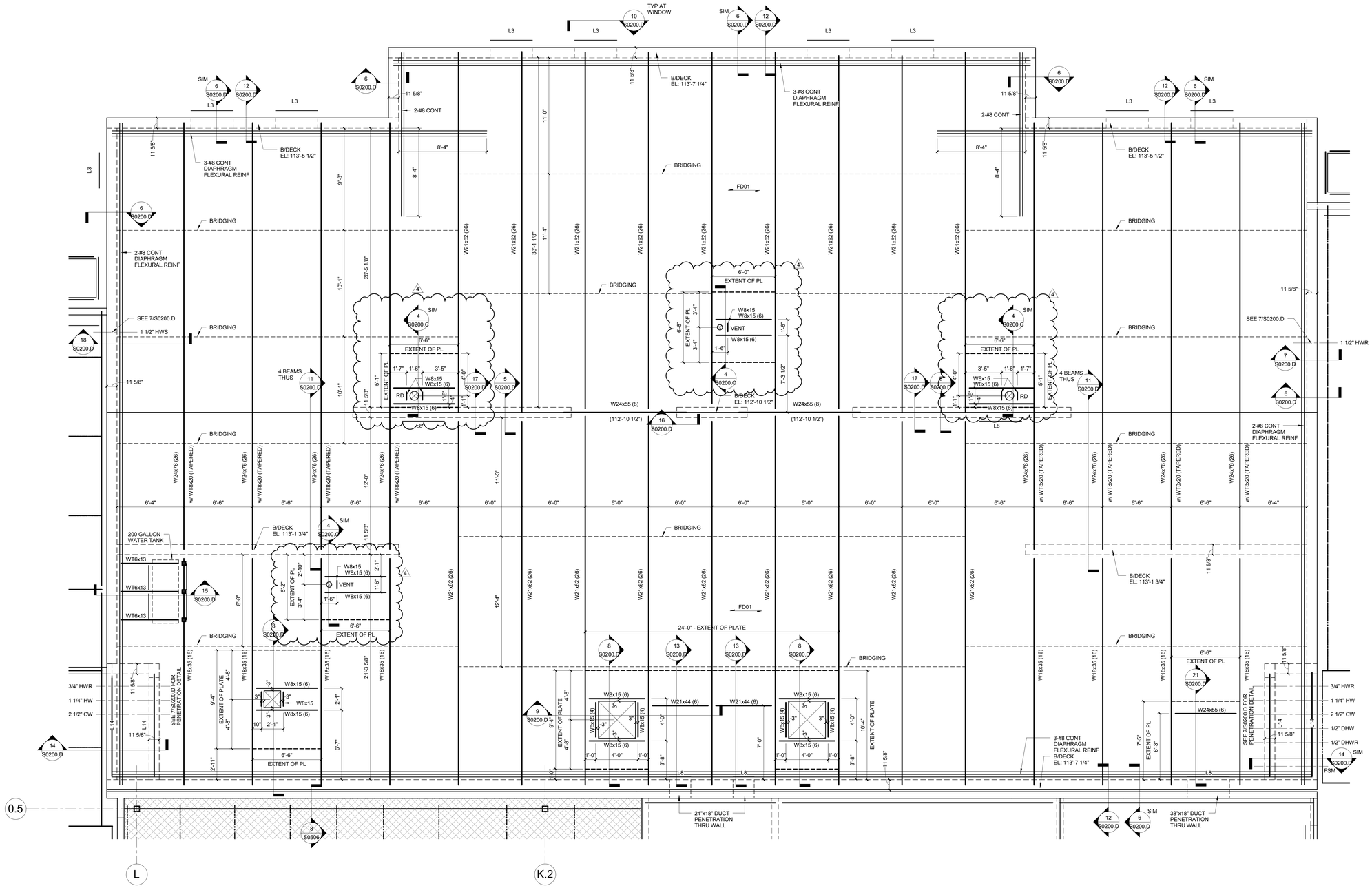

1 STORM SHELTER ROOF FRAMING PLAN
1/4" = 1'-0"

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE DRAWING S0001.
2. TOP OF STEEL ELEVATION = SEE PLAN.
3. FDO_ INDICATES SPAN DIRECTION OF 2" GALV COMPOSITE METAL DECK + 4" NRMLWT CONCRETE REINF w/ #4 AT 12" EA WAY. SEE SCHEDULE ON S0503 FOR DECK REQUIREMENTS.
4. INDICATES SPANDREL BRACE LOCATIONS - SEE S0501
5. INDICATES SLAB/DECK OPENING. SET EDGE OF SLAB AT 6" UNLESS NOTED OTHERWISE. SEE S0503 FOR BEAM SIZES IF NOT INDICATED ON PLAN.
6. INDICATES DIMENSIONS TO BE COORDINATED DURING CONSTRUCTION WITH APPROVED EQUIPMENT.
7. INDICATES DWHR - SEE SCHEDULE S0440
8. CONTRACTOR TO COORD ALL WALL AND ROOF PENETRATION LOCATIONS w/ MEP DWGS.

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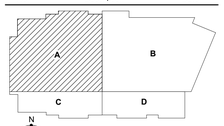

KEY PLAN

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STORM SHELTER ROOF FRAMING PLAN

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NOTES:

1. TYPE OF SHELTER: COMMUNITY TORNADO
2. THIS STRUCTURE WAS DESIGNED TO CONFORM TO THE PROVISIONS OF THE ICC/NSSA *STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS*, 2014
3. THIS COMMUNITY TORNADO SHELTER HAS NOT BEEN CONSTRUCTED IN AN AREA SUSCEPTIBLE TO FLOODING
4. STORM SHELTER FOUNDATIONS SHALL BEAR UPON SOIL WITH AN ALLOWABLE CAPACITY OF 2000 PSF.

DESIGN LOADS

ROOF DEAD LOAD:

2" COMPOSITE METAL DECK + 4" NRML WET CONCRETE	=	63 PSF
ROOFING/INSULATION	=	10 PSF
FRAMING	=	12 PSF
CEILING/MEP	=	10 PSF

3

ROOF LIVE LOAD:
TORNADO SHELTER = 100 PSF

WIND LOADS:
H = 14'-8"
L = 140'-0"
B = 71'-0"
V = 250 MPH
EXPOSURE = C
Kd = 1.0
Kzt = 1.0
GCpi = +/- 0.55
G = 0.85

MAIN WIND FORCE RESISTING SYSTEM LOAD SUMMARY

WALL/ROOF SURFACE	qhGCp	qhGCpi	PRESSURES w/ +GCpi	PRESSURES w/ -GCpi
WINDWARD WALL	+92.48	+/- 74.8	+167.3 psf	+17.7 psf
LEEWARD WALL	-34.7	+/- 74.8	+17.0 psf	-132.6 psf
SIDE WALL	-80.9	+/- 74.8	-6.1 psf	-155.1 psf
WINDWARD ROOF:				
0 to H/2	-104.0	+/- 74.8	-29.2 psf	-178.8 psf
H/2 to H	-104.0	+/- 74.8	-29.2 psf	-178.8 psf
H to 2H	-57.8	+/- 74.8	+17.0 psf	-132.6 psf
> 2H	-34.7	+/- 74.8	+40.1 psf	-109.5 psf

COMPONENTS AND CLADDING LOAD SUMMARY

WALL/ROOF SURFACE	ZONE	10 SF TRIBUTARY	100 SF TRIBUTARY	500 SF TRIBUTARY
ROOF:	NEG ZONE 1	-210.8 psf	-197.2 psf	-197.2 psf
	NEG ZONE 2	-319.6 psf	-224.4 psf	-224.4 psf
	NEG ZONE 3	-455.6 psf	-224.4 psf	-224.4 psf
	POSITIVE	+115.6 psf	+102.0 psf	-224.4 psf
WALLS:	NEG ZONE 4	-224.4 psf	-199.9 psf	-183.6 psf
	NEG ZONE 5	-265.2 psf	-216.2 psf	-183.6 psf
	POSITIVE	+210.8 psf	+186.3 psf	+170.0 psf

CONTRACTOR RESPONSIBILITY:

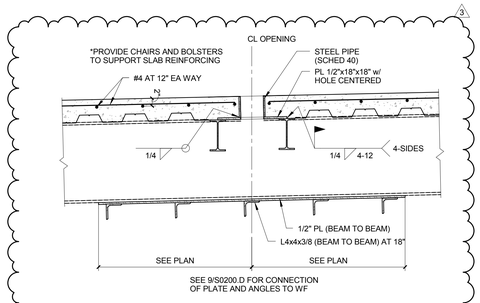
EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION, FABRICATION , OR INSTALLATION OF A MAIN WINDFORCE-RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT PF RESPONSIBILITY SHALL CONTAIN:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAB
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

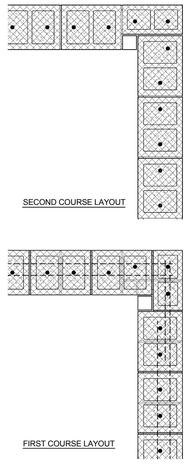
STRUCTURAL OBSERVATIONS:

DURING CONSTRUCTION, THE BUILDING OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO CONDUCT VISUAL OBSERVATIONS OF THE CONSTRUCTION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE CONSTRUCTION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION SHALL NOT OBVIATE THE NEED FOR OTHER INSPECTIONS OR TESTING REQUIRED BY THE ICC-500 OR APPLICABLE BUILDING CODE.

DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND TO THE AUTHORITY HAVING JURISDICTION. AT THE CONCLUSION OF THE WORK, THE REGISTERED DESIGN PROFESSIONAL WHO MADE THE STRUCTURAL OBSERVATIONS SHALL SUBMIT TO THE AUTHORITY HAVING JURISDICTION A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND SHALL IDENTIFY ANY REPORTED DEFICIENCIES THAT TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

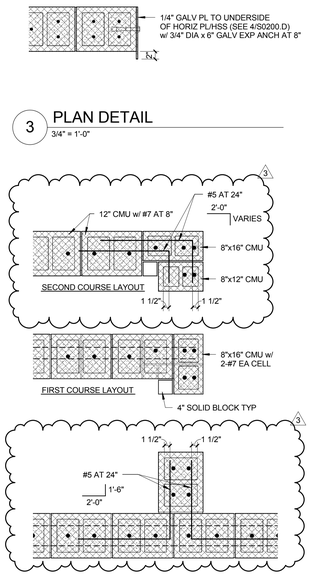


4 SHROUD AT SMALL DIAMETER ROOF PENETRATION
3/4" = 1'-0"



DO NOT PLACE CONTROL JOINTS IN CMU STORM SHELTER WALLS!

2 TYP CMU LAYOUT AT CORNER
3/4" = 1'-0"



3 PLAN DETAIL
3/4" = 1'-0"

1 CMU COURSING AT DOUBLE DOORS
3/4" = 1'-0"

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Civil Consultants
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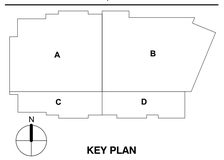
No.	Description	Date
3	ADDENDUM 02	01/27/2017
2	ISSUED FOR BID	01/04/2017
1	PROGRESS PRINT	12/19/2016



KEY PLAN

Drawing Title:

STORM SHELTER NOTES AND DETAILS

Project No.: 005005.00 Checked by: Checker

S0200.C

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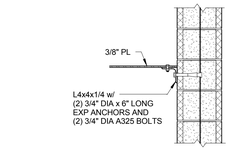
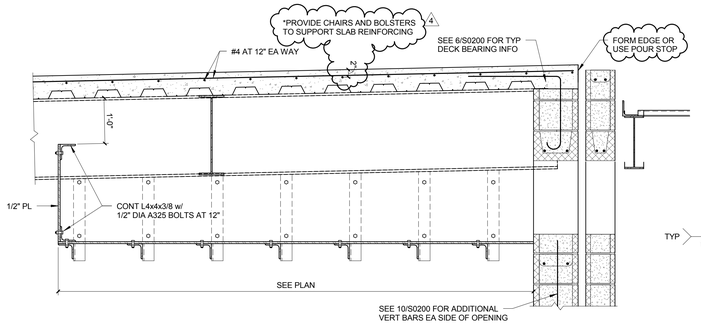
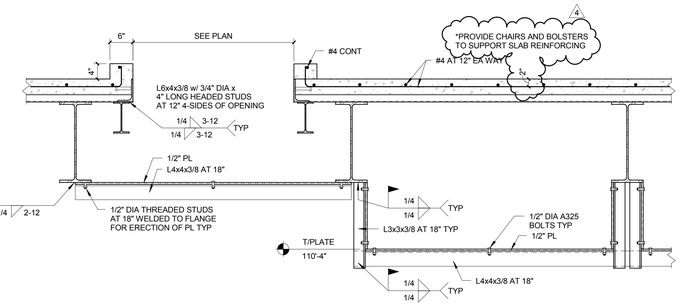


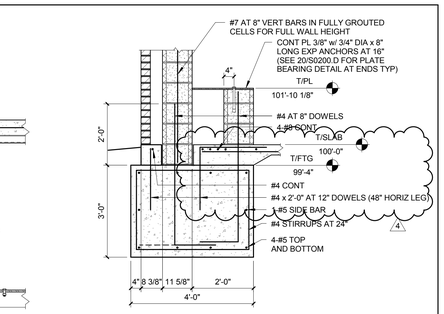
20 PLATE BEARING DETAIL
3/4" = 1'-0"



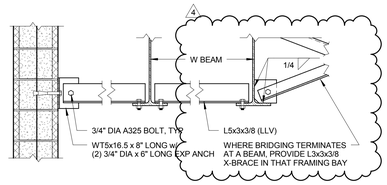
13 SECTION AT WALL PENETRATION SHROUD
3/4" = 1'-0"



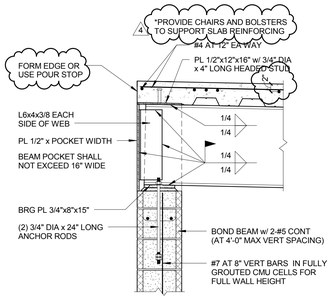
9 SECTION AT ROOF AND WALL PENETRATION SHROUD
3/4" = 1'-0"



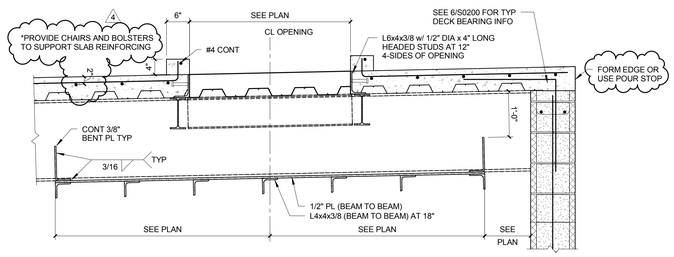
19 SECTION AT PERIMETER FOOTING
1/2" = 1'-0"



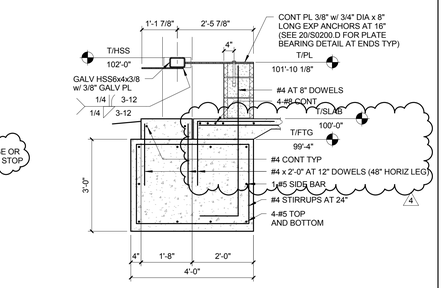
18 TYP BEAM BRIDGING DETAIL
3/4" = 1'-0"



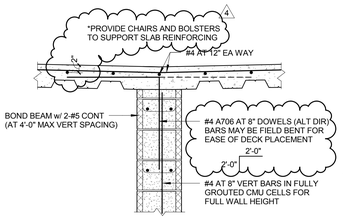
12 SECTION AT EXTERIOR BEAM BEARING
3/4" = 1'-0"



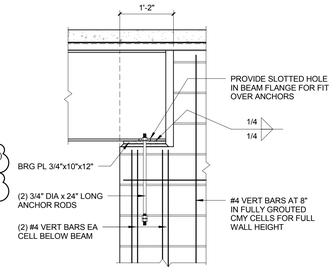
8 TYPICAL DETAIL AT ROOF PENETRATION SHROUD
3/4" = 1'-0"



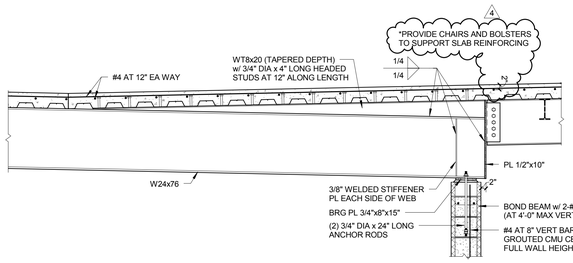
4 SECTION AT PERIMETER FOOTING
1/2" = 1'-0"



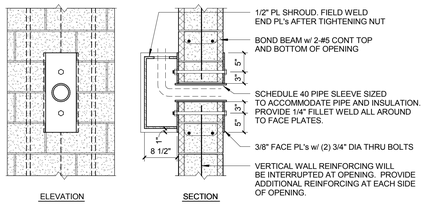
17 SECTION AT DECK BEARING
3/4" = 1'-0"



16 SECTION AT GIRDER BEARING
3/4" = 1'-0"

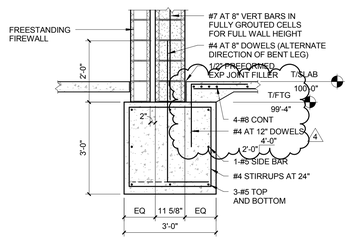


11 SECTION AT BUILT-UP BEAM
1/2" = 1'-0"

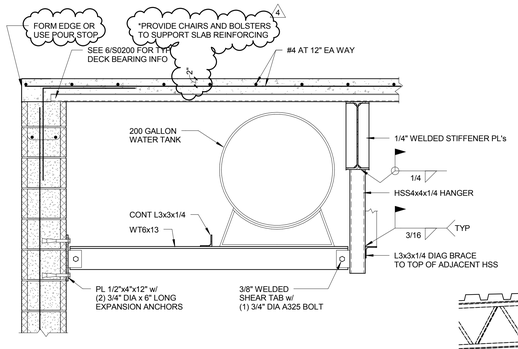


NOTES:
1. THIS DETAIL IS TYPICAL AT ALL PIPE PENETRATIONS EXCEEDING EITHER 3 1/2 SQUARE INCHES OR 2 1/16" DIAMETER
2. EACH SHROUD IS TO ACOMMODATE ONE PIPE. SHROUDS MUST BE SPACED A MINIMUM OF 16" O.C.
3. PIPE PENETRATIONS MUST BE LOCATED AWAY (2'-0" MIN) FROM BEAM BEARING POINTS
4. SEE MEP DWGS FOR PIPE PENETRATION LOCATIONS

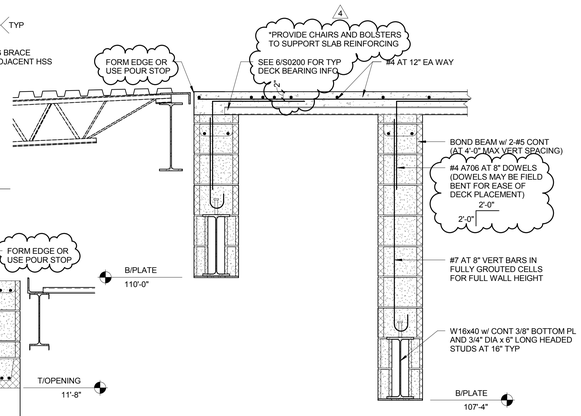
7 TYPICAL DETAIL AT WALL PIPE PENETRATION
3/4" = 1'-0"



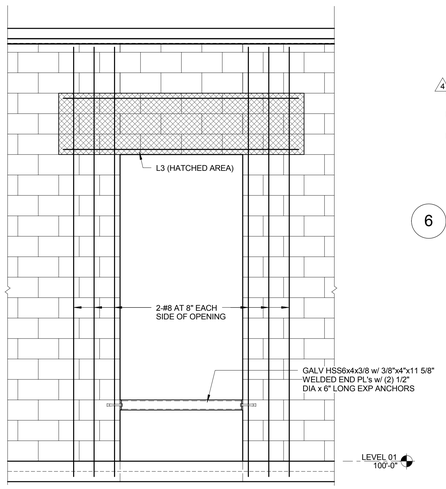
3 SECTION AT PERIMETER FOOTING
1/2" = 1'-0"



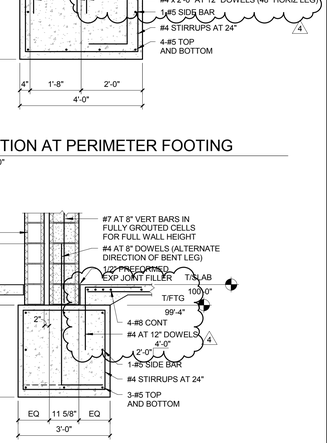
15 WATER TANK SUPPORT DETAIL
3/4" = 1'-0"



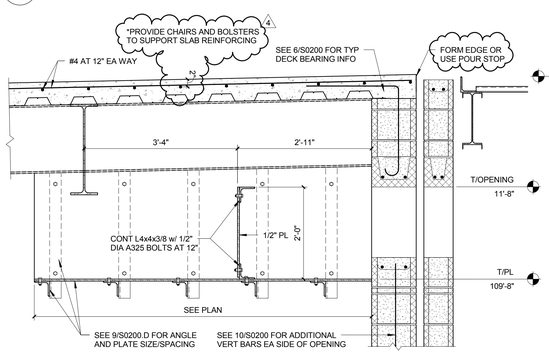
14 SECTION AT ENTRY DOORS
3/4" = 1'-0"



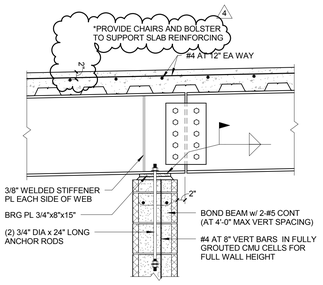
10 TYPICAL WALL REINFORCING AT WINDOWS
1/2" = 1'-0"



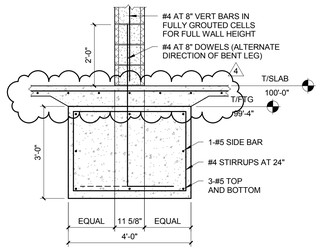
2 SECTION AT PERIMETER FOOTING
1/2" = 1'-0"



21 SECTION AT WALL PENETRATION SHROUD
3/4" = 1'-0"



5 SECTION AT INTERIOR BEAM BEARING
3/4" = 1'-0"



1 SECTION AT INTERIOR FOOTING
1/2" = 1'-0"

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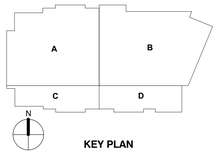
No.	Description	Date
4	ADDENDUM 02	01/27/2017
3	ISSUED FOR BID	01/04/2017
2	PROGRESS PRINT	12/19/2016
1	ISSUED FOR 80% CD	11/17/2016



Drawing Title:

KEY PLAN

STORM SHELTER DETAILS

Project No.: 005005.00 Checked by: Checker

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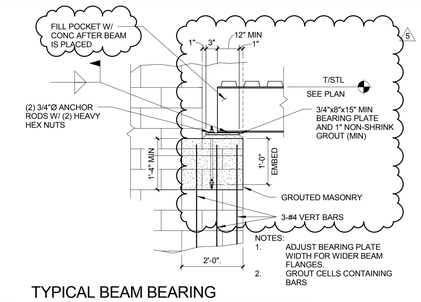
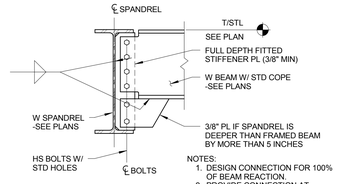


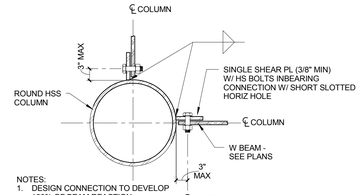
NOTES:
1. ADJUST BEARING PLATE WIDTH FOR WIDER BEAM FLANGES.
2. GROUT CELLS CONTAINING BARS

15 TYPICAL BEAM BEARING PLATE AT PARALLEL MASONRY WALL
3/4" = 1'-0"



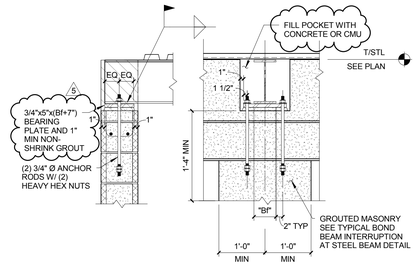
NOTES:
1. DESIGN CONNECTION FOR 100% OF BEAM REACTION.
2. PROVIDE CONNECTION AT OPPOSITE END OF FRAMED BEAM W/ SLOTTED HORIZ HOLES

10 TYPICAL FRAMED BEAM TO SPANDREL CONNECTION
3/4" = 1'-0"

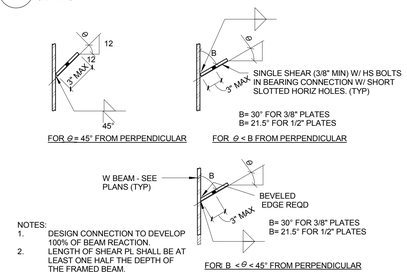


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE SHEAR PLATE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

5 TYPICAL FRAMED BEAM TO ROUND HSS COLUMN CONNECTION
3/4" = 1'-0"

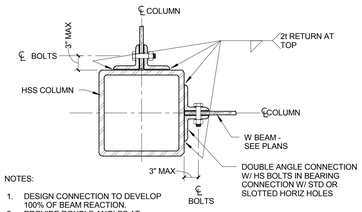


14 TYPICAL BEAM BEARING PLATE AT MASONRY WALL
3/4" = 1'-0"



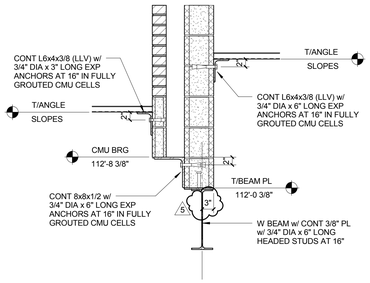
NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. LENGTH OF SHEAR PL SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

9 TYPICAL SKEWED FRAMED BEAM CONNECTION
3/4" = 1'-0"

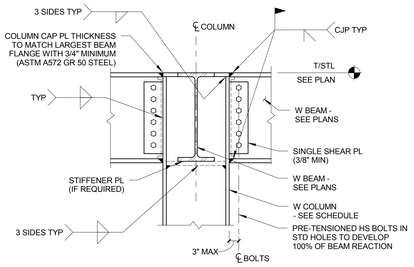


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE DOUBLE ANGLES AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

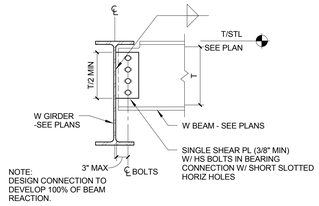
4 TYPICAL FRAMED BEAM TO HSS COLUMN CONNECTION - HSS FACE DIM > 8"
3/4" = 1'-0"



18 SECTION AT ROOF
3/4" = 1'-0"

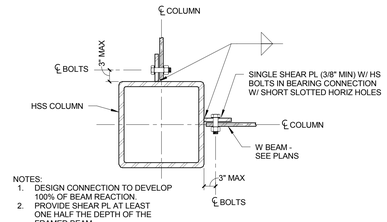


13 TYPICAL BEAM TO COLUMN FLANGE MOMENT CONNECTION AT ROOF
3/4" = 1'-0"



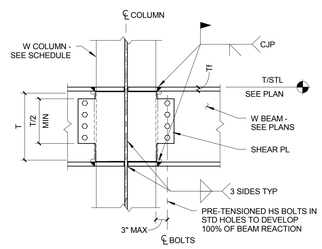
NOTE:
DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.

8 ALTERNATE FRAMED BEAM CONNECTION
3/4" = 1'-0"

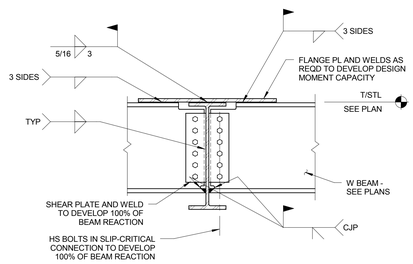


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE SHEAR PL AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

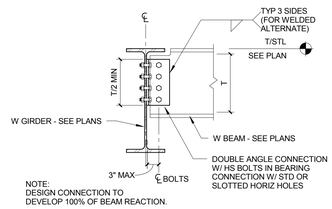
3 TYPICAL FRAMED BEAM TO HSS COLUMN CONNECTION - HSS FACE DIM <8"
3/4" = 1'-0"



17 TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION
3/4" = 1'-0"

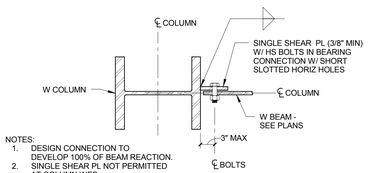


12 TYPICAL BEAM TO BEAM MOMENT CONNECTION
3/4" = 1'-0"



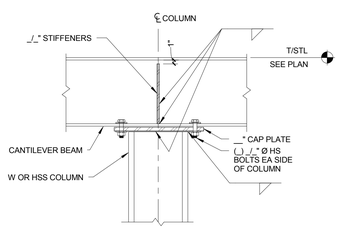
NOTE:
DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.

7 TYPICAL FRAMED BEAM CONNECTION
3/4" = 1'-0"

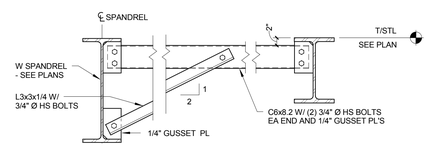


NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. SINGLE SHEAR PL NOT PERMITTED AT COLUMN WEB.
3. LENGTH OF SHEAR PL SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

2 ALTERNATE FRAMED BEAM TO WIDE FLANGE COLUMN CONNECTION
3/4" = 1'-0"

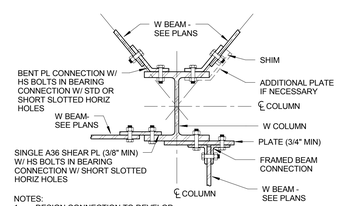


16 CONTINUOUS BEAM OVER TOP OF COLUMN DETAIL
3/4" = 1'-0"



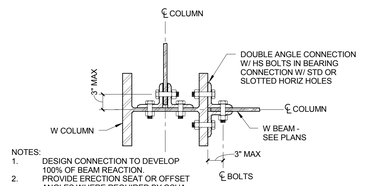
NOTES:
1. PROVIDE BRACE @ 8'-0" OC MAX WHEN NO BEAMS FRAME INTO SPANDREL
2. SEE PLANS FOR DECK ORIENTATION

11 TYPICAL SPANDREL BEAM BRACE
3/4" = 1'-0"



NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. LENGTH OF BENT PL AND SHEAR PLATE SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED BEAM.

6 TYPICAL OFFSET AND SKEWED BEAM TO WIDE FLANGE COLUMN CONNECTION
3/4" = 1'-0"



NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION.
2. PROVIDE ERECTION SEAT OR OFFSET ANGLES WHERE REQUIRED BY OSHA.
3. PROVIDE DOUBLE ANGLES AT LEASTONE HALF THE DEPTH OF THE FRAMED BEAM.

1 TYPICAL FRAMED BEAM TO WIDE FLANGE COLUMN CONNECTION
3/4" = 1'-0"

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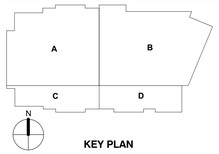
No.	Description	Date
5	ADDENDUM 02	01/27/2017
4	ISSUED FOR BID	01/04/2017
3	PROGRESS PRINT	12/19/2016
2	ISSUED FOR 80% CD	11/17/2016
1	ISSUED FOR DD	08/25/2016



KEY PLAN

Drawing Title:

TYPICAL STEEL FRAMED DETAILS

Project No.: 005005.00 Checked by: Checker

S0501

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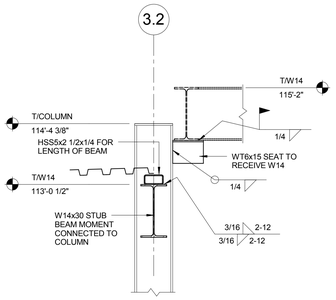
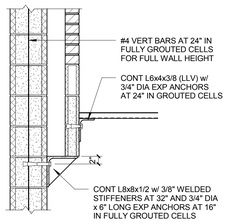
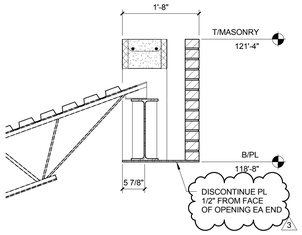
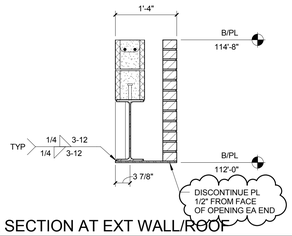


17 SECTION AT COLUMN B.5-3.2
3/4" = 1'-0"

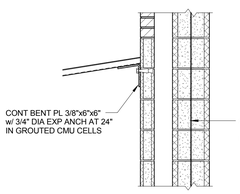


16 SECTION AT GYM WALL/LOW ROOF
3/4" = 1'-0"

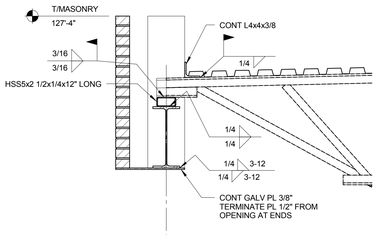


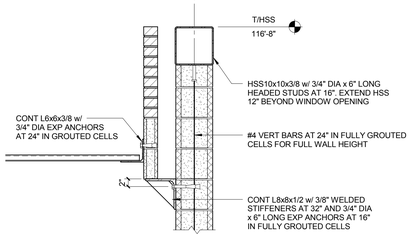


15 SECTION AT EXT WALL/ROOF
3/4" = 1'-0"

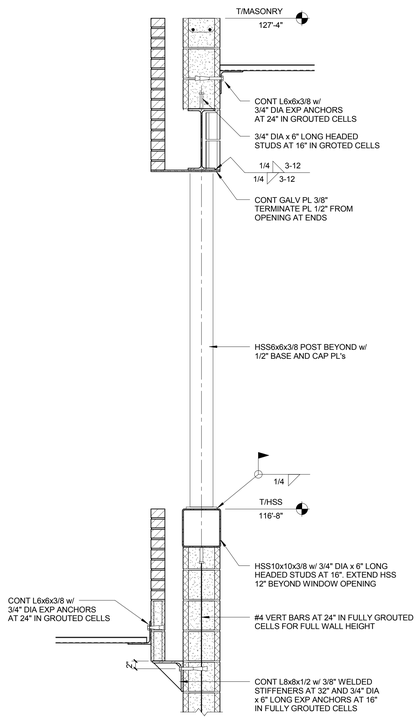


14 SECTION AT ROOF
3/4" = 1'-0"

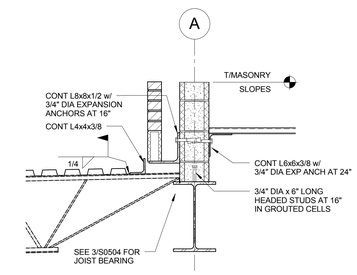




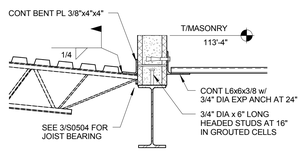
12 SECTION AT GYM WINDOW/ROOF
3/4" = 1'-0"



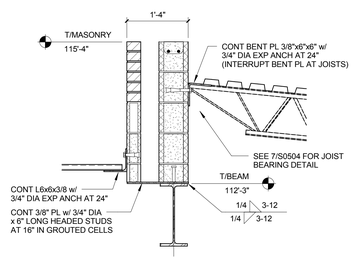
11 SECTION AT GYM WINDOW/ROOF
3/4" = 1'-0"



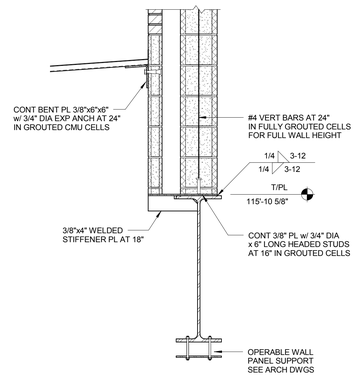
10 SECTION AT ROOF
3/4" = 1'-0"



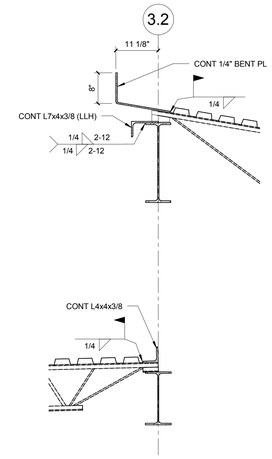
9 SECTION AT ROOF
3/4" = 1'-0"



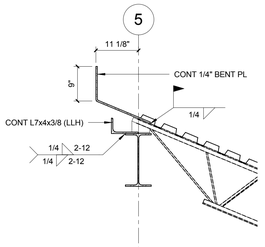
8 SECTION AT ROOF
3/4" = 1'-0"

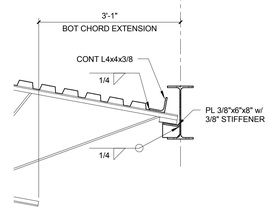


13 SECTION AT OPERABLE PARTITION BEAM
3/4" = 1'-0"

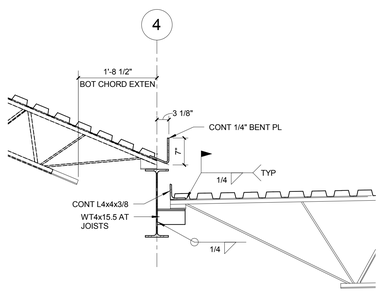


7 SECTION AT ROOF
3/4" = 1'-0"

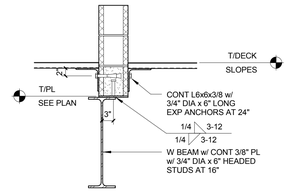




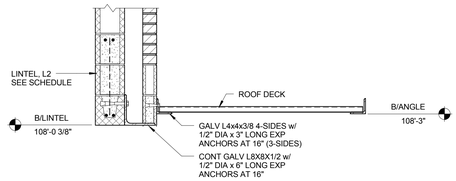
6 SECTION AT ROOF
3/4" = 1'-0"



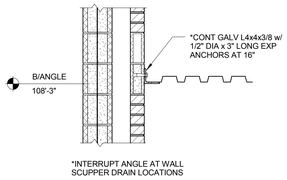
5 SECTION AT ROOF
3/4" = 1'-0"



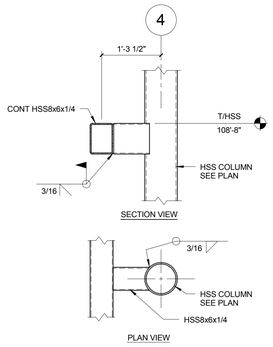
4 SECTION
3/4" = 1'-0"



3 SECTION AT CANOPY
3/4" = 1'-0"



2 SECTION AT CANOPY
3/4" = 1'-0"



1 TYP CURTAIN WALL SUPPORT AT LIBRARY
3/4" = 1'-0"

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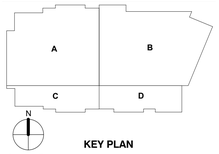
2	ISSUED FOR BID	01/04/2017
1	PROGRESS PRINT	12/19/2016



KEY PLAN

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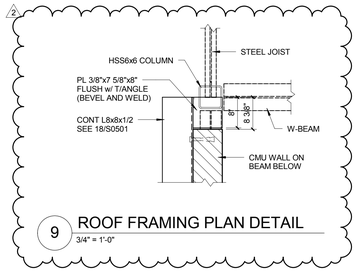
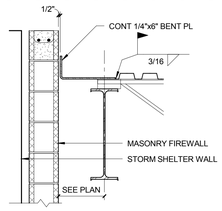
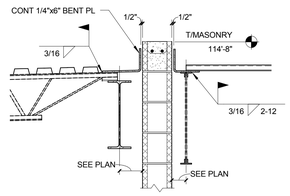


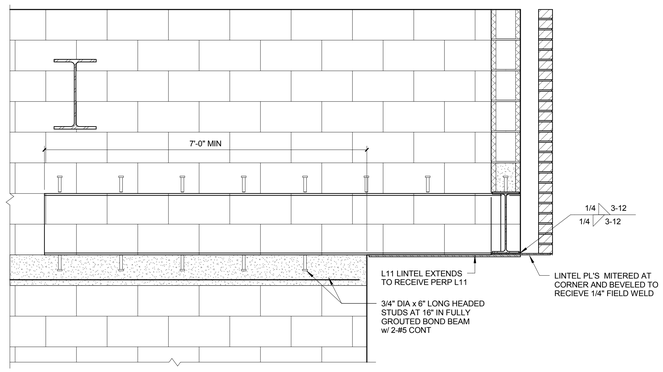
9 ROOF FRAMING PLAN DETAIL
3/4" = 1'-0"



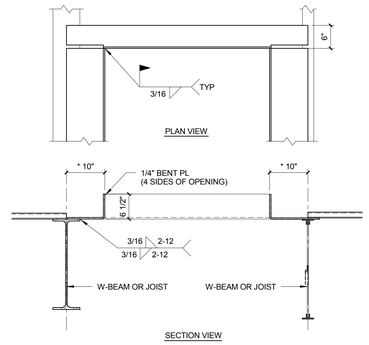
8 SECTION AT ROOF AT FIREWALL
3/4" = 1'-0"



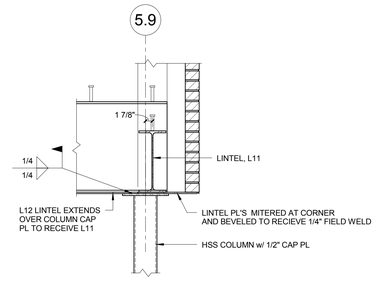
7 SECTION AT ROOF AT FIREWALL
3/4" = 1'-0"



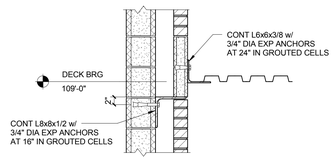
6 SECTION AT CANTILEVERED LINTEL
3/4" = 1'-0"



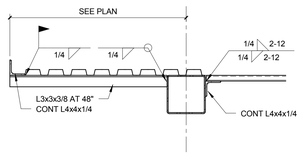
5 TYPICAL DETAIL AT SKYLIGHT
3/4" = 1'-0"



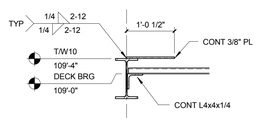
4 SECTION AT ADJOINING LINTELS
3/4" = 1'-0"



3 SECTION AT MAIN ENTRY ROOF
3/4" = 1'-0"



2 SECTION AT ENTRY CANOPY
3/4" = 1'-0"



1 SECTION AT ENTRY CANOPY
3/4" = 1'-0"

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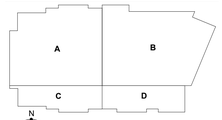
1	ISSUED FOR BID	01/04/2017



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SCHOOL A ZONE 2

ARMER DRIVE, CHERRY VALLEY, IL

VOLUME 2

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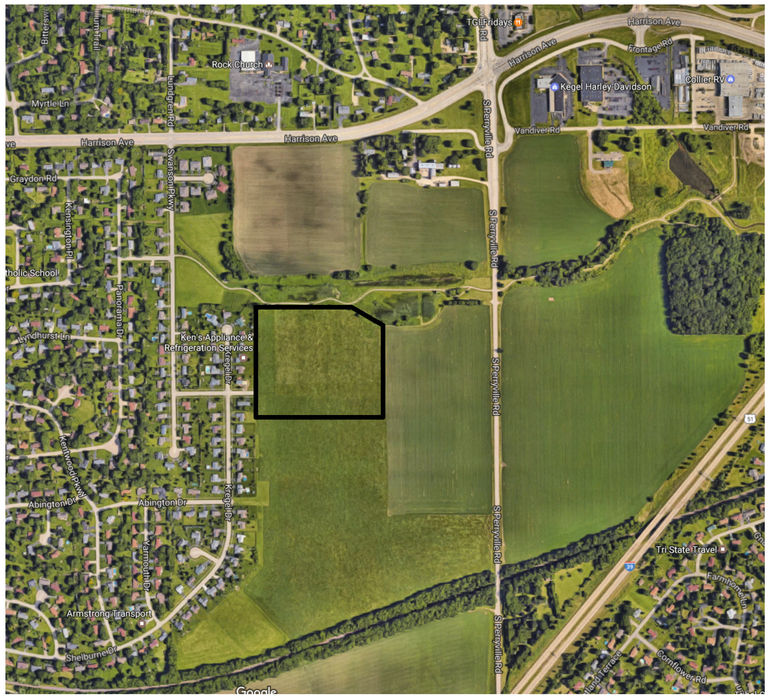

VICINITY MAP

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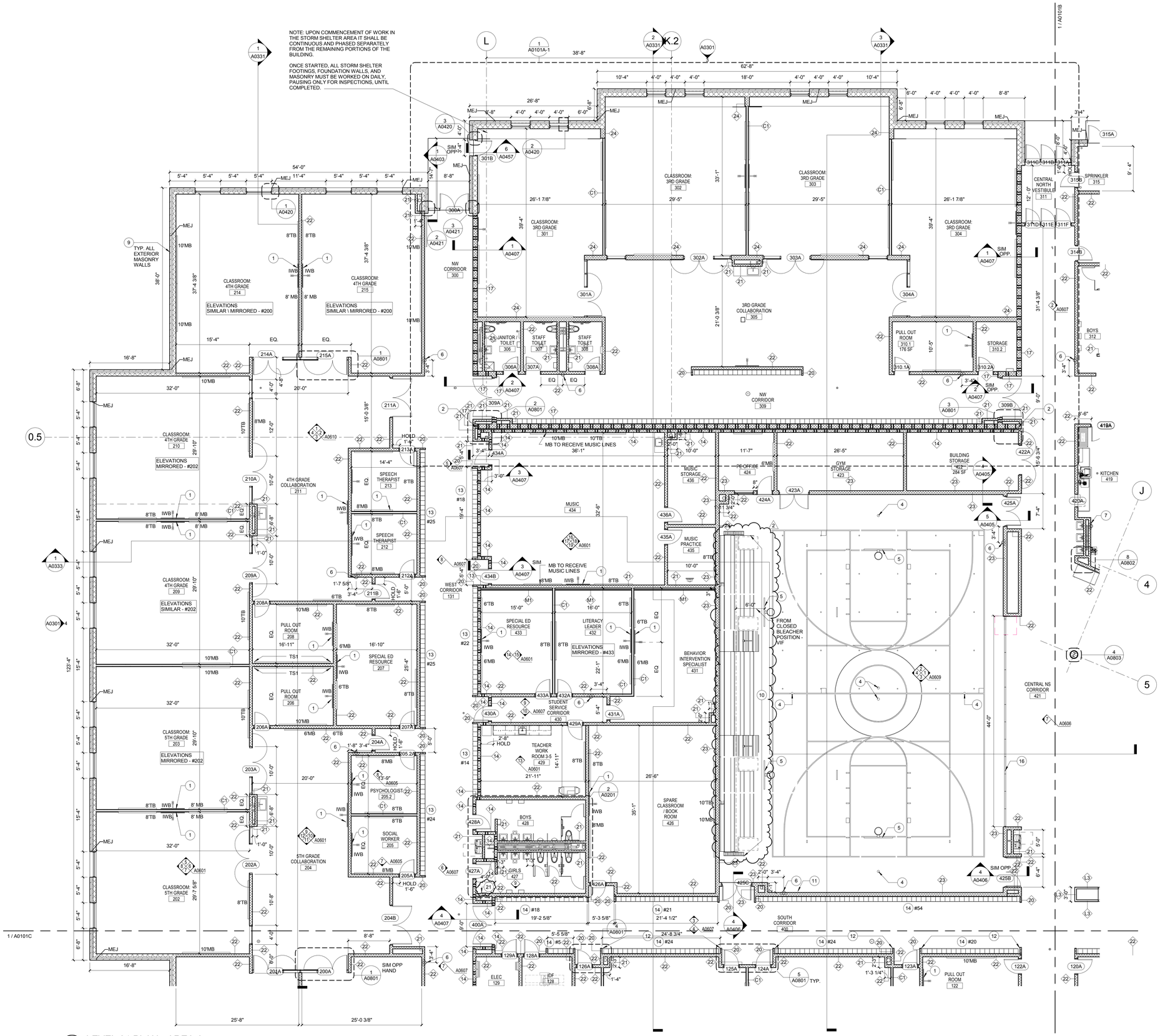

1 LEVEL 01 PLAN - AREA A
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. REFER TO SHEET A0001 FOR LIST OF TYPICAL ABBREVIATIONS AND TYPICAL ARCHITECTURAL GRAPHIC LEGENDS AND SYMBOLS.
2. REFER TO ENLARGED ELEVATIONS FOR EXTERIOR FINISHES AND FRAME TYPES.
3. ALL EXTERIOR WALL ASSEMBLIES ARE BC-0 UNO.
4. SEE A0400 FOR EXTERIOR WALL ASSEMBLIES TYPES, THICKNESSES, AND MATERIALS
5. REFER TO SHEET A0002 FOR TYPICAL MOUNTING HEIGHTS.
6. DIMENSIONS ARE FROM FACE OF WALL UNLESS NOTED OTHERWISE.
7. OPENING DIMENSIONS ARE FROM FACE OF WALL TO OUTSIDE OF FRAME.
8. IF OPENING IS NOT DIMENSIONED, OUTSIDE FACE OF FRAME TO BE 4" FROM ADJACENT PARTITION.
9. PROVIDE BLOCKING AT WALL HUNG ACCESSORIES, EQUIPMENT AND CASEWORK.
10. PREPARE SUBSURFACE AS REQUIRED FOR NEW FLOORING FINISH.

FLOOR PLAN NOTES

1. INTERACTIVE WHITE BOARD, FURNISHED BY OWNER, CONTRACTOR-INSTALLED
2. BUILDING EXPANSION JOINT WITH CONTINUOUS RATED EXPANSION JOINT COVER AT WALL/CEILING
3A. **ALTERNATE 1A:** PROVIDE MILLWORK CUBBIES WITH COAT HOOKS
3B. **ALTERNATE 1B:** PROVIDE LOCKABLE WALL CASEWORK CABINETS ABOVE KINDERGARTEN CUBBIES
4. VOLLEYBALL INSERT (TYP. 6)
5. MOTORIZED, FORWARD FOLD, HEIGHT ADJUSTABLE BACKSTOP (TYP. 4)
6. FIRE EXTINGUISHER CABINET - RECESSED
7. FIRE EXTINGUISHER - TYPE K
8. WALL MOUNTED STEEL ROOF ACCESS LADDER - PAINTED
9. ALL EXTERIOR FACE BRICK TO RECEIVE ANI-GRAFFITI COATING FULL HEIGHT
10. BLEACHERS, SEE SPECIFICATION
11. SCORE BOARD, SEE SPECIFICATION
12. **ALTERNATE 2:** DISPLAYCASE, SEE INTERIOR ELEVATIONS AND SPECIFICATION
13. DOUBLE TIER LOCKERS, SEE SPECIFICATION
14. SINGLE TIER LOCKERS, SEE SPECIFICATION
16. MODERNFOLD OPERABLE PARTITION, SEE SPECIFICATION
17. **ALTERNATE 3:** MILLWORK AND TREE SEE A0901
18. NANAWALL OPERABLE PARTITION, SEE SPECIFICATION
19. DISPLAYCASE, SEE INTERIOR ELEVATIONS AND SPECIFICATION
20. 1/2" CHAMFER AT FOUNDATION IN THIS LOCATION
21. ACCESS PANEL
22. KNOX BOX - RECESSED

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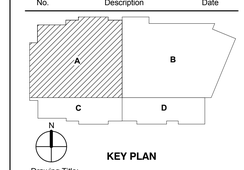
No.	Description	Date
2	ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

LEVEL 01 PLAN - AREA A

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A0101A

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GENERAL FLOOR PLAN NOTES

1. REFER TO SHEET A0001 FOR LIST OF TYPICAL ABBREVIATIONS AND TYPICAL ARCHITECTURAL GRAPHIC LEGENDS AND SYMBOLS.

2. REFER TO ENLARGED ELEVATIONS FOR EXTERIOR FINISHES AND FRAME TYPES.

3. ALL EXTERIOR WALL ASSEMBLIES ARE BC-0 UNO.

4. SEE A0400 FOR EXTERIOR WALL ASSEMBLIES TYPES, THICKNESSES, AND MATERIALS

5. REFER TO SHEET A0002 FOR TYPICAL MOUNTING HEIGHTS.

6. DIMENSIONS ARE FROM FACE OF WALL UNLESS NOTED OTHERWISE.

7. OPENING DIMENSIONS ARE FROM FACE OF WALL TO OUTSIDE OF FRAME.

8. IF OPENING IS NOT DIMENSIONED, OUTSIDE FACE OF FRAME TO BE 4" FROM ADJACENT PARTITION.

9. PROVIDE BLOCKING AT WALL HUNG ACCESSORIES, EQUIPMENT AND CASEWORK.

10. PREPARE SUBSURFACE AS REQUIRED FOR NEW FLOORING FINISH.

FLOOR PLAN NOTES

1. INTERACTIVE WHITE BOARD, FURNISHED BY OWNER, CONTRACTOR-INSTALLED
2. BUILDING EXPANSION JOINT WITH CONTINUOUS RATED EXPANSION JOINT COVER AT WALL/CEILING
3A. **ALTERNATE 1A:** PROVIDE MILLWORK CUBBIES WITH COAT HOOKS
3B. **ALTERNATE 1B:** PROVIDE LOCKABLE WALL CASEWORK CABINETS ABOVE KINDERGARTEN CUBBIES
4. VOLLEYBALL INSERT (TYP. 6)
5. MOTORIZED, FORWARD FOLD, HEIGHT ADJUSTABLE BACKSTOP (TYP. 4)
6. FIRE EXTINGUISHER CABINET - RECESSED
7. FIRE EXTINGUISHER - TYPE K
8. WALL MOUNTED STEEL ROOF ACCESS LADDER - PAINTED
9. ALL EXTERIOR FACE BRICK TO RECEIVE ANI-GRAFFITI COATING FULL HEIGHT
10. BLEACHERS, SEE SPECIFICATION
11. SCORE BOARD, SEE SPECIFICATION
12. **ALTERNATE 2:** DISPLAYCASE, SEE INTERIOR ELEVATIONS AND SPECIFICATION
13. DOUBLE TIER LOCKERS, SEE SPECIFICATION
14. SINGLE TIER LOCKERS, SEE SPECIFICATION
16. MODERNFOLD OPERABLE PARTITION, SEE SPECIFICATION
17. **ALTERNATE 3:** MILLWORK AND TREE SEE A0901
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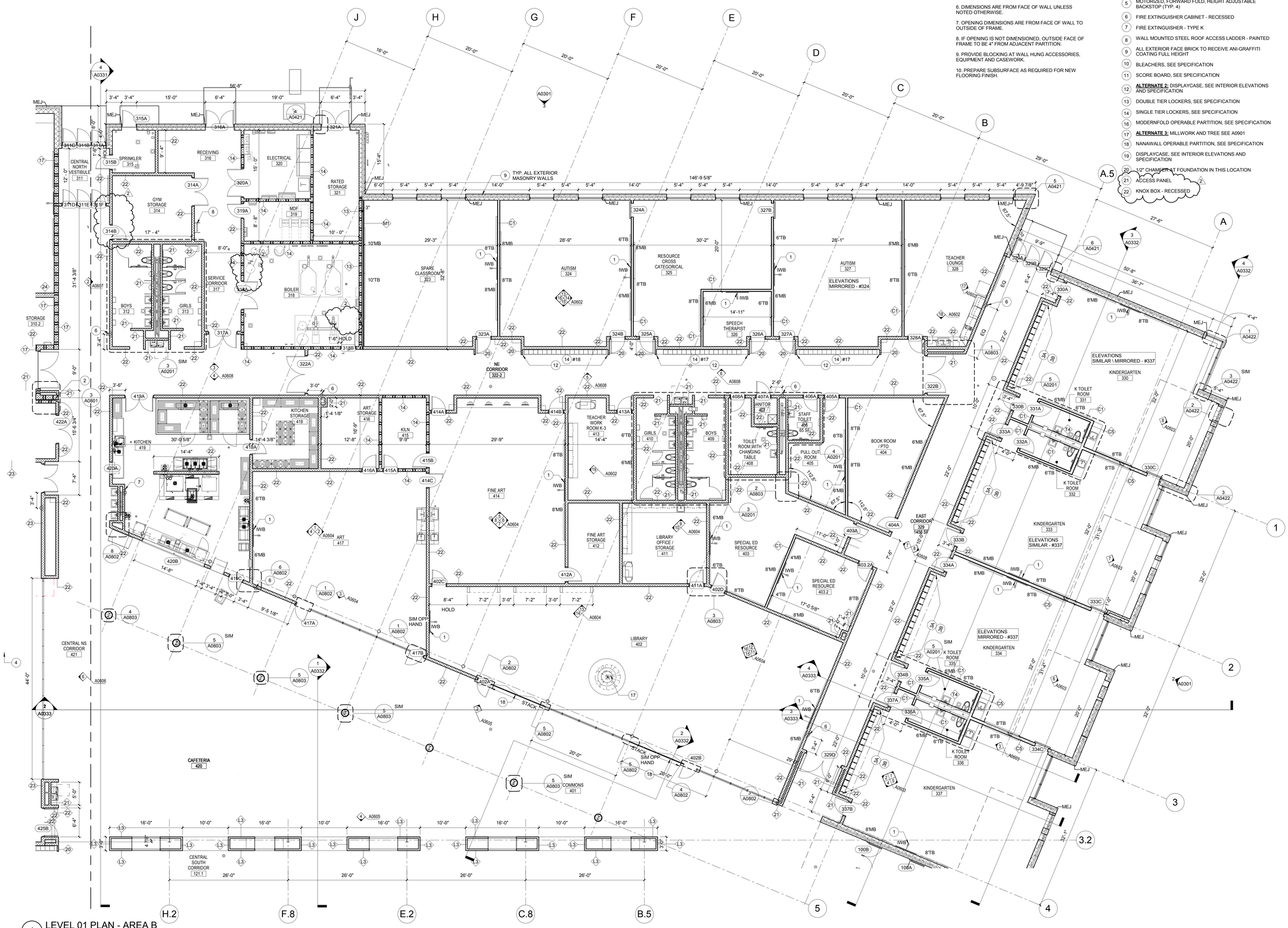
19. DISPLAYCASE, SEE INTERIOR ELEVATIONS AND SPECIFICATION
20. 1/2" CHAMFER AT FOUNDATION IN THIS LOCATION
21. ACCESS PANEL
22. KNOX BOX - RECESSED



1 LEVEL 01 PLAN - AREA B
1/8" = 1'-0"

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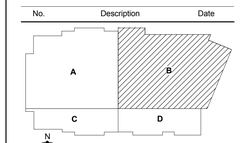

KEY PLAN

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LEVEL 01 PLAN - AREA B

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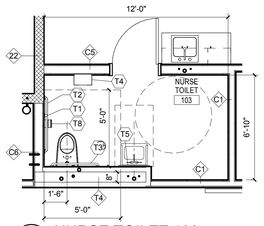
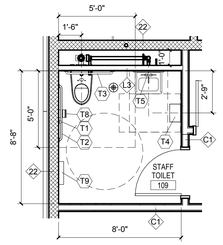
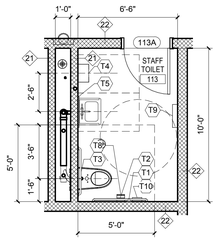


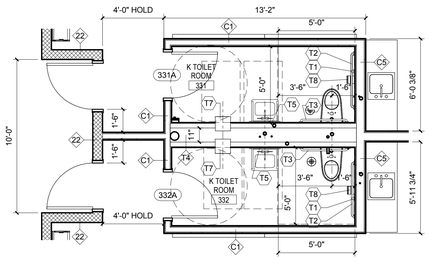
8 NURSE TOILET 103
1/4" = 1'-0"



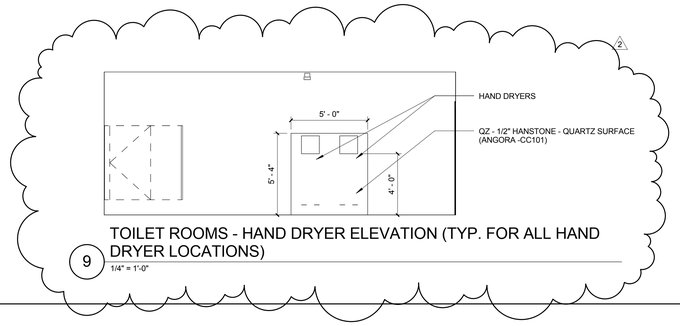
7 STAFF TOILET 119
1/4" = 1'-0"



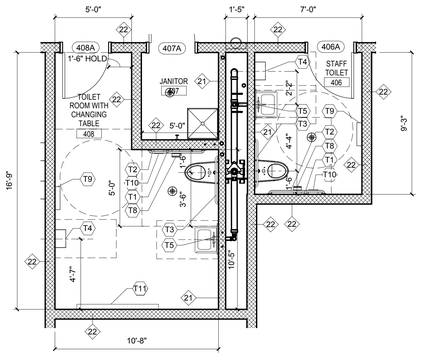
6 STAFF TOILET ROOM 113
1/4" = 1'-0"



5 K TOILET ROOMS 331 AND 332, TYP.
1/4" = 1'-0"



9 TOILET ROOMS - HAND DRYER ELEVATION (TYP. FOR ALL HAND DRYER LOCATIONS)
1/4" = 1'-0"

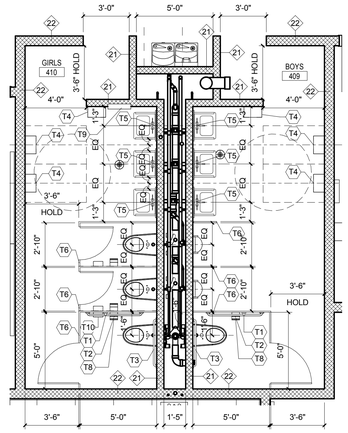


4 TOILET ROOM 408 AND STAFF TOILET 406
1/4" = 1'-0"

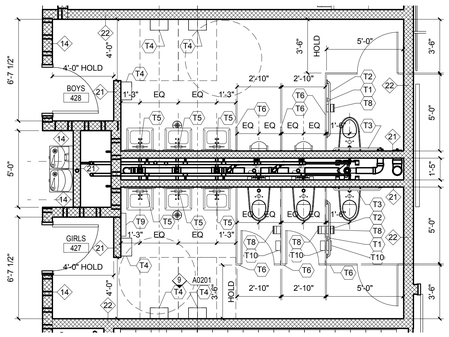
TOILET ACCESSORIES

SYMBOL	ITEM	MANUFACTURER	MODEL #	MOUNTING
T1	18" GRAB BAR	BOBRICK OR OWNER APPROVED EQUAL	TBD	SURFACE MOUNT
T2	42" GRAB BAR	BOBRICK OR OWNER APPROVED EQUAL	B-6881 SATIN FINISH	SURFACE MOUNT
T3	36" GRAB BAR	BOBRICK OR OWNER APPROVED EQUAL	B-6806 SATIN FINISH	SURFACE MOUNT
T4	HAND DRYER	AMERICAN SPECIALTIES INC	0165	SURFACE MOUNT
T5	MIRROR	BOBRICK OR OWNER APPROVED EQUAL	B-290 2436	SURFACE MOUNT 3'-4" AFF
T6	TOILET PARTITION	SEE SPEC	SEE SPEC	FLOOR MOUNT
T7	PAPER TOWEL DISPENSER	OWNER FURNISHED AND INSTALLED	OWNER FURNISHED AND INSTALLED	SURFACE MOUNT
T8	TOILET PAPER DISPENSER	OWNER FURNISHED AND INSTALLED	OWNER FURNISHED AND INSTALLED	SURFACE MOUNT
T9	SANITARY NAPKIN VENDOR	BOBRICK OR OWNER APPROVED EQUAL	B-3706 25	SEMI-RECESSED
T10	SANITARY NAPKIN DISPOSAL	BOBRICK OR OWNER APPROVED EQUAL	TBD	PARTITION MOUNTED
T11	CHANGING STATION	FOUNDATIONS BROCAR OR OWNER APPROVED EQUAL	100-SSE-SM	SURFACE MOUNT

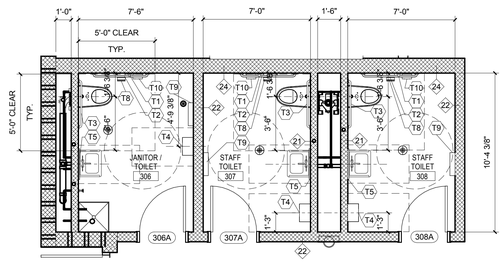
NOTE: REINFORCE GWB PARTITIONS AT WALL MOUNTED TOILET ACCESSORIES WITH IN-WALL BLOCKING.



3 TOILET ROOMS BOYS 409 AND GIRLS 410, TYP.
1/4" = 1'-0"



2 TOILET ROOMS BOYS 428 AND GIRLS 427
1/4" = 1'-0"



1 STAFF TOILET ROOMS 307 AND 308
1/4" = 1'-0"

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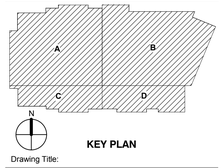

KEY PLAN

Drawing Title:

ENLARGED PLANS - TOILET ROOMS

Project No.: 005005.00 Checked by: Checker

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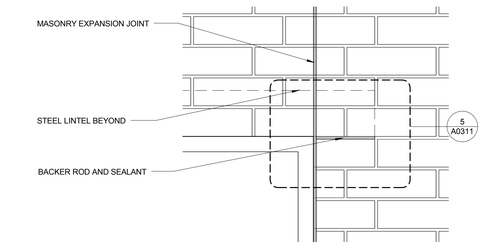
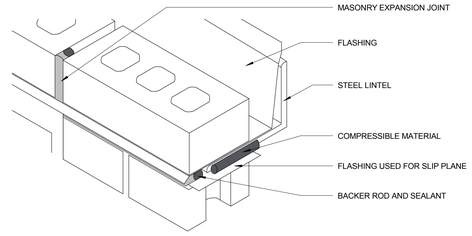


4 LOOSE LINTEL EXPANSION DETAIL
1 1/2" = 1'-0"



5 EXPANSION JOINT AT LOOSE LINTEL
3" = 1'-0"

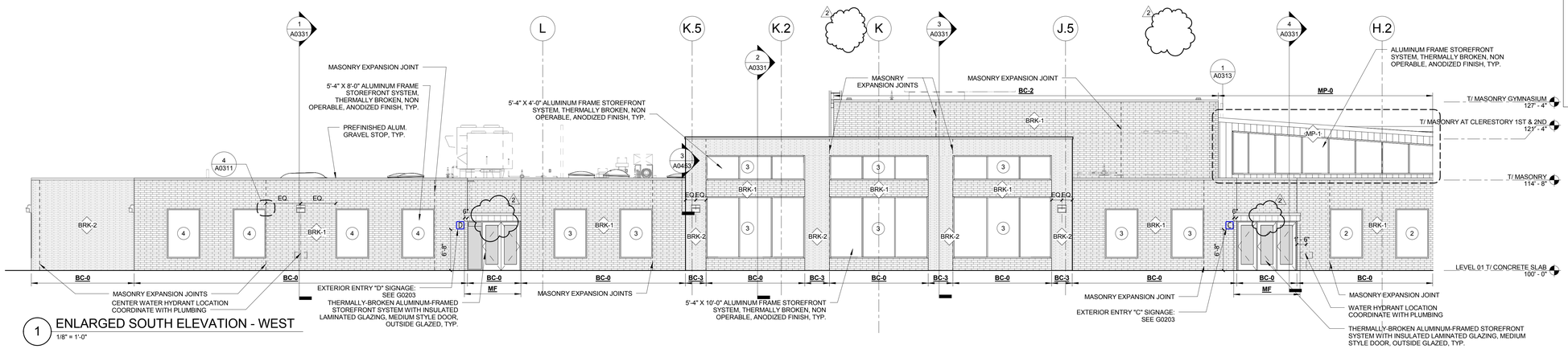
ELEVATION NOTES

1. ALUMINUM TRIM ALL 4 SIDES, CLEAR ANODIZED
2. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED RED
3. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED YELLOW
4. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED BLUE
5. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED GREEN
6. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED ORANGE
7. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED PURPLE

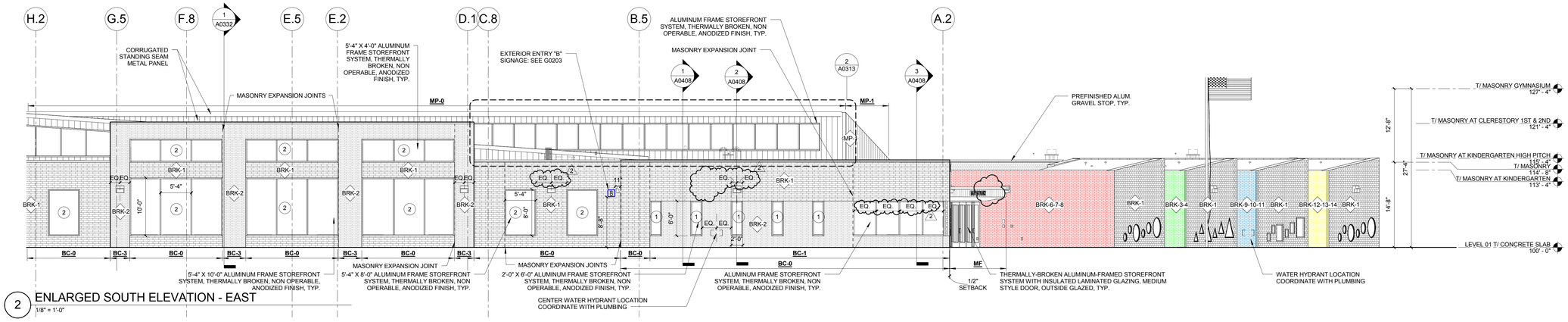
ELEVATION LEGEND

1. ALL BRICK TO BE BRK-1 UNLESS NOTED OTHERWISE
2. SPECIAL BRICK CORNERS FOR BRK-2 THROUGH BRK-14
3. WEEP HOLE VENTILATORS @ 24" OC AT FOUNDATIONS, SILLS AND TOP FOR BRK-2 THROUGH BRK-14
4. XX.X — SEE A400 FOR WALL CONSTRUCTION

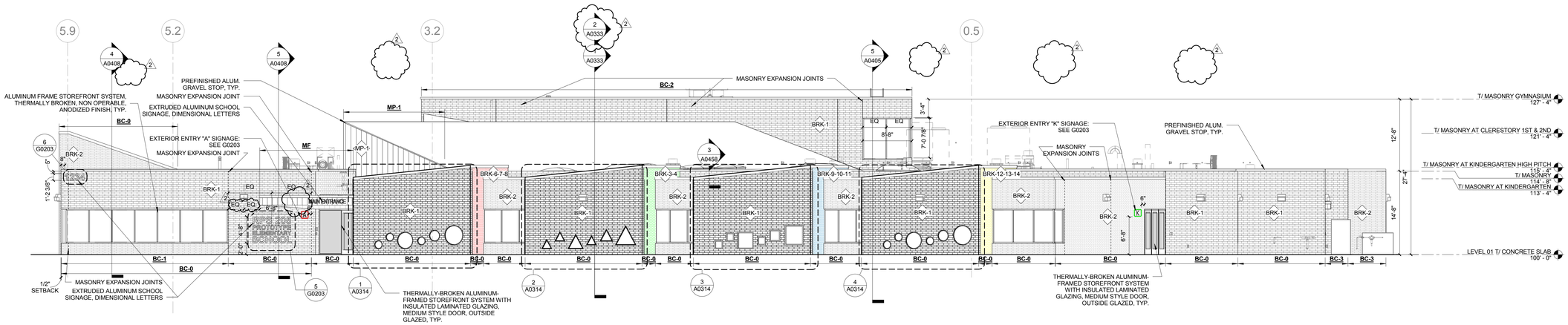
BRK-1	BRICK 1 - UTILITY - 1/3 RUNNING BOND 2 COURSES = 8"
BRK-2	BRICK 2 - NORMAN - 1/3 RUNNING BOND 3 COURSES = 8"
BRK-3-4	COLORED BRICK PATTERN "A": BRICK TYPES 3-4 - MODULAR - RUNNING BOND 2 COURSES = 8"
BRK-6-7-8	COLORED BRICK PATTERN "B": BRICK TYPES 6-7-8 - MODULAR - RUNNING BOND 2 COURSES = 8"
BRK-9-10-11	COLORED BRICK PATTERN "C": BRICK TYPES 9-10-11 - MODULAR - RUNNING BOND 2 COURSES = 8"
BRK-12-13-14	COLORED BRICK PATTERN "D": BRICK TYPES 12-13-14 - MODULAR - RUNNING BOND 2 COURSES = 8"
MP-1	FORMED METAL PANEL
L-1	CONTINUOUS BLADE ARCHITECTURAL LOUVER



1 ENLARGED SOUTH ELEVATION - WEST
1/8" = 1'-0"



2 ENLARGED SOUTH ELEVATION - EAST
1/8" = 1'-0"



3 ENLARGED EAST ELEVATION
1/8" = 1'-0"

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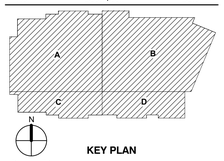

KEY PLAN

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EXTERIOR ELEVATIONS

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ELEVATION NOTES

1. ALUMINUM TRIM ALL 4 SIDES, CLEAR ANODIZED
2. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED RED
3. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED YELLOW
4. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED BLUE
5. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED GREEN
6. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED ORANGE
7. ALUMINUM TRIM ALL 4 SIDES, PREFINISHED PURPLE

ELEVATION LEGEND

1. ALL BRICK TO BE BRK-1 UNLESS NOTED OTHERWISE
2. SPECIAL BRICK CORNERS FOR BRK-2 THROUGH BRK-14
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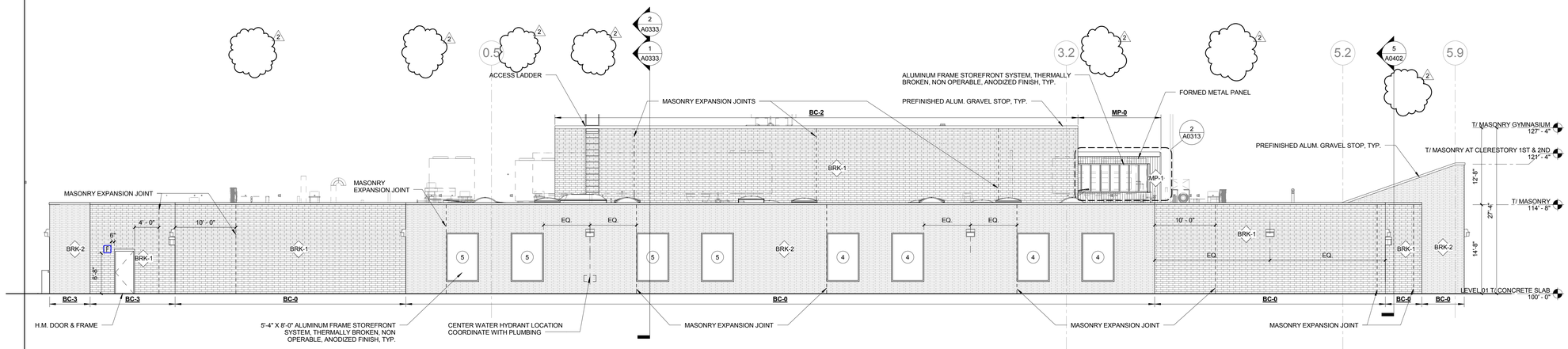
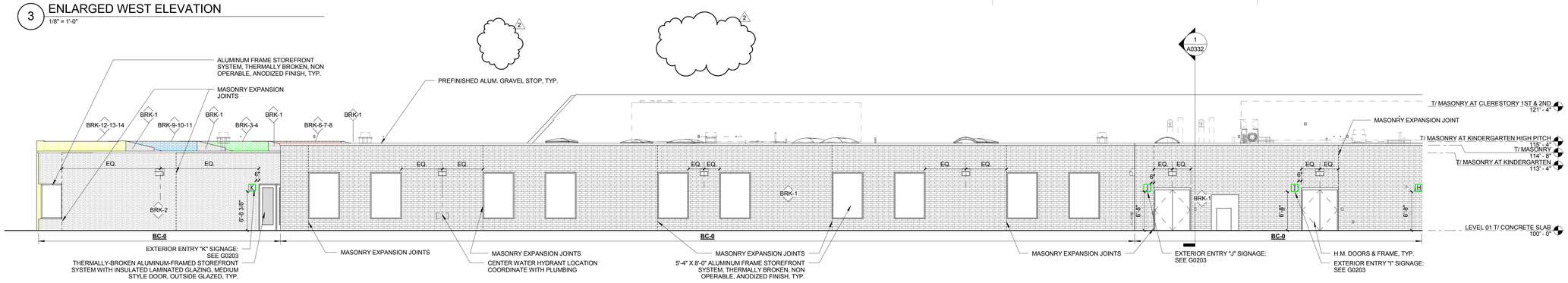
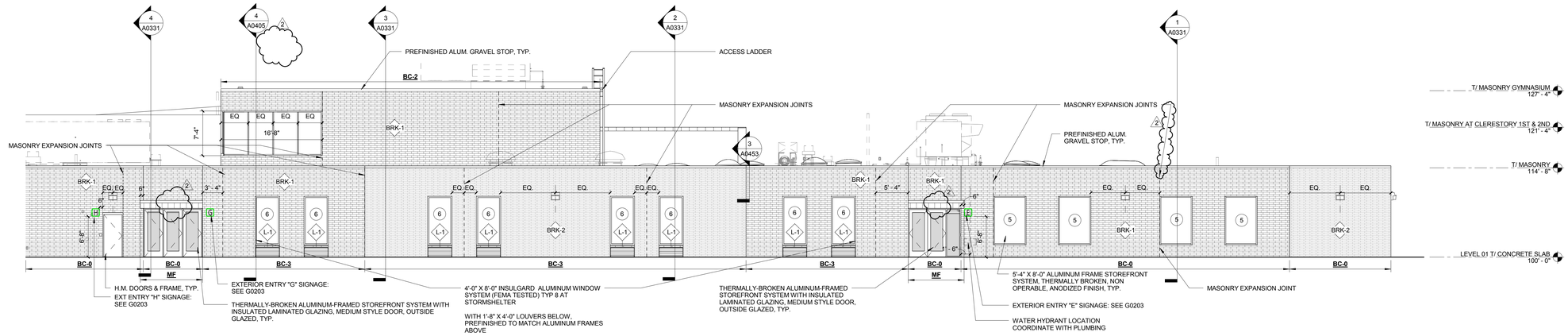


3 ENLARGED WEST ELEVATION
1/8" = 1'-0"



1 ENLARGED NORTH ELEVATION - EAST
1/8" = 1'-0"



2 ENLARGED NORTH ELEVATION - WEST
1/8" = 1'-0"

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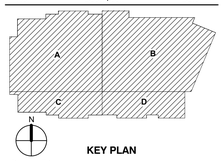

KEY PLAN

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EXTERIOR ELEVATIONS

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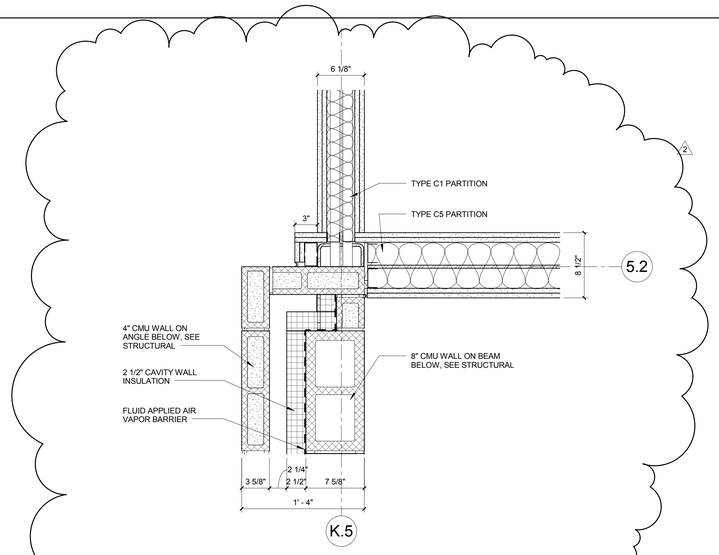
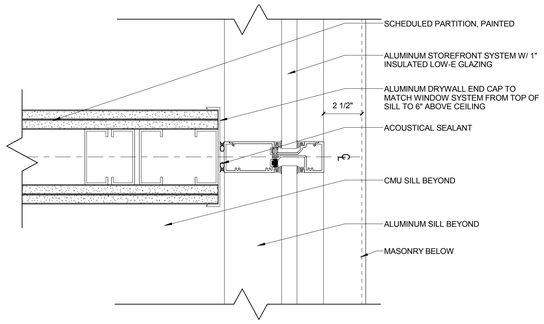


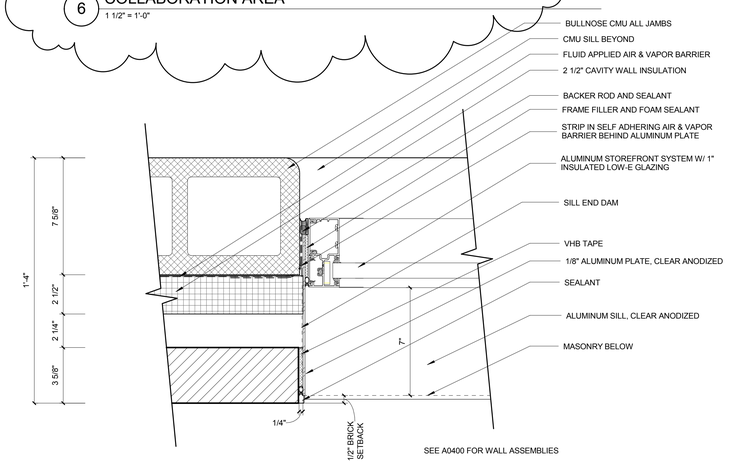
6 PLAN DETAIL - ABOVE BEAM TYP. AT 1ST AND 2ND GRADE COLLABORATION AREA
1 1/2" = 1'-0"



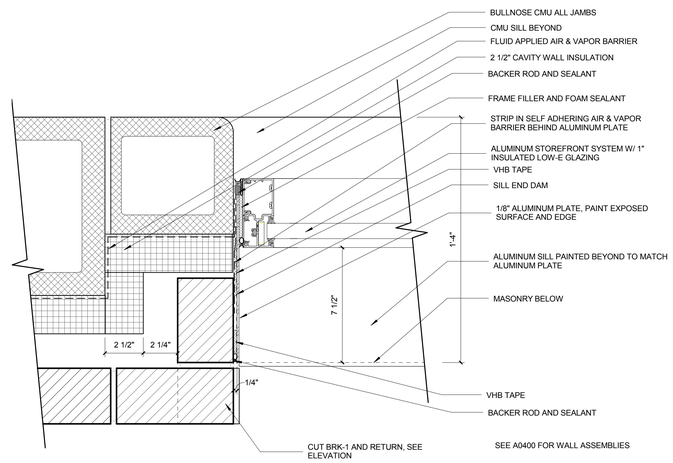
3 EXTERIOR PLAN DETAIL - RECEPTION 101 WALL AT MULLION
3" = 1'-0"

A0400 SERIES GENERAL NOTES

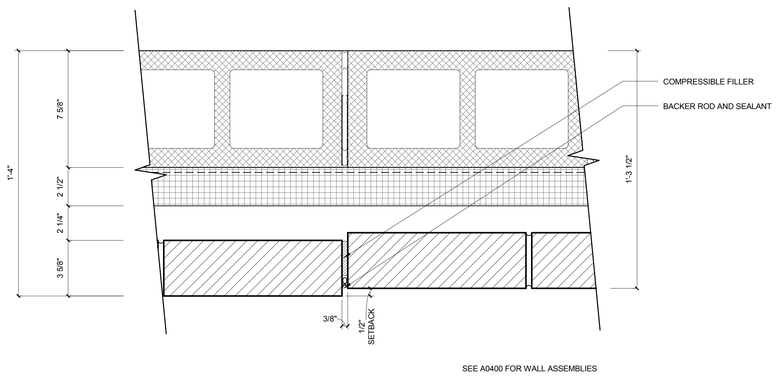
1. FLUID APPLIED MEMBRANE AIR BARRIER IS TO BE USED FOR ALL CMU SUBSTRATES. USE TRANSITION STRIP OVERLAPPING THE FLEXIBLE FLASHING AND SEALING AGAINST FLUID APPLIED MEMBRANE AIR BARRIER.
2. MODIFIED BITUMINOUS SHEET AIR BARRIER IS TO BE USED FOR ALL COLD FORM METAL FRAMED GYPSUM SHEETING SUBSTRATES. ALSO USE AS A TRANSITION FROM FLUID APPLIED AIR BARRIER TO SEAL AGAINST ADJACENT MATERIALS PER SPECIFICATION



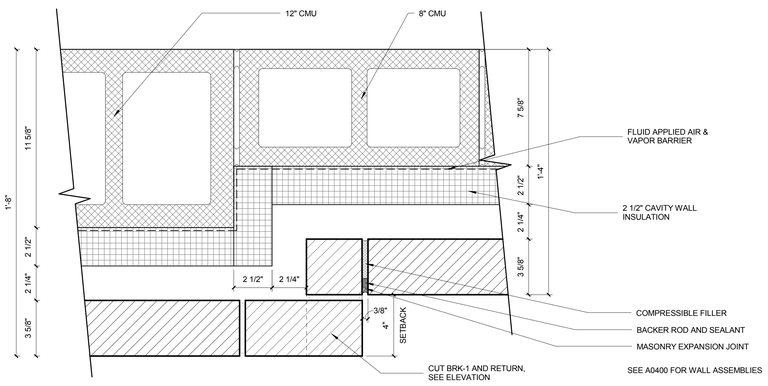
5 EXTERIOR PLAN DETAIL - AT ADMIN WINDOWS
3" = 1'-0"



2 EXTERIOR PLAN DETAIL @ 1ST & 2ND GRADE - WINDOW JAMB, TYP.
3" = 1'-0"



4 EXTERIOR PLAN DETAIL - ADMIN 1/2" BRICK SETBACK
3" = 1'-0"



1 EXTERIOR PLAN DETAIL - 2ND GRADE COLLABORATION 127 SW CORNER AT 12" CMU TO 8" CMU TRANSITION, TYP.
3" = 1'-0"

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LICENSE NUMBER 184.005683

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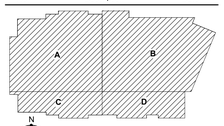
13 Winding Branch Rd
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
2	ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

EXTERIOR PLAN DETAILS

Project No.: 005005.00 Checked by: Checker

A0423

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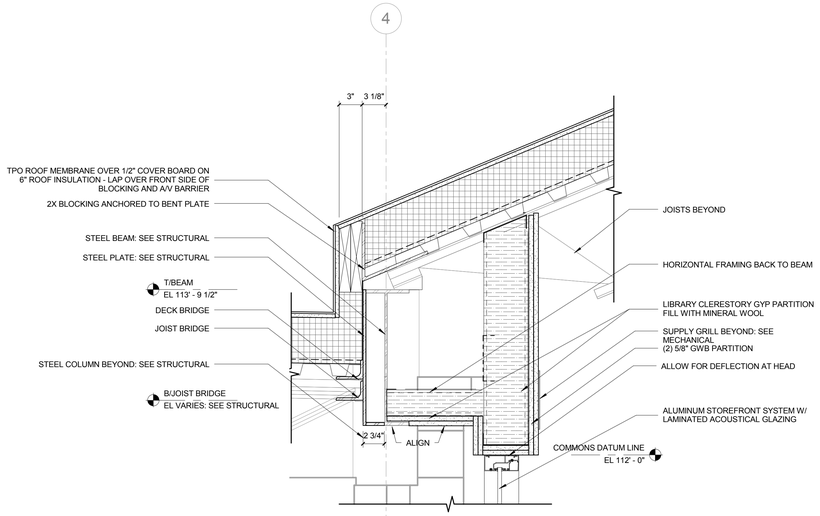
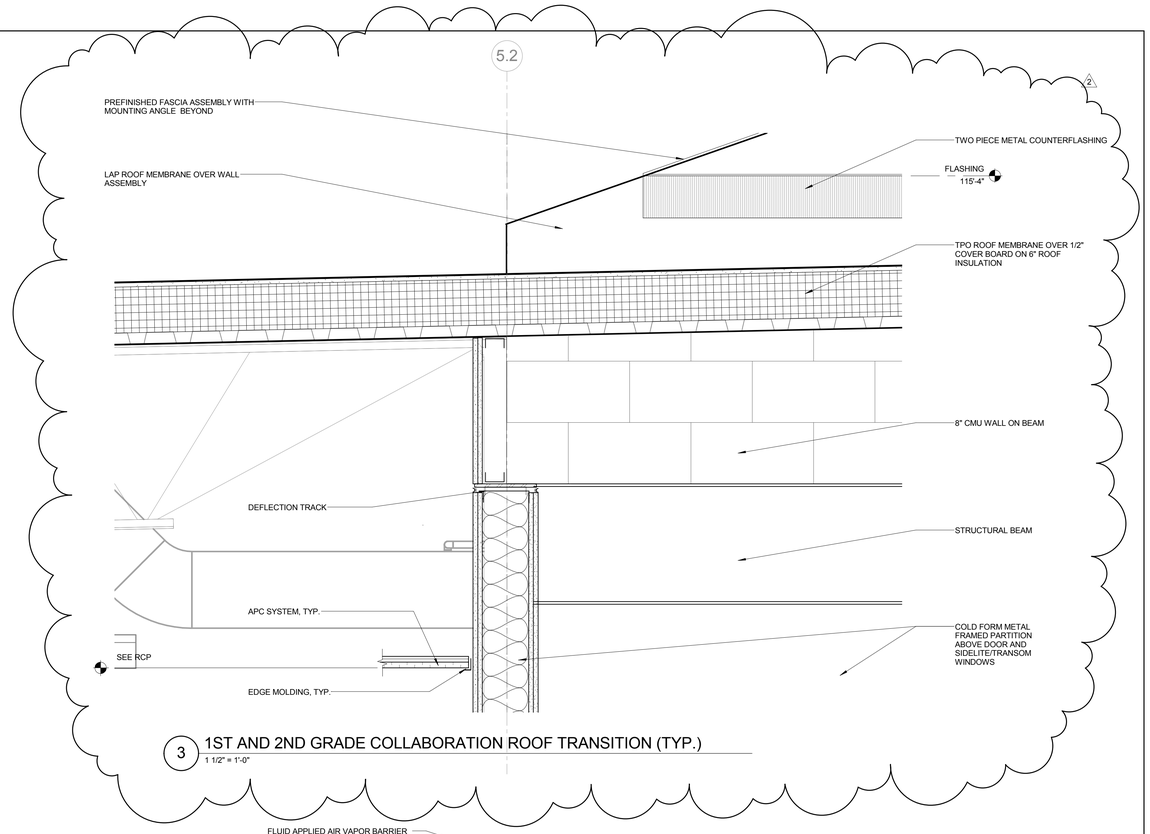
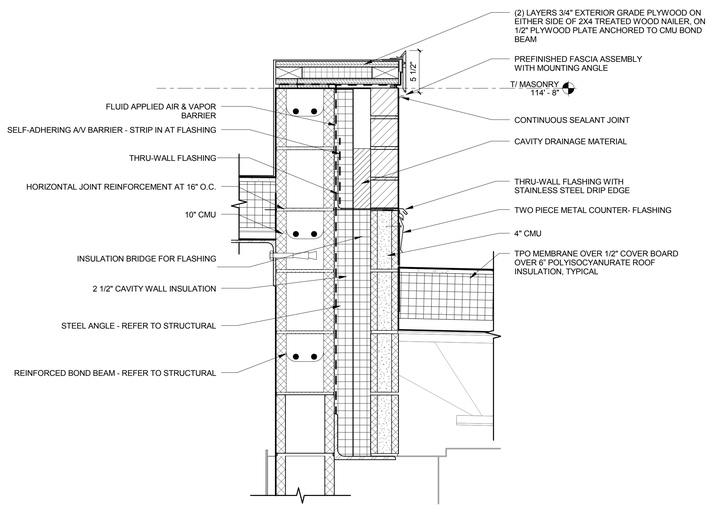


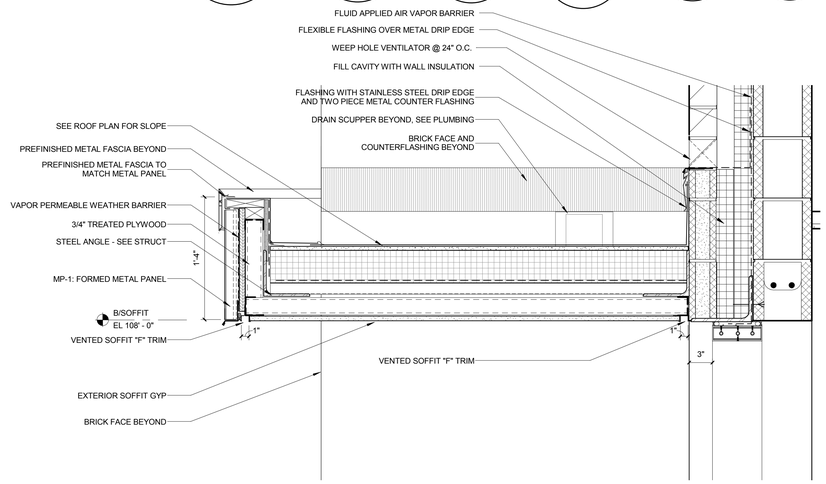
5 NORTH CLERESTORY - LIBRARY ROOF TRANSITION
1 1/2" = 1'-0"



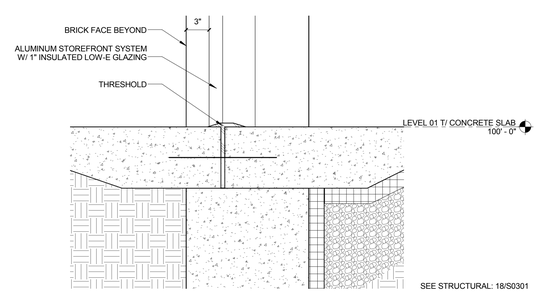
3 1ST AND 2ND GRADE COLLABORATION ROOF TRANSITION (TYP.)
1 1/2" = 1'-0"



4 LIBRARY E WALL AT LOWER ROOF
1 1/2" = 1'-0"



2 CENTRAL NORTH CORRIDOR ENTRY CANOPY (TYP.)
1 1/2" = 1'-0"



1 CENTRAL NORTH CORRIDOR ENTRY SLAB / SIDEWALK TRANSITION
1 1/2" = 1'-0"

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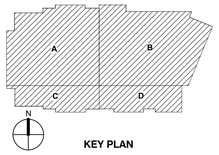
Loves Park IL 61111
(815) 484-4300

No.	Description	Date
2	ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

EXTERIOR SECTION DETAILS

Project No.: 005005.00 Checked by: Checker

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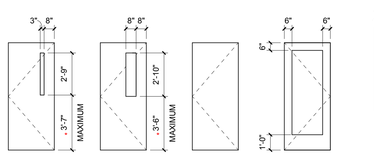
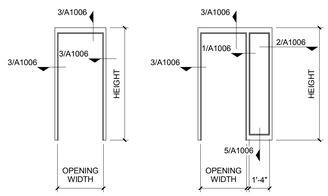
DOOR SCHEDULE

OPENING NUMBER	DOOR TYPE	SIZE OPENING WIDTH	SIZE LEAF WIDTH	SIZE OPENING HEIGHT	THICKNESS	MATERIAL	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME GLASS TYPE	FIRE RATING (MIN.)	HARDWARE SET	COMMENTS
420B	OH	14' - 8"		5' - 5 1/8"		AL	-	-	ST	-	-	-			10.00	
422A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.05	
423A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.00	
424A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.15	
425A	NV-2, NV-2	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			2.01	4
425B	2 NV-2, NV-2	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			2.01	4
425C	NV-2, NV-2	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			2.00	4
426A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.14	
427A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		90	8.05	
428A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		90	8.05	
429A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.10	
430A	NV-1	3' - 0"		7' - 0"	1 3/4"	WD	G2	00	HM	04/A1006	03/A1006	-		90	4.01	3
431A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
432A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
433A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
434A	NV-1	3' - 0"		7' - 0"	1 3/4"	WD	G2	00	HM	04/A1006	03/A1006	-		90	AC3.06	3
434B	NV-1	3' - 0"		7' - 0"	1 3/4"	WD	G2	00	HM	04/A1006	03/A1006	-		90	E2.03	3
435A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			8.03	
436A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.04	



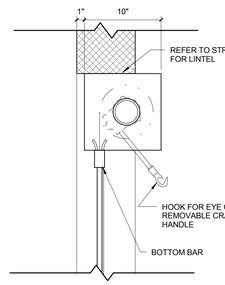
PANEL TYPES

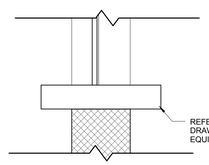


00 STANDARD STOP

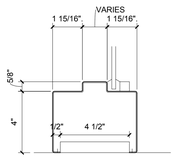
01 STANDARD STOP

FRAME TYPES

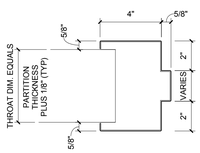




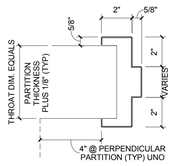
6 OH COUNTER DOOR SECTION (TYP.)
1 1/2" = 1'-0"



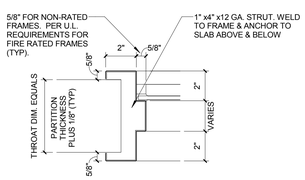
5 HM PROFILE
3" = 1'-0"



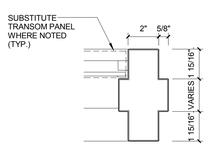
4 HM PROFILE
3" = 1'-0"



3 HM PROFILE
3" = 1'-0"



2 HM PROFILE
3" = 1'-0"



1 HM PROFILE
3" = 1'-0"

DOOR SCHEDULE

OPENING NUMBER	DOOR TYPE	SIZE OPENING WIDTH	SIZE LEAF WIDTH	SIZE OPENING HEIGHT	THICKNESS	MATERIAL	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME GLASS TYPE	FIRE RATING (MIN.)	HARDWARE SET	COMMENTS
100A	FG, FG	6' - 0"	3' - 0"	7' - 9 1/2"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.00	1
100B	FG, FG	6' - 0"	3' - 0"	7' - 9 1/2"	1 3/4"	AL	G1	SEE ELEV	AL				G1		AC1.03	1
100C	FG, FG	6' - 0"	3' - 0"	7' - 9 1/2"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.01	
100D	FG, FG	6' - 0"	3' - 0"	7' - 9 1/2"	1 3/4"	AL	G1	SEE ELEV	AL				G1		AC1.04	
101A	FG	3' - 0"		7' - 0"	1 3/4"	WD	G1	01	HM	04/A1006	03/A1006	-	G1		AC4.09	
101B	FG	3' - 0"		7' - 0"	1 3/4"	WD	G1	01	HM	04/A1006	03/A1006	-	G1		4.00	
102A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			5.01	3
102B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.16	3
103A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			7.02	2
104A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.01	
106A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			5.02	3
107A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.15	
108A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.15	3
108B	F	3' - 0"		7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			E1.01	
109A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			7.01	2
110A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		45	8.02	2
113A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			6.00	2
114A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.13	
115A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
115B	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.00	4
116A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
116B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.01	4
117A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
117B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.01	4
118A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
118B	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.00	4
120A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			5.03	3
121A	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.05	
121B	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.06	
2 121C	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.06	
121D	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
121E	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
121F	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
122A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			5.03	3
123A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
123B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.00	4
124A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
124B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.01	4
125A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
125B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.01	4
126A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	
126B	FG, FG	6' - 0"	3' - 0"	7' - 0"	1 3/4"	AL	G5	SEE ELEV	AL				G5		8.00	
128A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.13	
129A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.12	
130A	F, F	6' - 0"	3' - 0"	7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.02	
200A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
201A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
202A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	4
203A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	4
204A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			E2.02	3
204B	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			E2.00	4
205.2A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.15	3
205A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.15	3
206A	FG	3' - 0"		7' - 4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		5.03	3
207A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
208A	FG	3' - 0"		7' - 4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		5.03	3
209A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	
210A	FG, FG	6' - 0"	3' - 0"	7' - 1 1/2"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	4
211A	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			E2.00	4
211B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			E2.02	3
212A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
213A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
214A	FG, FG	6' - 0"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
215A	FG, FG	6' - 0"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
300A	F, F	6' - 0"	3' - 0"	7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.07	
301A	FG, FG	5' - 11 1/4"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
301B	F	3' - 0"		7' - 0"	1 3/4"	HM	-		HM	6/A0457	3/A0420	2			WS1.00	STORM SHELTER DOORS
302A	FG, FG	6' - 0"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	4
303A	FG, FG	6' - 0"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.02	4
304A	FG, FG	5' - 11 1/4"	3' - 0"	7' - 0 3/4"	1 3/4"	AL	G5	SEE ELEV	AL				G5		AC4.01	4
306A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			6.00	2
307A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			6.00	2
308A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			6.00	2
309A	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	HM	-		HM	2/A0457	2/A0801	2		90	WS2.0	STORM SHELTER DOORS, 4
309B	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	HM	-		HM	2/A0457	3/A0801			90	WS2.0	STORM SHELTER DOORS, 4
310.1A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			5.03	3
310.2A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.05	3
311A	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.06	
311B	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.06	
2 311C	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL						AC1.06	
311D	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
311E	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
311F	FG	3' - 0"		7' - 10"	1 3/4"	AL	G5	SEE ELEV	AL						1.00	
314A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			3.06	
314B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			4.17	
314C	F	3' - 0"		7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			AC2.00	
315B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.03	
316A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			AC2.00	
317A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.03	
318A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-		90	AC4.00	
318B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		90	3.02	
319A	F	3' - 0"		7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			AC4.12	
320A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-		90	AC3.04	
321A	F, F	6' - 0"	3' - 0"	7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			AC2.01	
322A	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC3.01	
322B	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC3.01	
323A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	
324A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			9.00	
324B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
325A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
326A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
327A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
327B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			9.00	
328A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.08	
329A	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.05	
329B	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.06	
329C	FG	3' - 0"		7' - 10"	1 3/4"	AL	G4	SEE ELEV	AL				G4		AC1.06	
329D	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC3.01	
330A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC3.05	3
330B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			E2.01	3
330C	F	3' - 0"		7' - 0"	1 3/4"	MDF	-	00	HM	04/A1006	03/A1006	-			9.00	
331A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			8.04	2
332A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			8.04	2
333A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			E2.01	3
333B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC3.05	3
333C	F	3' - 0"		7' - 0"	1 3/4"	MDF	-	00	HM	04/A1006	03/A1006	-			9.00	
334A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC3.05	3
334B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			E2.01	3
334C	F	3' - 0"		7' - 0"	1 3/4"	MDF	-	00	HM	04/A1006	03/A1006	-			9.00	
335A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			8.04	2
336A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			8.04	2
337A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			E2.01	3
337B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC3.05	3
400A	F, F	8' - 0"	4' - 0"	7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		90	AC3.02	
402A	2 FG	3' - 0"		7' - 9 3/4"		AL	G6	SEE ELEV	AL				G6		AC5.00	3
402B	FG	3' - 0"		7' - 9 3/4"		AL	G6	SEE ELEV	AL				G6		AC5.00	3
402C	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.10	3
402D	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			AC4.10	3
403.2A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.11	3
403A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.06	3
404A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			5.00	
405A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			5.03	3
406A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			6.00	2
407A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.03	2
408A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			7.00	2
411A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC4.15	
412A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.04	
413A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.08	
414A	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			E2.01	3
414B	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G1	00	HM	04/A1006	03/A1006	-			AC3.05	
414C	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			E3.00	3
415A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		45	E3.01	
415B	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-		45	E3.01	
416A	F	3' - 0"		7' - 0"	1 3/4"	WD	-	00	HM	04/A1006	03/A1006	-			3.04	
417A	2 FG	3' - 0"		8' - 0"		AL	G6	SEE ELEV	AL				G6		AC5.00	3
417B	FG	3' - 0"		8' - 0"		AL	G6	SEE ELEV	AL				G6		AC5.00	3
418A	F	3' - 0"		7' - 0"	1 3/4"	HM	-	00	HM	04/A1006	03/A1006	-			3.07	
419A	NV-2, NV-2	6' - 0"	3' - 0"	7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.04	
419C	NV-2	3' - 0"		7' - 0"	1 3/4"	WD	G5	00	HM	04/A1006	03/A1006	-			AC4.09	
420A	OH	2' - 8"		5' - 5 1/8"		AL	-	-	ST	-	-	-			10.00	

GENERAL NOTES - OPENING

1. SAFETY GLAZING MUST COMPLY WITH LABELING AS PER IBC 2009.

2. STYLES & RAIL SIZES ON WOOD DOORS MIGHT VARY TO THE STANDARD OF EACH MANUFACTURER.

3. FRAME EXTENSIONS ADJUSTING TO WALL DEPTH ARE TYPICAL - REFER TO DOOR DETAILS.

4. FOR HARDWARE GROUP SPECIFICATIONS REFER TO THE PROJECT MANUAL UNDER DOOR HARDWARE SPECS.

5. DIMENSION ARE NOMINAL - MANUFACTURER PROVING THE DOORS TO DETERMINE THE ROUGH OPENINGS, EXCEPT THE OPENING IN CONCRETE WALLS THAT HAVE BEEN ALREADY SPECIFIED.

6. THICKNESS OF GLAZING WITHIN DOORS BY DOOR MANUFACTURER STANDARDS.

7. DOORS TO OPERATE AS SHOWN ON THE EXTERIOR BUILDING ELEVATIONS, ENLARGED UNIT PLANS & OVERALL PLANS.

8. TEMPERED GLAZING WHERE REQUIRED BY CODE (TYPICAL).

9. GENERAL CONTRACTOR TO COORDINATE ALL TRADES INVOLVED.

10. ELECTRICAL DEVICES SUCH AS MAG LOCKS, CARD READERS, AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS.

11. REFER TO FINISH PLANS FOR DOOR/FRAME FINISHES

GLAZING

G1	1/4" CLEAR LAMINATED GLASS (SAFETY RATED)
G2	FIRE RESISTANT GLAZING (SAFETY RATED)
G3	1" INSULATED GLASS UNIT (SAFETY RATED)
G4	1" INSULATED LAMINATED GLASS UNIT (SECURITY GLAZING)
G5

FINISH SCHEDULE

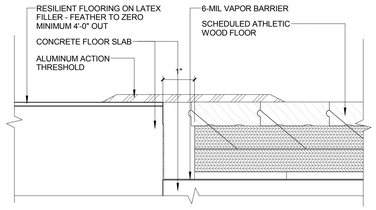
FLOOR
BASE
WALL
FLOOR FINISH TRANSITION
EXTENT FINISHES

TYPE		CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COMMENTS / LOCATION
CEILING FINISH	LAY-IN CEILING SYSTEM	ACT-1	ACOUSTICAL CEILING TILE GRID	USG	TILE: RADAR CLIMA PLUS HIGH-CAC, HIGH-NRC SIZE: 2' X 2' EDGE: TEGULAR FINISH: WHITE PRODUCT #: 22523 GRID: DXL 15/16", EXPOSED TEE SYSTEM	GENERAL REFER TO REFLECTED CEILING PLANS
		ACT-2	ACOUSTICAL CEILING TILE GRID	ARMSTRONG	TILE: HEALTH ZONE OPTIMA SIZE: 2' X 2' EDGE: SQUARE FINISH: WHITE, MATERIAL: FIBER GLASS CLASS A, USDA APPROVED NRC: .95 GRID: 15/16"	KITCHEN #419
		ACT-3	ACOUSTICAL CEILING TILE GRID	CERTAINTEED	TILE:PERFORMA - SYMPHONY F SIZE: 2' X 2' EDGE: REVEAL EDGE FINISH: WHITE, MATERIAL: FIBER GLASS NRC: .95 GRID: 15/16"	CLASSROOMS: REFER TO REFLECTED CEILING PLANS A0700 SERIES
BASE FINISH	TILE BASE	CTB-1	CERAMIC MOSAIC TILE BASE	DALTILE	STYLE: TO MATCH CMT-1 COLOR: TO MATCH CMT-1 OVERALL BASE CONSISTING OF 2"W X 1"H COVE PROFILE (2) 2" X 2" CERAMIC MOSAIC TILE STACKED. TOP COURSE OF TILE TO BE SURFACE BULLNOSE PROFILE.	
	RESILIENT BASE	VB-1	VINYL BASE	JOHNSONITE	COLOR: T.B.D. PRICE GROUP 2 PROVILE: COVE SIZE: 4" HIGH	
	CERAMIC TILE BASE	CTB-1	CERAMIC TILE BASE	DALTILE	STYLE: TO MATCH CMT-1 COLOR: TO MATCH CMT-1	
	QUARRY TILE	QT-1	QUARRY TILE BASE	DALTILE	STYLE: TO MATCH FLOORING QT-1 COLOR: TO MATCH FLOORING QT-1	
FLOOR FINISH	CARPET	CPT-1	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: EDGE SHADOW 15613 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	NEUTRAL COLOR
		CPT-2	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: TANNED TAUPE 15608 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	NEUTRAL COLOR
		CPT-3	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: ULTRA BERRY 15603 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - RED 1ST GRADE CLASSROOMS & COLLABORATION 119 KINDERGARTEN 337
		CPT-4	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: RADIOACTIVE 15609 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - YELLOW 2ND GRADE CLASSROOMS & COLLABORATION 127 KINDERGARTEN 330
		CPT-5	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: BOUNDARY 15604 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - ORANGE 3RD GRADE CLASSROOMS & COLLABORATION 305
		CPT-6	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: CUSTOM GREEN COLOR SELECTED BY ARCHITECT TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - GREEN 4TH GRADE CLASSROOMS & COLLABORATION 211 KINDERGARTEN 334
		CPT-7	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: SEA LEVEL 15610 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - BLUE 5TH GRADE CLASSROOMS & COLLABORATION 204 KINDERGARTEN 333
		CPT-8	CARPET TILE	TANDUS | CENTIVA	PATTERN: CARTOGRAPHY 04843 COLOR: URBAN VIOLET 15601 TILE SIZE: 18" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - PURPLE AUTISM ROOMS 324\325\327 MUSIC ROOM 434 LIBRARY 402
		CPT-9	CARPET TILE	TANDUS | CENTIVA	PATTERN: DOT MATRIX 04852 COLOR: ENERGY FLUX 21312 TILE SIZE: 9" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - RED/FUCHSIA 1ST GRADE COLLABORATION 119
		CPT-10	CARPET TILE	TANDUS | CENTIVA	PATTERN: DOT MATRIX 04852 COLOR: POSITIVE CHARGE 21310 TILE SIZE: 9" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - YELLOW 2ND GRADE COLLABORATION 127
		CPT-11	CARPET TILE	TANDUS | CENTIVA	PATTERN: DOT MATRIX 04852 COLOR: HIGH FREQUENCY 21311 TILE SIZE: 9" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - ORANGE 3RD GRADE COLLABORATION 305
		CPT-12	CARPET TILE	TANDUS | CENTIVA	PATTERN: DOT MATRIX 04852 COLOR: CUSTOM GREEN COLOR SELECTED BY ARCHITECT TILE SIZE: 9" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - GREEN 4TH GRADE COLLABORATION 211
		CPT-13	CARPET TILE	TANDUS | CENTIVA	PATTERN: DOT MATRIX 04852 COLOR: SUBMERGE 21307 TILE SIZE: 9" X 36" INSTALL METHOD: T.B.D.	ACCENT COLOR - BLUE 5TH GRADE COLLABORATION 204
		CPT-14	CARPET TILE	TANDUS | CENTIVA	PATTERN: ANGULATE 04655 COLOR: UV 22106 TILE SIZE: 24" X 24" INSTALL METHOD: T.B.D.	LIBRARY 402
		WCT	WALK-OFF CARPET TILE	TANDUS | CENTIVA	PATTERN: ASSERTIVE STRIA COLOR: CHROMIUM 26201 TILE SIZE: 24" X 24" INSTALL METHOD: T.B.D.	
	CONCRETE	PC	POLISHED CONCRETE	PER SPEC	PER SPEC	GANGED TOILET ROOMS
	TILE	CMT-1	CERAMIC MOSAIC FLOOR TILE	DALTILE	STYLE: KEYSTONES COLOR: PRICE GROUP 2 SIZE: 2" X 2"	
		QT-1	QUARRY TILE	DALTILE	STYLE: QUARRY TILE COLOR: TO BE SELECTED BY ARCHITECT SIZE: 6" X 6"	
	RESILIENT FLOOR	RFT-1	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8821 SIZE: 24" X 24"	FLOOR PATTERN PER FINISH PLANS
		RFT-2	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8802 ALTO SIZE: 24" X 24"	FLOOR PATTERN PER FINISH PLANS
		RFT-3	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8804 TRIBECA SIZE: 24" X 24"	FLOOR PATTERN PER FINISH PLANS
		RFT-4	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8805 MONTEREY SIZE: 24" X 24"	FLOOR PATTERN PER FINISH PLANS
		LVT-1	LUXURY VINYL TILE	TANDUS | CENTIVA	HERITAGE PLANK EHP COLOR: SMOKED OAK 3350 PLANK SIZE: 6" X 36"	CLASSROOM SINKS
	SEALER	SC	SEALED CONCRETE	SEE SPEC	SEE SPEC	
	WOOD FLOOR	WD-1	WOOD FLOOR	SEE SPEC	ATHLETIC WOOD FLOOR	GYMNASIUM 425

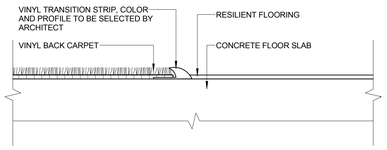
TYPE		CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COMMENTS / LOCATION
WALL FINISH	CERAMIC WALL TILE	CWT-1	GLAZED CERAMIC WALL TILE	DALTILE	RITTENHOUSE SQUARE SIZE: 3" X 6" COLOR: PRICE GROUP 2 INSTALATION: RUNNING BOND	
	PAINT	PT-1	PAINT	SHERWIN WILLIAMS	COLOR: CREAMY NUMBER: SW 7012	GENERAL FIELD PAINT (NEUTRAL)
		PT-2	PAINT	SHERWIN WILLIAMS	COLOR: MODERN GREY NUMBER: SW 7632	CORRIDORS (NEUTRAL)
		PT-3	PAINT	SHERWIN WILLIAMS	COLOR: DORIAN GRAY NUMBER: SW 7017	CORRIDORS (NEUTRAL)
		PT-4	PAINT	SHERWIN WILLIAMS	COLOR: SIMPLE WHITE NUMBER: SW 7021	LIBRARY (NEUTRAL)
		PT-5	PAINT	SHERWIN WILLIAMS	COLOR: EXUBERANT PINK NUMBER: SW 6840	1ST GRADE CLASSROOM AND KINDERGARTEN 337
		PT-6	PAINT	SHERWIN WILLIAMS	COLOR: HAUTE PINK NUMBER: SW 6570	1ST GRADE
		PT-7	PAINT	SHERWIN WILLIAMS	COLOR: LEMON TWIST NUMBER: SW 6909	2ND GRADE COLLABORATION
		PT-8	PAINT	SHERWIN WILLIAMS	COLOR: VENETIAN YELLOW NUMBER: SW 1666	2ND GRADE CLASSROOMS & KINDERGARTEN 330
		PT-9	PAINT	BENJAMIN MOORE	COLOR: TANGY ORANGE NUMBER: 2014-30	3RD GRADE COLLABORATION
		PT-10	PAINT	PITTSBURGH PAINT	COLOR: CANDIED YAM NUMBER: 123-6	3RD GRADE COLLABORATION & LIBRARY ACCENT
		PT-11	PAINT	SHERWIN WILLIAMS	COLOR: STIRRING ORANGE NUMBER: SW 6889	3RD GRADE CLASSROOMS
		PT-12	PAINT	PITTSBURGH PAINT	COLOR: LEAP FROG NUMBER: PPG1225-7	4TH GRADE COLLABORATION
		PT-13	PAINT	PITTSBURGH PAINT	COLOR: GREEN PEAR NUMBER: PPG1224-7	4TH GRADE COLLABORATION
		PT-14	PAINT	PITTSBURGH PAINT	COLOR: BE SPONTANEOUS NUMBER: PPG1221-6	4TH GRADE CLASSROOMS, COLLABORATION & KINDERGARTEN 334
		PT-15	PAINT	SHERWIN WILLIAMS	COLOR: BLUE NILE NUMBER: SW 6776	5TH GRADE COLLABORATION
		PT-16	PAINT	SHERWIN WILLIAMS	COLOR: FRESHWATER NUMBER: SW 6774	5TH GRADE CLASSROOM, COLLABORATION, & KINDERGARTEN 333
		PT-17	PAINT	SHERWIN WILLIAMS	COLOR: RAPTURE BLUE NUMBER: SW 6773	5TH GRADE COLLABORATION
		PT-18	PAINT	SHERWIN WILLIAMS	COLOR: CAY NUMBER: SW 6772	VARIES - REFER TO FINISH PLANS
		PT-19	PAINT	PITTSBURGH PAINT	COLOR: GRAPE JUICE NUMBER: PPG1251-7	LIBRARY
		PT-20	PAINT	SHERWIN WILLIAMS	COLOR: PLUM BLOSSOM NUMBER: SW 6974	LIBRARY MUSIC
		PT-21	PAINT	SHERWIN WILLIAMS	COLOR: CALYPSO NUMBER: SW 6950	LIBRARY
		PT-22	PAINT	BENJAMIN MOORE	COLOR: FILTERED SUNLIGHT NUMBER: 2154-60	VARIES - REFER TO FINISH PLANS
		PT-23	PAINT	SHERWIN WILLIAMS	COLOR: REAL RED NUMBER: SW 6868	COMMONS
		PT-24	PAINT	PITTSBURGH PAINT	COLOR: BE DARING NUMBER: PPG1211-7	COMMONS
		PT-25	PAINT	BENJAMIN MOORE	COLOR: RUMBA ORANGE NUMBER: 2014-20	COMMONS
		PT-26	PAINT	BENJAMIN MOORE	NUMBER: 413	COMMONS
		PT-27	PAINT	BENJAMIN MOORE	COLOR: PADDINGTON BLUE NUMBER: 791	COMMONS
		PT-28	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	CEILING
		PT-29	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	GYMNASIUM ACCENT
		PT-30	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	GYMNASIUM ACCENT
		PT-31	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	GYMNASIUM ACCENT
		PT-32	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	GYMNASIUM ACCENT
		2 PT-33	PAINT	SHERWIN WILLIAMS	COLOR: IRRESISTABLE NUMBER: SW 6562	1ST GRADE ACCENT
		PT-34	PAINT	TO BE DETERMINED	COLOR: TO BE DETERMINED NUMBER:	
	SPECIALTY	SPT-1	SPECIALTY PAINT	IDEA PAINT	DRY EREASE PAINT TYPE: PRO COLOR: TO BE SELECTED BY OWNER	MILLWORK: SLIDING DOORS, REFER TO FINISH PLANS
	WALL PANEL	AWM	ATHLETIC WALL MATS	SEE SPEC	DESCRIPTION: SEE SPEC COLOR: TO BE SELECTED BY ARCHITECT	GYMNASIUM 425
		AWP-1	ACOUSTICAL WALL PANEL	CONWED DESIGNSCAPE	DESCRIPTION: REBOUND, 2" THICKNESS, IMPACT RESISTANT 48" HEIGHT PANELS NRC 0.80 TO 0.85 FABRIC WRAPPED ACOUSTICAL PANEL DESIGNTEX FABRIC PATTERN: GAMUT COLOR: TO BE SELECTED BY ARCHITECT	GYMNASIUM EXTENT AND LOCATIONS PER FINISH PLANS A1200 SERIES & INTERIOR ELEVATIONS
		AWP-2	ACOUSTICAL WALL PANEL	CONWED DESIGNSCAPE	DESCRIPTION: REBOUND, 1" THICKNESS NRC 0.80" TO 0.85" FABRIC WRAPPED ACOUSTICAL PANEL DESIGNTEX FABRIC PATTERN: GAMUT COLOR: TO BE SELECTED BY ARCHITECT	MUSIC EXTENT AND LOCATIONS PER FINISH PLANS A1200 SERIES & INTERIOR ELEVATIONS
		AWP-3	ACOUSTICAL WALL PANEL	CONWED DESIGNSCAPE	DESCRIPTION: REBOUND, 1" THICKNESS NRC 0.80" TO 0.85" FABRIC WRAPPED ACOUSTICAL PANEL CARNEGIE FABRIC PATTERN: PULSE 5332 COLOR: TO BE SELECTED BY ARCHITECT	CAFETERIA / COMMONS EXTENT AND LOCATIONS PER FINISH PLANS A1200 SERIES & INTERIOR ELEVATIONS
		AWP-4	ACOUSTICAL WALL PANEL	CONWED DESIGNSCAPE	DESCRIPTION: REBOUND, 1" THICKNESS NRC 0.80" TO 0.85" FABRIC WRAPPED ACOUSTICAL PANEL DESIGNTEX FABRIC PATTERN: GAMUT COLOR: STONE 3468-806	COLLABORATION, FINE ART, SMALL GROUP ROOMS, CONFERENCE ROOMS EXTENT AND LOCATIONS PER FINISH PLANS A1200 SERIES & INTERIOR ELEVATIONS
		CB	CORK BOARD PANELS	FORBO	BULLETIN BOARD HOMOGENEOUS, RESILIENT TACKABLE SURFACE SHEET MATERIAL COLOR: TO BE SELECTED BY ARCHITECT	CORRIDORS, PER FINISH PLANS
	QUARTZ	2 QZ	QUARTZ WALL SURFACE	HANSTONE	1/2" THICKNESS COLOR: ANGORA CC101	BELOW ALL HAND DRYERS IN TOILET ROOMS

TYPE		CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COMMENTS / LOCATION
FLOOR FINISH	RESILIENT FLOOR	RFT-5	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8861 LILAC DELIGHT SIZE: 24" X 24"	FIRST GRADE THRESHOLD - SEE FINISH PLANS
		RFT-6	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - CLASSIC COLOR: 0690 BRIGHT YELLOW SIZE: 24" X 24"	SECOND GRADE THRESHOLD - SEE FINISH PLANS
		RFT-7	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - CLASSIC COLOR: 0631 TUSCAN RED SIZE: 24" X 24"	THIRD GRADE THRESHOLD - SEE FINISH PLANS
		RFT-8	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8842 KIWI SIZE: 24" X 24"	FOURTH GRADE THRESHOLD - SEE FINISH PLANS
		RFT-9	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8832 CERULEAN SIZE: 24" X 24"	FIFTH GRADE THRESHOLD - SEE FINISH PLANS
		RFT-10	RESILIENT FLOOR TILE	RIKETT	QUARTZ TILE - MEDLEY COLOR: 8862 LAVENDAR BREEZE SIZE: 24" X 24"	AUTISM/BUBBLE THRESHOLD - SEE FINISH PLANS
		RFT-11	RESILIENT FLOOR TILE	JOHNSONITE	RUBBER TILE - SOLID - HAMMERED FINISH COLOR: 22 - PEARL SIZE: 24" X 24"	DRINKING FOUNTAINS

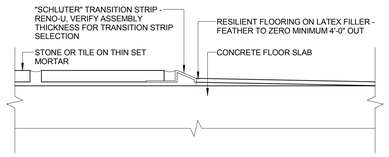
TYPE		CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COMMENTS / LOCATION
MILLWORK / CASEWORK	LAMINATE FINISH	PL-1	PLASTIC LAMINATE	FORMICA	COLOR: TO BE DETERMINED	CLASSROOM CASEWORK
		PL-2	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	WALL CABINETS
		PL-3	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	STAFF ROOMS
		PL-4	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	CAFETERIA 420 MILLWORK - ACCENT GREEN
		PL-5	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	CAFETERIA 420 MILLWORK - ACCENT YELLOW
		PL-6	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	CAFETERIA 420 MILLWORK - ACCENT ORANGE
		PL-7	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	CAFETERIA 420 MILLWORK - ACCENT RED
		PL-8	PLASTIC LAMINATE	TO BE DETERMINED	COLOR: TO BE DETERMINED	CAFETERIA 420 MILLWORK - ACCENT BLUE
	SOLID SURFACE	SSM-1	SOLID SURFACE	CORIAN	COLOR: PRICE GROUP 3	COUNTERTOPS
		SSM-2	SOLID SURFACE	CORIAN	COLOR: PRICE GROUP 3	BENCHES AT 3RD GRADE CLASSROOMS
WINDOW TREATMENTS	WINDOW COVERING	WC-1	ROLLER SHADE	DRAPER	ROLLER SHADES: SINGLE-SHADE - MANUAL, MANUAL SHADE CLOTH: BASKETWEAVE WITH 1% OPENNESS FACTOR COLOR: TO BE SELECTED BY ARCHITECT REFER TO FINISH PLANS FOR LOCATION & QUANTITIES.	
		WC-2	ROLLER SHADE	DRAPER	ROLLER SHADES: DUAL-SHADE - MANUAL SHADE CLOTH: BASKETWEAVE WITH 1% OPENNESS FACTOR & BLACKOUT SHADE CLOTH COLOR: TO BE SELECTED BY ARCHITECT REFER TO FINISH PLANS FOR LOCATION & QUANTITIES.	3RD GRADE CLASSROOMS
		WC-3	ROLLER SHADE	DRAPER	ROLLER SHADES: SINGLE-SHADE - MOTORIZED SHADE CLOTH: BASKETWEAVE WITH 1% OPENNESS FACTOR COLOR: TO BE SELECTED BY ARCHITECT REFER TO FINISH PLANS FOR LOCATION & QUANTITIES.	CAFETERIA 420 CLEARSTORY WINDOWS, 1ST & 2ND GRADE COLLABORATION CLEARSTORY WINDOWS



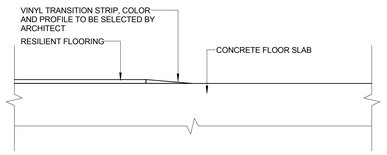
4 TRANSITION - RESILIENT/ WOOD
6" = 1'-0"



2 TRANSITION - CARPET/RESILIENT
6" = 1'-0"



3 TRANSITION - RESILIENT/TILE
6" = 1'-0"



1 TRANSITION - RESILIENT/CONCRETE
6" = 1'-0"

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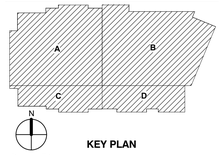
2	ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

GENERAL FINISH NOTES & MATERIAL LEGEND

Project No.: 005005.00 Checked by: Checker

A1200

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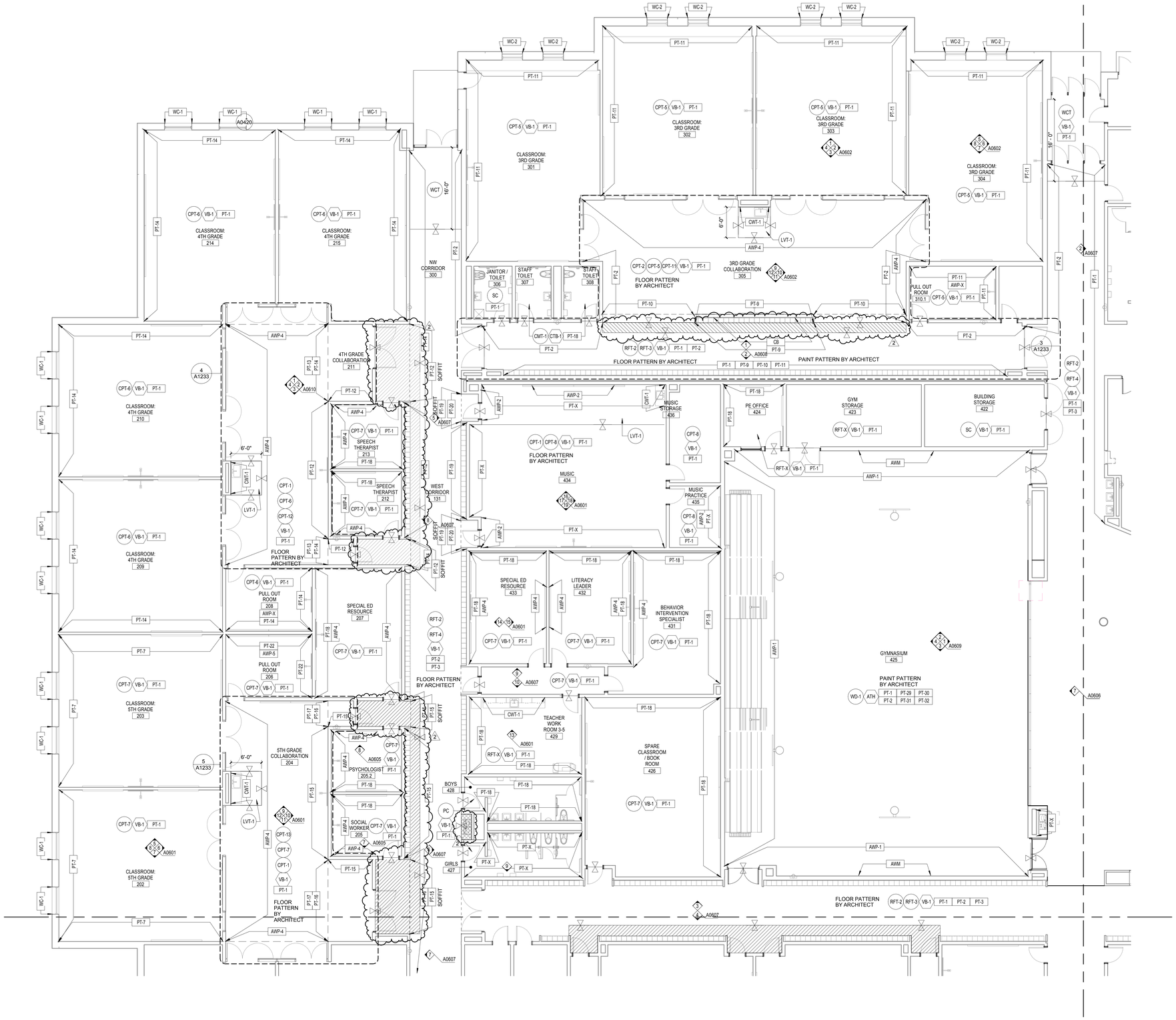

1 LEVEL 01 FINISH PLAN - AREA A
1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

WALLS
- A. ALL WALLS TO RECEIVE PAINT TO FINISHED CEILING, UNLESS NOTED OTHERWISE.
- B. SEE INTERIOR ELEVATIONS FOR EXTENT OF ALL WALL FINISHES.
- C. ALL WALLS TO BE PAINTED PT-1, U.N.O.
- D. REFER TO REFLECTED CEILING PLANS FOR ACCENT PAINT COLORS UNDERSIDE OF SOFFITS.

FLOORS
- A. MATERIAL TYPES AS NOTED.
- B. SEE A1200 FOR FLOORING TRANSITION DETAILS.

BASE
- A. RESILIENT BASE TO OCCUR ON CASEWORK, U.N.O.
- B. COVE PROFILE BASE TO OCCUR AT ALL CARPET.

MISCELLANEOUS
- A. PROVIDE ROLLER SHADES AT ALL PUNCHED OPENINGS EXCEPT: TOILET ROOMS, STAIRS, AND UTILITY SPACES

FINISH SYMBOL LEGEND

GENERAL ROOM FINISHES SHOWN IN SYMBOLS. EXCEPTIONS AS NOTED. SEE SHEET A1200.C FOR FINISH SCHEDULE

- FLOORING TRANSITION
- # KEYED NOTE
- XX-# EXTENT OF WALL FINISH
- XX-# XX-# XX-# — WALL FINISH / BASE FINISH / FLOOR FINISH

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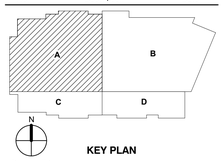
No.	Description	Date
2	ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

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LEVEL 01 FINISH PLAN - AREA A

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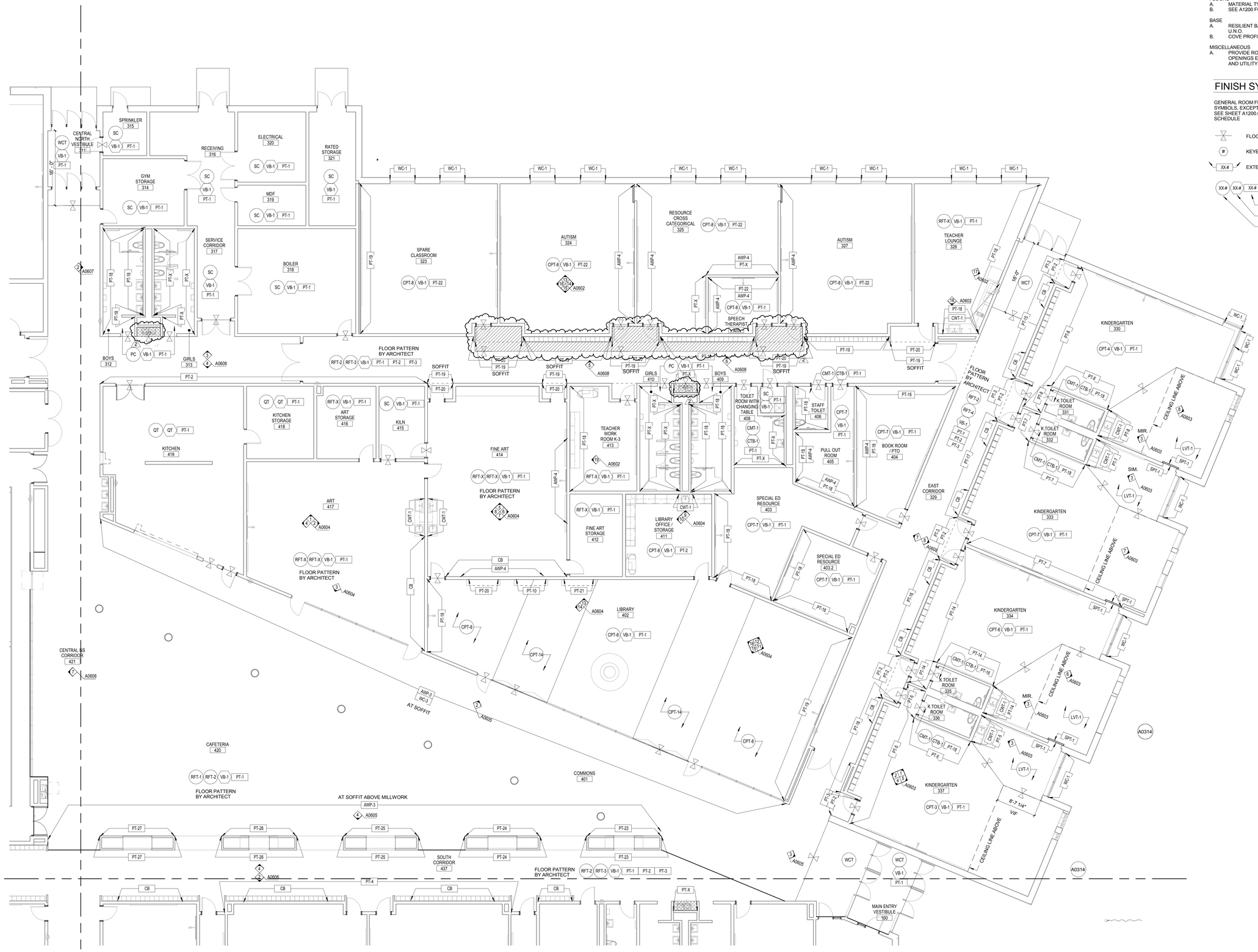

1 LEVEL 01 FINISH PLAN - AREA B
1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

WALLS
A. ALL WALLS TO RECEIVE PAINT TO FINISHED CEILING, UNLESS NOTED OTHERWISE.
B. SEE INTERIOR ELEVATIONS FOR EXTENT OF ALL WALL FINISHES.
C. ALL WALLS TO BE PAINTED PT-1, U.N.O.
D. REFER TO REFLECTED CEILING PLANS FOR ACCENT PAINT COLORS UNDERSIDE OF SOFFITS.

FLOORS
A. MATERIAL TYPES AS NOTED.
B. SEE A1200 FOR FLOORING TRANSITION DETAILS.

BASE
A. RESILIENT BASE TO OCCUR ON CASEWORK, U.N.O.
B. COVE PROFILE BASE TO OCCUR AT ALL CARPET.

MISCELLANEOUS
A. PROVIDE ROLLER SHADES AT ALL PUNCHED OPENINGS EXCEPT: TOILET ROOMS, STAIRS, AND UTILITY SPACES

FINISH SYMBOL LEGEND

GENERAL ROOM FINISHES SHOWN IN SYMBOLS, EXCEPTIONS AS NOTED. SEE SHEET A1200.C FOR FINISH SCHEDULE

FLOORING TRANSITION
KEYED NOTE
XX.# EXTENT OF WALL FINISH
XX.# XX.# XX.#
WALL FINISH
BASE FINISH
FLOOR FINISH

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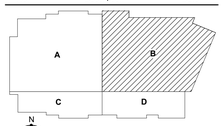

KEY PLAN

Drawing Title:

LEVEL 01 FINISH PLAN - AREA B

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GENERAL FINISH PLAN NOTES

WALLS
A. ALL WALLS TO RECEIVE PAINT TO FINISHED CEILING, UNLESS NOTED OTHERWISE.
B. SEE INTERIOR ELEVATIONS FOR EXTENT OF ALL WALL FINISHES.
C. ALL WALLS TO BE PAINTED PT-1, U.N.O.
D. REFER TO REFLECTED CEILING PLANS FOR ACCENT PAINT COLORS UNDERSIDE OF SOFFITS.

FLOORS
A. MATERIAL TYPES AS NOTED.
B. SEE A1200 FOR FLOORING TRANSITION DETAILS.

BASE
A. RESILIENT BASE TO OCCUR ON CASEWORK, U.N.O.
B. COVE PROFILE BASE TO OCCUR AT ALL CARPET.

MISCELLANEOUS
A. PROVIDE ROLLER SHADES AT ALL PUNCHED OPENINGS EXCEPT: TOILET ROOMS, STAIRS, AND UTILITY SPACES

FINISH SYMBOL LEGEND

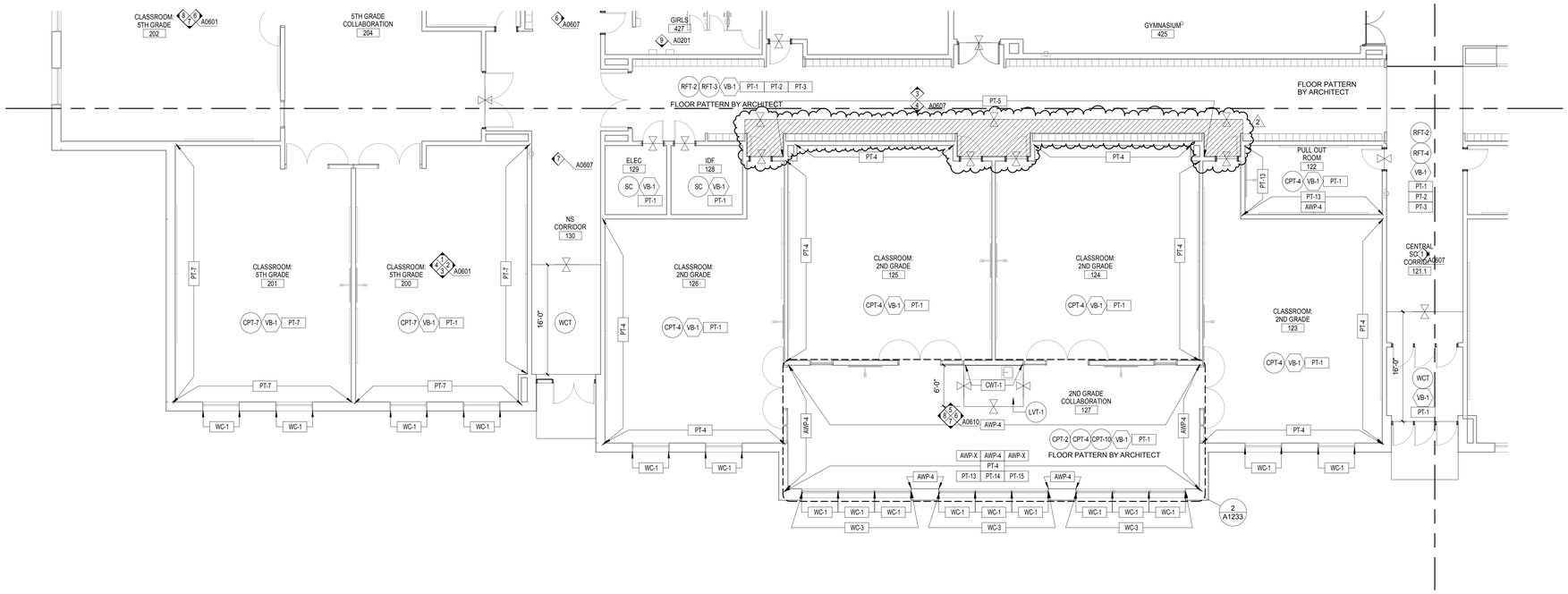
GENERAL ROOM FINISHES SHOWN IN SYMBOLS, EXCEPTIONS AS NOTED. SEE SHEET A1200.C FOR FINISH SCHEDULE

FLOORING TRANSITION

KEYED NOTE

XX-# EXTENT OF WALL FINISH

XX-# XX-# XX-#
WALL FINISH
BASE FINISH
FLOOR FINISH



1 LEVEL 01 FINISH PLAN - AREA C
1/8" = 1'-0"

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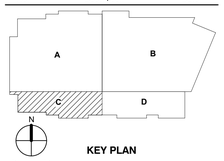
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

LEVEL 01 FINISH PLAN - AREA C

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GENERAL FINISH PLAN NOTES

WALLS
A. ALL WALLS TO RECEIVE PAINT TO FINISHED CEILING, UNLESS NOTED OTHERWISE.
B. SEE INTERIOR ELEVATIONS FOR EXTENT OF ALL WALL FINISHES.
C. ALL WALLS TO BE PAINTED PT-1, U.N.O.
D. REFER TO REFLECTED CEILING PLANS FOR ACCENT PAINT COLORS UNDERSIDE OF SOFFITS.

FLOORS
A. MATERIAL TYPES AS NOTED.
B. SEE A1200 FOR FLOORING TRANSITION DETAILS.

BASE
A. RESILIENT BASE TO OCCUR ON CASEWORK, U.N.O.
B. COVE PROFILE BASE TO OCCUR AT ALL CARPET.

MISCELLANEOUS
A. PROVIDE ROLLER SHADES AT ALL PUNCHED OPENINGS EXCEPT: TOILET ROOMS, STAIRS, AND UTILITY SPACES

FINISH SYMBOL LEGEND

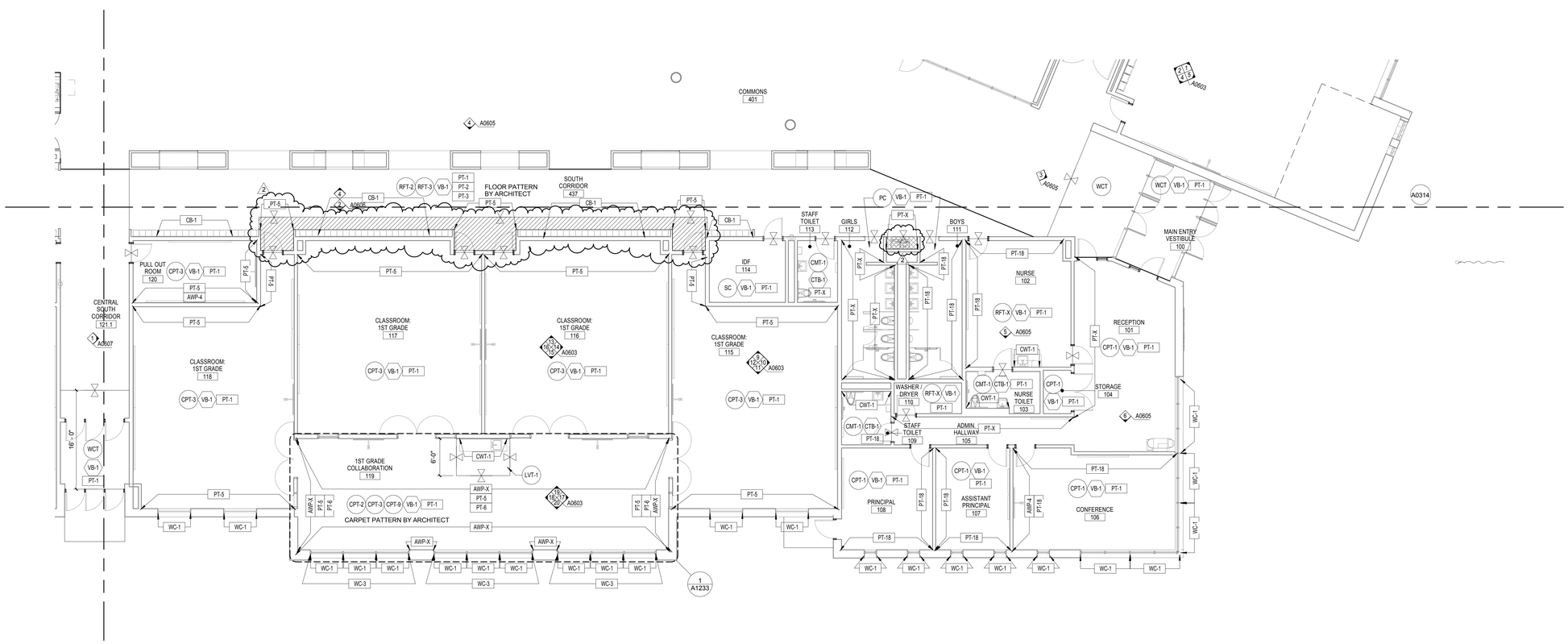
GENERAL ROOM FINISHES SHOWN IN SYMBOLS, EXCEPTIONS AS NOTED. SEE SHEET A1200.C FOR FINISH SCHEDULE

FLOORING TRANSITION

KEYED NOTE

XX-# EXTENT OF WALL FINISH

XX-# XX-# XX-#
WALL FINISH
BASE FINISH
FLOOR FINISH



1 LEVEL 01 FINISH PLAN - AREA D
1/8" = 1'-0"

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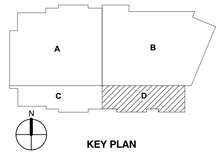

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Drawing Title:

LEVEL 01 FINISH PLAN - AREA D

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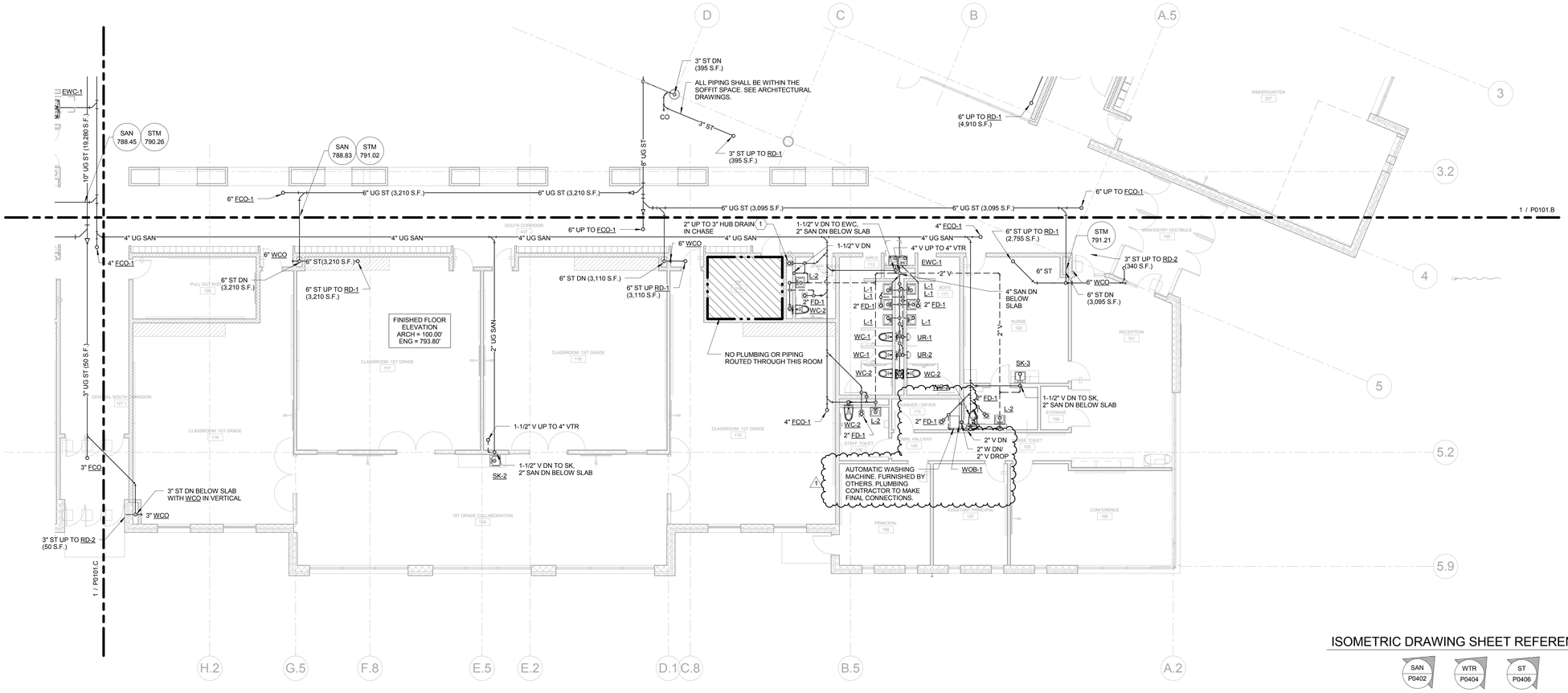
2 KEYED NOTES

1. HUB DRAIN FOR CLEAR WATER CONDENSATE. COORDINATE LOCATION OF HUB DRAIN WITH ACCESS PANEL. ACCESS PANEL INSTALLED BY GENERAL CONTRACTOR.



ISOMETRIC DRAWING SHEET REFERENCES

SAN P0402 | WTR P0404 | ST P0406

1 UNDERGROUND AND LEVEL 01 SANITARY, VENT, AND STORM PLAN - AREA D

1/8" = 1'-0"

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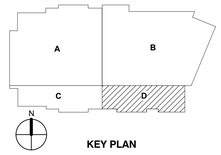

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Drawing Title:

UNDERGROUND & LEVEL 01 SANITARY, VENT, & STORM PLAN - AREA D

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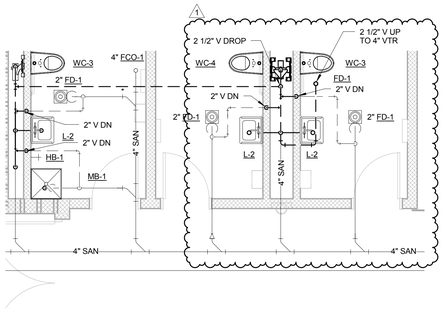
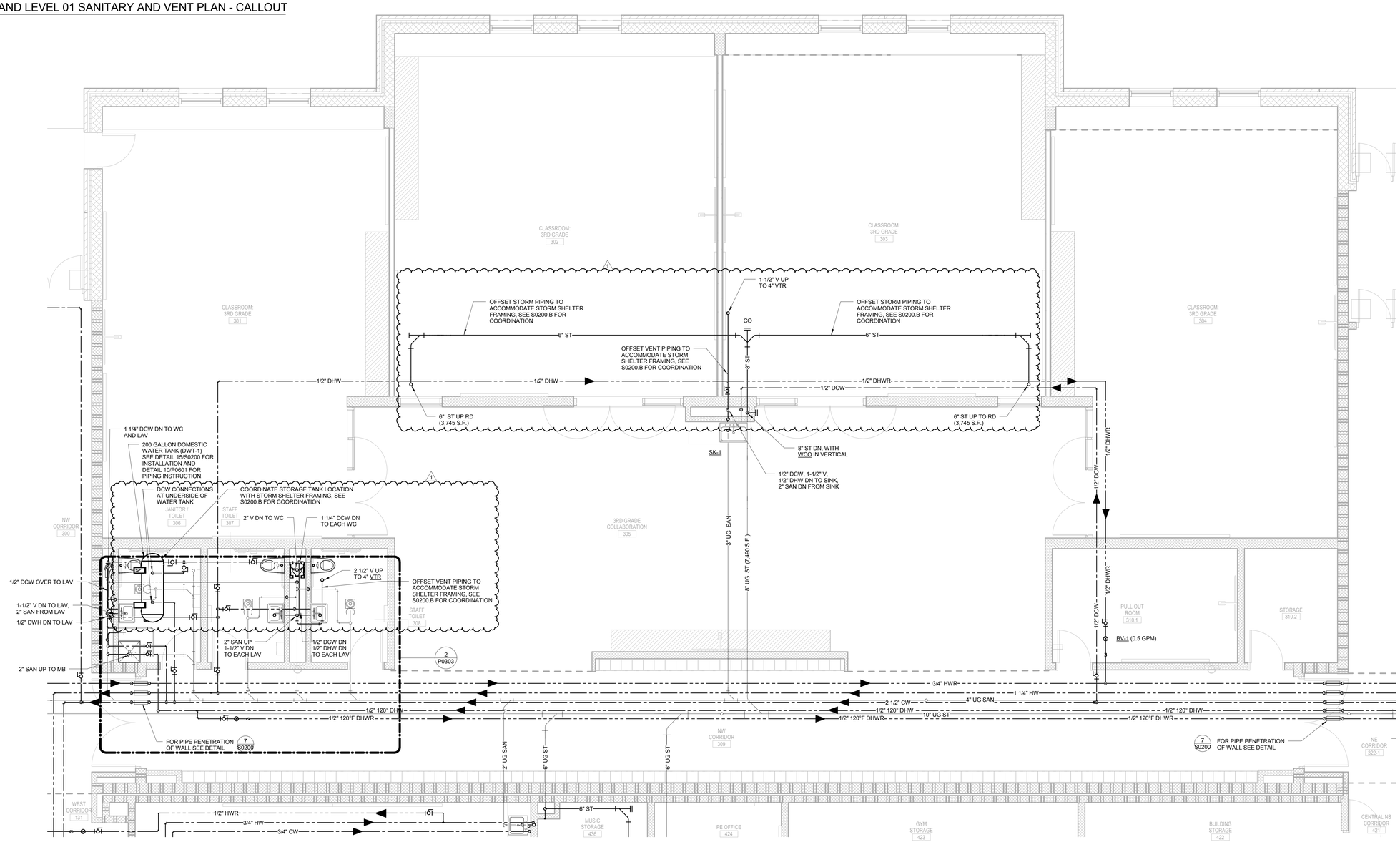


2 UNDERGROUND AND LEVEL 01 SANITARY AND VENT PLAN - CALLOUT

1/4" = 1'-0"

GENERAL NOTES

1. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16 INCHES IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. SEE STRUCTURAL DRAWINGS DETAIL #7 ON S200 FOR ADDITIONAL INFORMATION.



1 LEVEL 01 ENLARGED DOMESTIC WATER PLAN - STORM SHELTER

1/4" = 1'-0"

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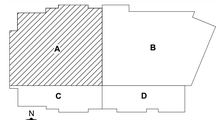

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Drawing Title:

ENLARGED PLUMBING PLAN

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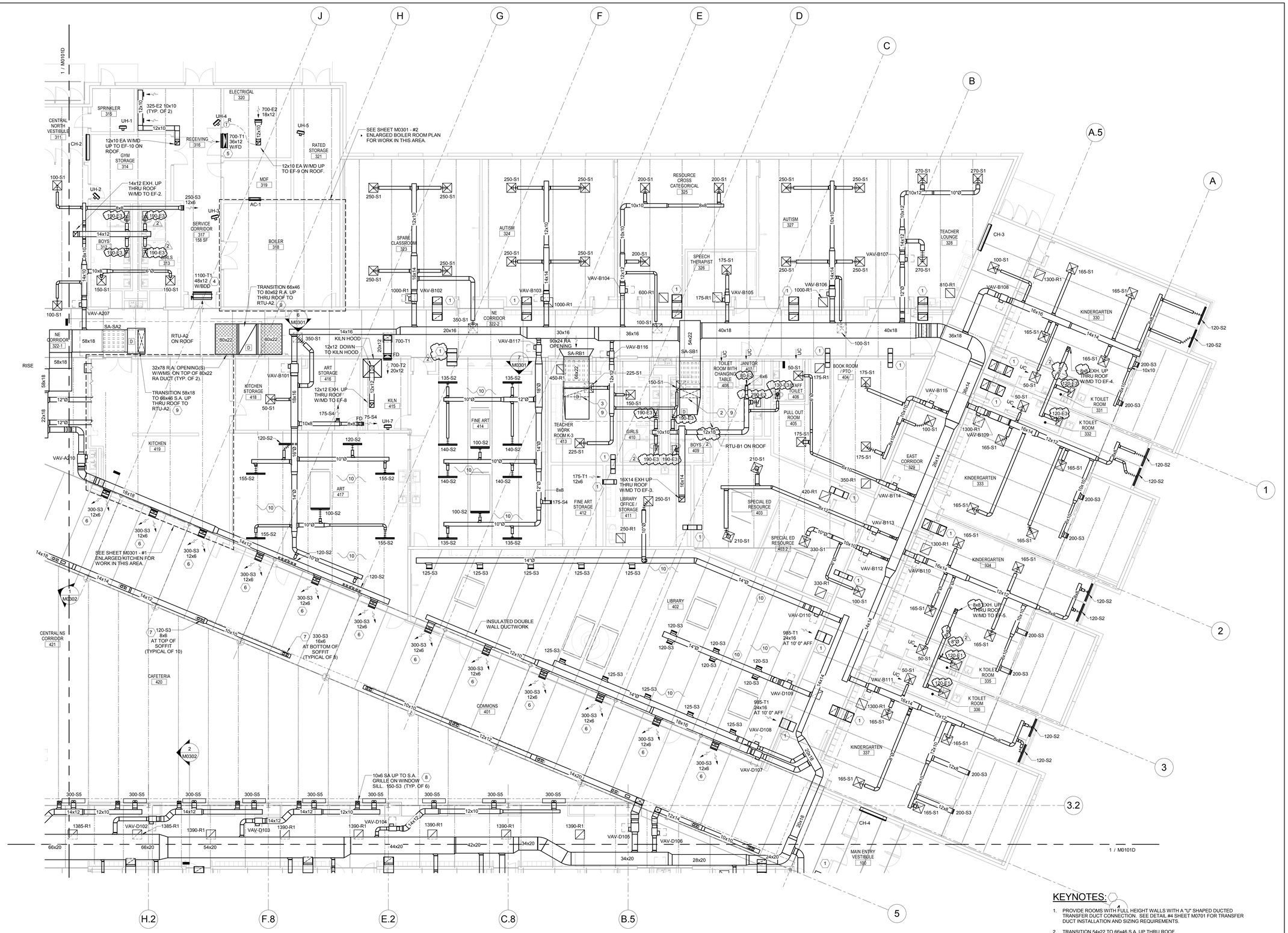

1 LEVEL 01 HVAC DUCTWORK PLAN - AREA B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE ROOMS WITH FULL HEIGHT WALLS WITH A "U" SHAPED DUCTED TRANSFER DUCT CONNECTION. SEE DETAIL #4 SHEET M0701 FOR TRANSFER DUCT INSTALLATION AND SIZING REQUIREMENTS.
2. TRANSITION 54x22 TO 66x46 S.A. UP THRU ROOF.
3. TRANSITION 66x22 TO 88x62 R.A. UP THRU ROOF.
4. INSTALL BOTTOM OF TRANSFER AIR GRILLE 8'-8" A.F.F.
5. INSTALL BOTTOM OF TRANSFER AIR GRILLE 8'-2" A.F.F.
6. INSTALL BOTTOM OF SUPPLY AIR GRILLE 12'-4" A.F.F.
7. SEE SHEET M0302 DETAIL #1 FOR SUPPLY GRILLE INSTALLATION.
8. SEE SHEET M0302 DETAIL #2 FOR SUPPLY GRILLE INSTALLATION.
9. SUPPLY AND RETURN DUCTWORK BETWEEN SOUND ATTENUATORS AND RTU CONNECTIONS INCLUDING ELBOW FITTINGS AND TRANSITIONS SHALL BE FABRICATED FROM 14 GAUGE GALVANIZED SHEET METAL.
10. INDICATED EXPOSED ROUND DUCTWORK SHALL BE INSULATED SPIRAL DOUBLE WALL DUCTWORK.

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LEVEL 01 HVAC DUCTWORK PLAN - AREA B

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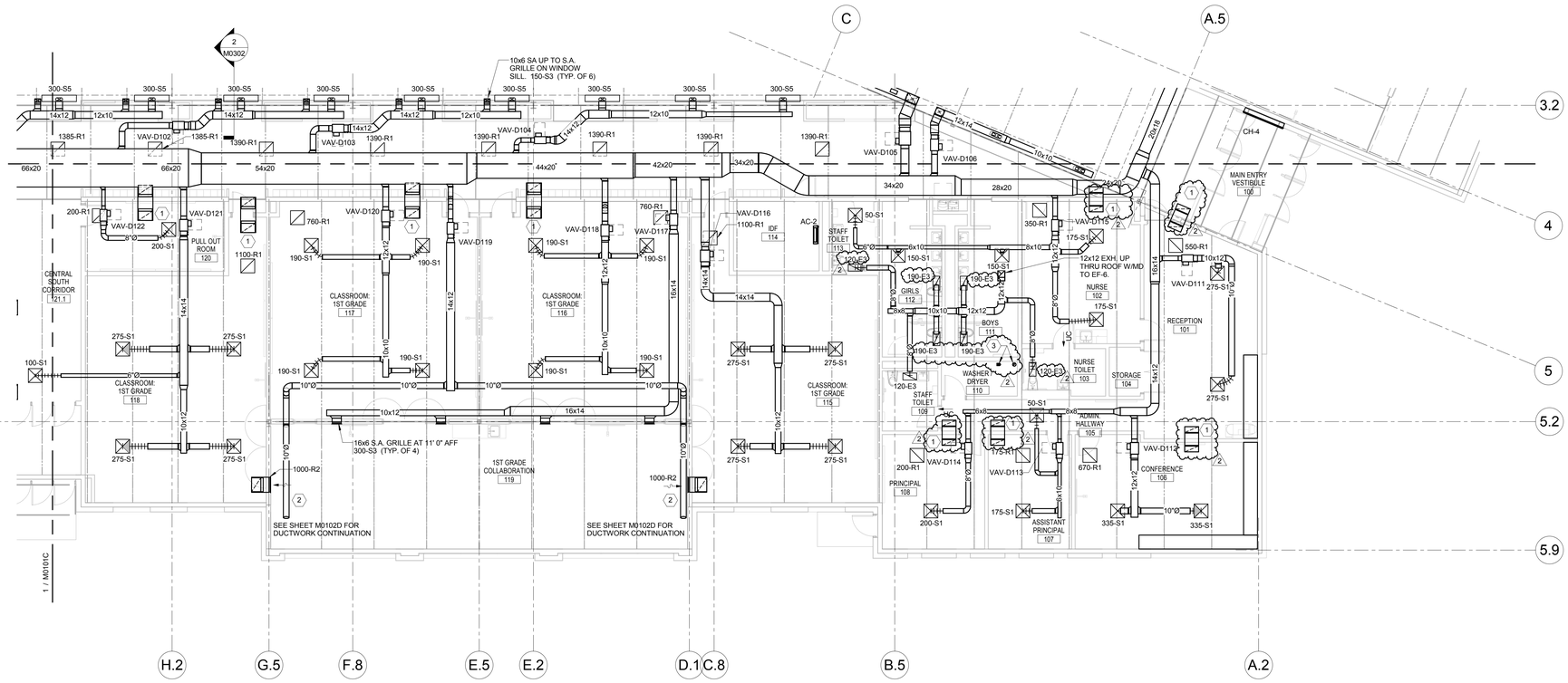

1 LEVEL 01 HVAC DUCTWORK PLAN - AREA D

1/8" = 1'-0"

KEYNOTES:

1. PROVIDE ROOMS WITH FULL HEIGHT WALLS WITH A "U" SHAPED DUCTED TRANSFER DUCT CONNECTION. SEE DETAIL #4 SHEET M0701 FOR TRANSFER DUCT INSTALLATION AND SIZING REQUIREMENTS.
2. EXPOSED DUCTWORK IN COLLABORATION AREAS SHALL BE INSULATED SPIRAL DOUBLE WALL DUCTWORK.
3. PROVIDE AND EXTEND A RIGID 5" DRYER VENT AND 6" C.A.I. UP THRU ROOF IN ROOF CURB. TERMINATE BOTH VENTS 18" ABOVE ROOF LINE WITH GOOSENECK AND BIRD SCREEN. TERMINAL 6" C.A.I. VENT WITHIN WASHER/DRYER 110 12" ABOVE FINISH FLOOR. COORDINATE WITH OWNER PROVIDED CLOTHS DRYER FOR FINAL TERMINATION DRYER VENT ELEVATION. PROVIDE CLOTHS DRYER VENT WITH AND INLINE LINT TRAP. FIELD COORDINATE LINT TRAP ELEVATION TO BE LOCATION 6" ABOVE TOP DRYER'S CONTROLS. 2

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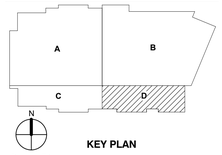

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Drawing Title:

LEVEL 01 HVAC DUCTWORK PLAN - AREA D

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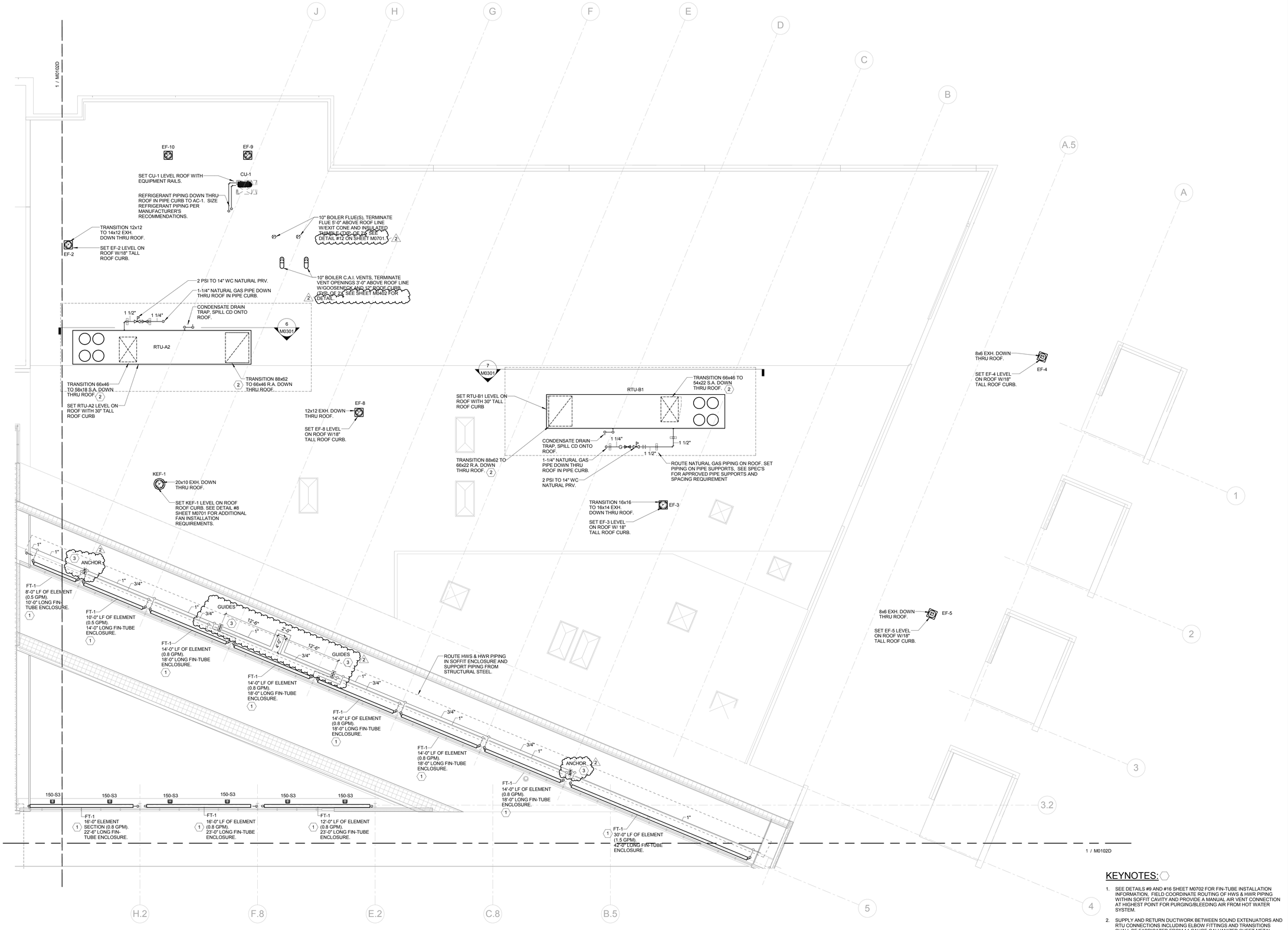

1 LEVEL 02 HVAC PLAN - AREA B
1/8" = 1'-0"

KEYNOTES:

1. SEE DETAILS #9 AND #16 SHEET M0702 FOR FIN-TUBE INSTALLATION INFORMATION. FIELD COORDINATE ROUTING OF HWS & HWR PIPING WITHIN SOFFIT CAVITY AND PROVIDE A MANUAL AIR VENT CONNECTION AT HIGHEST POINT FOR PURGING/BLEEDING AIR FROM HOT WATER SYSTEM.
2. SUPPLY AND RETURN DUCTWORK BETWEEN SOUND EXTENUATORS AND RTU CONNECTIONS INCLUDING ELBOW FITTINGS AND TRANSITIONS SHALL BE FABRICATED FROM 14 GAUGE GALVANIZED SHEET METAL.
3. PROVIDE HOT WATER SUPPLY AND RETURN MAINS WITH A LOOP TYPE "U" SHAPE EXPANSION LOOP WITH MOMENT GUIDES AND PIPE ANCHORS AS NOTED PLANS. FASTEN PIPE ANCHORS TO STRUCTURAL STEEL.

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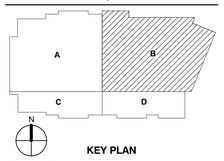

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Drawing Title:

LEVEL 02 HVAC DUCTWORK PLAN - AREA B

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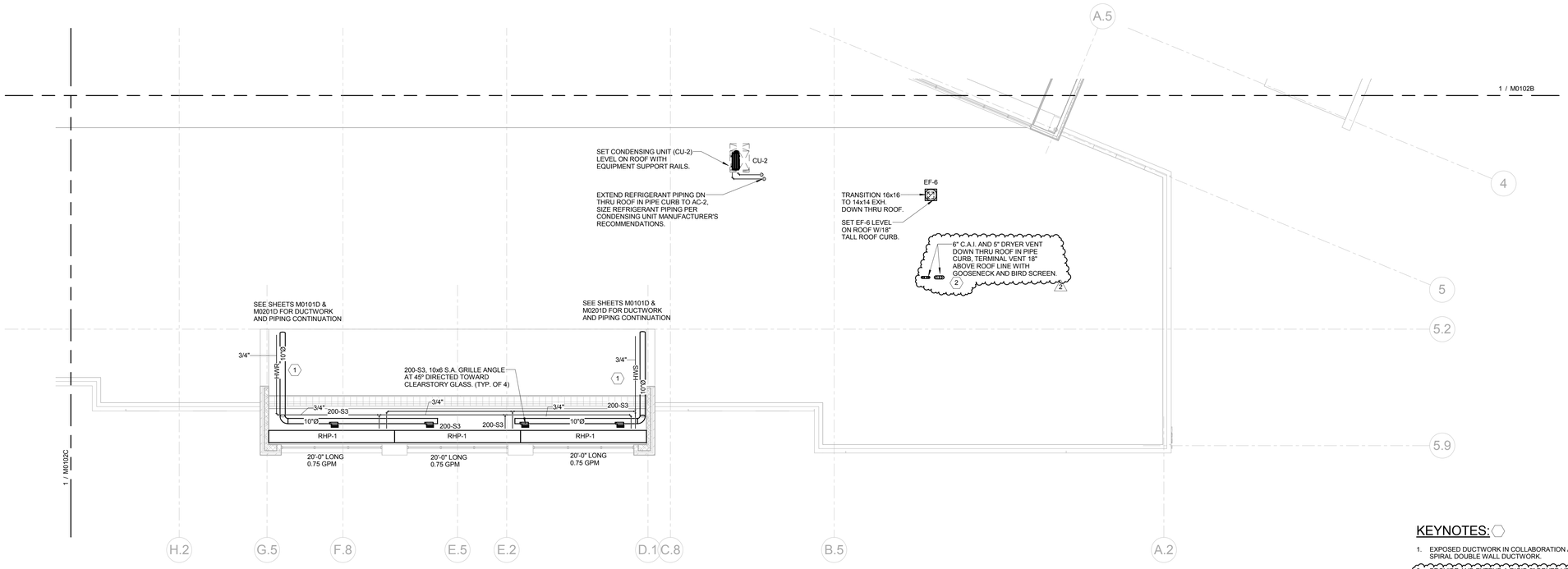

1 LEVEL 02 HVAC PLAN - AREA D
1/8" = 1'-0"

KEYNOTES:

1. EXPOSED DUCTWORK IN COLLABORATION AREAS SHALL BE INSULATED SPIRAL DOUBLE WALL DUCTWORK.
2. PROVIDE AND EXTEND A RIGID 5" DRYER VENT AND 6" C.A.I. DOWN THRU ROOF IN ROOF CURB, TERMINATE BOTH VENTS 18" ABOVE ROOF LINE WITH GOOSENECK AND BIRD SCREEN. 2

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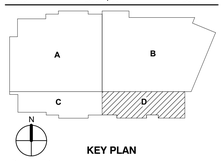

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Drawing Title:

LEVEL 02 HVAC DUCTWORK PLAN - AREA D

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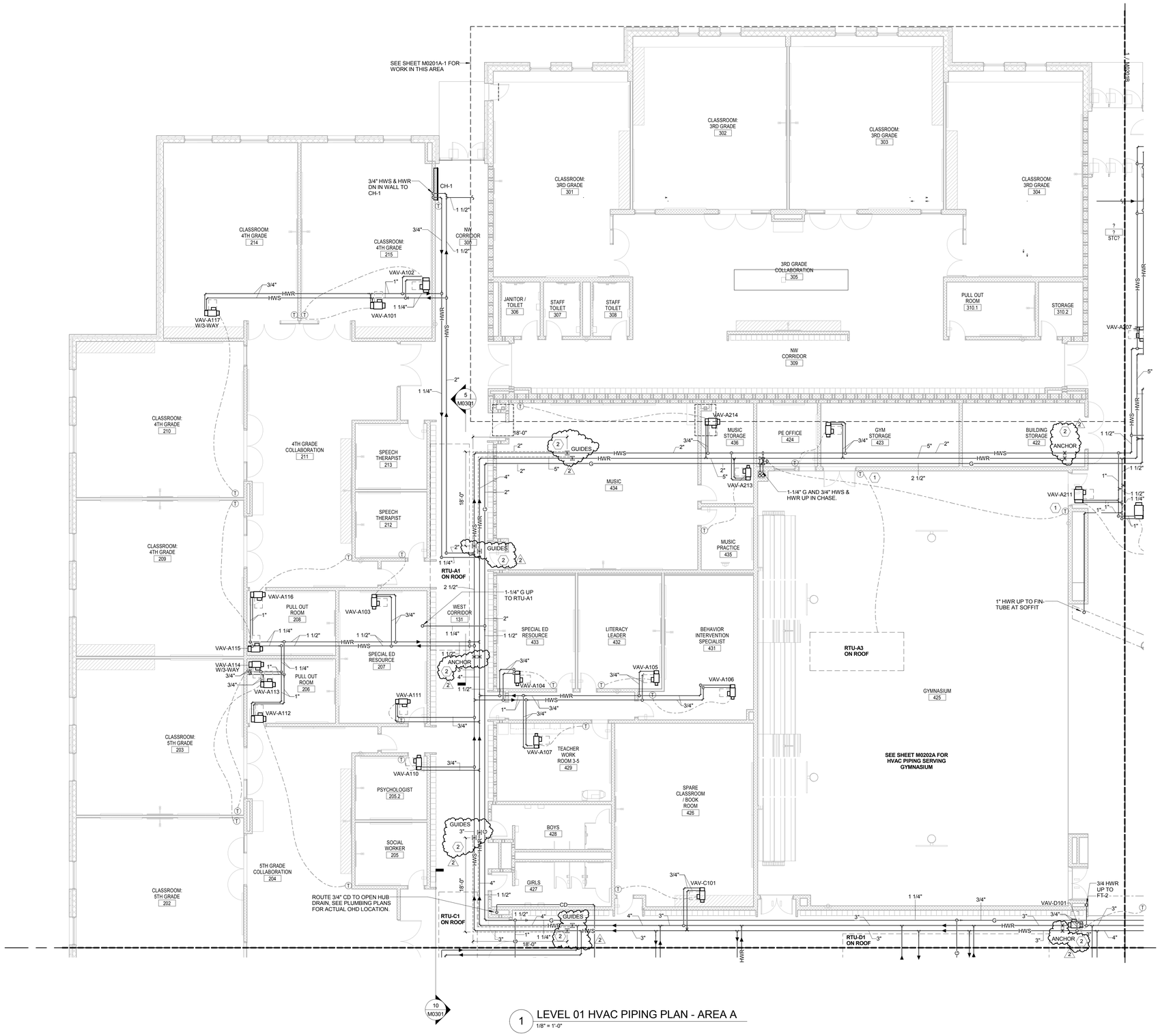

1 LEVEL 01 HVAC PIPING PLAN - AREA A
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE THERMOSTAT WITH PROTECTIVE WIRE COVER.
2. PROVIDE HOT WATER SUPPLY AND RETURN MAINS WITH A 90 DEGREE "L" SHAPE EXPANSION LOOP WITH MOMENT GUIDES AND PIPE ANCHORS AS NOTED PLANS. FASTEN PIPE ANCHORS TO STRUCTURAL STEEL.

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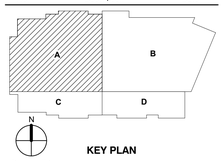

KEY PLAN

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LEVEL 01 HVAC PIPING PLAN - AREA A

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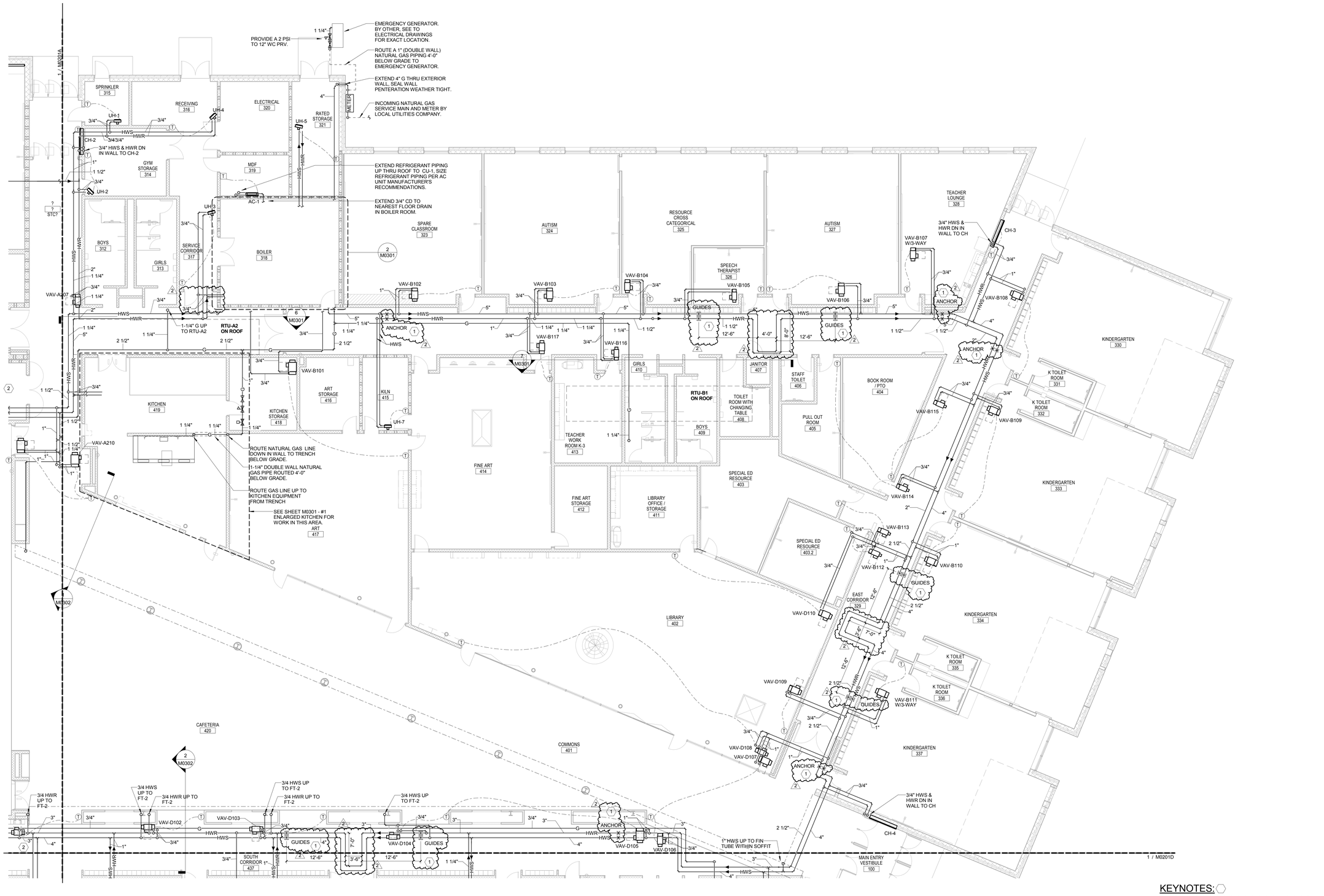

KEYNOTES:

1. PROVIDE HOT WATER SUPPLY AND RETURN MAINS WITH A LOOP TYPE "U" SHAPE EXPANSION LOOP WITH MOMENT GUIDES AND PIPE ANCHORS AS NOTED PLANS. FASTEN PIPE ANCHORS TO STRUCTURAL STEEL.

1 LEVEL 01 HVAC PIPING PLAN - AREA B
1/8" = 1'-0"

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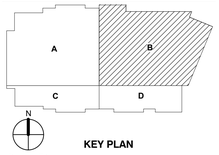

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LEVEL 01 HVAC PIPING PLAN - AREA B

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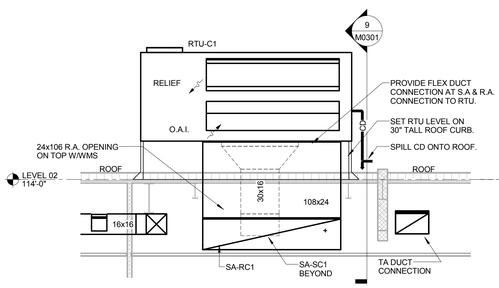
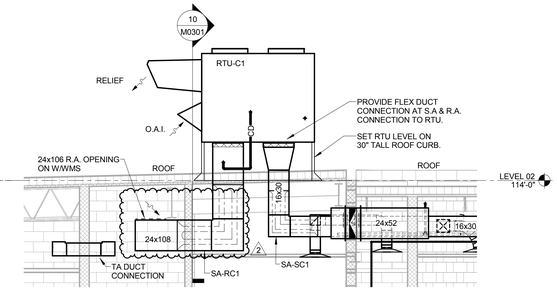
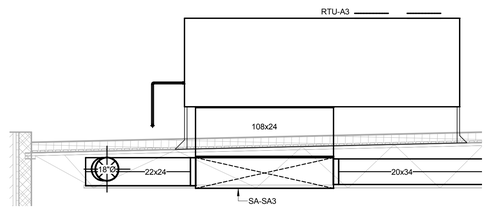


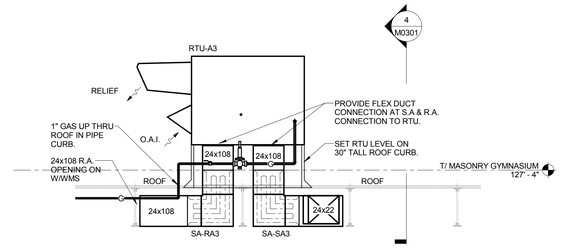
10 EAST ELEVATION AT RTU-C1
1/4" = 1'-0"



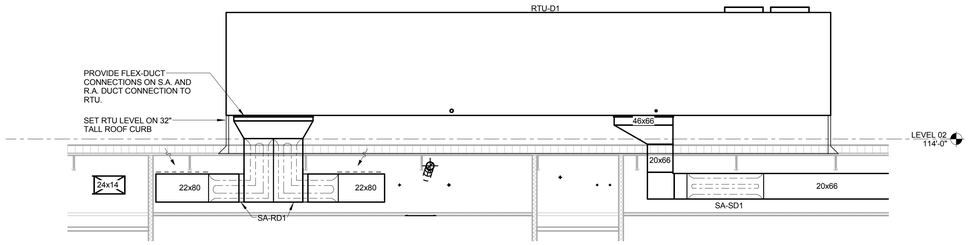
9 NORTH ELEVATION AT RTU-C1
1/4" = 1'-0"



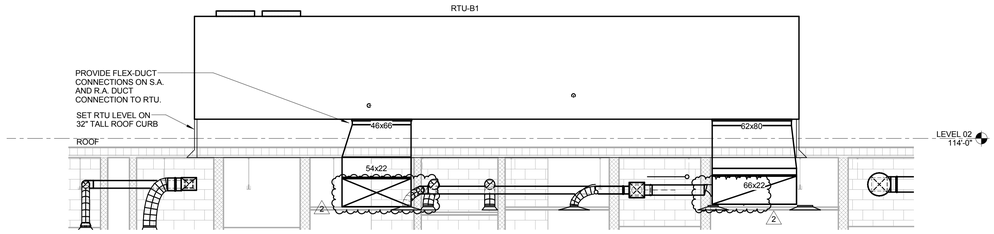
4 NORTH ELEVATION AT RTU-A3
1/4" = 1'-0"



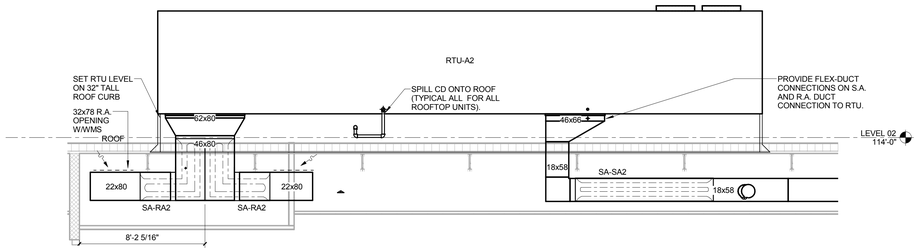
3 WEST ELECTION AT RTU-A3
1/4" = 1'-0"



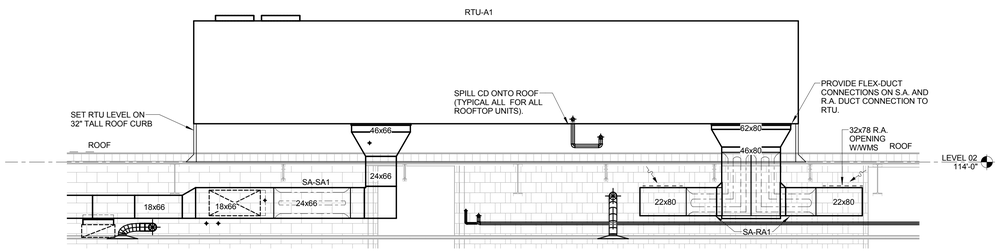
8 SECTION AT RTU-D1
1/4" = 1'-0"



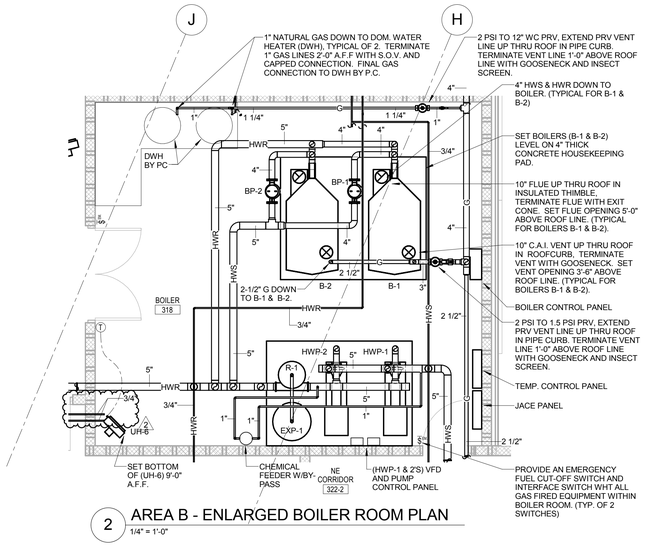
7 SECTION AT RTU-B1
1/4" = 1'-0"



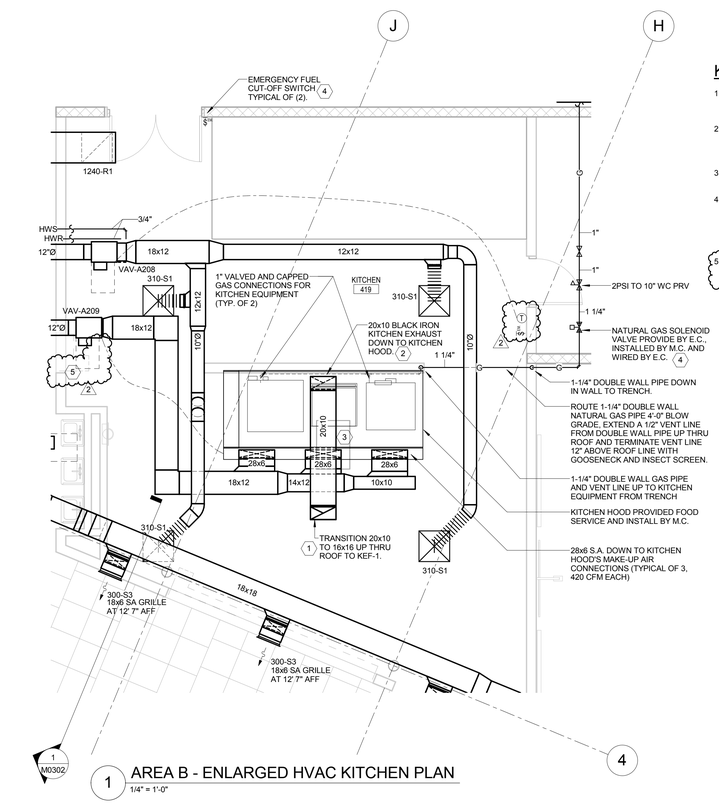
6 SECTION AT RTU-A2
1/4" = 1'-0"



5 SECTION AT RTU-A1
1/4" = 1'-0"



2 AREA B - ENLARGED BOILER ROOM PLAN
1/4" = 1'-0"



1 AREA B - ENLARGED HVAC KITCHEN PLAN
1/4" = 1'-0"

KEYNOTES:

1. FABRICATE KITCHEN EXHAUST DUCTWORK OUT OF BLACK IRON. ALL SEAMS/JOINTS SHALL BE WELDED. PROVIDE GREASE CLEAN-OUTS ON KITCHEN EXHAUST DUCTWORK EVERY 10'-0" ON CENTER.
2. PROVIDE DUCT TRANSITIONS/CONNECTIONS TO KITCHEN HOOD. COORDINATE REQUIRE TRANSITION DIMENSION WITH APPROVED KITCHEN HOOD SUBMITTAL. KITCHEN HOOD SHALL BE PROVIDED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
3. PROVIDE TWO (2) LAYER OF FYRE WRAP ON ALL KITCHEN EXHAUST DUCTWORK TO ACHIEVE A 2 HOUR FIRE RATING.
4. COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROCUREMENT AND INSTALLATION OF SOLENOID VALVE. ELECTRICAL CONTRACTOR SHALL PROVIDE SOLENOID VALVE AND POWER SOLENOID VALVE, MECHANICAL CONTRACTOR SHALL INSTALL SOLENOID VALVE, AND CONTROLS CONTRACTOR SHALL INTERFACE SOLENOID VALVE WITH KITCHEN HOOD'S ANSUL SYSTEM AND EMERGENCY FUEL CUT-OFF SWITCH.
5. INTERFACE VAV-A209 WITH KITCHEN HOOD CONTROLS. VAV BOX SHALL CLOSE TO (0 CFM) WHEN KITCHEN EXHAUST FAN IS OFF. VAV BOX SHALL FULLY OPEN TO SCHEDULED (1260 CFM) WHEN KITCHEN HOOD IS IN USE.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
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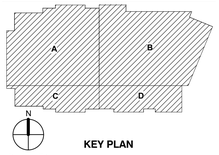
(815) 484-4300

No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

ENLARGED PLANS AND SECTIONS

Project No.: 005005.00 Checked by: JM

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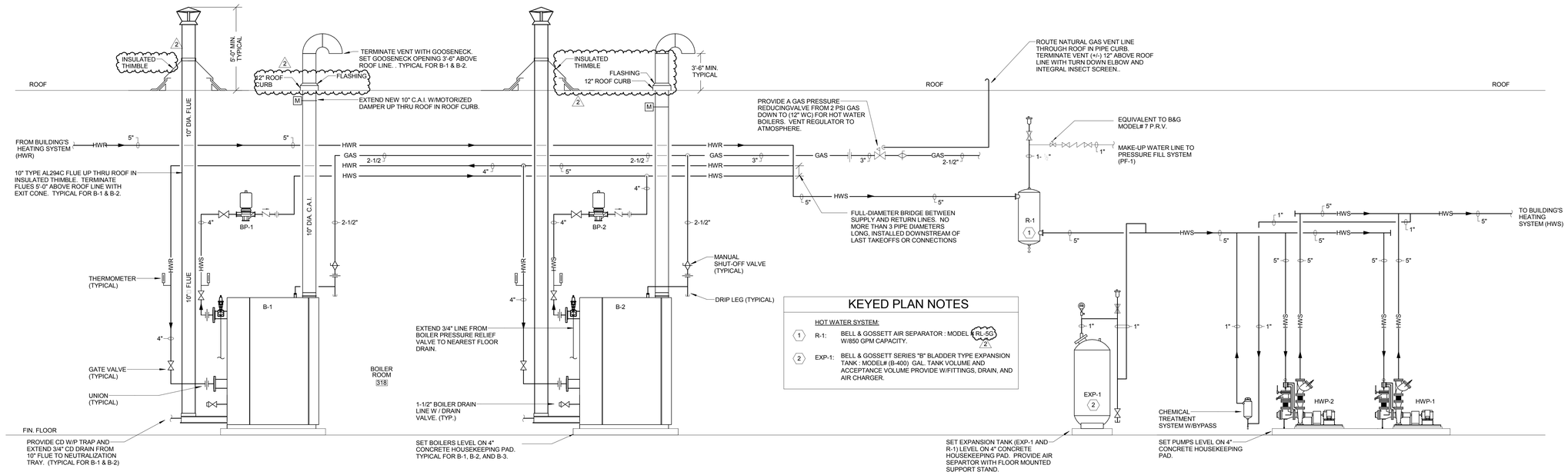

KEYED PLAN NOTES

HOT WATER SYSTEM:

1. R-1; BELL & GOSSETT AIR SEPARATOR : MODEL RL-SG W/850 GPM CAPACITY.
2. EXP-1; BELL & GOSSETT SERIES "B" BLADDER TYPE EXPANSION TANK : MODEL# (B-400) GAL. TANK VOLUME AND ACCEPTANCE VOLUME PROVIDE W/FITTINGS, DRAIN, AND AIR CHARGER.

1 HOT WATER BOILER PLANT PIPING DIAGRAM

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017

Drawing Title:

RISER DIAGRAMS

Project No.: 005005.00 Checked by: Checker

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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	COOLING MAX. CFM	COOLING MIN CFM	HEATING MAX. CFM	TOTAL UNIT AIR P.D. INCH W.C.	DUCT SIZES INLET	OUTLET DUCT SIZE (IN)	BOX AIR P.D. INCH W.C.	MAX NC DISCH.	MAX NC RAD.	HOT WATER COIL CAPACITY MBH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	W.P.D. (FT)	T.C. VALVE	MANUFACTURER AND MODEL TITUS	REMARKS
AREA D (RTU-D1)																				
VAV-D101	420	900	270	900	.3"	10"	14" x 12-1/2"	0.5	22	25	34.2	55	90	170	140	2.3	5'	2-WAY	DESV-10	
VAV-D102	420	900	270	900	.3"	10"	14" x 12-1/2"	0.5	22	25	34.2	55	90	170	140	2.3	5'	2-WAY	DESV-10	
VAV-D103	420	900	270	900	.3"	10"	14" x 12-1/2"	0.5	22	25	34.2	55	90	170	140	2.3	5'	2-WAY	DESV-10	
VAV-D104	401	900	270	900	.3"	10"	14" x 12-1/2"	0.5	22	25	34.2	55	90	170	140	2.3	5'	2-WAY	DESV-10	
VAV-D105	401	1800	540	1800	.3"	14"	20" x 17-1/2"	0.5	-	24	68.4	55	90	170	140	4.6	5'	2-WAY	DESV-14	
VAV-D106	401	900	270	900	.3"	10"	14" x 12-1/2"	0.5	22	25	34.2	55	90	170	140	2.3	5'	2-WAY	DESV-10	
VAV-D107	401	1800	540	1800	.3"	14"	20" x 17-1/2"	0.5	-	24	68.4	55	90	170	140	4.6	5'	2-WAY	DESV-14	
VAV-D108	402	625	190	625	.3"	8"	12" x 10"	0.5	20	23	23.7	55	90	170	140	1.6	5'	2-WAY	DESV-08	
VAV-D109	402	720	220	720	.3"	8"	12" x 10"	0.5	20	23	27.3	55	90	170	140	1.8	5'	2-WAY	DESV-08	
VAV-D110	402	875	265	875	.3"	10"	14" x 12-1/2"	0.5	22	25	33.2	55	90	170	140	2.2	5'	2-WAY	DESV-10	
VAV-D111	101	550	165	550	.3"	8"	12" x 10"	0.5	20	23	20.9	55	90	170	140	1.4	5'	2-WAY	DESV-08	
VAV-D112	106	670	205	670	.3"	8"	12" x 10"	0.5	20	23	25.4	55	90	170	140	1.7	5'	2-WAY	DESV-08	
VAV-D113	107	225	70	225	.3"	6"	12" x 8"	0.5	-	22	8.5	55	90	170	140	0.6	5'	3-WAY	DESV-06	
VAV-D114	108	200	60	200	.3"	6"	12" x 8"	0.5	-	22	7.6	55	90	170	140	0.5	5'	2-WAY	DESV-06	
VAV-D115	102	700	210	700	.3"	8"	12" x 10"	0.5	20	23	26.6	55	90	170	140	1.8	5'	2-WAY	DESV-08	
VAV-D116	115	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	
VAV-D117	116	1200	360	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	2-WAY	DESV-10	
VAV-D118	116	760	380	760	.3"	10"	14" x 12-1/2"	0.5	22	25	28.9	55	90	170	140	1.9	5'	2-WAY	DESV-10	
VAV-D119	117	800	320	800	.3"	10"	14" x 12-1/2"	0.5	22	25	30.4	55	90	170	140	2.0	5'	2-WAY	DESV-10	
VAV-D120	117	760	380	760	.3"	10"	14" x 12-1/2"	0.5	22	25	28.9	55	90	170	140	1.9	5'	2-WAY	DESV-10	
VAV-D121	120	1200	360	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	3-WAY	DESV-10	
VAV-D122	120	200	60	200	.3"	6"	12" x 8"	0.5	-	22	7.6	55	90	170	140	0.5	5'	2-WAY	DESV-06	

FIN TUBE RADIATION SCHEDULE

TAG	LOCATION	BTUH/ LIN. FT.	FINS THICKNESS (IN)	FINS PER FT.	FIN SIZE (IN)	PIPE SIZE/ MATERIAL	ROWS	EWT (%%DF)	LWT (%%DF)	EAT (%%DF)	GPM / LIN. FT.	W.P.D. (FT)	MANUFACTURER AND MODEL	REMARKS
FT-1	SEE PLAN	508	0.016	40	4-1/4" x 3-5/8"	3/4" COPPER	1	170	140	65	0.25	-	VULCAN : VC3/4 435	1, 2, 3, 4, 5 2

REMARKS:
1. HEATING ELEMENT : 3/4"C - 4-1/4" x 3-5/8" - 40 FINS/FT
2. PROVIDE FIN-TUBE WITH MOUNTING HARDWARE, FIN-TUBE HOUSING.
3. PROVIDE FIN-TUBE HOUSING WITH SLOPED TOP TO MATCH WINDOW SILL SLOPE, SEE FIN-TUBE DETAIL #9 SHEET M0702.
4. PROVIDE FIN-TUBE HOUSING WITH SILL GRILLE EQUIVALENT TO TITUS CT-PP-0 WITH (C1 OR C2) FRAME TO MATCH FIN-TUBE DIMENSIONS, SEE FIN-TUBE DETAILS FOR FURNISHINGS.
5. PROVIDE FIN-TUBE WITH DANFOSS RA-2000 NON-ELECRIC CONTROL VALVE AND SENSING ELEMENT. 2

UNIT HEATER SCHEDULE

TAG	LOCATION	UNIT SIZE	WATER HEATING COIL DATA MBH	GPM	WPD	EAT	LAT	EWT	LWT	FAN/ MOTOR DATA CFM	QTY	HP EACH	RPM	VOLT	PH	HZ	MANUFACTURER AND MODEL	SEE REMARKS BELOW
UH-1	315	18	10.6	0.8	0.0	60	99	170	140	350	1	9 W	1350	120	1	60	VULCAN : HV-18	1, 2, 3, 4
UH-2	314	18	10.6	0.8	0.0	60	99	170	140	350	1	9 W	1350	120	1	60	VULCAN : HV-18	1, 2, 3, 4
UH-3	314	24	14.0	1.1	0.0	60	98	170	140	380	1	9 W	1350	120	1	60	VULCAN : HV-24	1, 2, 3, 4
UH-4	316	24	14.0	1.1	0.0	60	98	170	140	380	1	9 W	1350	120	1	60	VULCAN : HV-24	1, 2, 3, 4
UH-5	321	24	14.0	1.1	0.0	60	98	170	140	380	1	9 W	1350	120	1	60	VULCAN : HV-24	1, 2, 3, 4
UH-6	318	36	21.2	1.6	0.0	60	103	170	140	480	1	16 W	1350	120	1	60	VULCAN : HV-36	1, 2, 3, 4
UH-7	418	18	10.6	0.8	0.0	60	99	170	140	350	1	9 W	1350	120	1	60	VULCAN : HV-18 2	1, 2, 3, 4 2

REMARKS:
1. PROVIDE UNIT HEATER WITH UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE UNIT HEATER WITH EQUIPMENT SUPPORT KIT AND VIBRATION ISOLATION SUPPORT HANGERS.
3. SEE MECHANICAL PIPING PLANS FOR THEMOSTAT INSTALL ATION LOCATION. 2
4. COODINATE CONTROLS CONTRACTOR FOR PROCURMENT AND INSTALL OF UNITS' WALL MOUNTED THERMOSTAT, 3-WAY T.C. VALVE.

NATURAL GAS SCHEDULE

TAG	DESCRIPTION	CAPACITY CFH	GAS VALVE PRESSURE	PRESSURE AFTER PRV	REMARKS
B-1	CONDENSING BOILER	3000	2 PSI	1.5 PSI	-
B-2	CONDENSING BOILER	3000	2 PSI	1.5 PSI	-
HWH-1	DOMESTIC WATER HEATER	199	2 PSI	12" W.C.	-
HWH-2	DOMESTIC WATER HEATER	199	2 PSI	12" W.C.	-
RTU-A1	ROOF TOP UNIT	650	2 PSI	12" W.C.	-
RTU-A2	ROOF TOP UNIT	650	2 PSI	12" W.C.	-
RTU-A3	ROOF TOP UNIT	800	2 PSI	12" W.C.	-
RTU-B1	ROOF TOP UNIT	650	2 PSI	12" W.C.	-
RTU-C1	ROOF TOP UNIT	350	2 PSI	12" W.C.	-
RTU-D1	ROOF TOP UNIT	650	2 PSI	12" W.C.	-
-	KITCHEN	500	2 PSI	10" W.C.	-
EM. GEN.	STAND-BY GENERATOR	260	2 PSI	12" W.C.	
-	LAUNDRY DRYERS	140	2 PSI	6" W.C.	
-	-	-			-
		11048			CU. FT. / HOUR

BASEBOARD HEATER SCHEDULE (ELECTRIC)

TAG	LOCATION	ELEMENT DATA WATTS/LF	VOLT	PH	HZ	TOTAL WATTS	MANUFACTURER AND MODEL	REMARKS
FT-2	SEE PLANS	250	277	1	60	750	MARLEY QMKC2573W	1 THRU 3

REMARKS:
1. PROVIDE AND CENTER A 4'-0" LONG SECTION OF ELECTRIC FIN-TUBE ELEMENT WITHIN BENCH SECTION.
2. PROVIDE FT WITH DISCONNECT SWITCH, INTEGRAL THERMOSTAT, AND THERMO-OVER LOAD PROTECTION.
3. PROVIDE FT WITH FT WITH REQUIRED END CAPS AND INSTALLATION HARDWARE.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	COOLING MAX. CFM	COOLING MIN CFM	HEATING MAX. CFM	TOTAL UNIT AIR P.D. INCH W.C.	DUCT SIZES INLET	OUTLET DUCT SIZE (IN)	BOX AIR P.D. INCH W.C.	MAX NC DISCH.	MAX NC RAD.	HOT WATER COIL CAPACITY MBH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	W.P.D. (FT)	T.C. VALVE	MANUFACTURER AND MODEL TITUS	REMARKS
AREA A (RTU-A1)																				
VAV-A101	215	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	
VAV-A102	215	1200	480	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	2-WAY	DESV-10	
VAV-A103	207	400	120	400	.3"	6"	12" x 8"	0.5	-	22	15.2	55	90	170	140	1.0	5'	2-WAY	DESV-06	
VAV-A104	433	400	120	400	.3"	6"	12" x 8"	0.5	-	22	15.2	55	90	170	140	1.0	5'	2-WAY	DESV-06	
VAV-A105	432	300	90	300	.3"	6"	12" x 8"	0.5	-	22	11.4	55	90	170	140	0.8	5'	2-WAY	DESV-06	
VAV-A106	431	400	120	400	.3"	6"	12" x 8"	0.5	-	22	15.2	55	90	170	140	1.0	5'	2-WAY	DESV-06	
VAV-A107	429	950	285	950	.3"	10"	14" x 12-1/2"	0.5	22	25	36.1	55	90	170	140	2.4	5'	2-WAY	DESV-10	
VAV-A108	200	1200	480	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	2-WAY	DESV-10	
VAV-A109	200	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	3-WAY	DESV-10	
VAV-A110	205.2	550	165	550	.3"	8"	12" x 10"	0.5	20	23	20.9	55	90	170	140	1.4	5'	2-WAY	DESV-08	
VAV-A111	207	850	255	850	.3"	10"	14" x 12-1/2"	0.5	22	25	32.3	55	90	170	140	2.2	5'	2-WAY	DESV-10	
VAV-A112	206	1440	435	1440	.3"	12"	16" x 15"	0.5	20	23	54.7	55	90	170	140	3.6	5'	2-WAY	DESV-12	
VAV-A113	206	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	
VAV-A114	206	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	3-WAY	DESV-10	
VAV-A115	208	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	
VAV-A116	208	1440	435	1440	.3"	12"	16" x 15"	0.5	20	23	54.7	55	90	170	140	3.6	5'	2-WAY	DESV-12	
VAV-A117	214	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	3-WAY	DESV-10	

REMARKS:

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	COOLING MAX. CFM	COOLING MIN CFM	HEATING MAX. CFM	TOTAL UNIT AIR P.D. INCH W.C.	DUCT SIZES INLET	OUTLET DUCT SIZE (IN)	BOX AIR P.D. INCH W.C.	MAX NC DISCH.	MAX NC RAD.	HOT WATER COIL CAPACITY MBH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	W.P.D. (FT)	T.C. VALVE	MANUFACTURER AND MODEL TITUS	REMARKS
AREA A (RTU-A2)																				
VAV-A201	301	1360	410	1360	.3"	12"	16" x 15"	0.5	20	23	51.6	55	90	170	140	3.4	5'	2-WAY	DESV-12	
VAV-A202	302	1000	400	1000	.3"	10"	14" x 12-1/2"	0.5	22	25	38.0	55	90	170	140	2.5	5'	2-WAY	DESV-10	
VAV-A203	303	1000	400	1000	.3"	10"	14" x 12-1/2"	0.5	22	25	38.0	55	90	170	140	2.5	5'	2-WAY	DESV-10	
VAV-A204	305	1200	360	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	2-WAY	DESV-10	
VAV-A205	304	1000	400	1000	.3"	10"	14" x 12-1/2"	0.5	22	25	38.0	55	90	170	140	2.5	5'	3-WAY	DESV-10	
VAV-A206	310.1	410	125	410	.3"	8"	12" x 10"	0.5	20	23	15.6	55	90	170	140	1.0	5'	2-WAY	DESV-08	
VAV-A207	311	750	225	750	.3"	10"	14" x 12-1/2"	0.5	22	25	28.5	55	90	170	140	1.9	5'	2-WAY	DESV-10	
VAV-A208	419	1240	375	1240	.3"	12"	16" x 15"	0.5	20	23	47.1	55	90	170	140	3.1	5'	2-WAY	DESV-12	
VAV-A209	419	1260	380	1260	.3"	12"	16" x 15"	0.5	20	23	47.8	55	90	170	140	3.2	5'	2-WAY	DESV-12	
VAV-A210	421	1800	540	1800	.3"	14"	20" x 17-1/2"	0.5	-	24	68.4	55	90	170	140	4.6	5'	2-WAY	DESV-14	
VAV-A211	421	1800	540	1800	.3"	14"	20" x 17-1/2"	0.5	-	24	68.4	55	90	170	140	4.6	5'	2-WAY	DESV-14	
VAV-A212	424	410	125	410	.3"	8"	12" x 10"	0.5	20	23	15.6	55	90	170	140	1.0	5'	2-WAY	DESV-08	
VAV-A213	436	220	70	220	.3"	6"	12" x 8"	0.5	-	22	8.4	55	90	170	140	0.6	5'	2-WAY	DESV-06	
VAV-A214	434	1250	375	1250	.3"	12"	16" x 15"	0.5	20	23	47.5	55	90	170	140	3.2	5'	2-WAY	DESV-12	

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	COOLING MAX. CFM	COOLING MIN CFM	HEATING MAX. CFM	TOTAL UNIT AIR P.D. INCH W.C.	DUCT SIZES INLET	OUTLET DUCT SIZE (IN)	BOX AIR P.D. INCH W.C.	MAX NC DISCH.	MAX NC RAD.	HOT WATER COIL CAPACITY MBH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	W.P.D. (FT)	T.C. VALVE	MANUFACTURER AND MODEL TITUS	REMARKS
AREA B (RTU-B1)																				
VAV-B101	418	1850	650	1850	.3"	14"	20" x 17-1/2"	0.5	-	24	70.3	55	90	170	140	4.7	5'	2-WAY	DESV-14	
VAV-B102	323	1350	405	1350	.3"	12"	16" x 15"	0.5	20	23	51.3	55	90	170	140	3.4	5'	2-WAY	DESV-12	
VAV-B103	324	1000	400	1000	.3"	10"	14" x 12-1/2"	0.5	22	25	38.0	55	90	170	140	2.5	5'	2-WAY	DESV-10	
VAV-B104	325	700	280	700	.3"	8"	12" x 10"	0.5	20	23	26.6	55	90	170	140	1.8	5'	2-WAY	DESV-08	
VAV-B105	326	175	90	175	.3"	6"	12" x 8"	0.5	-	22	6.6	55	90	170	140	0.4	5'	2-WAY	DESV-06	
VAV-B106	327	1100	550	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	
VAV-B107	328	810	245	810	.3"	10"	14" x 12-1/2"	0.5	22	25	30.8	55	90	170	140	2.1	5'	3-WAY	DESV-10	
VAV-B108	330	1450	435	1450	.3"	12"	16" x 15"	0.5	20	23	55.1	55	90	170	140	3.7	5'	2-WAY	DESV-12	
VAV-B109	333	1350	405	1350	.3"	12"	16" x 15"	0.5	20	23	51.3	55	90	170	140	3.4	5'	2-WAY	DESV-12	
VAV-B110	334	1350	405	1350	.3"	12"	16" x 15"	0.5	20	23	51.3	55	90	170	140	3.4	5'	2-WAY	DESV-12	
VAV-B111	337	1350	405	1350	.3"	12"	16" x 15"	0.5	20	23	51.3	55	90	170	140	3.4	5'	3-WAY	DESV-12	
VAV-B112	403.2	430	130	430	.3"	8"	12" x 10"	0.5	20	23	16.3	55	90	170	140	1.1	5'	2-WAY	DESV-08	
VAV-B113	403	420	130	420	.3"	8"	12" x 10"	0.5	20	23	15.9	55	90	170	140	1.1	5'	2-WAY	DESV-08	
VAV-B114	405	225	115	225	.3"	6"	12" x 8"	0.5	-	22	8.5	55	90	170	140	0.6	5'	2-WAY	DESV-06	
VAV-B115	404	450	135	450	.3"	8"	12" x 10"	0.5	20	23	17.1	55	90	170	140	1.1	5'	2-WAY	DESV-08	
VAV-B116	413	750	225	750	.3"	10"	14" x 12-1/2"	0.5	22	25	28.5	55	90	170	140	1.9	5'	2-WAY	DESV-10	
VAV-B117	414	1300	520	1300	.3"	12"	16" x 15"	0.5	20	23	49.4	55	90	170	140	3.3	5'	2-WAY	DESV-12	

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	LOCATION ROOM #	COOLING MAX. CFM	COOLING MIN CFM	HEATING MAX. CFM	TOTAL UNIT AIR P.D. INCH W.C.	DUCT SIZES INLET	OUTLET DUCT SIZE (IN)	BOX AIR P.D. INCH W.C.	MAX NC DISCH.	MAX NC RAD.	HOT WATER COIL CAPACITY MBH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	GPM	W.P.D. (FT)	T.C. VALVE	MANUFACTURER AND MODEL TITUS	REMARKS
AREA C (RTU-C1)																				
VAV-C101	426	880	440	880	.3"	10"	14" x 12-1/2"	0.5	22	25	33.4	55	90	170	140	2.2	5'	2-WAY	DESV-10	
VAV-C102	122	200	60	200	.3"	6"	12" x 8"	0.5	-	22	7.6	55	90	170	140	0.5	5'	2-WAY	DESV-06	
VAV-C103	123	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	3-WAY	DESV-10	
VAV-C104	124	1200	360	1200	.3"	10"	14" x 12-1/2"	0.5	22	25	45.6	55	90	170	140	3.0	5'	2-WAY	DESV-10	
VAV-C105	124	880	440	880	.3"	10"	14" x 12-1/2"	0.5	22	25	33.4	55	90	170	140	2.2	5'	2-WAY	DESV-10	
VAV-C106	125	760	380	760	.3"	10"	14" x 12-1/2"	0.5	22	25	28.9	55	90	170	140	1.9	5'	2-WAY	DESV-10	
VAV-C107	125	800	240	800	.3"	10"	14" x 12-1/2"	0.5	22	25	30.4	55	90	170	140	2.0	5'	2-WAY	DESV-10	
VAV-C108	126	1100	440	1100	.3"	10"	14" x 12-1/2"	0.5	22	25	41.8	55	90	170	140	2.8	5'	2-WAY	DESV-10	

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017

Drawing Title:

SCHEDULES

Project No.: 005005.00 Checked by: JM

M0501

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ROOFTOP UNIT SCHEDULE

TAG	LOCATION	NOMINAL TONS	TYPE	DISCHARGE DIRECTION	AIR CFM SUPPLY	AIR CFM MIN. O.A.	AIR CFM ESP IN. W.C.	AIR CFM FAN HP	AIR CFM FAN BHP	AIR CFM FAN RPM	EXHAUST FAN CFM	EXHAUST FAN ESP IN. W.C.	EXHAUST FAN HP	EXHAUST FAN BHP	EXHAUST FAN RPM	COOLING SECTION CAPACITY (MBH) TOTAL	COOLING SECTION CAPACITY (MBH) SENSIBLE	COOLING SECTION EAT (F) DB	COOLING SECTION EAT (F) WB	COOLING SECTION LAT (F) DB	COOLING SECTION LAT (F) WB	COOLING SECTION NO. OF COMP.	COOLING SECTION ABMT F	COOLING SECTION COOL'G EDB	HEATING SECTION INPUT MBH	HEATING SECTION OUTPUT MBH	HEATING SECTION EAT F	HEATING SECTION LAT F	HEATING SECTION # STAGES	CONDEN. FAN QTY	CONDEN. FAN FLA	FILTER	REFRIGERANT TYPE	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	UNIT WT. (LBS)	MANUFACTURER AND MODEL	REMARKS
RTU-A1	AREA "A" ROOF	60	VAV SYSTEM	VERTICAL	15100	4800	2.2	20	18.07	682	15100	0.5	15	9	811	682.8	439.4	83.3	68.5	55	54.3	4	94	75	650	524.6	42.8	55	MOD.	4	3.3	MERV 8 PLEATED	R-410A	155	175	480	3	60	11600	CARRIER : 48P3F060610JJSLDXR	1 THRU 13
RTU-A2	AREA "A" ROOF	60	VAV SYSTEM	VERTICAL	15780	5300	2.7	25	21.96	733	15780	0.5	15	9.5	819	675.6	439.4	83.8	65.5	55	54.3	4	94	75	650	524.6	40.2	55	MOD.	4	3.3	MERV 8 PLEATED	R-410A	155	175	480	3	60	11600	CARRIER : 48P3F060610JJSLDXR	1 THRU 13
RTU-A3	AREA "A" ROOF	40	SINGLE ZONE - VAV	VERTICAL	9900	3800	1.5	15	9.5	931	9900	0.5	12.8 FLA	-	-	462	285.3	80.8	68.3	54.2	53.3	4	94	75	800	648	37.7	90	MOD.	4	3.3	MERV 8 PLEATED	R-410A	115	125	480	3	60	6000	CARRIER : 48A2W040-PM62AEQ	1 THRU 12, 14, 15
RTU-B1	AREA "B" ROOF	70	VAV SYSTEM	VERTICAL	16510	5200	2.3	25	19.43	689	16510	0.5	15	10.6	840	704.4	473.9	82.8	67.8	55	54.1	4	94	75	650	524.6	43	55	MOD.	4	3.3	MERV 8 PLEATED	R-410A	162	175	480	3	60	11600	CARRIER : 48P3F070610JJSJNNR	1 THRU 13
RTU-C1	AREA "C" ROOF	35	VAV SYSTEM	VERTICAL	8240	2200	2.1	15	9.72	1045	8240	0.5	12.8 FLA	-	-	349.2	239	81.6	66.7	54	52.8	4	94	75	350	283.5	46.7	55	MOD.	4	3.3	MERV 8 PLEATED	R-410A	100	110	480	3	60	6000	CARRIER : 48A3V035-PM62ARB	1 THRU 13
RTU-D1	AREA "D" ROOF	70	VAV SYSTEM	VERTICAL	19100	5200	2.2	25	23.1	715	19100	0.5	20	14.3	901	753.6	498.5	80.8	67	55	54.3	4	94	75	650	524.6	46.3	55	MOD.	4	3.3	MERV 8 PLEATED	R-410A	178	200	480	3	60	12000	CARRIER : 48P3F070610JJSLHR3	1 THRU 13

REMARKS:

1. PROVIDE RTU WITH FACTORY INSTALLED STAND-ALONE CONTROL (BACNET), INTERFACE RTI WITH SCHOOL DISTRICTS B.A.S. FOR UNIT MONITORING AND ALARMS. UNIT'S CONTROLS SHALL MAKE ALL OPERATING COMMANDS TO ACHIEVE UNIT LEAVING AIR TEMPERATURE AS SET BY B.A.S.
2. PROVIDE RTU WITH HUMIDITY CONTROLS FOR SUPPLY AIR IN THREE MODES: NORMAL COOLING MODE, SUB-COOLING MODE, AND HOT GAS REHEAT. WALL MOUNTED HUMIDISTAT.
3. PROVIDE RTU'S SUPPLY AND RELIEF FAN MOTORS WITH VARIABLE FREQUENCY DRIVE (VFD), NEMA 3R DISCONNECT SWITCH, AND FACTORY INSTALLED CONVENIENCE OUTLET.
4. PROVIDE RTU WITH ECONOMIZE CONTROL OPTION: PROVIDE 0-100% MODULATING POWERED RELIEF ECONOMIZER.
5. PROVIDE RTU WITH 30" TALL SLOPED INSULATE VIBRATION ISOLATION ROOF CURB (EQUIVALENT TO THYBAR VIBRO-CURB III, 14 GA. GALVANIZED STEEL, 1-1/2" INSULATION), FIELD VERIFY REQUIRED ROOF SLOPE FOR EACH RTU'S ROOF CURB.
6. PROVIDE RTU WITH HAILGAURD ON ALL CONDENSER FAN.
7. PROVIDE RTU WITH SUPPLY AND RETURN AIR SMOKE DETECTORS.
8. PROVIDE RTU WITH NATURAL GAS PRESSURE REDUCING VALVES (2 PSI TO 11.5" WC) GAS PRESSURE AT RTU
9. PROVIDE RTU WITH COMBUSTION AIR BLOWER MOTOR
10. PROVIDE RTU WITH (20% TO 100%) MODULATING NATURAL GAS HEATING.
11. PROVIDE RTU WITH SCROLL COMPRESSORS CAPABLE OF MULTI-STAGE OPERATION OR (MINIMUM 2 STAGE COMPRESSOR CONTROLS).
12. PROVIDE (SUPPLY & OUTDOOR) AIRFLOW MEASURING STATIONS.
13. RTU SERVES MULTIPLE ZONE VAV TERMINAL UNITS WITH HW REHEAT FOR EACH ZONE. PROVIDE VFD ON SUPPLY FAN, WITH A CONSTANT DISCHARGE AIR TEMPERATURE AND VARYING FLOW TO VAV BOXES.
14. RTU IS A SINGLE-ZONE VAV UNIT WITH VFD ON SUPPLY FAN WITH A CONSTANT DISCHARGE AIR TEMPERATURE AND VARYING AIRFLOW.
15. PROVIDE RTU-A3'S THERMOSTAT WITH WIRE COVER GUARD.

HYDRONIC PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	GPM	HEAD (FT)	IMP. SIZE IN.	FLUID	VFD	STARTER BY MC	STARTER BY EC	MOTOR DATA BHP	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA VOLT	MOTOR DATA PH	MOTOR DATA HZ	PUMP SIZE SUCTION	PUMP SIZE DISCHARGE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NOTES
BP-1	318 BOILER ROOM	BOILER B-1	INLINE	200	30	5.5"	WATER	YES	X	-	2.31	3	1750	480	3	60	4"	4"	BELL & GOSSETT	SERIES E-80 : 4x4x7B	1, 2
BP-2	318 BOILER ROOM	BOILER B-2 2	INLINE	200	30	5.5"	WATER	YES	X	-	2.31	3	1750	480	3	60	4"	4"	BELL & GOSSETT	SERIES E-80 : 4x4X7B	1, 2
HWP-1	318 BOILER ROOM	PRIMARY HOT WATER BUILDING PUPMS	END-SUCTION	400	85	10"	WATER	YES	X	-	11.3	15	1750	480	3	60	4"	3"	BELL & GOSSETT	SERIES e-1510 3EB	1, 3
HWP-2	318 BOILER ROOM	PRIMARY HOT WATER BUILDING PUPMS	END-SUCTION	400	85	10" 2	WATER	YES	X	-	11.3	15 2	1750	480	3	60	4" 2	3" 2	BELL & GOSSETT	SERIES e-1510 3EB 2	1, 3

REMARKS

1. PROVIDE PUMPS WITH DISCONNECT SWITCH AND VARIABLE FREQUENCY DRIVES.
2. INTERFACE (SECONDARY) BOILER PUMP WITH RESPECTIVE BOILER AND ASSOCIATED 2-WAY ISOLATION VALVE
3. PRIMARY PUMPS (HWP-1 & HWP-2) SHALL OPERATE IN A LED LAG CONFIGURATION WITH ONE OF TWO PUMPS AS 100 % STAND-BY. 2

DIFFUSER - REGISTER - GRILLE SCHEDULE

TAG	SERVICE	TYPE	SIZE	LENGTH/ FACE AREA	# OF SLOTS/ SLOT WIDTH	DAMPER	MATERIAL/ FINISH	MANUFACTURER AND MODEL	REMARKS
S1	SUPPLY	SQUARE PLAQUE	SEE NOTE	2' x 2'	-	Y	STEEL / WHITE	TITUS : OMNI	1-4
S2	SUPPLY	LINEAR SLOT CEILING DIFFUSER	48"	4 ' LONG	2 / 1"	Y	STEEL / WHITE	TITUS: TBD-30	1-4, 6
S3	SUPPLY	DOUBLE DEFLECTION GRILLE	SEE PLANS	VARIES - SEE PLANS	-	Y	STEEL / WHITE	TITUS : S300FL	1, 2
S4	SUPPLY	DOUBLE DEFLECTION GRILLE	SEE PLANS	VARIES - SEE PLANS	-	Y	STEEL / WHITE	TITUS : 272RL	1-4
T1	TRANSFER	SIDEWALL GRILLE	SEE PLANS	VARIES - SEE PLANS		-	STEEL / WHITE	TITUS : 350RL	1-3, 5
R1	RETURN	SQUARE PLAQUE	SEE PLANS	2' x 2'	-	Y	STEEL / WHITE	TITUS : OMNI	1-3, 5
R2	RETURN	SIDEWALL GRILLE	SEE PLANS	VARIES - SEE PLANS	-	Y	STEEL / WHITE	TITUS : 272RL	1-3, 5
R3	RETURN	LINEAR SLOT CEILING DIFFUSER	SEE PLANS	VARIES - SEE PLANS	2 / 1"	Y	STEEL / WHITE	TITUS: TBD-30	1-3, 6
E1	EXHAUST	SQUARE PLAQUE	SEE NOTE	2' x 2'	-	Y	STEEL / WHITE	TITUS : OMNI	1-3, 5
E2	EXHAUST	SIDEWALL GRILLE	SEE PLANS	VARIES - SEE PLANS	-	Y	STEEL / WHITE	TITUS : 272RL	1-3
E3	EXHAUST	SQUARE PLAQUE	SEE PLANS	2' x 1'	-	Y	STEEL / WHITE	TITUS : OMNI	1-3, 5

REMARKS:

1. REFER TO THE MECHANICAL PLANS FOR CAPACITIES AND SIZES, UNLESS OTHERWISE NOTED IN THE SCHEDULES.
2. COORDINATE REGISTER, GRILLE, AND DIFFUSER FINAL FINISH WITH ARCHITECT.
3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF EACH CEILING MOUNTED AIR DEVICE AND FOR TYPE OF CEILING GRID.
4. SUPPLY DIFFUSER NECK SIZES AS SHOWN BELOW BASED ON CFM'S NOTED ON PLANS:

SUPPLY DIFFUSER NECK SIZES

CFM RANGE	NECK SIZE
0-160	6"
161-250	8"
251-400	10"
401-500	12"
501-700	14"

12x12 FACE SIZE

CFM RANGE	NECK SIZE
0-100	6"
101-200	8"

5. RETURN/EXHAUST DIFFUSER NECK SIZES AS SHOWN BELOW BASED ON CFM'S NOTED ON PLANS. PROVIDE 24x24 METAL PAN MODULE FOR LAY-IN CELING:

22x22 FACE SIZE

CFM RANGE	NECK SIZE
50-250	10x10 OR 8" dia.
251-500	15x15 OR 12" dia.
501-1500	22x22

12x12 FACE SIZE

CFM RANGE	NECK SIZE
0-100	6"
101-250	8"

6. PROVIDE WITH HARD CEILING MOUNTING CLIPS AND INSULATED PLENUM.

FAN SCHEDULE

TAG	LOCATION	SERVICE	AIRFLOW (CFM)	E.S.P. IN WC	FAN DATA FAN TYPE	FAN DATA RPM	FAN DATA DRIVE	MOTOR DATA BHP	MOTOR DATA HP	MOTOR DATA VOLT	MOTOR DATA PH	MOTOR DATA HZ	MOTOR STARTER BY M.C.	MOTOR STARTER BY E.C.	WEIGHT (LBS)	MAUNFACTURER / MODEL	REMARKS
EF-1	AREA A ROOF	TOILET EXHAUST	460	.4	CENTRIFUGAL	1033	BELT	0.08	1/4	120	1	60	X		75	GREENHECK - GB-101-4	1 THRU 7
EF-2	AREA B ROOF	TOILET EXHAUST	700	.4	CENTRIFUGAL	1166	BELT	0.11	1/4	120	1	60	X		75	GREENHECK - GB-101-4	1 THRU 7
EF-3	AREA B ROOF	TOILET EXHAUST	1150	.5	CENTRIFUGAL	974	BELT	0.21	1/4	120	1	60	X		90	GREENHECK - GB-141-4	1 THRU 7
EF-4	AREA B ROOF	TOILET EXHAUST	200	.3	CENTRIFUGAL	876	BELT	0.04	1/6	120	1	60	X		65	GREENHECK - GB-081-6	1 THRU 7
EF-5	AREA B ROOF	TOILET EXHAUST	200	.3	CENTRIFUGAL	876	BELT	0.04	1/6	120	1	60	X		65	GREENHECK - GB-081-6	1 THRU 7
EF-6	AREA D ROOF	TOILET EXHAUST	925	.4	CENTRIFUGAL	846	BELT	0.14	1/4	120	1	60	X		90	GREENHECK - GB-141-4	1 THRU 7
EF-7	AREA A ROOF	TOILET EXHAUST	700	.4	CENTRIFUGAL	1166	BELT	0.11	1/4	120	1	60	X		75	GREENHECK - GB-101-4	1 THRU 7
EF-8	AREA B ROOF	KILN HOOD	300	.3	CENTRIFUGAL	884	BELT	0.05	1/4	120	1	60	X		75	GREENHECK - GB-101-4	1 THRU 6, & 8
EF-9	AREA B ROOF	ELECTRICAL ROOM	700	.4	CENTRIFUGAL	1273	BELT	0.13	1/4	120	1	60	X		60	GREENHECK - GB-091-4	1 THRU 7
EF-10	AREA B ROOF	RECEIVING AREA	650	.4	CENTRIFUGAL	1181	BELT	0.11	1/4	120	1	60	X		60	GREENHECK - GB-091-4	1 THRU 7
KEF-1	AREA B ROOF	KITCHEN EXHAUST HOOD	2100	1.0	CENTRIFUGAL	1589	BELT	0.75	1.00	208	3	60	X		140	GREENHECK - CUBE-141-10	1 THRU 5, & 8

REMARKS :

1. PROVIDE FAN WITH DISCONNECT SWITCH AND BIDSCREEN
2. PROVIDE FAN WITH 18" TALL ROOFCURB
3. PROVIDE WITH MOTOR STARTER.
4. PROVIDE FAN WITH EXTENDED LUBE LINES.
5. PROVIDE FAN WITH HIGH EFFICIENCY MOTOR
6. PROVIDE FAN WITH (24VAC) MOTORIZED DAMPER AND DAMPER TRAY.
7. INTERLOCK FAN WITH BAS AND OPERATE ON SCHOOL OCCUPANCY SCHEDULE.
8. INTERLOCK FAN WITH RESPECTIVE HOOD'S ON/OFF CONTROLS.

COMPUTER ROOM SUPLEMENTAL COOLING UNIT SCHEDULE

TAG	AREA SERVED	FAN DATA AIRFLOW (CFM)	FAN DATA MOTOR SIZE (HP)	FAN DATA EXTERNAL STATIC PRESS. (IN. W.G.)	COOLING CAPACITY NOMINAL CAPACITY (TONS)	COOLING TOTAL COOLING (MBH)	REFRIGERANT TYPE -	REFRIGERANT CHARGE lbs - oz.	# CIRC.	AMB TEMP (F)	ENTERING AIR DB (F)	ENTERING AIR WB (F)	ENTERING AIR RH (%)	LEAVING AIR DB (F)	LEAVING AIR WB (F)	ELECTRICAL DATA VOLT	PH	HZ	MCA	MOCP	DISCONNECT SWITCH	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
AC-1	IDF-CLOSET	425	0.05	-	1	12	R410A	-	-	-	95	71	50	55	54	208	1	60	1	15	Y	20	MITSUBISHI	PKA-A12HAL	1, 2, 4, 7, 9
CU-1	AC-1	-	3	-	1	12	R410A	3	1	115	-	-	-	-	-	208	1	60	13	15	Y	97	MITSUBISHI	PUYA12NHA3	1, 5, 6, 8, 9
AC-2	IDF-CLOSET	425	0.05	-	1	12	R410A	-	-	-	95	71	50	55	54	208	1	60	1	15	Y	20	MITSUBISHI	PKA-A12HAL	1, 2, 4, 7, 9
CU-2	AC-2	-	3	-	1	12	R410A	3	1	115	-	-	-	-	-	208	1	60	13	15	Y	97	MITSUBISHI	PUYA12NHA3	1, 5, 6, 8, 9
AC-3	IDF-CLOSET	425	0.05	-	1	12	R410A	-	-	-	95	71	50	55	54	208	1	60	1	15	Y	20	MITSUBISHI	PKA-A12HAL	1, 2, 4, 7, 9
CU-3	AC-3	-	3	-	1	12	R410A	3	1	115	-	-	-	-	-	208	1	60	13	15	Y	97	MITSUBISHI	PUYA12NHA3	1, 5, 6, 8, 9

2

REMARKS:

1. PROVICE WITH LOCAL DISCONNECT SWITCH AND MOTOR STARTER.
2. PROVIDE WITH LOCAL ZONE THERMOSTAT AND INTERFACE AC UNIT OPERATION WITH BAS.
3. 2
4. PROVIDE UNIT WITH DUAL FLOAT CONDENSATE PUMP.
5. MOUNT CONDENSING UNIT LEVEL ON ROOF WITH EQUIPMENT SUPPORT RAILS.
6. PROVIDE UNIT WITH NEMA 3R DISCONNET SWITCH.
7. INTERFACE CONDENSING UNIT WITH BAS. BAS SHALL RECEIVE ALL UNIT'S ALARMS, UNIT OPERATING STATUS, AND SPACE TEMPERATURE.
8. PROVIDE CONDENSING UNIT WITH LOW AMBIENT CONTROLS
9. PROVIDE UNIT WITH ALL MANUFACTUER RECOMMENDED TRIM, VALVES, AND PIPING EQUIPMENT.

RELIEF HOOD SCHEDULE

TAG	LOCATION	NATURAL VENT. CFM	MAX.S.P (IN. WG)	THROAT AREA (SQ. FT)	THROAT SIZE	THROAT VELOCITY	DAMPER SIZE	MANUFACTURER AND MODEL NO.	REMARKS
RH-1	AREA A ROOF - STORM SHELTER	6000	0.1	12.83	42"x44"	468	42x44	GREENHECK FGR	1, 2, 3
RH-2	AREA A ROOF - STORM SHELTER	6000	0.1	12.83	42"x44"	468	42x44	GREENHECK FGR	1, 2, 3

REMARKS:

1. PROVIDE RELIEF HOOD WITH SPRING LOADED MOTORIZED DAMPER AND BATTERY BACK-UP POWER, ON A LOSS OF POWER DAMPER SHALL FAIL OPEN.
2. PROVIDE RELIEF HOOD WITH 18" TALL ROOF CURB.
3. PROVIDE RELIEF HOOD WITH HINGED ACCESS FROM ROOF AND BIRD SCREEN.

CABINET/ UNIT HEATER SCHEDULE (HYDRONIC)

TAG	LOCATION	UNIT SIZE	CABINET MOUNTING	WATER HEATING COIL DATA MBH	GPM	WPD	EAT	LAT	EWT	LWT	FAN/ MOTOR DATA CFM	QTY	HP EACH	RPM	VOLT	PH	HZ	MANUFACTURER AND MODEL	REMARKS
CH-1	-	10	WALL SEMI-RECESSED	49.2	3.5	0.9	60	120	180	150	845	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-10	1, 2, 3
CH-2	-	10	WALL SEMI-RECESSED	49.2	3.5	0.9	60	120	180	150	845	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-10	1, 2, 3
CH-3	-	08	WALL SEMI-RECESSED	44.2	3.5	0.9	60	126	180	150	685	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-08	1, 2, 3
CH-4	-	10	WALL SEMI-RECESSED	49.2	3.5	0.9	60	120	180	150	845	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-10	1, 2, 3
CH-5	-	10	WALL SEMI-RECESSED	49.2	3.5	0.9	60	120	180	150	845	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-10	1, 2, 3
CH-6	-	08	WALL SEMI-RECESSED	44.2	3.5	0.9	60	126	180	150	685	2	1/10 - 1/15	875	120	1	60	Vulcan : RC-1200-08	1, 2, 3

REMARKS:

1. PROVIDE CABINET HEAERS WITH DISCONNECT SWITCH AND FAN STARTER.
2. COORDINATE CABINET UNIT HEATER FINISH WITH ARCHITECT.
3. COORDINATE WITH CONTROLS CONTRACTOR FOR PROCUREMENT AND INSTALLATION OF UNIT'S WALL MOUNTED THERMOSTAT AND 3-WAY C VALVE. 2

BOILER SCHEDULE

TAG	MIN/MAX NATURAL GAS INPUT PRESSURE (IN W.C.)	CAPACITY INPUT MBH	CAPACITY OUTPUT MBH	EWT /LWT %%DF/%%DF	FLUD	FLOW RATE (GPM)	MAX OPERATING TEMP (%%DF)	MAX WORKING PRESSURE (PSI)	RELIEF VALVE SETTING	ELECTRICAL DATA FLA AMPS	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	ELECTRICAL DATA FLA	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL LOCHNIVAR	REMARKS
B-1	3.5" WC / 14" WC	3000	2760	140 / 170	WATER	184	170	160	50 PSI	-	120	1	60	4126	FBN3000	1 - 4
B-2	3.5" WC / 14" WC	3000	2760	140 / 170	WATER	184	170	160	50 PSI	-	120	1	60	4126	FBN3000	1 - 4

REMARKS:

1. PROVIDE BOILER PLANT WITH BOILER SYSTEM CONTROLS FOR MASTER/MEMBER NETWORK CONTROLS (LEAD/LAG AND RUN TIME CONTROL).
2. PROVIDE WITH BAS/LOCAL SWITCH AND MANUAL CAPACITY CONTROL
3. PROVIDE NEUTRALIZING PAN FOR BOILER'S CONDENSATE DRAIN AND FLUE VENT'S P-TRAP DRAIN.
4. PROVIDE BOILER BURNER WITH 25:1 TURNDOWN.
5. PROVIDE WITH CONTROL PANEL AND BAS COMMUNICATION INTERFACE (MODBUS, LONWORKS, BACNET, ETC)
6. BOILER FLUE LAYOUT MUST BE REVIEWED AND APPROVED BY THE BOILER MANUFACTURER.

RADIANT PANEL SCHEDULE (HYDRONIC)

TAG	PANEL LENGTH	PANEL DIMENSIONS WIDTH	GPM	WATER VELOCITY (FPS)	W.P.D. PER 100 FT. (FT W.C.)	EWT (%%DF)	LWT (%%DF)	BTUH PER L.F.	MANUFACTURER AND MODEL	REMARKS
RHP-1	SEE PLANS	24"	SEE PLANS	1.0	0.91	155	185	389	AIRTEX : HEF-2	1, 2, 3, 4

REMARKS:

1. PROVIDE WITH R-13 BATT INSULATION FOR TOP OF PANELS.
2. PROVIDE PANEL WITH CROSS CHANNEL BRACE, SLIP EDGE CLIPS, RETURN BENDS, END CLIPS, AND INTERCONNECT FITTINGS.
3. COORIDINATE PANEL SUPPORTS WITH REFLECTIVE CEILING.
4. WHERE REQUIRED PROVIDE WALL ANGEL MOLDING AND WALL CHANNEL MOLDING.

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No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017

Drawing Title:

SCHEDULES

Project No.: 005005.00 Checked by: JM

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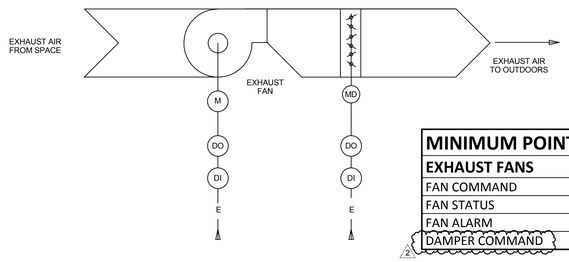


MINIMUM POINTS LIST
EXHAUST FANS
FAN COMMAND
FAN STATUS
FAN ALARM
DAMPER COMMAND

GENERAL SEQUENCES FOR ALL EXHAUST FANS

1. WHEN FAN IS NOT ENERGIZED, MOTORIZED DAMPER BETWEEN FAN AND EXHAUST LOUVER TO BE CLOSED. UPON CALL FOR OPERATION, MOTORIZED DAMPER TO OPEN. UPON PROVING OF DAMPER OPENING, FAN TO ENERGIZE.
2. ON FAN SHUTDOWN, FAN IS TO TURN OFF, THEN MOTORIZED DAMPER TO CLOSE.

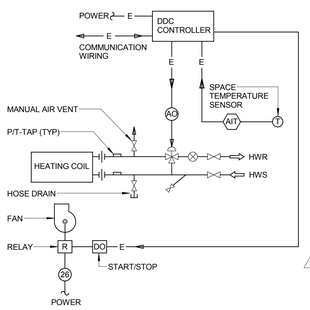
EF-1 THRU EF-7 AND EF-10 (TOILET ROOMS, JAN'S CLOSET AND RECEIVING AREA)
1. DURING THE OCCUPIED PERIOD, THE FAN TO TURN ON.
2. IF ROOM THERMOSTAT IS OVERRIDDEN TO GO INTO OCCUPIED MODE, FAN IS TO TURN ON.

EF-8 (KILN HOOD)
1. WIRE FAN OPERATION TO WALL MOUNTED ON/OFF SWITCH. WHEN SWITCH IS TURNED ON, FAN TO ENERGIZE AND MOTORIZED DAMPER TO OPEN. WHEN WALL SWITCH IS TURNED OFF FAN, DAMPER TO CLOSE AFTER FAN POWER OFF IS PROVEN.

KEF-1 (KITCHEN HOOD)
1. WIRE FAN OPERATION TO RESPECTIVE HOOD'S MOUNTED CONTROLS. WHEN HOOD'S SWITCH IS TURNED ON, FAN SHALL BE ENERGIZE . WHEN HOOD SWITCH IS TURNED OFF, FAN SHALL TURN OFF.

EF-9 (ELECTRIC ROOM)
1. WIRE FAN OPERATION TO WALL MOUNTED REVERSE ACTING THERMOSTAT. WHEN SPACE TEMPERATURE WITHIN ELECTRIC ROOM EXCEEDS THAT OF SET POINT ON REVERSE ACTING THERMOSTAT EXHAUST FAN SHALL TURNED ON, FAN TO ENERGIZE AND MOTORIZED DAMPER TO OPEN. WHEN SPACE TEMPERATURE FALLS BELOW SET POINT, EXHAUST FAN SHALL TURN OFF, DAMPER TO CLOSE AFTER FAN POWER OFF IS PROVEN.

4 EXHAUST FAN CONTROL DIAGRAM
NTS

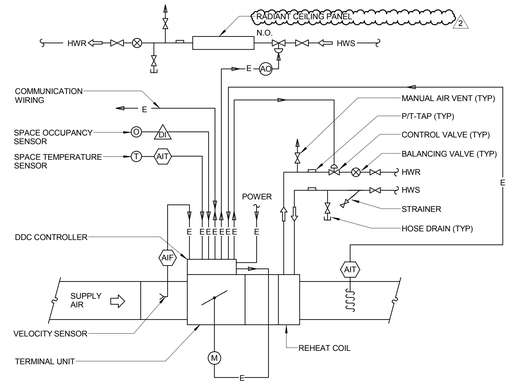


MINIMUM POINTS LIST
CABINET UNIT HEATER (CUH)
ZONE TEMPERATURE
FAN STATUS
DISCHARGE AIR TEMPERATURE
OUTSIDE AIR TEMPERATURE
OCCUPIED COMMAND
FAN COMMAND
HEATING COMMAND
OCCUPIED HEATING SET POINT
UNOCCUPIED HEATING SET POINT
HEATING VALVE POSITION

A. CABINET HEATERS:
1. SPACE SENSOR SHALL THROUGH BAS SYSTEM CYCLE FAN MOTOR AND OPEN/CLOSE HOT WATER CONTROL VALVE TO MAINTAIN CONSTANT SPACE TEMPERATURE OF 65 DEGREE F (ADJ.)
2. SUPPLY ALL CABINET HEATERS WITH 3-WAY CONTROL VALVES.

B. UNIT HEATERS:
1. SPACE THERMOSTAT SHALL THROUGH BAS CYCLE FAN MOTOR AND OPEN/CLOSE CONTROL VALVE TO MAINTAIN 55 DEGREE F (ADJ.) MINIMUM SPACE TEMPERATURE.
2. ENERGIZE FAN WHEN HEATING IS REQUIRED.
3. INSTALL FAN SWITCH ADJACENT TO TEMPERATURE SENSOR WHICH SHALL OVERRIDE FAN CYCLING TO OPERATE FAN CONTINUOUSLY.
4. SUPPLY ALL UNIT HEATERS WITH 3-WAY CONTROL VALVES.

3 CABINET HEATER / UNIT HEATER CONTROL DIAGRAM
NTS



MINIMUM POINTS LIST
VARIABLE AIR VOLUME BOX (VAV)
ZONE TEMPERATURE
DISCHARGE AIR TEMPERATURE
OCCUPIED COMMAND
DAMPER COMMAND
HEATING COMMAND
OCCUPANCY SENSOR
OCCUPIED HEATING SET POINT
OCCUPIED COOLING SET POINT
UNOCCUPIED HEATING SET POINT
UNOCCUPIED COOLING SET POINT
FLOW
FLOW SET POINT

SEQUENCE OF OPERATION

1. "OCCUPIED" AND "UNOCCUPIED" MODE IS TO PROGRAMMED THROUGH THE BUILDING MANAGMENT SYSTEM.
2. SUPPLY AIR IS TO BE AVAILABLE IN OCCUPIED MODE AND UNAVAILABLE IN UNOCCUPIED MODE (UNLESS UNOCCUPIED MODE HAS BEEN OVERRIDDEN TO RECIRCULATION MODE DUE TO SPACE TEMPERATURE RESET OR WARM-UP PERIOD).
3. THROUGH THE BUILDING MANAGEMENT SYSTEM OPERATORS WORKSTATION IT SHALL BE POSSIBLE TO READ AND ADJUST SUPPLY AIRFLOW AND SPACE TEMPERATURE. DISCHARGE TEMPERATURE SHALL BE READOUT ONLY.
4. OCCUPIED CYCLE: VAV AIRFLOW WILL PROVIDE VENTILATION AIR TO SPACE AT DESIGN AIRFLOWS WHEN NO HEATING OR COOLING IS REQUESTED BY THERMOSTAT.
5. FOR VAV BOXES SERVING SPACES WITH SUPPLEMENTAL RADIANT HEATING, FOLLOW THE BELOW SEQUENCE:
   - 5.1. ON A CALL FOR HEATING, THE PERIMETER FINNED TUBE RADIATION CONTROL VALVE WILL OPEN, AND THE VAV AIRFLOW DAMPER WILL GO TO ITS DESIGN MINIMUM AIRFLOW SETTING.
   - 5.2. IF THE SPACE REQUIRES ADDITIONAL HEATING, THE CONTROL VALVE ON THE HOT WATER COILS ON THE VAV BOX WILL OPEN TO MAINTAIN A MAXIMUM OF 90 DEGREES F (ADJ.)
   - 5.3. ON ADDITIONAL HEATING DEMAND, THE AIRFLOW DAMPER WILL OPEN TO THE HEATING MAXIMUM AIRFLOW SETTING. MAXIMUM DISCHARGE AIR TEMPERATURE SHALL BE 90 DEGREES F (ADJ.)
   - 5.4. UPON MEETING HEATING DEMAND, AND THE VAV AIRFLOW DAMPER WILL RESTRICT TO AIRFLOW MINIMUM. IF HEATING DEMAND IS STILL REDUCED, THE CONTROL VALVE ON THE VAV HEATING COIL WILL MODULATE DOWN TO CLOSED. IF THE ROOM CONTINUES TO HEAT UP, THE CONTROL VALVE ON THE RADIANT PANELS WILL MODULATE DOWN TO CLOSED, AND THEN THE VAV AIRFLOW DAMPER WILL OPEN TO MAXIMUM AIRFLOW RATE.
6. FOR VAV BOXES SERVING SPACES WITH NO SUPPLEMENTAL RADIANT HEATING, FOLLOW THE BELOW SEQUENCE:
   - 6.1. ON A CALL FOR HEATING, THE VAV AIRFLOW DAMPER WILL GO TO ITS DESIGN MINIMUM AIRFLOW SETTING.
   - 6.2. IF THE SPACE REQUIRES ADDITIONAL HEATING, THE CONTROL VALVE ON THE HOT WATER COILS ON THE VAV BOX WILL OPEN TO MAINTAIN A MAXIMUM OF 90 DEGREES F (ADJ.)
   - 6.3. ON ADDITIONAL HEATING DEMAND, THE AIRFLOW DAMPER WILL OPEN TO THE HEATING MAXIMUM AIRFLOW SETTING. MAXIMUM DISCHARGE AIR TEMPERATURE SHALL BE 90 DEGREES F (ADJ.)
   - 6.4. UPON MEETING HEATING DEMAND, AND THE VAV AIRFLOW DAMPER WILL RESTRICT TO AIRFLOW MINIMUM. IF HEATING DEMAND IS STILL REDUCED, THE CONTROL VALVE ON THE VAV HEATING COIL WILL MODULATE DOWN TO CLOSED. IF THE ROOM CONTINUES TO HEAT UP, THE VAV AIRFLOW DAMPER WILL OPEN TO MAXIMUM AIRFLOW RATE.
7. DURING BUILDING WARM-UP, THE CONTROL VALVES FOR BOTH THE FINNED TUBE RADIATION AND VAV HYDRONIC COIL WILL OPEN SIMULTANEOUSLY. SUPPLY AIR VOLUME WILL INCREASE TO ITS SCHEDULED HEATING MAXIMUM. ONCE BUILDING ENTERS REGULAR OCCUPIED MODE, THE BOX WILL BEGIN OCCUPIED SEQUENCE IN STEP 4.
8. DURING A CALL FOR COOLING, BOTH THE CONTROL VALVE FOR THE HYDRONIC COIL IN THE VAV TERMINAL BOX AND THE CONTROL VALVE FOR THE PERIMETER RADIATION WILL BE CLOSED. SUPPLY AIR IS INCREASED TO THE SCHEDULED MAXIMUM. ONCE ROOM TEMPERATURE IS ACHEIVED, AIRFLOW RATE IS REDUCED TO BOX MINIMUM.
9. UNOCCUIPED CYCLE: IF SUPPLY AIRFLOW IS UNAVAILABLE, THE AIR VOLUME DAMPER IS TO CLOSE AND THE HYDRONIC HEATING COIL IS LOCKED OUT DUE TO A LACK OF AIRFLOW.
10. IF THE HEATING WATER SYSTEM IS NOT AVAILABLE AND THE SPACES ARE BELOW TEMPERATURE SETPOINT CALLING FOR HEATING THE VAV-BOXES SHALL OPERATE AT MINIMUM AIRFLOW TO PREVENT OVERCOOLING OF THE SPACES.
11. CARBON DIOXIDE SENSOR CONTROL: FOR SPACES WITH A CARBON DIOXIDE SENSOR SHALL PROVIDE BAS SYSTEM WITH ROOM CARBON DIOXIDE LEVEL SIGNAL. INCREASE MINIMUM PRIMARY AIR SUPPLIED BY TERMINAL UNIT TO MAINTAIN CARBON DIOXIDE LEVEL BELOW 1000 PPM (ADJ).
12. FOR VAV-A209 SERVING KITHCHEN HOOD'S MAKE-UP AIR, INTERFACE VAV WITH KITHCHEN HOOD'S CONTROLS: WHEN KITCHEN HOOD IS TURNED ON VAV BOX SHALL OPEN TO SCHEDULED MAX CFM VALUE, WHEN KITCHEN HOOD IS TURNED OFF VAV BOX SHALL FULLY CLOSE TO (0 CFM). NO REHEAT IS REQURIED FOR FOR VAV-A209.

2 VARIABLE VOLUME TERMINAL UNIT WITH REHEAT
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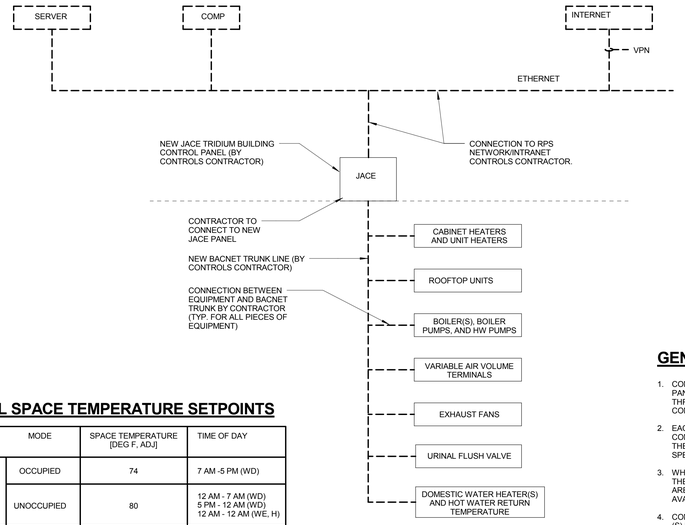
CONTROLS NETWORK / BACNET TRUNK RISER SCHEMATIC



1 CONTROLS RISER

INITIAL SPACE TEMPERATURE SETPOINTS

SEASON	MODE	SPACE TEMPERATURE [DEG F, ADJ]	TIME OF DAY
COOLING	OCCUPIED	74	7 AM -5 PM (WD)
	UNOCCUPIED	80	12 AM - 7 AM (WD) 5 PM - 12 AM (WD) 12 AM - 12 AM (WE, H)
HEATING	OCCUPIED	70	7 AM -5 PM (WD)
	UNOCCUPIED	65	12 AM - 7 AM (WD) 5 PM - 12 AM (WD) 12 AM - 12 AM (WE, H)

ROCKFORD SCHOOL DISTRICT TEMPERATURE CONTROLS WIRING STANDARD

1. CABLE SHALL BE 18 AWG WIRE, PLENUM RATED, SHIELDED
2. COLOR CODING TABLE (VERIFY FINAL COLOR CODING WITH SCHOOL DISTRICT AND SCHOOL DISTRICT'S CONTROLS MAINTENANCE CONTRACTOR PRIOR TO PURCHASE):

N2 BUS	BLUE
ANALOG INPUT CABLE	YELLOW
ANALOG OUTPUT CABLE	TAN
BINARY INPUT CABLE	ORANGE
BINARY OUTPUT CABLE	VIOLET
N1 BUS	PURPLE
24 VAC CABLE	GRAY
SPARE	WHITE
ETHERNET CAT-5	PURPLE
N2 E	PINK
ON CONTROLS DRAWINGS, DI/DO SYMBOLS REFER TO DIGITAL SIGNALS, WHICH ARE BINARY INPUT / OUTPUT SYMBOLS	

GENERAL CONTROLS SYSTEM REQUIREMENTS

1. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL NEW JACE-TRIDIUM BUILDING CONTROL PANEL IN BOILER ROOM (SEE PLANS). CONTRACTOR TO INSTALL NEW BACNET TRUNK LINE THROUGH SCHOOL, AND CONNECT TO NEW JACE PANEL AND EACH NEW FIELD LEVEL CONTROLLER.
2. EACH NEW PIECE OF EQUIPMENT ON PROJECT IS TO BE PROVIDED WITH A BACNET COMPATIBLE APPLICATION SPECIFIC (SOMETIMES TERMED FIELD-LEVEL) CONTROLLER BY THE MANUFACTURER, AND CONTROLS CONTRACTOR IS TO CONNECT NEW APPLICATION SPECIFIC CONTROLLER TO NEW BACNET TRUNK.
3. WHERE POSSIBLE, PROVIDE SPACES WITH STAINLESS STEEL FLAT-PLATE WALL THERMOSTATS INSTEAD OF THERMOSTATS WITH DISPLAYS. ALL TEMPERATURE CONTROLS ARE TO BE DONE THROUGH BAS. IF FLAT-PLATE THERMOSTAT CONTROLLERS ARE NOT AVAILABLE, PROVIDE LOCKABLE COVERS FOR ALL TEMPERATURE SENSORS.
4. CONTROLS CONTRACTOR TO PROVIDE OWNER WITH A COPY OF ALL CONTROLS LANGUAGE (S) USED ON PROJECT SO THAT DISTRICT MAY MANAGE ITS OWN PROGRAMMING ONCE WARRANTY PERIOD HAS ELAPSED.
5. WHEN POSSIBLE, ALL DATA CONTROL POINTS ARE TO BE NVI CLASSIFICATION ALLOWING FOR UNLIMITED READ/WRITE CAPABILITIES.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017

Drawing Title:

FLOW AND CONTROL DIAGRAMS

Project No.: 005005.00 Checked by: JM

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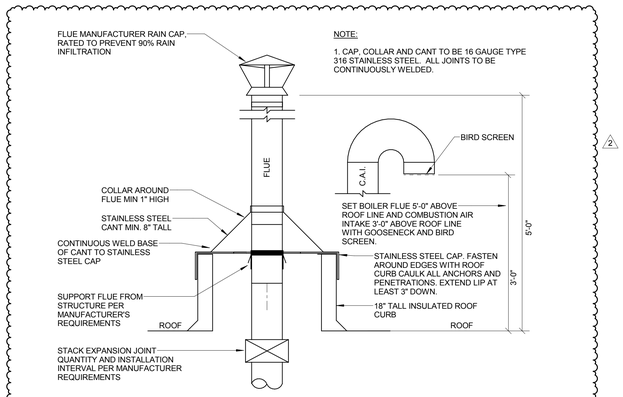

12 BOILER STACK AND COMBUSTION AIR INTAKE AT ROOF DETAIL
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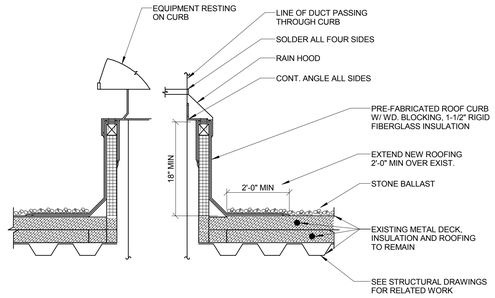
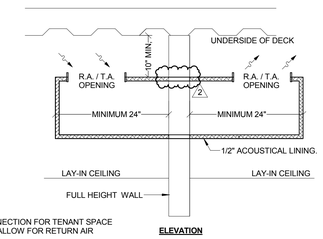


7 EXHAUST ROOF CURB DETAIL
NTS

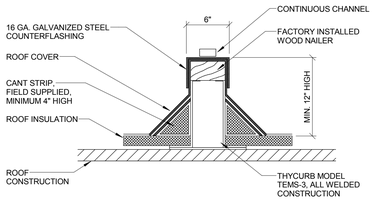
TRANSFER DUCT SCHEDULE	
CFM RANGE	DUCT SIZE
0-210	14"x6"
211-350	24"x6" OR 12"x12"
351-475	24"x8" OR 16"x12"
476-600	24"x10" OR 20"x12"
601-750	24"x12"
751-850	24"x14"
851-950	24"x16"
951-1250	30"x16"

NOTES:

1. INSTALL TRANSFER AIR DUCT CONNECTION FOR TENANT SPACE WHERE WALLS ARE FULL HEIGHT TO ALLOW FOR RETURN AIR PATH TO ADJACENT CEILING PLENUM.



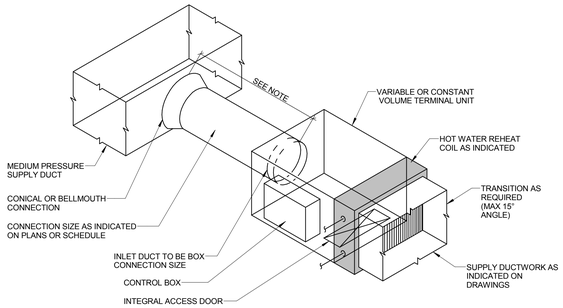
4 "U" SHAPE TRANSFER DUCT DETAIL



NOTES:

1. CURB SHALL BE TAPERED TYPE AND MATCH THE PITCH OF THE ROOF.
2. FASTEN AND SECURE DUCTS/EQUIPMENT TO CHANNEL.
3. PROVIDE ALL CUTTING, INSTALLATION AND PATCHING WORK OF THE EXISTING ROOF SYSTEMS.

11 EQUIPMENT SUPPORT DETAIL



NOTES:

1. IF TOTAL LENGTH FROM MAIN TO INLET OF THE TERMINAL BOX EXCEEDS 5'-0" TRANSITION TO TWO ROUND DUCT SIZES GREATER THAN THE INLET SIZE.

2. MAINTAIN PROPER SERVICE CLEARANCE IN FRONT OF CONTROL PANEL, ACTUATOR AND FLEXIBLE DUCT AT INLET.

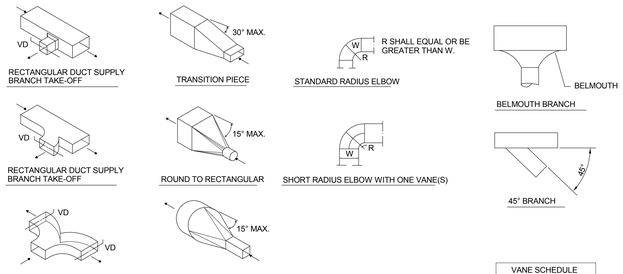
3. COORDINATE WITH LANDLORD THE INSTALLATION LOCATION OF EACH TERMINAL UNIT TO PROVIDE PROPER ACCESS AND SERVICE CLEARANCES WITH THE CEILING GRIDS AND CEILING MOUNTED ITEMS.

4. SUPPORT TERMINAL UNIT FROM BUILDING INFRASTRUCTURE.

5. 5'-0" MINIMUM DISTANCE BEFORE FIRST BRANCH TAKE-OFF.

6. INSULATED FLEX DUCT AT INLET TO TERMINAL UNIT SHALL NOT HAVE MASTIC APPLIED TO CONNECTION AT THE UNIT.

6 TERMINAL UNIT W/HOT WATER REHEAT COIL
NTS

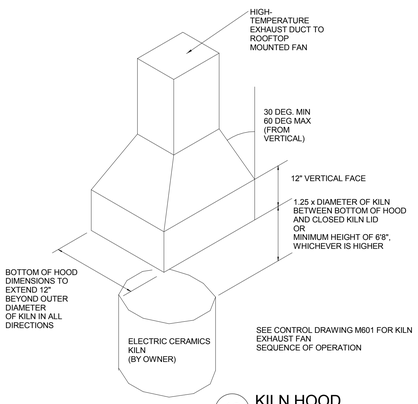


VANE SCHEDULE	
WIDTH	NO. OF VANES
< 12"	1
12"-24"	2
24"-36"	3
36"-60"	4
60"-84"	5
> 84"	6

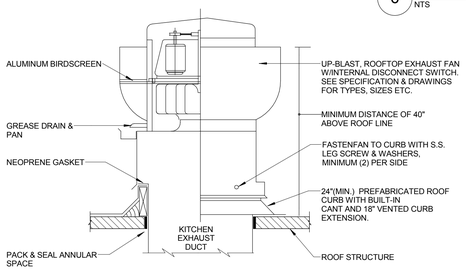
NOTES:

1. PROVIDE STANDARD RADIUS ELBOWS WHEN POSSIBLE - SHORT RADIUS WHERE REQUIRED.
2. ALL SHORT RADIUS ELBOWS AND 90° MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED & FASTENED AS RECOMMENDED BY SMACNA.
3. NO SQUARE OR RECTANGULAR HEEL ELBOWS SHALL BE ALLOWED.
4. NO SPIN-IN CONNECTIONS SHALL BE ALLOWED.
5. FOR RADIUS ELBOWS, IF R IS LESS THAN W, THEN FULL ARC TURNING VANE(S) SHALL BE PROVIDED, SEE THE VANE SCHEDULE. THE INSIDE BEND MAY BE SQUARE FOR W > 12", NO SQUARE HEELS PERMITTED.

3 TYPICAL DUCT DETAILS



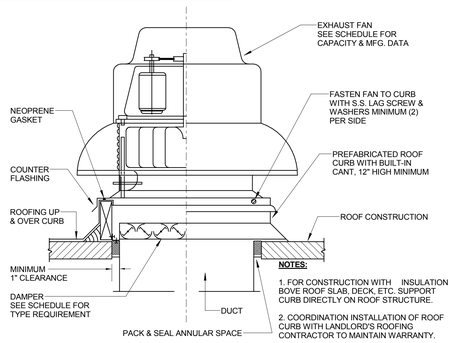
10 KILN HOOD



NOTES:

1. STANDARD DUCT VELOCITY SHALL BE 2000 FPM.
2. FOR CONSTRUCTION WITH INSULATION ABOVE ROOF SLAB, DECK ETC., SUPPORT CURBDIRECTLY ON ROOF STRUCTURE.
3. SIMILAR FOR UPBLAST ROOF EXHAUSTERS.

8 KITCHEN EXHAUST FAN DETAIL

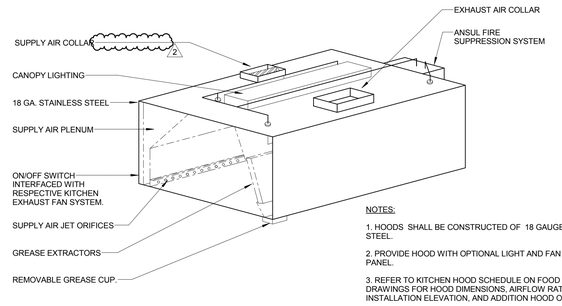


NOTES:

1. FOR CONSTRUCTION WITH INSULATION BOVE ROOF SLAB, DECK, ETC. SUPPORT CURB DIRECTLY ON ROOF STRUCTURE.

2. COORDINATION INSTALLATION OF ROOF CURB WITH LANDLORD'S ROOFING CONTRACTOR TO MAINTAIN WARRANTY.

5 ROOF MOUNTED EXHAUST FAN DETAIL
NTS



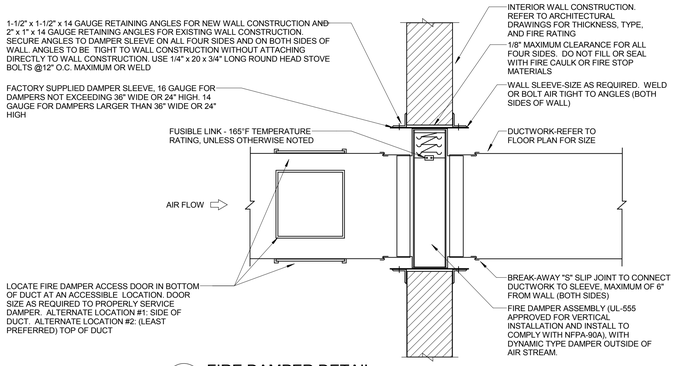
NOTES:

1. HOODS SHALL BE CONSTRUCTED OF 18 GAUGE STAINLESS STEEL.

2. PROVIDE HOOD WITH OPTIONAL LIGHT AND FAN CONTROL SWITCH PANEL.

3. REFER TO KITCHEN HOOD SCHEDULE ON FOOD SERVICE DRAWINGS FOR HOOD DIMENSIONS, AIRFLOW RATES, HOOD INSTALLATION ELEVATION, AND ADDITION HOOD OPTIONS.

2 KITCHEN HOOD DETAIL

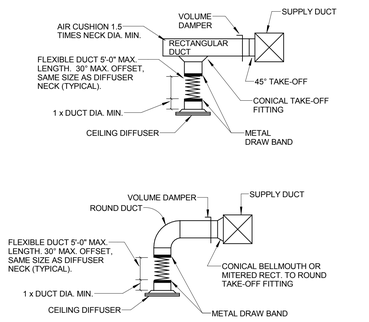


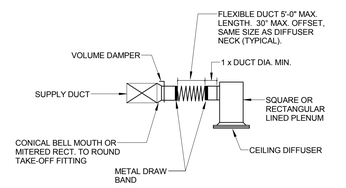
NOTES:

1. FOLLOW THIS DETAIL, UNLESS THE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS (AS TESTED AND APPROVED BY UL) OR THE PROJECT SPECIFICATION IS MORE STRINGENT.
2. LABEL THE ACCESS DOORS: "FIRE DAMPER ACCESS".
3. WHERE ACCESS DOORS ARE INSTALLED ON THE SIDE OF A DUCT, PROVIDE A LABEL OR SIGN AT THE BOTTOM OF THE DUCT WITH AN ARROW AND "FIRE/SMOKE DAMPER ACCESS DOOR" TEXT POINTING TO THE ACCESS DOOR.
4. WHERE ACCESS DOORS ARE INSTALLED ON THE TOP OF THE DUCT, PROVIDE A LABEL OR SIGN AT THE BOTTOM OF THE DUCT WITH "FIRE/SMOKE DAMPER ACCESS DOOR ON TOP OF DUCT."
5. SEQUENCE OF OPERATION:
   A. FIRE DAMPER MODE: HIGH TEMPERATURE MELTS FUSIBLE LINK, CLOSING FIRE DAMPER.

   REFER TO FIRE DAMPER SCHEDULE FOR FURTHER INFORMATION.

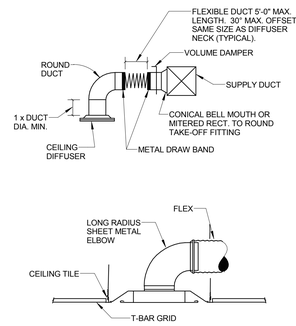
9 FIRE DAMPER DETAIL





NOTES:

1. SPIN COLLARS SHALL NOT BE PERMITTED.
2. SPECIAL CONDITIONS THAT CAN NOT MEET ONE OF THESE STANDARDS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION ON A CASE BY CASE BASIS.
3. DETAILS ILLUSTRATE INSTALLATION WITH ROUND NECK DIFFUSERS AND DUCTS. SQUARE OR RECTANGULAR NECK DIFFUSERS AND DUCTS SHALL BE SIMILAR.



1 TYPICAL SUPPLY, RETURN, & EXHAUST DUCTWORK DETAILS
NTS

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Drawing Title:

DETAILS

Project No.: 005005.00 Checked by: JM

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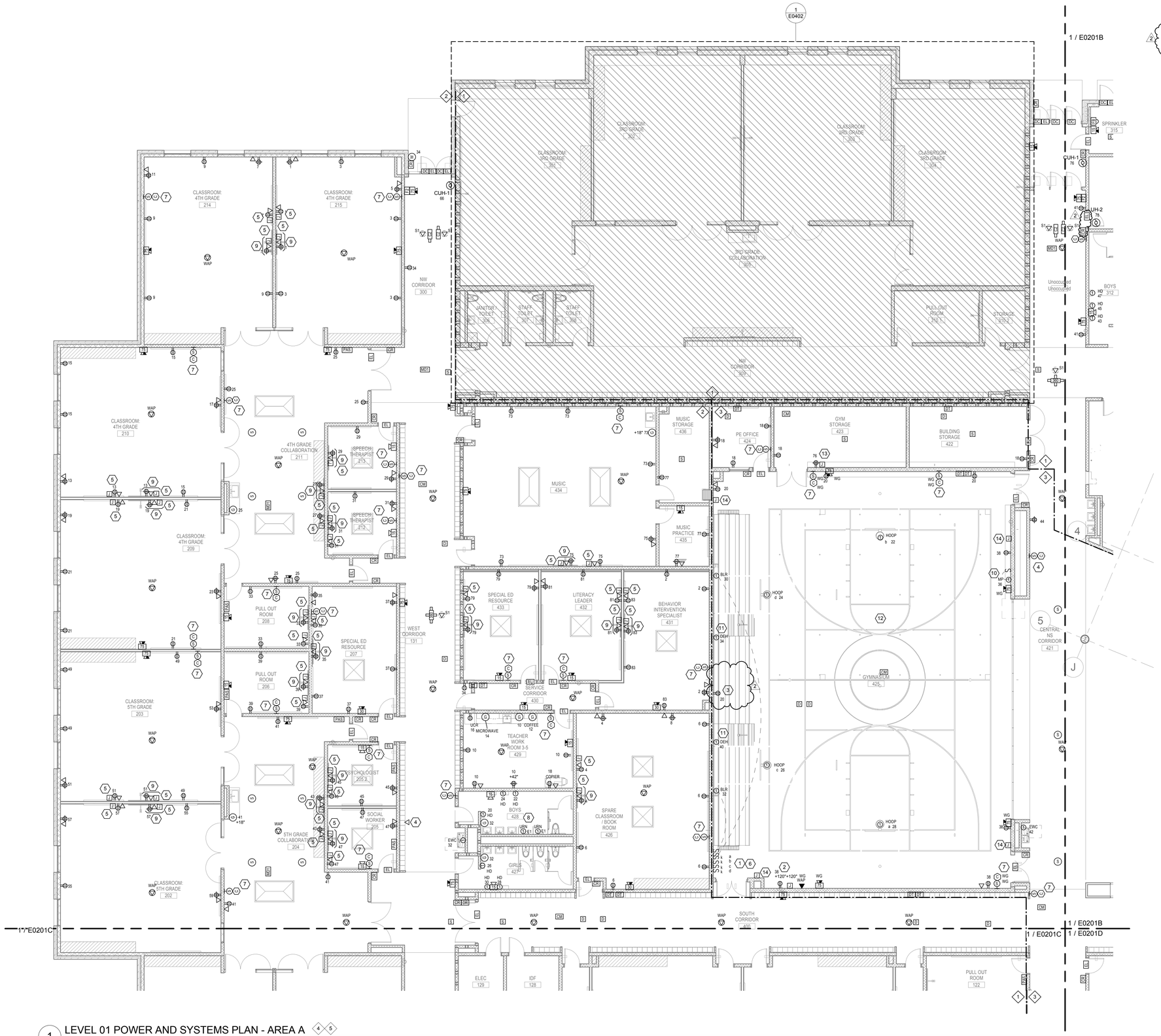

1 LEVEL 01 POWER AND SYSTEMS PLAN - AREA A 4 5
1/8" = 1'-0"

KEYED NOTES ⬡ :

1. KEY OPERATED SWITCHES FOR MOTORIZED BACKSTOPS. ENGRAVE COVERPLATES WITH "A,B,C, AND D BACKSTOP" LETTERING. PROVIDE ALL CONTROL WIRING AND INTERFACE WITH BACKSTOP MOTORS AS REQUIRED. KEYED SWITCHES SHALL BE BY IPI BY BISON OR DRAPER. GANG BACKSTOP" SWITCHES IN A 4 GANG ARRANGEMENT. SEE KEYED NOTE #6 FOR ADDITIONAL PROVISIONS.

2. SCOREBOARD LOCATION. PROVIDE 1" C. TO DESIGNATED SCORERS TABLE LOCATION. COORDINATE EXACT LOCATION WITH RPS PRIOR TO ROUGH-IN.

3. PROVIDE DUPLEX MOUNTED ABOVE TOP OF BLEACHERS FOR CHARGING SCORER'S EQUIPMENT. PROVIDE WEATHERPROOF COVER.

4. NOT USED

5. PROVIDE AND INSTALL A SINGLE GANG JUNCTION BACKBOX WITH 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.

6. PROVIDE A RECESSED LOCKABLE STAINLESS STEEL CABINET THAT WILL ENCLOSE THE CONTROLS FOR LIGHTING, BACKSTOPS, AND BLEACHERS. PROVIDE ENGRAVING FOR BLEACHER CONTROL SWITCHES: "N-BLEACHER", "S-BLEACHER". KEYED SWITCHES SHALL BE BY IPI BY BISION OR DRAPER. GANG BLEACHER SWITCHES IN 2-GANG ARRANGEMENT. PAINT CABINET TO MATCH WALL COLOR.

7. INTERCOM SPEAKER AND CLOCK SHALL BE FURNISHED BY RPS AND INSTALLED BY CONTRACTOR. PROVIDE ONE CATEGORY 6 CABLE AND BACKBOX AT THIS LOCATION. CONTRACTOR SHALL TEST AND TERMINATE CABLE TO THE NEAREST IDF CLOSET.

8. ELECTRICAL CONNECTION SHALL BE HIDDEN BEHIND FLUSH VALVE. EXPOSED FLEXIBLE CONDUIT IS NOT ACCEPTABLE.

9. EXACT MOUNTING HEIGHT OF QUAD RECEPTACLE, DATA OUTLET, AND A/V BACKBOX FOR SMARTBOARD / INTERACTIVE DISPLAY SHALL BE COORDINATED WITH RPS PRIOR TO ROUGH-IN.

10. PROVIDE A RECESSED, STAINLESS STEEL, LOCKABLE CABINET THAT WILL ENCLOSE THE LIGHTING CONTROL WALL STATION AND MOTORIZED PARTITION KEYED SWITCH. PAINT CABINET TO MATCH WALL PAINT COLOR. PROVIDE ENGRAVING FOR MOTORIZED PARTITION SWITCH TO READ "PARTITION". KEYED SWITCH SHALL BE BY IPI BY BISION OR DRAPER.

11. PROVIDE 120V CONNECTION TO DEHUMIDIFICATION UNDER FLOOR SYSTEM. CONTROL PANEL SHALL BE LOCATED RIGHT ABOVE THE FLOOR WITH METAL BLANK COVER. PROVIDE 2#18 AWG WIRE TO HUMIDISTAT BELOW FLOOR. PROVIDE 2#18 AWG WIRES TO THE TWO EXHAUST FANS. PROVIDE ALL WIRING AND TERMINATIONS PER MANUFACTURERS INSTRUCTIONS.

12. COORDINATE LOCATION OF ALL ELECTRICAL DEVICES AT GYMNASIUM WITH WALL MATS SO THAT NO CONFLICTS OCCUR. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

13. PROVIDE A SINGLE GANG JUNCTION BOX WITH 1-1/4" CONDUIT TO THE NEAREST TRUSS FOR OWNER PROVIDED AUDIO RACK.

14. PROVIDE A SINGLE GANG JUNCTION BOX WITH 1" CONDUIT MOUNTED TO NEAREST TRUSS. COORDINATE HEIGHT AND LOCATION OF THE JUNCTION BOX WITH RPS PRIOR TO INSTALLATION. PROVIDE AND INSTALL CABLE SUPPORT/HOOKS FOR 2/22 AWG CABLING THAT WILL BE ROUTED TO GYM STORAGE 423. PROVIDE AUDIO CABLING FROM EACH SPEAKER BACK TO GYM STORAGE 423. COORDINATE WITH ROCKFORD PUBLIC SCHOOL IT FOR EXACT CABLING REQUIREMENT. NEATLY COIL THE CABLE IN GYM STORAGE 423 AT THE DESIGNATED AUDIO RACK LOCATION.

BRANCH CIRCUIT NOTES ◇ :

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

   120 / 208V PANELBOARDS
   1LNL1 - NORMAL POWER
   1LEL1 - EMERGENCY POWER

2. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

   120 / 208V PANELBOARDS
   1LNL4 - NORMAL POWER
   1LEL1 - EMERGENCY POWER

3. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

   120 / 208V PANELBOARDS
   1LNL3 - NORMAL POWER
   1LEL1 - EMERGENCY POWER

GENERAL NOTES:

A. VERIFY ALL POWER AND DATA RECEPTACLE MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALLATION.

B. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS. AVOID BUNDLING CONDUIT FEEDERS IN CLOSE PROXIMITY SO THAT THE SHELTER ENVELOPE IS NOT DEGRADED OR THE PENETRATION FALLS INTO THE CONDITION AS DESCRIBED ABOVE.

C. PROVIDE A MINIMUM OF 16" SEPARATION BETWEEN DEVICES ON OPPOSITE SIDES OF WALLS.

HORIZONTAL TERMINATION NOTES ◇ :

4. TERMINATE STRUCTURED TELECOMMUNICATIONS DATA CABLING IN THIS AREA ON PATCH PANELS INSTALLED ON RACKS IN TELECOMMUNICATIONS ROOM 128, REFER TO E0201C FOR ROOM LOCATION.

5. TERMINATE SECURITY SYSTEM CABLING IN THIS AREA AT SECURITY EQUIPMENT INSTALLED IN TELECOMMUNICATIONS ROOM 128, REFER TO E0201C FOR ROOM LOCATION.

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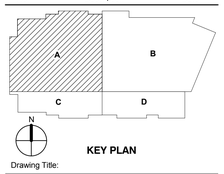

KEY PLAN

Drawing Title:

LEVEL 01 POWER AND SYSTEMS PLAN - AREA A

Project No.: 005005.00 Checked by: JE

E0201A

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GENERAL NOTES:

A. VERIFY ALL POWER AND DATA RECEPTACLE MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALLATION.

B. PROVIDE A MINIMUM OF 16" SEPARATION BETWEEN DEVICES ON OPPOSITE SIDES OF WALLS.

HORIZONTAL TERMINATION NOTES ◇ :

4. TERMINATE STRUCTURED TELECOMMUNICATIONS DATA CABLING IN THIS AREA ON PATCH PANELS INSTALLED ON RACKS IN MDF ROOM 319, UNLESS NOTED OTHERWISE.

5. TERMINATE SECURITY SYSTEM CABLING IN THIS AREA AT SECURITY EQUIPMENT INSTALLED IN MDF ROOM 319, UNLESS NOTED OTHERWISE.

BRANCH CIRCUIT NOTES ◇ :

1. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS
1LNL1 - NORMAL POWER
1LEL1 - EMERGENCY POWER

2. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS
1LNL4 - NORMAL POWER
1LEL1 - EMERGENCY POWER

3. EXTEND BRANCH CIRCUITS IN THIS AREA TO THE FOLLOWING BRANCH PANELBOARDS, UNLESS OTHERWISE NOTED:

120 / 208V PANELBOARDS
1LNL3 - NORMAL POWER
1LEL1 - EMERGENCY POWER

KEYED NOTES ⬡ :

1. PROVIDE AND INSTALL 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.

2. PROVIDE AND INSTALL A SINGLE GANG JUNCTION BACKBOX WITH 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.

3. PROVIDE A DATA CONNECTION FOR TIME CLOCK.

4. INTERCOM SPEAKER AND CLOCK SHALL BE FURNISHED BY RPS AND INSTALLED BY CONTRACTOR. PROVIDE A CATEGORY 6 CABLE AND BACKBOX AT THIS LOCATION. CONTRACTOR SHALL TEST AND TERMINATE CABLE TO THE NEAREST IDF CLOSET.

5. HANDHOLE FOR FIBER AND COPPER COMMUICATION FEEDERS. SIZE PER DESIGNATED REQUIREMENTS. PROVIDE HANDHOLE FIVE FEET FROM THE BUILDING.

6. SEE SHEET E0541 FOR ADDITIONAL INFORMATION.

7. FOR THIS AREA AT CHERRY VALLEY SCHOOL ACCOUNT FOR THE FOLLOWING SPACES.
A. TWO CLASSROOMS - SEE SHEET E0201D, CLASSROOM 1ST GRADE 116 FOR TYPICAL LAYOUT.
B. TWO RESOURCE ROOMS - SEE SHEET E0201A, SPECIAL ED RESOURCE 207 FOR TYPICAL LAYOUT.

8. PROVIDE (2) 4" CONDUITS ROUTED UNDERGROUND FROM THE EXTERIOR HANDHOLE AND STUBBED UP INTO MDF 319 FOR COPPER AND FIBER FEEDERS. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND ROUTING.

9. PROVIDE RECEPTACLES IN MILLWORK.

KEYED NOTES ⬡ :

10. PROVIDE (1) 4" UNDERGROUND EMPTY CONDUIT TO UTILITY POLE FOR PRIMARY FEEDER. COORDINATE EXACT ROUTING WITH COMED. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND ROUTING

11. PROVIDE UNDERGROUND CONCRETE ENCASE SECONDARY FEEDERS FROM UTILITY TRANSFORMER TO SERVICE SWITCHBOARD.

12. UTILITY TRANSFORMER. PROVIDE CONCRETE PAD AND GROUNDING PER COMED REQUIREMENTS. MAINTAIN 3-FOOT MIN. CLEARANCE FROM THE BUILDING AND 10-FOOT CLEARANCE FROM GENERATOR.

13. EXACT MOUNTING HEIGHT OF QUAD RECEPTACLE, DATA OUTLET AND AV BACKBOX FOR SMARTBOARD / INTERACTIVE DISPLAY SHALL BE COORDINATED WITH RPS PRIOR TO ROUGH-IN.

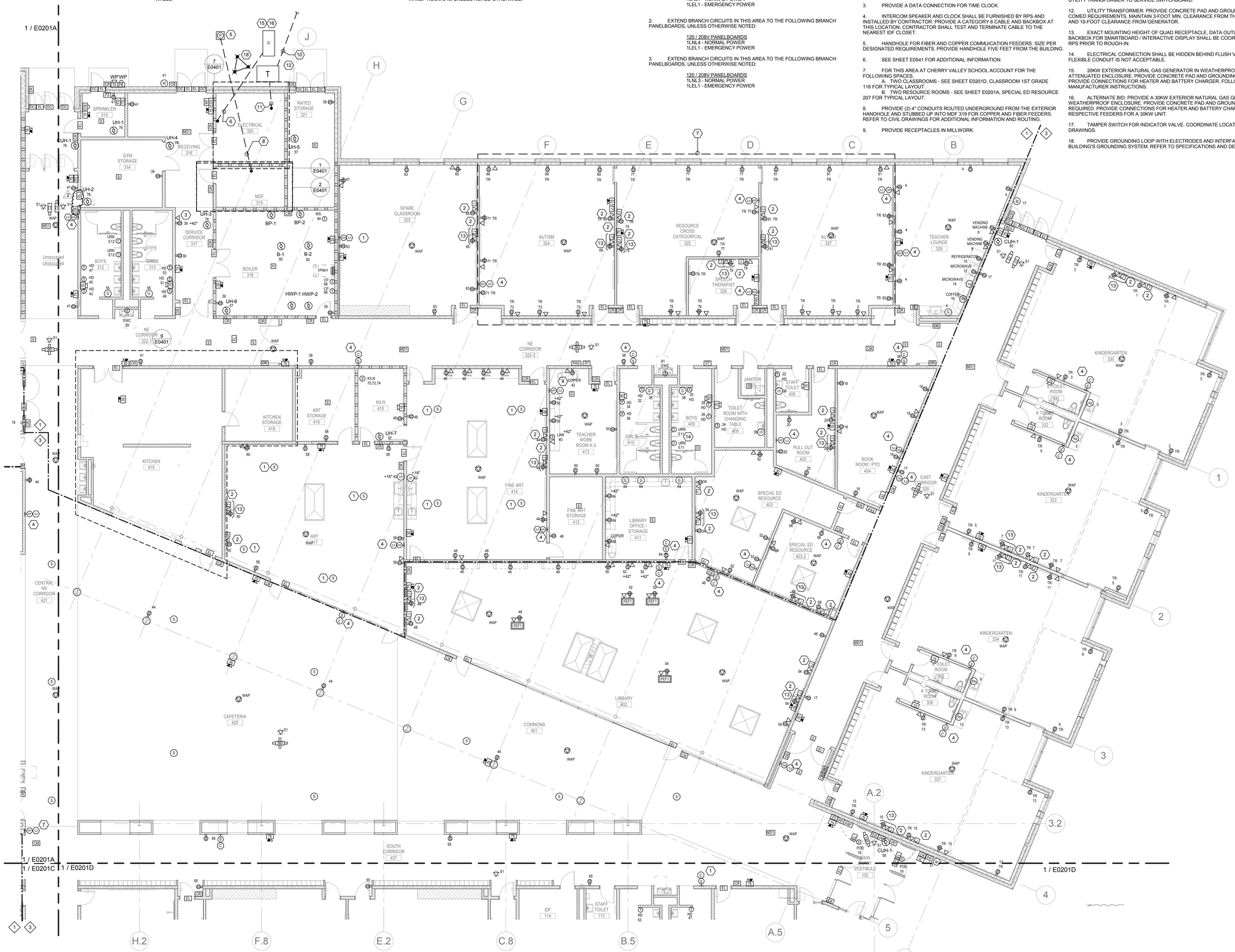
14. ELECTRICAL CONNECTION SHALL BE HIDDEN BEHIND FLUSH VALVE. EXPOSED FLEXIBLE CONDUIT IS NOT ACCEPTABLE.

15. 20KW EXTERIOR NATURAL GAS GENERATOR IN WEATHERPROOF/SOUND ATTENUATED ENCLOSURE. PROVIDE CONCRETE PAD AND GROUNDING AS REQUIRED. PROVIDE CONNECTIONS FOR HEATER AND BATTERY CHARGER. FOLLOW MANUFACTURER INSTRUCTIONS.

16. ALTERNATE BID: PROVIDE A 30KW EXTERIOR NATURAL GAS GENERATOR IN WEATHERPROOF ENCLOSURE. PROVIDE CONCRETE PAD AND GROUNDING AS REQUIRED. PROVIDE CONNECTIONS FOR HEATER AND BATTERY CHARGER. PROVIDE RESPECTIVE FEEDERS FOR A 30KW UNIT.

17. TAMPER SWITCH FOR INDICATOR VALVE. COORDINATE LOCATION WITH CIVIL DRAWINGS.

18. PROVIDE GROUNDING LOOP WITH ELECTRODES AND INTERFACE WITH BUILDING'S GROUNDING SYSTEM. REFER TO SPECIFICATIONS AND DETAILS.



1 LEVEL 01 POWER AND SYSTEMS PLAN - AREA B
1/8" = 1'-0"

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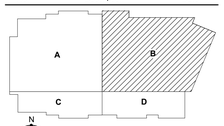

KEY PLAN

Drawing Title:

LEVEL 01 POWER AND SYSTEMS PLAN - AREA B

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FEEDER DESIGNATIONS - COPPER CONDUCTORS

FEEDER ID	AMPS	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG)	MIN. CONDUIT SIZE		FEEDER ID	AMPS	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG)	MIN. CONDUIT SIZE
60/3	60	(3)#4	--	#10	1-1/4		400/3	400	(6)#3/0	--	(2)#2	(2)2
60/4	60	(3)#4	(1)#4	#10	1-1/4		400/4	400	(6)#3/0	(2)#3/0	(2)#2	(2)2
60/5	60	(3)#4	(1)#1/0	#10	1-1/4		400/5	400	(6)#3/0	(4)#3/0	(2)#2	(2)2-1/2
100/3	100	(3)#1	--	#8	1-1/4		800/3	800	(9)300KCMIL	--	(3)#1/0	(3)2-1/2
100/4	100	(3)#1	(1)#1	#8	1-1/2		800/4	800	(9)300KCMIL	(3)300KCMIL	(3)#1/0	(3)3
100/5	100	(3)#1	(1)#3/0	#8	2		800/5	800	(9)300KCMIL	(6)300KCMIL	(3)#1/0	(3)3
125/3	125	(3)#1	--	#6	1-1/2		1600/3	1600	(15)400KCMIL	--	(5)#4/0	(5)3
125/4	125	(3)#1	(1)#1	#6	1-1/2		1600/4	1600	(15)400KCMIL	(5)400KCMIL	(5)#4/0	(5)3
125/5	125	(3)#1	(1)250KCMIL	#6	2		1600/5	1600	(15)400KCMIL	(10)400KCMIL	(5)#4/0	(5)3-1/2
225/3	225	(3)#4/0	--	#4	2							
225/4	225	(3)#4/0	(1)#4/0	#4	2-1/2							
225/5	225	(3)#4/0	(2)#4/0	#4	2-1/2							

TRANSFORMER SECONDARY FEEDER DESIGNATIONS - COPPER CONDUCTORS

FEEDER ID	XFMR SIZE(KVA)	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG)	MIN. CONDUIT SIZE	GEC	FEEDER ID	XFMR SIZE(KVA)	PHASE WIRES (AWG)	NEUTRAL WIRES (AWG)	GND (AWG)	MIN. CONDUIT SIZE	GEC
800/T4	225	(9)300KCMIL	(3)300KCMIL	(3)#2/0	(3)3	E							
800/T5	225	(9)300KCMIL	(6)300KCMIL	(3)#2/0	(3)3	E							

CONDUIT METRIC CONVERSION:

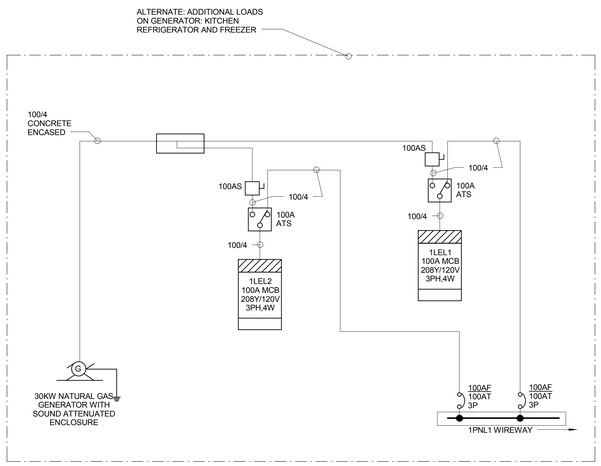
INCHES	MM
1/2	16
3/4	21
1	27
1-1/4	32
1-1/2	41
2	53
2-1/2	63
3	78
4	103
5	129
6	155

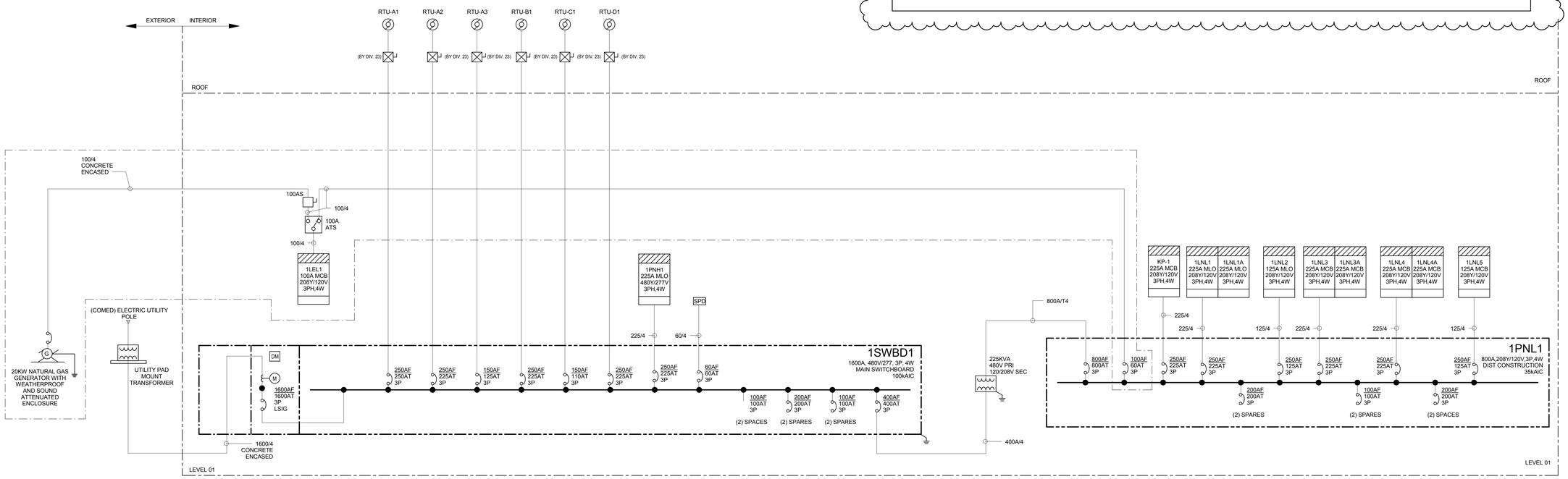
CONDUCTOR METRIC CONVERSION:

AWG	SQMM
10	5.26
8	8.38
6	13.3
4	21
2	34
1	42
1/0	54
2/0	67
3/0	85
4/0	107
250	127
300	152
350	178
400	203
500	254

SECONDARY DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR(GEC):

TAG	CONDUCTOR (AWG)	MIN. CONDUIT SIZE (IN)
A	(1)8	1/2
B	(1)6	1/2
C	(1)2	1/2
D	(1)1/0	3/4
E	(1)2/0	3/4
F	(1)3/0	3/4





1 POWER RISER DIAGRAM
1/8" = 1'-0"

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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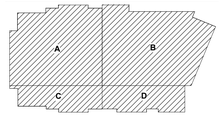
No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

POWER RISER DIAGRAMS

Project No.: 005005.00 Checked by: JE

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LUMINAIRE SCHEDULE

TAG	DESCRIPTION	INSTALLATION METHOD	DEPTH	LIGHT SOURCE SPEC	LIGHT SOURCE QTY	BALLAST/DRIVER SPEC	BALLAST/DRIVER VOLT	INPUT WATTS	MIN. EFF.	SHIELDING/OPTICS	FEATURES/OPTIONS	REFERENCED PRODUCTS	NOTES
LP8A	7" x 4FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION, CONTINUOUSLY MOUNT (MUSIC AND COLLABORATION AREA)	P-AC	1-13/16"	LED 5000K 3400 LUM PER 4FT	-	INTERNAL LED DIMMABLE 0-10V	120	24.2 PER 4FT	84 LPW	75% DIRECT/ 25% INDIRECT, 125° WHITE SATINE LENS, MATTE FINISH, CLEAR DUST GUARD	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LP6A-EM	7" x 4FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION, CONTINUOUSLY MOUNT, INTEGRAL BATTERY BACKUP, (COLLABORATION AREA)	P-AC	1-13/16"	LED 5000K 3400 LUM PER 4FT	-	INTERNAL LED DIMMABLE 0-10V	120	24.2 PER 4FT	84 LPW	75% DIRECT/ 25% INDIRECT, 125° WHITE SATINE LENS, MATTE FINISH, CLEAR DUST GUARD	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE, 2 HOURS EMERGENCY BATTERY BACKUP	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LP6B	7" x 8FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION, INDIVIDUALLY MOUNT (COLLAB)	P-AC	1-13/16"	LED 5000K 3400 LUM PER 4FT	-	INTERNAL LED DIMMABLE 0-10V	120	24.2 PER 4FT	84 LPW	75% DIRECT/ 25% INDIRECT, 125° WHITE SATINE LENS, MATTE FINISH, CLEAR DUST GUARD	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LP6B-EM	7" x 8FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION, INDIVIDUALLY MOUNT (COLLAB)	P-AC	1-13/16"	LED 5000K 3400 LUM PER 4FT	-	INTERNAL LED DIMMABLE 0-10V	120	24.2 PER 4FT	84 LPW	75% DIRECT/ 25% INDIRECT, 125° WHITE SATINE LENS, MATTE FINISH, CLEAR DUST GUARD	DIE FORM 18 GAUGE STEEL HOUSING, DIE CAST ALUMINUM ENDCAPS, FINISH WHITE, DUAL AIR CRAFT ADJUSTABLE CABLE N-LITE EMERGENCY RELAY	PEERLESS - BRM9L-LO-ENNB-N-LIGHT-LMES20	1, 2
LP7	4FT DIAMETER DECORATIVE CIRCULAR PENDANT LUMINAIRE (LIBRARY)	P-AC	≤4"H	LED 5000K 3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	72		FROSTED ACRYLIC LENS, FLUSH WITH BOTTOM OF THE HOUSING	EXTRUDED ALUMINUM FRAME, FINISH TBD	NEIDHARDT INC - RP006R1-E OR APPROVED EQUAL BY OCL, AXIS	1, 2, 8
LP7A	4FT DIAMETER DECORATIVE CIRCULAR PENDANT LUMINAIRE	P-AC	≤4"H	LED 5000K 3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	72		FROSTED ACRYLIC LENS, FLUSH WITH BOTTOM OF THE HOUSING	EXTRUDED ALUMINUM FRAME, FINISH TBD	NEIDHARDT INC - RP006R1-E OR APPROVED EQUAL BY OCL, AXIS	1, 2, 8
LP7B	3FT DIAMETER DECORATIVE CIRCULAR PENDANT LUMINAIRE	P-AC	≤4"H	LED 5000K 2300 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	56		FROSTED ACRYLIC LENS, FLUSH WITH BOTTOM OF THE HOUSING	EXTRUDED ALUMINUM FRAME, FINISH TBD	NEIDHARDT INC - RP006R1-E OR APPROVED EQUAL BY OCL, AXIS	1, 2, 8
LP7C	2FT DIAMETER DECORATIVE CIRCULAR PENDANT LUMINAIRE	P-AC	≤4"H	LED 5000K 1500 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	36		FROSTED ACRYLIC LENS, FLUSH WITH BOTTOM OF THE HOUSING	EXTRUDED ALUMINUM FRAME, FINISH TBD	NEIDHARDT INC - RP006R1-E OR APPROVED EQUAL BY OCL, AXIS	1, 2, 8
LP8A	NOT USED												
LP8B	NOT USED												
LP8C	NOT USED												
LP9A	NOT USED												
LP9B	NOT USED												
LP9C	NOT USED												
LX1	16.5"x 7"H LED EXTERIOR TRAPEZOID WALL MOUNT LUMINAIRE	SURFACE WALL	10-3/16" PROJ.	LED 5000K 2157 LUM	-	INTERNAL LED DRIVER	120	32	84 LPW	7 LED LIGHT BAR, SHARP CUTOFF DISTRIBUTION, TYPE 4 DISTRIBUTION, 0.187" CLEAR POLYCARBONATE LENS	HIGH IMPACT RESISTANT INJECTION MOLDED POLYCARONATE, BALLAST HOUSING DIE-CAST ALUMINUM. GASKETED, WET LABEL, PHOTOCONTROL BUTTON TYPE, FINISH TBS	McGRAW-EDISON - IST-F01-BL4-7050 LITHONIA - WST	2, 5
LX1-EM	16.5"x 7"H LED EXTERIOR TRAPEZOID WALL MOUNT LUMINAIRE	SURFACE WALL	10-3/16" PROJ.	LED 5000K 2157 LUM	-	INTERNAL LED DRIVER	120	32	84 LPW	7 LED LIGHT BAR, SHARP CUTOFF DISTRIBUTION, TYPE 4 DISTRIBUTION, 0.187" CLEAR POLYCARBONATE LENS	HIGH IMPACT RESISTANT INJECTION MOLDED POLYCARONATE, BALLAST HOUSING DIE-CAST ALUMINUM. GASKETED, WET LABEL, PHOTOCONTROL BUTTON TYPE, FINISH TBS N-LITE EMERGENCY RELAY	McGRAW-EDISON - IST-F01-BL4-7050 LITHONIA - WST	2, 5
XB1	NOT USED												
XD1	4" APERTURE LED DOWNLIGHT, WET LABEL	RECESSED V	6-1/8"	LED... 5000K 1000 LUM	1	INTERNAL LED DRIVER	UNIV	20	50 LMW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O., WET LABEL, IP66 RATED	GOTHAM -EVO4-NLIGHT FOCAL POINT - FL4D PHILIPS-LIGHTOLIER - C4L10DL CREE-KR4 PORTFOLIO - LD4 LUMARK - NFFLD-SC70-66-7030, S-TYS BARN DOORS	2
XG1	9"x9" FLOOD UPLIGHT LED LIGHT (FLAG POLES)	GROUND, CONCRETE BASE	8"	LED 5000K 5785 LUM	1	INTERNAL LED DRIVER	120	51		TEMPERED CLEAR DIFFUSER, 6X6 DISTRIBUTION, BARN DOORS	DIE CAST ALUMINUM HOUSING, FINISH STANDARD TBS, IP66 RATED, 6" STEM, SLIPFITTER AND SURFACE MOUNT TENON, LOCKABLE, AIM TOWARDS TO FLAG, PROVIDE CONCRETE BASE 4" HEIGHT BY 12" DIAMETER		2
XP1	20FT LIGHT POLE WITH SINGLE HEAD LUMINAIRE	POLE BASE	23-1/2" PROJ.	LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	134	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE FORWARD THROW DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 20FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE	LITHONIA - -CXS1LED-60C-700-TFM HS -SPASSS205G-NLIGHT	1, 2, 7
XP1A	15FT LIGHT POLE WITH SINGLE HEAD LUMINAIRE	POLE BASE	23-1/2" PROJ.	LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	134	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE FORWARD THROW DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 15FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE	LITHONIA - -CXS1LED-60C-700-TFM HS -SPASSS205G-NLIGHT	1, 2, 7
XP2	20FT LIGHT POLE WITH SINGLE HEAD LUMINAIRE	POLE BASE	23-1/2" PROJ.	LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	134	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE 3 DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 20FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE	LITHONIA - -CXS1LED-60C-700-T3 HS -SPASSS205G-NLIGHT	1, 2, 7
XP2A	20FT LIGHT POLE WITH SINGLE HEAD LUMINAIRE WITH INTEGRAL PHOTOCELL	POLE BASE	23-1/2" PROJ.	LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	134	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE 3 DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 20FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE	LITHONIA - -CXS1LED-60C-700-T3 HS -SPASSS205G-NLIGHT-DLL127F 1.5 JU	1, 2, 7
XP3	20FT LIGHT POLE WITH SINGLE HEAD LUMINAIRE	POLE BASE	23-1/2" PROJ.	LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	134	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE 4 DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 20FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE	LITHONIA - -CXS1LED-60C-700-T4 HS -SPASSS205G-NLIGHT	1, 2, 7
XP4	NOT USED												
XP5	20FT LIGHT POLE WITH DOUBLE HEADS AT 180 DEGREE LUMINAIRE	POLE BASE	23-1/2" PROJ.	(2) LED 5000K 12,000 LUM	-	INTERNAL LED DIMMABLE 0-10V	208	268	89LPW	PRECISION MOLDED ACRYLIC LENSES, TYPE FORWARD THROW DISTRIBUTION, HOUSE SIDE SHEILD	SINGLE PIECE DIE CAST HOUSING, HOUSESIDE SHIELD, FINISH TBS, MOUNT ON 20FT SQUARE STRAIGHT STEEL POLE AND 36" H x 24" DIA CONCRETE BASE, 180 DEGREE HEADS ORIENTATION	LITHONIA - -(2) HEADS CXS1LED-60C-700-T3 HS -SPASSS205G-NLIGHT	1, 2, 7
XS1-EM	13" LED EXTERIOR LUMINAIRE VANDAL PROOF (EXTERIOR CANOPY)	SURFACE	4" H	LED 5000K 1000 LUM	-	INTERNAL LED DRIVER	120	82	110 LMW	UV STABILIZED HIGH IMPACT RESISTANT POLYCARBONATE LENS	ONE-PIECE DIE-CAST ALUMINUM HOUSING, HEAVY WALL CONSTRUCTION, FINISH TBD, WET LABEL, N-LITE EMERGENCY RELAY	KENALL- MR13L	2
EBU-1	SELF CONTAINED, RECESSED, STANDBY/EMERG. LIGHTING BATTERY UNIT	RECESSED LG		12V, 9W PAR-36, SEALED BEAM	2		120	18W			STEEL SURFACE HOUSING-WHITE, PPC-ADJUSTABLE LAMP HEADS-12VDC NICKEL CADMIUM BATTERY-RATED ≥50W @ 120 MIN.-SELF-TESTING DIAGNOSTICS	BIG BEAM - BR SURE LIGHTS - 12ST4	
EBU-2	SELF CONTAINED, STANDBY/EMERG. LIGHTING BATTERY UNIT	SURFACE WALL		12V, 9W PAR-36, SEALED BEAM	2		120				STEEL SURFACE HOUSING-WHITE, PPC-ADJUSTABLE LAMP HEADS-12VDC NICKEL CADMIUM BATTERY-RATED ≥50W @ 120 MIN.-SELF-TESTING DIAGNOSTICS	BIG BEAM -RC SURE LIGHTS -PC2-27	
X1	LED EXIT SIGN	CEILING, WALL, PENDANT AS SHOWN		LED		INTERNAL LED DRIVER	120	5		STENCIL CUT, CODE SIZE "EXIT" LETTERS & DIRECTIONAL CHEVRON(S)-RED ACRYLIC SHEET BACKING	DIE-CAST ALUMINUM HOUSING-SINGLE/DOUBLE FACE-WITH DIRECTIONAL CHEVRONS AS SHOWN-PAINTED PPC FINISH-COLOR WHITE	CHLORIDE - CX SERIES DUAL-LITE - "SIEMPRA" SE SERIES JUNO - NAVILITE - NXD SERIES LITHONIA - "SIGNATURE" LE SERIES	4

GENERAL NOTES:

A REFERENCED PRODUCTS ARE INCLUDED HEREIN, OF MANUFACTURERS & PRODUCTS, THAT GENERALLY CONFORM TO THE LUMINAIRE DESIGN INTENTS ESTABLISHED HEREIN, & IN THE PROJECT MANUAL. EQUIVALENT PRODUCTS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PRIOR TO BID.

B DETERMINE SPECIFIC LUMINAIRE PART NUMBERS BASED ON THE REFERENCED PRODUCT SERIES, WRITTEN DESCRIPTIONS & PROJECT MANUAL SPECIFICATIONS.

C INCLUSION HEREIN OF MANUFACTURER'S SERIES &/OR MODEL NUMBERS DOES NOT IMPLY UNCONDITIONAL PRODUCT APPROVAL - MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE REQUIREMENTS SPECIFIED HEREIN & IN THE PROJECT MANUAL.

D LISTED SIZES, LAMPING, & TYPES OF LUMINAIRES MAY NOT BE STANDARD PRODUCTS PRODUCED FROM ANY GIVEN MANUFACTURER OR SERIES LISTED. MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE DESIGN CRITERIA, DESCRIPTIONS, & REQUIREMENTS SPECIFIED HEREIN & IN THE PROJECT MANUAL.

E ALERT ARCHITECT TO DISCREPANCIES PRIOR TO BID.

ABBREVIATIONS:

CONC	CONCRETE	EXP	EXPOSED	LUW	LUMENS PER WATT	PPC	POLYESTER POWDER COAT FINISH	S'S...	SEMI-SPECULAR
DW	DRYWALL	LG	LAY-IN GRID	NT	NARROW TEE GRID	PRI...	89	SS	STAINLESS STEEL
D/I	DIRECT/INDIRECT	LO-I...	LOW IRRIDESCENT	PAF	PAINT AFTER FABRICATION	REF...	REFLECTOR/REFLECTANCE	TBS	TO BE SELECTED BY ARCH
EFF	EFFICIENCY/EFFICACY	LU	LUMENS	PARA	PARABOLIC	SP	SPLINE CEILING SYSTEM	UNIV	UNIVERSAL 120-277VAC
ELBD	EMERG. LTG. BYPASS DEVICE	LU/FT	LUMENS PER LINEAR FOOT	PL	PLASTER	SPEC	SPECULAR	WH	WHITE
				P-AC	PENDANT AIR-CRAFT	P-RS	PENDANT RIGID STEM		

NOTES:

1 THE DIMMING LED DRIVER AND DIMMER SWITCH OR MODULE MUST BE TESTED AS A PAIR AND LISTED AS COMPATIBLE.
2 LIGHTING FIXTURES TO BE CONTROLLED THROUGH CONTROLS SYSTEM AS SELECTED.
3 MOUNT LIGHT FIXTURES TYPE LP2 SO THE BOTTOM OF THE FIXTURES IS ALINE WITH BOTTOM OF STRUCTURE. CONTRACTOR TO PROVIDE RIGID STEM SUSPENSION WITH SWIVEL CANOPY, STEM LENGTHS AS REQUIRED.
4 PROVIDE RED LETTERS ON WHITE BACKGROUND. PROVIDE UNIVERSAL MOUNTING. CONTRACTOR TO PROVIDE WEATHER PROOF ENCLOSURE FOR EXIT SIGNS INSTALLED OUTDOOR. SEE LOCATIONS INDICATED ON PLANS.
5 MOUNT LIGHT FIXTURES TYPE LX1 AT 10'-0" AFF TO BOTTOM OF THE FIXTURES.
6 LUMINAIRE SHALL BE SUSPENDED A MIN. 24" BELOW UNFINISHED CEILING (UNLESS OTHERWISE INDICATED ON PLANS). LENGTH OF SUSPENSION TBD BY CONTRACTOR.
7 SEE POLE BASE DETAIL.
8 SEE ARCHITECTURAL ELEVATIONS FOR FIXTURES MOUNTING HEIGHT.
9 PROVIDE LOW VOLTAGE CONDUIT FOR POLE MOUNTED SECURITY CAMERA, LOCATIONS AS INDICATED ON THE ELECTRICAL SITE PLAN.

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	INSTALLATION METHOD	DEPTH	LIGHT SOURCE SPEC	LIGHT SOURCE QTY	BALLAST/DRIVER SPEC	BALLAST/DRIVER VOLT	INPUT WATTS	MIN. EFF.	SHIELDING/OPTICS	FEATURES/OPTIONS	REFERENCED PRODUCTS	NOTES
FS1	4FT FLUORESCENT PENDANT	P-RS	3.75"	F32/T8 5000K CRI>=82	2	ELEC/T8 PROGRAM START	120	56		UV STABILIZED, HIGH IMPACT EXTRUDED PEARLESCENT POLYCARBONATE LENS	MARINE GRADE ALUMINUM HOUSING, FLAT ENDCAPS, WET LABEL, WHITE FINISH	KENALL - MLHA5 -F-MW-PP-32-PM	6
FT1	2'X4' RECESSED WET LABEL, GASKETED LUMINAIRE (KITCHEN)	RECESSED LG	5"	F32/T8 5000K CRI>=82	3	ELEC/T8 PROGRAM START	120	88	98 LPW	0.135" LENS P12 INVERTED, SEALED TO DOOR	20 GA STEEL HOUSING, SEAM WELDED, OVERWET LABEL, GASKETED, NSF RATED, GRID SIZE TBS	KURTZON - G/EZ-2X4 KENALL - CSEGI	2
FT1-EM	2'X4' RECESSED WET LABEL, GASKETED LUMINAIRE (KITCHEN)	RECESSED LG	5"	F32/T8 5000K CRI>=82	3	ELEC/T8 PROGRAM START	120	88	98 LPW	0.135" LENS P12 INVERTED, SEALED TO DOOR	20 GA STEEL HOUSING, SEAM WELDED, OVERWET LABEL, GASKETED, NSF RATED, GRID SIZE TBS N-LITE EMERGENCY RELAY	KURTZON - G/EZ-2X4 KENALL - CSEGI	2
LI1	4FT LED INDUSTRIAL STRIP LUMINAIRE	PENDANT, HANGER CHAIN	4"	LED 5000K 2680 LUM	1	INTERNAL LED DRIVER	120	32	84 LPW	MEDIUM DIFFUSE LENSED	FINISH WHITE, HANGER CHAIN	LITHONIA - ZL2-L48 COLUMBIA - LCS-LW METALUX - SNLED	2, 6
LI1-EM	4FT LED INDUSTRIAL STRIP LUMINAIRE	PENDANT, HANGER CHAIN	4"	LED 5000K 2680 LUM	1	INTERNAL LED DRIVER	120	32	84 LPW	MEDIUM DIFFUSE LENSED	FINISH WHITE, HANGER CHAIN N-LITE EMERGENCY RELAY	LITHONIA - ZL2-L48 COLUMBIA - LCS-LW METALUX - SNLED	2, 6
LD1	4" APERTURE LED DIMMABLE DOWNLIGHT	RECESSED V	6-1/8"	LED... 4000K 1000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O.	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LD1-EM	4" APERTURE LED DIMMABLE DOWNLIGHT	RECESSED V	6-1/8"	LED 4000K 1000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O. N-LITE EMERGENCY RELAY	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LD1A	4" APERTURE LED DIMMABLE DOWNLIGHT (CLASSROOMS)	RECESSED V	6-1/8"	LED... 5000K 1000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O.	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LD1A-EM	4" APERTURE LED DIMMABLE DOWNLIGHT (CLASSROOMS)	RECESSED V	6-1/8"	LED... 5000K 1000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	20	50 LPW	COMFORT CLEAR DIFFUSE REFLECTOR	SELF-FLANGE, PAINTED WHITE, U.N.O. N-LITE EMERGENCY RELAY	GOTHAM -EVO4-NLIGHT PRESCOLITE - LF4LEDG4 LIGHTOLIER - C4L10DL PORTFOLIO - LD4A09	1, 2
LC1	NOT USED												
LS1	LED STRIP LUMINAIRE IN CORNER CHANNEL, HORIZONTALLY MOUNTED	SURFACE,	0.72"H	LED 4100K 134 LUM PER 1FT	-	REMOTE LED DRIVER 10% 0-10V	24 DC	1.5 W/ FT		SLIM CORNER MOUNT CHANNEL WITH FROSTED LENS	ANODIZED ALUMINUM HOUSING, SPRING CLIPS, FINISH TBS, PROVIDE REMOTE DRIVER, LENGTH AS INDICATED ON DRAWINGS	OPTIC ART - FLEX-DC-15 -CHS-C-1919-MC-CF DESIGN PLAN - STOL	
LT1	2' X 4' LED VOLUMETRIC TROFFER (CORRIDOR)	RECESSED LG	4-3/8"	LED 4000K ~3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-30L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT1-EM	2' X 4' LED VOLUMETRIC TROFFER (CORRIDOR)	RECESSED LG	4-3/8"	LED 4000K ~3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. N-LITE EMERGENCY RELAY	LITHONIA - VTLED-30L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT2	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~4000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	39	102 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-40L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT2-EM	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~4000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	39	102 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. N-LITE EMERGENCY RELAY	LITHONIA - VTLED-40L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT3	NOT USED												
LT4	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K ~4800 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	47	99 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-48L-NIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT5	2' X 2' LED VOLUMETRIC DIMMABLE TROFFER (AUTISM)	RECESSED LG		LED 3500K 3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	42	72 LMW	EDGE LIT LED SYSTEM WITH VAULTED VOLUMETRIC LENS. MATT WHITE DIFFUSE. CONCEALED INDIRECT LEDS.	GAVALIZED STEEL REFLECTOR AND HOUSING.	FOCAL POINT - VAULT	1, 2
LT6	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K 6000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	52	115 LMW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-60L-NIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT6-EM	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER	RECESSED LG	4-3/8"	LED 5000K 6000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	52	115 LMW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. N-LITE EMERGENCY RELAY	LITHONIA - VTLED-60L-NIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT7	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER (KINDERGARTEN)	RECESSED LG	4-3/8"	LED 5000K ~3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS.	LITHONIA - VTLED-30L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LT7-EM	2' X 4' LED VOLUMETRIC DIMMABLE TROFFER (KINDERGARTEN)	RECESSED LG	4-3/8"	LED 5000K ~3000 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	31	103 LPW	HIGH PERFORMANCE CLEAR ACRYLIC DIFFUSER, WIDE DISTRIBUTION	RUGGED, ONE-PIECE COLD-ROLLED STEEL COATED POLYESTER HOUSING, PAF WITH EMBOSSED FACETS. N-LITE EMERGENCY RELAY	LITHONIA - VTLED-30L-NLIGHT-N100 PHILIPS - CLEAR APPEAL METALUX - ENCOUNTER	1, 2
LP1	4" DIAMETER LED PENDANT DIMMABLE CYLINDER (CAFETERIA, COMMONS)	P-AC	10"	LED 4000K 3000 LUM DELIVERED	-	INTERNAL LED DRIVER 1% DIMMABLE 0-10V	120	43		50 DEGREE BEAM ANGLE, SOLITE FROSTED LENS	FRONT CAP AND BODY FINISH AS SELECTED BY ARCHITECTS, PENDANT MOUNT ACCESSORY	GOTHAM - ICO CYL-4K-RFD-NLIGHT JUNO - LC4-P	1, 2, 8
LP1-EM	4" DIAMETER LED PENDANT DIMMABLE CYLINDER (CAFETERIA, COMMONS)	P-AC	10"	LED 4000K 3000 LUM DELIVERED	-	INTERNAL LED DRIVER 1% DIMMABLE 0-10V	120	43		50 DEGREE BEAM ANGLE, SOLITE FROSTED LENS	FRONT CAP AND BODY FINISH AS SELECTED BY ARCHITECTS, PENDANT MOUNT ACCESSORY N-LITE EMERGENCY RELAY	GOTHAM - ICO CYL-EM-4K-RFD JUNO - LC4-C	1, 2, 8
LP1A	4" DIAMETER LED PENDANT DIMMABLE CYLINDER (LIBRARY)	P-AC	10"	LED 5000K 2000 LUM DELIVERED	-	INTERNAL LED DRIVER 1% DIMMABLE 0-10V	120	24		50 DEGREE BEAM ANGLE, SOLITE FROSTED LENS	FRONT CAP AND BODY FINISH AS SELECTED BY ARCHITECTS, PENDANT MOUNT ACCESSORY	GOTHAM - ICO CYL-NLIGHT JUNO - LC4-C USAI - LNRP6	1, 2, 8
LP1A-EM	4" DIAMETER LED PENDANT DIMMABLE CYLINDER (LIBRARY)	P-AC	10"	LED 5000K 2000 LUM DELIVERED	-	INTERNAL LED DRIVER 1% DIMMABLE 0-10V	120	24		50 DEGREE BEAM ANGLE, SOLITE FROSTED LENS	FRONT CAP AND BODY FINISH AS SELECTED BY ARCHITECTS, PENDANT MOUNT ACCESSORY N-LITE EMERGENCY RELAY	GOTHAM - ICO CYL-NLIGHT JUNO - LC4-C USAI - LNRP6	1, 2, 8
LP2	16"X 46" PENDANT DIMMABLE LED HIGHBAY (GYM)	P-RS	3"	LED 5000K 21300 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	245	87 LPW	WIDE DISTRIBUTION OPTIC, SEMI-DIFFUSE ACRYLIC LENS FOR GLARE CONTROL	ALUMINUM HEAT SINK, CHANNEL AND END CAPS ARE STEEL, BOTTOM WIRE GUARD, FINISH STANDARD TBS	LITHONIA - IBL-24L-WD-SD125-WGX-NLIGHT	1,2,3
LP2-EM	16"X 46" PENDANT DIMMABLE LED HIGHBAY (GYM)	P-RS	3"	LED 5000K 21300 LUM	-	INTERNAL LED DIMMABLE 0-10V	120	245	87 LPW	WIDE DISTRIBUTION OPTIC, SEMI-DIFFUSE ACRYLIC LENS FOR GLARE CONTROL	ALUMINUM HEAT SINK, CHANNEL AND END CAPS ARE STEEL, BOTTOM WIRE GUARD, FINISH STANDARD TBS N-LIGHT EMERGENCY RELAY	LITHONIA - IBL-24L-WD-SD125-WGX-NLIGHT	1,2,3
LP4	7" x 8FT LED LINEAR PENDANT BI-DIRECTIONAL DISTRIBUTION (ART)	P-AC	1-13/16"	LED 5000K 4800

EQUIPMENT CONNECTION / MOTOR CONTROLLER SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT / MOTOR DATA: DESCRIPTION	HP	KW	FLA	NORMAL POWER	EMERGENCY POWER	VOLTAGE	PHASE	MOUNTING: PACKAGED	SEPERATE	MCC	CONTROLLER DATA: TYPE	NEMA SIZE	OVERCURRENT PROTECTIVE DEVICE: MCP	FUSE	RATING	SINGLE PHASE PROTECTION	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	LOCAL DISCONNECT SWITCH: OVERCURRENT PROTECTION DEVICE: MCP	FUSE	RATING	NEMA ENCLOSURE	WEIGHT (LBS)	LOCATION	SOURCE PROTECTIVE DEVICE: TYPE: MCP	FUSE	BREAKER	POLE AMPS	PANELBOARD OR MCC	WIRING: PHASE: QUANTITY	SIZE	NEUTRAL: QUANTITY	SIZE	GROUND: QUANTITY	SIZE	CONDUIT: QUANTITY	SIZE	CONNECTION TYPE	REMARKS
AC-1	AIR CONDITIONING UNIT	1/20			X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	35	SEE PLANS	2	#8	-	-	1	#10	1	3/4"	DC	
AC-2	AIR CONDITIONING UNIT	1/20			X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	35	SEE PLANS	2	#8	-	-	1	#10	1	3/4"	DC	
AC-3	AIR CONDITIONING UNIT	1/20			X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	35	SEE PLANS	2	#8	-	-	1	#10	1	3/4"	DC	
B-1	BOILER			10	X		208	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
B-2	BOILER			10	X		208	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
BP-1	BOILER PUMP	3			X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	1PNH1	3	#12	-	-	1	#12	1	3/4"	DC	
BP-2	BOILER PUMP	3			X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	1PNH1	3	#12	-	-	1	#12	1	3/4"	DC	
CU-1	CONDENSING UNIT			9.1	X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	SEE PLANS	2	#12	-	-	1	#12	1	3/4"	DC	
CU-2	CONDENSING UNIT			9.1	X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	SEE PLANS	2	#12	-	-	1	#12	1	3/4"	DC	
CU-3	CONDENSING UNIT			9.1	X		208	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	15	SEE PLANS	2	#12	-	-	1	#12	1	3/4"	DC	
CUH-1	CABINET UNIT HEATER	1/6			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-1	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-2	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-3	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-4	EXHAUST FAN	1/6			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-5	EXHAUST FAN	1/6			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-6	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-7	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-8	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-9	EXHAUST FAN	1/6			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
EF-10	EXHAUST FAN	1/4			X		120	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	1	#12	-	-	1	#12	1	3/4"	DC	
FT-2	ELECTRIC BASEBOARD HEAT		0.75		X		277	1	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	1PNH1	1	#12	-	-	1	#12	1	3/4"	DC	
HWP-1	HOT WATER PUMP	15			X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	40	1PNH1	3	#8	-	-	1	#10	1	3/4"	DC	
HWP-2	HOT WATER PUMP	15			X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	40	1PNH1	3	#8	-	-	1	#10	1	3/4"	DC	
KEF-1	KITCHEN EXHAUST FAN	1			X		208	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	20	SEE PLANS	3	#12	-	-	1	#12	1	3/4"	DC	
RTU-A1	ROOF TOP UNIT			208 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	250	1SWBD1	3	250KCMIL	-	-	1	#4	1	2-1/2"	DC	
RTU-A2	ROOF TOP UNIT			193 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	225	1SWBD1	3	4/0	-	-	1	#4	1	2"	DC	
RTU-A3	ROOF TOP UNIT			115 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	125	1SWBD1	3	#1	-	-	1	#6	1	1-1/2"	DC	
RTU-B1	ROOF TOP UNIT			193 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	225	1SWBD1	3	4/0	-	-	1	#4	1	2"	DC	
RTU-C1	ROOF TOP UNIT			110 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	110	1SWBD1	3	#1	-	-	1	#6	1	1-1/2"	DC	
RTU-D1	ROOF TOP UNIT			186 MCA	X		480	3	PROVIDED BY DIVISION 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	225	1SWBD1	3	4/0	-	-	1	#4	1	2"	DC	

CONTROLLER TYPE:
- AL ACROSS THE LINE H-O-A
- ALC ACROSS THE LINE COMBINATION DISCONNECT H-O-A
- ALO ACROSS THE LINE COMBINATION DISCONNECT O-H
- RV REDUCED VOLTAGE
- RVC REDUCED VOLTAGE COMBINATION DISCONNECT
- 2S TWO SPEED
- VSD VARIABLE SPEED DRIVE
- TS FRACTIONAL HP MANUAL STARTER

*MINIMUM MOTOR CIRCUIT PROTECTOR (MCP) FRAME SIZE SHALL BE BASED ON LISTED POLE AMPS

GENERAL NOTES:

A. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE BY DIVISION 26 INTERCONNECT ALL ASSOCIATED EQUIPMENT ELECTRICAL DEVICES.

B. VERIFY ALL RECEPTACLE TYPES AND BRANCH WIRING WITH EQUIPMENT SUPPLIER FOR COORDINATION OF EQUIPMENT PLUGS AND WIRING PRIOR TO INSTALLATION

CONNECTION TYPE:
- CP CONTROL PANEL - MAKE DIRECT CONNECTION
- DR STANDARD NEMA 5-20R DUPLEX RECEPTACLE
- JB JUNCTION BOX
- DC DIRECT CONNECTION TO EQUIPMENT
- RC RECEPTACLE TO MATCH EQUIPMENT PLUG

LOCATION
- NU NEAR UNIT
- OU ON UNIT
- PCU PACKAGE CONTROL UNIT
- MCC MOTOR CONTROL CENTER

REMARKS:
1. LOAD UNCONFIRMED AT THE TIME OF DESIGN.
2. CIRCUIT TO PANELBOARD INDICATED ON SCHEDULE THROUGH LOCAL SEPERATELY ENCLOSED FLUSH CIRCUIT BREAKER.
3. CIRCUIT THROUGH SHUNT TRIP BREAKER
4.

MULTI-SERIVCE BOX SCHEDULE

BOX ID	LOCATION / TYPE: FLOOR - SINGLE SERVICE	FLOOR - MULTI-SERVICE	FLOOR - LARGE CAPACITY (1-5 GANG)	FLOOR - X-LARGE CAPACITY (6-10 GANG)	FLOOR - STAGE	POKE THRU (4")	POKE THRU LARGE CAPACITY (6" OR 8")	RAISED FLOOR	WALL - MULTI-SERVICE	CEILING - MULTI-SERVICE	TABLE TOP - MULTI-SERVICE	ACCESS: CONCEALED	EXPOSED	SERVICE COVERS/ DEVICE FITTINGS: ROUND	SQUARE	RECTANGULAR	FLUSH (TILE)	SEMI-FLUSH	RECESSED	TOMBSTONE	"WRIP" FURNITURE FEED	COVER FINISH (METAL)	COVER COLOR (PAINT)	MATERIALS: CAST IRON	STAMPED STEEL	NON-METALLIC	CARPET FLANGE	TILE FLANGE	FEATURES: # OF GANGS	FIRE CLASSIFIED	POWER	TELECOM	AV	MULTI-SERVICE FLOOR BOX DEPTH	LARGE/ X-LARGE CAPACITY FLOOR BOX DEPTH	RE: DETAIL ON DRAWING E0 / XXXXX	REMARKS
FCR1												X							X												X	X						1,3,6,7,9
FEF1													X				X														X	X						1,3,6,7,9

FINISHES:
- AL ALUM
- BR BRASS
- BZ BRONZE
- PT PAINT (POLYESTER POWDER COAT)

COLORS:
- G GRAY
- B BLACK

REMARKS:
1. PROVIDE (1) 3/4" EMT CONDUIT (POWER) AND TELECOM CONDUIT. PROVIDE FULL CONDUIT SYSTEM.
2. PROVIDE (1) 3/4" EMT CONDUIT (POWER), TELECOM & AV CONDUIT. PROVIDE FULL CONDUIT SYSTEM.
3. ROUTE POWER CONDUIT TO ELECTRICAL PANEL AND CIRCUIT AS INDICATED ON PLANS.
4. PROVIDE WIRING AND TERMINATIONS IN THE FURNITURE SYSTEM AS INDICATED ON PLANS.
5. PROVIDE INNERDUCT FOR LOW VOLTAGE CABLING TRANSITION. '
6. ROUTE LOW VOLTAGE CONDUITS/CABLING TO LAN ROOM AS INDICATED ON PLANS.
7. REFER TO PLANS FOR CONDUIT SIZES AND QUANTITIES.
8. CONDUIT STUB-UPS FOR POWER AND LOW VOLTAGE BRANCHES DIRECTLY INTO FURNITURE SUPPORTS.
9. PROVIDE WIREMOLD 6AT POKETHRU WITH COVER.
10. PROVIDE WIREMOLD 8AT POKETHRU WITH COVER.

WIRING TERMINATION SCHEDULE

ID	DESCRIPTION	VOLTAGE	PHASE	SOURCE PROTECTIVE DEVICE: TYPE: FUSE	BREAKER	POLE AMPS	POLES	PHASE: QUANTITY	SIZE	NEUTRAL: QUANTITY	SIZE	GROUND: QUANTITY	SIZE	CONDUIT: QUANTITY	SIZE	CONNECTION TYPE	SPECIAL MOUNTING HEIGHT	REMARKS
BLR	MOTORIZED BLEACHERS	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	
CP	HVAC CONTROL PANEL	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	CP	CWM	
DEH	DEHUMIDIFICATION UNDERFLOOR SYSTEM	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	
EWC	ELECTRIC WATER COOLER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	CWM	GFI
HD	HAND DRYER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	V	
HOOP	MOTORIZED BASKETBALL HOOPS/BACKSTOPS	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	
KILN	KILN	208	3		X	50A	3	3	6	1	6	1	10	1	1-1/4	RC	N	NEMA 15-50
LAM	LAMINATOR	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DR	AC	
LVR	SOLENOID SPRING LOAD LOUVERS	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	
MP	MOTORIZED PARTITION - GYM	120	1		X	30A	1	1	10	1	10	1	10	1	3/4	DC	CWM	
SIGN	MARQUEE SIGN	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	
URN	URINAL CONNECTION	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	JB	CWM	
WASH	WASHER	208	1		X	20A	2	2	12	1	12	1	12	1	3/4	RC	CWM	
WS	WATER SOFTENER	120	1		X	20A	1	1	12	1	12	1	12	1	3/4	DC	CWM	

ABBREVIATIONS:
- MC: OUTLET MOUNTED IN MILLWORK. FEED FROM FLOOR OR WALL AS REQUIRED.
- GFI GFI OUTLET
- IG ISOLATED GROUND OUTLET
- AC ABOVE COUNTER OUTLET. COORDINATE HEIGHT WITH ARCHITECTURAL ELEVATION
- N NORMAL OUTLET MOUNTING HEIGHT. REFER TO SPECIFICATION 262716.
- WM OUTLET MOUNTED IN MULTIOUTLET ASSEMBLY.
- V VARIES. (VERIFY)
- CWM COORDINATE WITH EQUIPMENT MANUFACTURER.

CONNECTION TYPE:
- CP CONTROL PANEL - MAKE DIRECT CONNECTION
- D LOCAL DISCONNECT SWITCH MOUNTED NEAR UNIT. WIRE FROM DISCONNECT TO EQUIPMENT.
- DR STANDARD NEMA 5-20R DUPLEX RECEPTACLE
- JB JUNCTION BOX
- DC DIRECT CONNECTION TO EQUIPMENT OR PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
- RC RECEPTACLE TO MATCH EQUIPMENT.

ROCKFORD PUBLIC SCHOOLS

ROCKFORD PUBLIC SCHOOLS

2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

CANNONDESIGN
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ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
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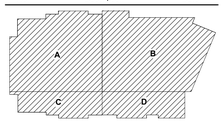
No.	Description	Date
2	ISSUED FOR ADDENDUM 2	01/27/2017
1	ISSUED FOR BID	01/04/2017



KEY PLAN

Drawing Title:

POWER SCHEDULES

Project No.: 005005.00 Checked by: JE

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TECHONLOGY SYSTEM RESPONSIBILITY MATRIX

Abbreviations:

O	By others / owner
V	By others / vendor - not a direct contractor to the General Contractor
C	Contractor - a contractor working directly for the General Contractor
CD	Cannon Design
NA	Not applicable or system is not being provided
Rough In	Conduit and Junction Boxes

SYSTEM		Specified By	Drawn By	Furnished By	Installed By	Notes
Network & Communications						
	Network Electronics	O	N/A	O	O	
	Telephone Switch/Electronics	O	N/A	O	O	
	Data Backbone - campus, data center, mdf, idf (Fiber)	CD	CD	C	C	
	Voice Backbone - campus, data center, mdf, idf (copper)	CD	CD	C	C	
	Cable tray / ladder rack (In MDF/IDF's)	CD	CD	C	C	
	Equipment racks / cable management	CD	CD	C	C	
	Horizontal cable from MDF/IDF to workstation	CD	CD	C	C	
	Copper cross connects	O	N/A	O	O	
	Fiber cross connects	O	N/A	O	O	
	Patch cords - Access Switches	O	O	O	O	
	Teledata jacks / faceplates	CD	CD	C	C	
	Wireless access points cabling	O	CD	C	C	
	Wireless access point hardware	O	N/A	O	O	
	Local UPS (if utilized)	O	N/A	O	O	
Security System						
	CCTV cameras - Video Surveillance System - VSS	CD	CD	O	C	
	Storage hardware / software	O	N/A	O	O	
	Door hardware	CD/O	CD	C	C	
	Rough in / cable for VSS	CD	CD	C	C	
	Access Control Panel	O	CD	O	C	
	Access control - ACAMS - (readers / door contacts)	CD	CD	C	C	
	AIPhones phones / stations	O	CD	O	O	
	Rough in / cable for ACAMS	CD	CD	C	C	
	PC, servers, switches	O	N/A	O	O	
Audio/Visual Systems						
	Rough in	CD	CD	C	C	
	AV Cabling	O	2 O	O	O	
	Display, projector, control, audio, speakers source devices and all other equipment	O	O	O	O	
Intercom and Clock						
	Clocks and related hardware	CD 2	CD	2 CD	C	
	Cable	CD	CD	C	C	

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2 NEW PUBLIC ELEMENTARY SCHOOLS - SCHOOL A

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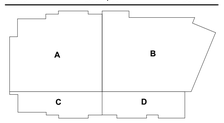

KEY PLAN

Drawing Title:

SYSTEM SCHEDULES

Project No.: 005005.00 Checked by: JE

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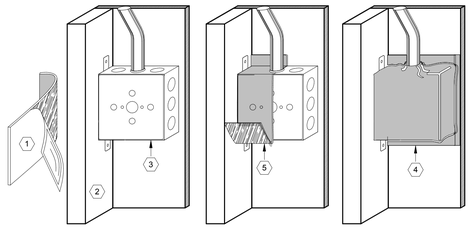


KEYED NOTES :

1. FIRE RATED BUTYL RUBBER BASED INTUMESCENT PUTTY PAD, SIZED FOR BOX.

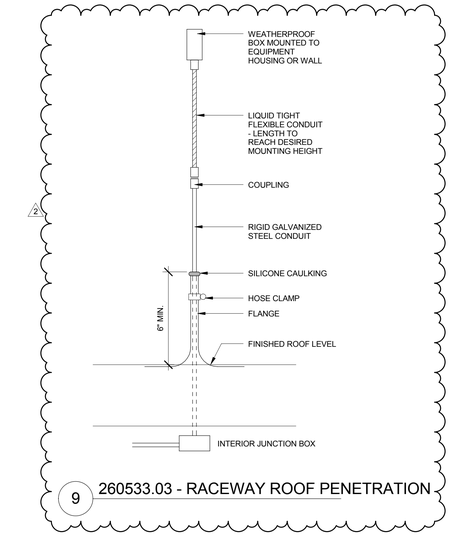
2. TYPICAL WALL STUD.

3. TYPICAL STEEL OUTLET BOX.

4. OVERLAP PUTTY PADS AT TOP, BOTTOM, AND SIDES. MOLD PAD SO THERE IS NOT A GAP BETWEEN THE DRYWALL AND THE PUTTY.

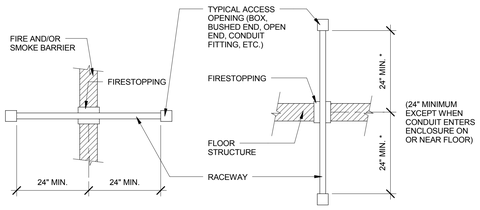
5. COMPLETELY SEAL ALL KNOCKOUTS AND OPENINGS IN THE BOX.

8 OUTLET BOX WITH FIRE-RATED PUTTY PADS



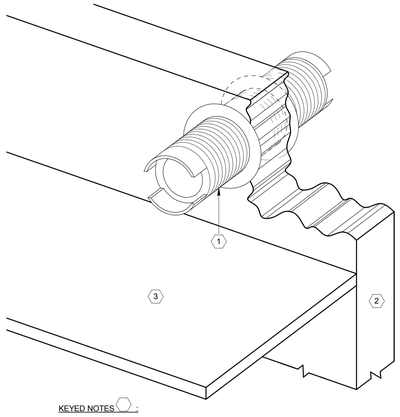
9 260533.03 - RACEWAY ROOF PENETRATION

CLEARANCE REQUIREMENTS



ELEVATION ELEVATION

7 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER



KEYED NOTES :

1.
PROVIDE 4" PREMANUFACTURED FIRE-RATED ASSEMBLY, OF QUANTITIES PER SPECIFICATIONS, AT ALL FIRE-RATED WALLS FOR PASSING CABLING ABOVE ACCESSIBLE CEILING.

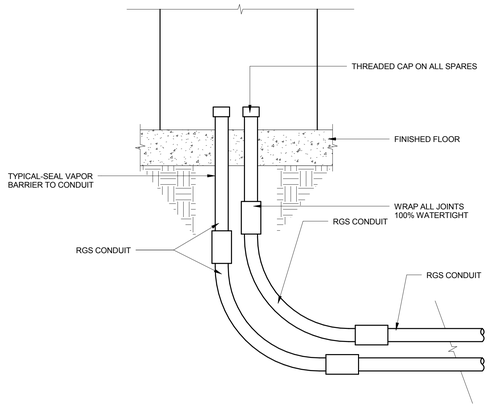
2.
FIRE-RATED WALL. CONTINUES TO DECK ABOVE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.

3.
ACCESSIBLE CEILING.

6 FIRESTOP SLEEVE

GENERAL NOTES:

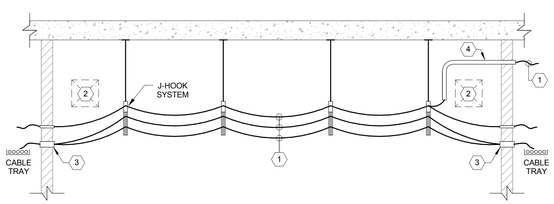
A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.



KEYED NOTES :

1. AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

5 CONDUIT STUB-UP INSIDE BUILDING



KEYED NOTES :

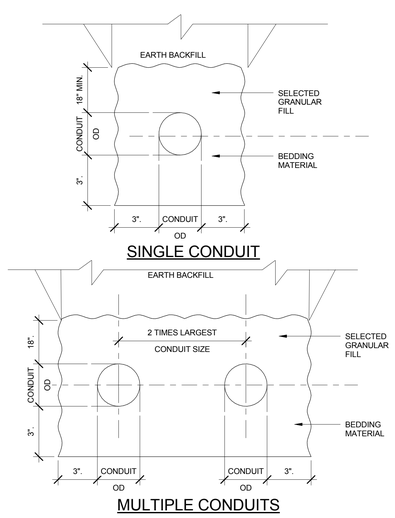
1.
DATA COMMUNICATIONS CABLE WITH MAXIMUM 3" TO 5" SAG BUNDLED SEPARATELY FROM OTHER SYSTEMS.

2.
POTENTIAL OBSTRUCTIONS.

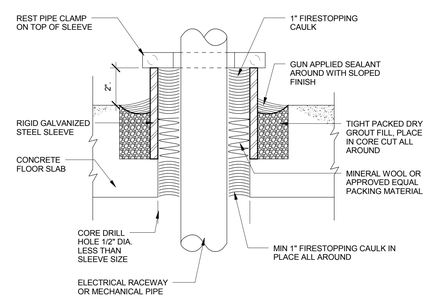
3.
CONDUIT SLEEVE OR FIRE RATED ASSEMBLY. ASSURE THERE ARE NO OBSTRUCTIONS FOR COMMUNICATIONS CABLING.

4.
REROUTE COMMUNICATIONS CABLING THROUGH CONDUIT AROUND OBSTRUCTIONS.

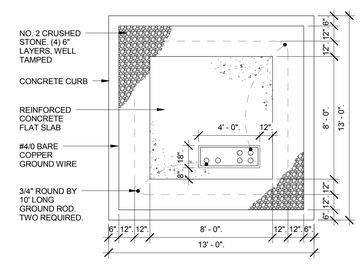
4 J-HOOK CABLE SUPPORT INSTALLATION



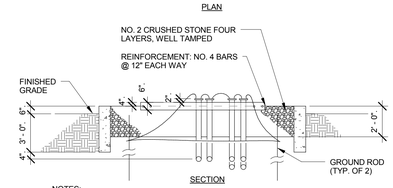
3 BEDDING MATERIAL FOR DIRECT BURIAL CONDUITS



2 AFTER SET SLEEVE IN CONCRETE FLOOR SLAB



PLAN



SECTION

NOTES:

1. TOP EDGE AND CORNERS OF CONCRETE PAD SHALL BE CHAMFERED.

2. CONCRETE PAD SHALL BE 3,500 PSI, 6"THICK MIN.

3. VERIFY DIMENSIONS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

1 1000 KVA TO 2500 KVA PADMOUNT TRANSFORMER

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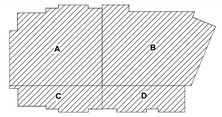

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Drawing Title:

POWER DETAILS

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