BID SET

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
COLONIAL HEIGHTS, VIRGINIA

PROJECT CODE: 2022-8000-2

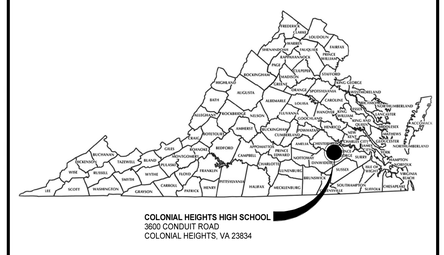
MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690

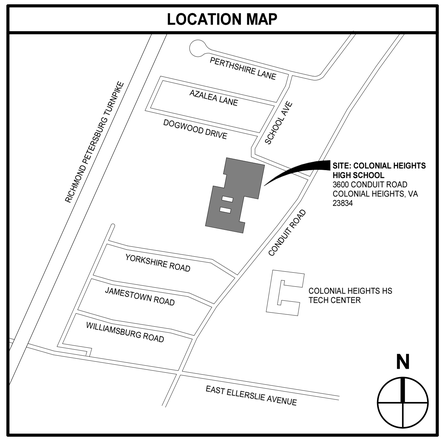
MOSELEYARCHITECTS.COM

HG DESIGN GROUP — CIVIL ENGINEERING
5701 GROVE AVE — RICHMOND, VA 23226

VICINITY MAP



LOCATION MAP



DRAWING INDEX - VOLUME 1

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

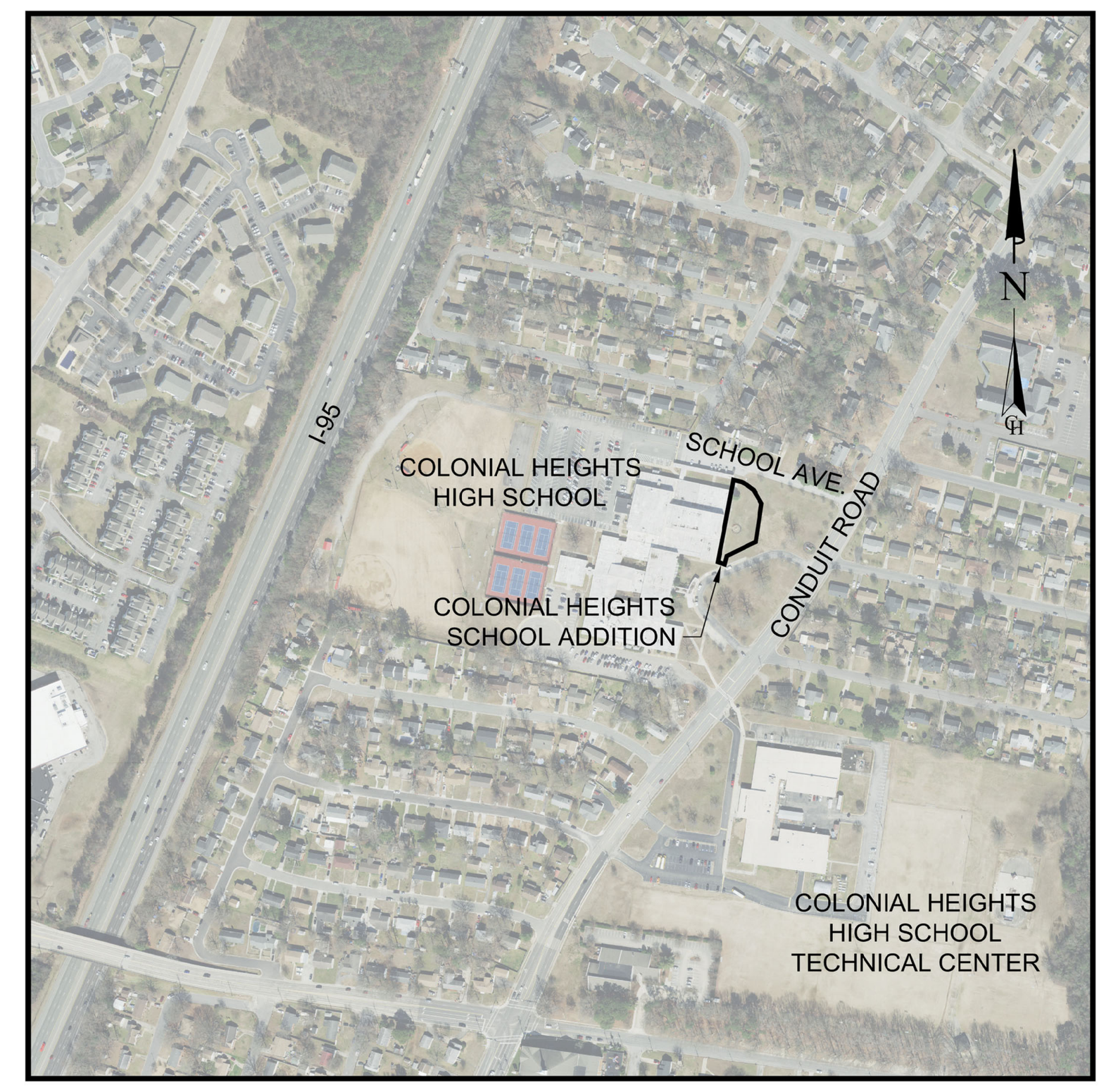
COVER

7/1/2022 1:59:29 PM

COLONIAL HEIGHTS HIGH SCHOOL ADDITION

FINAL SITE PLAN

COLONIAL HEIGHTS, VIRGINIA



VICINITY MAP
SCALE: 1"=500'

SUBMITTAL DATE: JULY 1, 2022

SITE DATA

OWNER:
COLONIAL HEIGHTS SCHOOL BOARD
512 BOULEVARD
COLONIAL HEIGHTS, VIRGINIA 23834
KENNY HARRELL, PROJECT MANAGER
PHONE 804-524-3400
FAX# 804-524-8723
EMAIL KENNY_HARRELL@COLONIALHTS.NET

DEVELOPER:
COLONIAL HEIGHTS SCHOOL BOARD
512 BOULEVARD
COLONIAL HEIGHTS, VIRGINIA 23834
KENNY HARRELL, PROJECT MANAGER
PHONE 804-524-3400
FAX# 804-524-8723
EMAIL KENNY_HARRELL@COLONIALHTS.NET

ENGINEER:
HG DESIGN STUDIO
5701 GROVE AVENUE
RICHMOND, VIRGINIA 23226
CHARLENE HARPER, P.E.
PHONE#:804-740-7500
FAX#:
EMAIL: charper@1hg.net

SITE ADDRESS: 3600 CONDUIT ROAD

TAX PARCEL #: 68090000023, ACCT #6598, LOT23

ACREAGE:
TOTAL SITE: 21.4
TOTAL DISTURBED: 0.60
PRE-DEV. IMPERVIOUS AREA: 0.68
POST-DEV. IMPERVIOUS AREA: 0.85
LANE MILES CREATED: N/A

ZONING: RL - RESIDENTIAL LOW DENSITY

USE: EDUCATIONAL FACILITY, PRIMARY/SECONDARY

PREVIOUS APPROVAL:
DATE OF CONDITIONAL APPROVAL: N/A
DATE OF FINAL APPROVAL: N/A
ADMINISTRATIVE #: N/A
ZONING CASE #: N/A
VARIANCE (BZA) CASE #: N/A
PROVISIONAL USE PERMIT #: N/A
SPECIAL EXCEPTION (CONDITIONAL USE) #: N/A

UTILITIES:

	YES	NO	N/A		YES	NO	N/A
CITY WATER	☒	☐	☐	GAS	☒	☐	☐
CITY SEWER	☒	☐	☐	PHONE	☒	☐	☐
POWER	☒	☐	☐	CABLE	☒	☐	☐

FLOOD PLAIN INFORMATION:
100 YR. FEMA FLOOD PLAIN
YES ☐ NO ☒
FLOOD ZONE: X
FIRM MAP #: 5100390019D
DATE: 08/02/2012

TOPOGRAPHICAL INFORMATION:
SURVEYED BY: NYFELER ASSOCIATES
DATE OF SURVEY: 02/07/2022
DATUM: NAVD88

WETLAND INFORMATION:
WETLANDS LOCATED ONSITE?
YES ☐ NO ☒
ACREAGE OF IMPACTS: N/A

RESOURCE AREAS:
RMA: YES ☐ NO ☒
RPA: YES ☐ NO ☒

CHESAPEAKE BAY PRESERVATION AREA:
COMPLIANCE HAS BEEN ACHIEVED BY:
NO IMPACTS TO CHESAPEAKE BAY PRESERVATION AREA

VSMP PERMIT REQUIRED:
YES☐ NO☒

CITY PROJECT#:
101244

DATE: DECEMBER 18, 2010 | REVISED: FEBRUARY 24, 2018 | DESIGN BY: J. LISS

UTILITY CONTACTS

GAS:
COLUMBIA GAS OF VIRGINIA
1809 COYOTE DRIVE
CHESTER, VA. 23836
CONTACT: REX PARKER
PHONE: (804) 768-6428
FAX: (804) 768-6455
EMAIL: rparker@nisource.com

ELECTRIC:
DOMINION ENERGY
1340 EAST WASHINGTON STREET
PETERSBURG, VA. 23803
CONTACT: HAROLD THURSTON
PHONE: (804) 862-6024
FAX: (804) 862-6025
EMAIL: harold.a.thurston@dom.com

TELEPHONE:
VERIZON VIRGINIA
2600 BRITTONS HILL ROAD
RICHMOND, VA. 23230
CONTACT: LARRY MOUNCE
PHONE: (804) 772-4298

DIGITAL MEDIA:
COMCAST
5401 STAPLES MILL ROAD
RICHMOND, VA. 23228
WILL MORRIS
PHONE: (804) 915-5259
FAX: (804) 915-5418

WATER/SEWER:
PUBLIC WORKS / UTILITIES DIVISION
2701 CONDUIT RD.
COLONIAL HEIGHTS, VA 23834
CONTACT: WESLEY SCOTT
PHONE: (804) 520-9393
EMAIL: scottw@colonialheightsva.gov

COMMERCIAL

PARKING SCHEDULE:
REQUIRED YES ☐ NO ☒
SPACES REQUIRED: N/A
BASIS FOR PARKING CALCULATIONS:
N/A
N/A
N/A
SPACES PROVIDED: N/A
ACCESSIBLE SPACES REQUIRED: N/A
ACCESSIBLE SPACES PROVIDED: N/A
VAN ACCESSIBLE: N/A

BUILDING INFORMATION:
NUMBER OF BUILDINGS: 1
SQ. FT OF BUILDING(S): 6,884
NUMBER OF STORIES: 1
NUMBER OF UNITS: N/A
CONSTRUCTION TYPE: II-B
SPRINKLER: YES ☐ NO ☒
USE GROUP(S): EDUCATION
MEDICAL OFFICE: YES ☐ NO ☒

RESIDENTIAL

NUMBER OF LOTS: N/A

ACREAGE
ACREAGE IN RIGHT OF WAY: N/A
ACREAGE IN COMMON AREA: N/A
ACREAGE IN LOTS: N/A

SETBACKS

FRONT YARD SETBACK: 25'
SIDE YARD SETBACKS: RIGHT: 15' LEFT: 7.5'
REAR YARD SETBACK: 25'
OTHER: N/A

SHEET INDEX

IF THE SHEET IS NOT APPLICABLE THEN PUT N/A IN THE FIELD.

CITY OF COLONIAL HEIGHTS
INCORPORATED 1948
VIRGINIA

PLAN OF DEVELOPMENT

INSPECTION NOTE

THE CONSTRUCTION OF IMPROVEMENTS WITHIN CITY RIGHT OF WAYS / EASEMENTS REQUIRES THE IMPLEMENTATION OF A COMPREHENSIVE INSPECTION PROGRAM TO ENSURE COMPLIANCE WITH VDOT STANDARDS AND SPECIFICATIONS. INSPECTION SERVICES TO BE PROVIDED BY THE APPLICANT BY RETAINING THE SERVICES OF A LICENSED GEOTECHNICAL ENGINEER TO PERFORM THE REQUIRED INSPECTIONS AND TESTING.

DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

Todd Flippen, P.E.

APPROVED FOR CONSTRUCTION

DIRECTOR OF PUBLIC WORKS / CITY ENGINEER DATE

RECOMMENDED FOR APPROVAL

DEPARTMENT OF FIRE & EMS DATE

MAINTENANCE DIVISION DATE

ENGINEERING DIVISION DATE

APPROVAL STAMP

VIRGINIA 811

DIG WITH C.A.R.E. KEEP VIRGINIA SAFE
CALL MISS UTILITY

CALL BEFORE YOU DIG
811

DATE RECEIVED STAMP

RESPONSIBLE LAND DISTURBER'S CERTIFICATION

IN ACCORDANCE WITH SEC. 10.1-563 AND 10.1-566 OF THE CODE OF THE STATE OF VIRGINIA, I HEREBY CERTIFY THAT I AM THE RESPONSIBLE LAND DISTURBER FOR THIS PROJECT AND THAT I HAVE A VALID CERTIFICATION FROM THE STATE OF VIRGINIA.

SIGNATURE

NAME (PRINT) DATE

CERTIFICATION # CONTACT #

ENGINEER'S CERTIFICATION

TO THE BEST OF MY KNOWLEDGE, THIS PLAN SATISFIES ALL ZONING CODE REQUIREMENTS, CONDITIONS OF APPROVAL, LOT NUMBERS, BLOCK LETTERS / NUMBERS, AND ROAD NAMES.

CHarper
SIGNATURE

CHARLENE HARPER, PE, PLA, LEED AP — 5/04/2022
NAME (PRINT) DATE

REVISIONS

DATE	DESCRIPTION
06/02/2022	FIRST REVIEW COMMENTS
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MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
CHARLENE A HARPER
Lic. No. 036009
07/01/2022
PROFESSIONAL ENGINEER

HG design studio
5701 grove avenue richmond virginia 23226
804.740.7500 www.1hg.net
land planning | civil engineering
landscape architecture

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

COVER SHEET

C0.00

6/21/2022 11:25:59 AM

GENERAL NOTES

1. All materials and construction within the City right of way shall be constructed and installed in accordance withe the City of Colonial Heights Special Provisions, Virginia Department of Transportation (VDOT) Road and Bridge Specifications dated 2007 and Supplemental Specifications; VDOT Road and Bridge Standards dated 2008 and Revisions; the Manual on Uniform Traffic Control Devices (MUTCD) dated 2009 and the 2011 Virginia Supplement to the MUTCD (Revision 1); the Virginia Work Area Protection Manual dated 2011 with any revisions and the 2005 National Electric Code and any subsequent revisions.

2. A Right of Way Permit must be obtained from the Department of Public Works prior to beginning any construction within the existing city maintained right of way (including access).

3. A pre-construction meeting is required prior to undertaking any construction activities. Developer or designee will contact Department of Public Works, in writing, five working days in advance of anticipated construction start to establish date, time and location for pre-construction meeting. The primary function of the pre-construction meeting will be to discuss the general sequence of construction, as well as identify geotechnical parameters of proposed construction activities.

4. At the time of the pre-construction meeting, two standard signs must be installed on each side of the construction entrance. These signs should state either "CONSTRUCTION ENTRANCE AHEAD" or "TRUCKS ENTERING HIGHWAY".

5. Prior to any construction, the Contractor shall consult the Engineer and verify the approval of the plans by all applicable federal, state and local agencies.

6. Department of Public Works is to receive written notification 48 hours prior to commencing initial construction activities.

7. Preliminary design of the pavement structure for all subdivision streets shall be in accordance with the current edition of **The Pavement Design Guide for Subdivision and Secondary Roads in Virginia**. The completed design worksheet Appendix IV shall be included with the initial plan submittal for each proposed pavement section utilizing the predicted soil support value shown in appendix I of **The Pavement Design Guide**.

8. The Contractor shall verify the elevations of all points of connection or proposed work to existing curbs, sanitary lines, water lines, etc., prior to construction.

9. Upon discovery of soils that are unsuitable for foundations, sub-grades, or other construction purposes, the Contractor shall immediately contact a Geotechnical Engineer and the Department of Public Works. These areas shall be excavated below plan grade as directed by a Geotechnical Engineer, backfilled with suitable material and compacted in accordance with current VDOT specifications.

10. All storm sewer design and construction to be in accordance with VDOT I & I LD-94 (D) 121.13.

11. All drainage structures shall be in accordance with current versions of LD-97 (D) 121. Pipe within the right of way and easements shall be a minimum CL-III or greater in accordance with current VDOT standards and specifications.

12. All pre-cast units shall be VDOT approved. Certification and VDOT stamp will be required on all units. Shop drawings, geotechnical data, soil bearing capacity, and plan view shall be submitted as a package for the Department of Public Works for review and approval.

13. All concrete shall be minimum class A3-AE (air entrained 3,000 PSI).

14. All entrances are to be designed and constructed in accordance with current CITY standards. Residential lot access shall be provided per the following criteria:

15. All driveway entrance culverts are to be a minimum of 15" diameter x 20' long pipe and shall conform to PE-1 private entrance standards unless otherwise directed by the City Engineer. No entrance culverts are to be installed within five (5) feet of a property corner.

16. VDOT standard CG-9D entrances shall be installed in curb and gutter neighborhoods

17. Inspections to be performed by the Department of Public Works shall be requested in writing, 48 hours prior to entrance installation.

18. Design changes, specified materials changes and/or field changes from the approved plans need to be re-submitted to the Department of Public Works prior to proceeding with the work. A letter of explanation shall accompany the revised plans and/or drainage calculations, which must be submitted, to the Department of Public Works for review and approval.

19. Contractor shall verify location and elevation of all underground utilities shown on plans in areas of construction prior to starting work. Contact the Engineer and the Department of Public Works immediately if location or elevation is different from that shown on plan. If there appears to be a conflict, and/or upon discovery of any utility not shown on this plan, call Miss Utility of Central Virginia at 1-800-552-7001. The Developer shall be responsible for the relocation of any utility within existing and/or proposed right of way required by the development.

20. All streetlights shall be located a minimum of 9.5' from the edge of pavement on curb and gutter streets and/or located a minimum of 5.5' behind the ditch line on open ditch streets.

21. Paved roadside ditches are to be specified when velocities exceed current VDOT design criteria or when ditch slopes are less than 0.75%. Where ditch slopes exceed 5.0%, the developer may choose to implement erosion and sediment control measures in an attempt to achieve channel stabilization while acknowledging that additional paved ditch linings may be required prior to acceptance of the roads into the City's road system. Paved roadside ditches shall conform to VDOT-PG-2A standards and specifications.

22. Department of Public Works approval of construction plans does not preclude the right to require additional facilities as deemed necessary for acceptance of City's facilities.

23. Department of Public Works approval of site plans will expire five (5) years from the date of the initial approval. The Department of Public Works approval of subdivision plans will expire three (3) years from the date of the initial approval.

24. Department of Public Works shall have performed the required field inspection (proof roll) prior to placement of the aggregate base course(s). Contact the Department of Public Works , in writing, for subgrade inspection 48 hours prior to scheduling placement of aggregate base course(s).

25. A prime coat seal between the aggregate base and bituminous concrete will be required at a rate of 0.30 gallons per square yard (REC-250 Prime Coat) per VDOT standards and specifications. The scheduling of aggregate base installation and subsequent paving activities shall accommodate forecast weather conditions per Section 315 of **The Road and Bridge Specifications**.

26. Department of Public Works shall have approved all base course(s) for depth, template and performed the required field inspection (visual, proof roll, compaction or any additional as determined by the Department of Public Works Inspector) prior to placement of any surface course(s). Contact the Department of Public Works, in writing, for inspection of the base course(s) 48 hours prior to the application of the surface course(s).

27. An actual copy of the complete CBR report is to be submitted to the Department of Public Works in conjunction with final pavement designs. All pavement design recommendations shall be performed in accordance with the current edition of **The Pavement Design Guide for Subdivision and Secondary Roads in Virginia**.

28. A geotech report shall verify/approve stone depths prior to asphalt placement.

29. A licensed Geotechnical Engineer shall ascertain cause and certify recommended method of repair for all pavement structural failures prior to City acceptance.

30. All vegetation and organic material is to be removed from the right of way limits prior to conditioning of the subgrade.

31. Dry gutter is not allowed in City right of way.

1. Virginia Department of Transportation (VDOT) standard underdrains and combination underdrains shall be installed as required to preclude the collection of water under the pavement following completion of cut and fill work, the Owner's soil consultant shall prepare and submit a plan showing all required underdrains and /or combination underdrains to the Department of Public Works for approval.

2. The necessity and locations for additional VDOT standard underdrains to be determined at time of subgrade inspection.

3. Approval of a detailed construction sequencing/maintenance of traffic narrative for the work zone is a prerequisite for issuance of a Right of Way Permit allowing access to and construction within City maintained right of way.

4. Department of Public Works shall be provided documentation by a licensed Geotechnical Engineer certifying that all in-place pavements meet or exceed the approved pavement design thickness prior to City acceptance. The certifying documentation shall conform to VDOT specifications and the approved plans.

5. No structure shall be constructed on city maintained rights of way unless said structures are shown on construction plans approved by the Department of Public Works or covered by a City Right of Way Permit.

6. The Developer is responsible for contacting the City Traffic Operations section at (804) 520-9371 for guardrail location and placement requirements.

7. All construction debris, materials, dumpsters, etc., shall be located outside the roadway prism prior to acceptance of the roads and shall be maintained outside the roadway prism within existing City roads.

8. Any landscaping, identification signs, lighting, etc. that may be indicated within the construction plans shall be for information purposes only. Non-standard items must be approved by separate submittal through the permitting process.

9. Whenever the work affects adjacent properties, the Applicant must inform the property owners prior to beginning the work and keep them apprised of time schedules, delays, impacts, changes in pedestrian and vehicle access or traffic patterns, and final restoration plans.

10. When all improvements are complete, all drainage and sanitary sewer lines are flushed and cleaned of foreign matter, and all curbs and gutters and streets are clean and free of dirt and debris, the Subdivider or Developer shall notify the Department of Public Works to make a final inspection. A representative of the City shall be present at the CCTV inspection of the utility lines, waste water and storm sewer. The Subdivider / Developer must provide a DVD copy of the CCTV inspection of all utility lines.

11. Private improvements that connect to City improvements must be constructed to VDOT standards and shall be included in the final inspections made by the Department of Public Works. City inspection shall include pipe bedding, pipe, drop inlets, backfill, etc.

12. Private improvements are not inspected by the Department of Public Works and other inspection arrangements should be made to insure proper construction of these items.

13. Developer shall have a street lighting system installed as approved by the Department of Public Works.

14. VDOT standard ST-1 steps shall be used for all structures with a depth of 4'-0" or greater.

15. Any on-site excavation to be used in embankments shall be approved by the Department of Public Works. All off-site borrow material shall be from borrow pits approved by the Department of Public Works. Compaction testing shall be performed in layers by the Developer's Geotechnical Engineer according to VDOT standards.

16. In general, plastic soils in cut sections with above optimum moisture shall be removed and replaced with select fill.

17. Subdivision general contractor shall grade lots as shown by proposed contours to preclude the puddling of water.

18. The letters "W" or "S" shall be engraved in the face of curb directly over respective water and sewer services.

19. CG-12's must be installed at curb returns where there are existing or proposed sidewalks.

20. Prior to construction, a CD, SD Card or USB Drive containing 2014 (or newer) AutoCAD Drawings must be submitted to Aaron Cypher of the Department of Public Works. The submitted media must contain the following Approved Plan information, each in a separate layer:

    Existing site conditions;

    Final grading contour lines.

    Proposed building footprints.

    All impervious areas (parking lots, driveways, roads, etc.).

    Storm sewer system.

    Water and wastewater systems.

    All easements.

21. A layer report printed from AutoCAD must be submitted with the CD , SD Card or USB Drive. Both the submitted media and the report must be labeled with the plan name, plan number, and engineering firm. All AutoCAD files must be referenced directly to the Virginia State Plane Coordinate System, South zone, in the NAD 83 Datum.

22. Prior to Land Disturbance, a copy of the Approved Plans need to be submitted in PDF format. This information can be added to the same CD, SD Card or USB Drive as the AutoCAD files.

23. Prior to Certificate of Occupancy or Final Approval, a CD, SD Card or USB Drive of the As-Built Plans need to be submitted as one paper copy and one PDF copy along with the AutoCAD layers that have been modified. This information must be submitted to Aaron Cypher of the Department of Public Works.

TRAFFIC NOTES

1. A Traffic Control Supervisor, certified by ATSSA (American Traffic Safety Services Association) shall be on site any time work is being completed within the City right of way. 24-hour/day, 7-day/week contact information for the Contractor staff shall be provided to Traffic Operation's Representative, prior to commencing construction on-site.

2. Mast arm pole foundations shall be VDOT Standard PF-1. The contractor shall be responsible for securing soil borings and reviewing the elevations for the top of the foundations. A foundations design shall be prepared and submitted for approval by a Professional Engineer licensed in Virginia. The elevation of the top of the foundation shall be within 6" of the finished ground grades. If existing conditions do not allow for the use of a VDOT Standard PF-1 foundation, notify the City Traffic Operation's Representative.

3. The Contractor shall stake signal pole locations and verify mast arm lengths with the City Traffic Operations Representative prior to drilling foundations. Contact Bill Russell at (804)-520-9371 for verification.

4. Signal mounting installation shall conform to Standard SM-3 for mast arms and SW-2 for span wires.

5. Whenever construction is in or adjacent to City streets, the Contractor shall furnish signs, drums, and traffic control devices as directed by the the Department of Public Works. All signs and traffic control devices shall conform to the current manual on uniform traffic control devices as published by the U.S. Department of Transportation, Federal Highway Administration, the Virginia supplement to that manual, and Virginia Work Area Protection Manual.

6. Existing pavement markings within City Right of Way are to be eradicated (all eradication scars shall be overlaid with surface mix or slurry seal #4). All new striping requires the use of thermoplastic pavement markings Type B, Class I. Contact the City Traffic Operations office at (804) 520-9371 ten days prior to proceeding with striping layout.

7. All junction boxes shall be Standard JB-R1 or R2 unless otherwise noted.

8. All conduits under pavement shall be bored at a minimum depth of 24". All other conduit shall be installed in accordance with Standard ECI-1 at a minimum depth of 18".

9. The Traffic Controller shall be an Eagle Model EPAC-300 or approved equal.

10. The Controller Cabinet & Base shall be a Standard CF-2 and shall be large enough to provide for ease of maintenance to the controller and auxiliary equipment. The cabinet shall be wired in accordance with VDOT Specifications.

11. The Developer shall notify the Department of Public Works to arrange for permanent metered electrical service for the signal.

12. The Developer is responsible for furnishing and installing all signs deemed pertinent to the proposed development. The contractor shall contact the Department of Public Works inspection staff to establish locations for any signage requirements as deemed necessary by the Department of Public Works. Installation of said signs shall occur at no expense to the City and prior to City acceptance of roadway(s).

13. All traffic signal wire shall be Number 14 AWG, unless otherwise specified. A continuous wire (no splices) shall be run between the controller cabinet and the signal head.

14. Pedestrian heads and accessories shall be approved by the Department of Public Works.

15. Signal heads shall be LED. All signal heads shall have full tunnel-visors for each individual 12" sections. All traffic signal heads shall have back plates. All items shall be in accordance with VDOT Specifications.

16. Interconnection shall be provided by using Spread Spectrum Radio. All equipment/methods to be utilized shall be approved by City Traffic Operations Representative.

17. Emergency vehicle pre-emption (EVP) shall be installed using the 3M Opticom System. Infrared System Model 721 detectors with confirmation lights shall be installed.

18. Pole foundations, poles and mast arms shall be designed to accommodate the load shown on the plans.

19. Use of any Video Detection System must be pre-approved by the City of Colonial Heights.

20. Location of junction boxes and Emergency Vehicle Pre-emption (EVP) are to be located by the Contractor and approved by the City Traffic Operations Representative prior to installation.

21. The Contractor shall submit shop drawings and/or catalog cuts for the mast arm pole, foundation design, controller, controller cabinet and signal heads with hardware to the developer's traffic engineer. Approved copies shall be supplied to the City Traffic Operations Representative.

22. With the exception of the soil survey for the foundations, no work shall commence until all required submittals are received and reviewed by the City Traffic Operations Representative.

23. All measurements for the placement of signal heads, signs, and cameras on mast arms shall be taken from the flange to the center of the signal head and signs.

24. The Contractor shall be responsible for the operation of the traffic signal and its components from the time work commences until such time as the 30-day test period has been completed and the signal has been accepted by the City. The Contractor shall respond to emergency repair notifications within two (2) hours.

25. The 30-day test period shall begin only after items shown on the City punch list have been completed and accepted by the Department of Public Works.

26. Conduits shall be installed so that moisture will drain as per VDOT Specifications, Section 700.04 (h).

27. Upon completion of the traffic signal, the Contractor shall submit to the City Traffic Operations Representative an accurate and to scale as-built traffic signal plans. The as-builts shall be supplied in both a printed and electronic format using AutoCAD 2014 or later.

28. All signal pole and controller cabinet foundation ground rods shall be placed in the nearest junction box. The electrical service ground rod shall be placed in a junction box and shall be in conformance with VDOT specifications.

29. Contractor shall install a 2" conduit from the controller cabinet to the nearest junction box for future City use.

30. An uninterruptible Power Supply (UPS) shall be provided with each traffic signal along with required accessories and must be approved by the Department of Public Works. The UPS shall include the uninterruptible power supply, the batteries, cabinet and the additional equipment necessary to provide power when the electricity is off from the power company.

31. Pedestrian push buttons are to be located on the mast arm poles. If the push buttons are farther than 3' from the nearest sidewalk, then additional sidewalk shall be added to provide access for wheel chairs. A handicapped push button is to be used with a yellow color.

32. Traffic mast arm poles shall conform to the VDOT MP-1. All hardware shall be galvanized. Mast arm poles shall be installed so that all signal heads will have a minimum of 16' of clearance.

33. Electrical service shall conform to VDOT Standard SE-3. Safety switches shall be enclosed in a rain tight box conforming to the requirements of NEMA 3R, with a lock-on/lock-off external switch handle. There shall be a 100 amp circuit breaker disconnect with 40 amp breaker to controller and 20 amp breaker to UPS.

34. The Contractor shall install the pavement markings as shown on the plans. All pavement markings that are in conflict shall be eradicated. Please note that the City Traffic Operations Representative shall be notified 72 hours in advance of any application of pavement markings.

35. A traffic signal inspection fee must be paid at least thirty (30) days prior to beginning construction. A fifteen (15) day notice is required to schedule the inspection prior to any construction beginning.

36. The Owner / Contractor shall be responsible for the replacement of existing utilities, traffic signal devices, signage, asphalt pavement, pavement markings, and any other items that are damaged due to construction activity associated with the site.

37. The Developer will be responsible for the design costs of any traffic signal installation and/or modification.

38. Ornamental lighting using a 100 amp service are required to use a 200 amp meter base.

Traffic Signal Inspection Requirements:

1. A supervisor, certified by IMSA (International Municipal Signal Association) shall be on site any time work is being performed on a traffic signal. 24-hour/day, 7-day/week contact information for the contractor staff shall be provided to Traffic Operations Representative, prior to commencing construction on-site.

2. After Note 35 above is completed, a 48-hour notification will be required at (804) 520-9371 to schedule inspection of the following items prior to work commencing:

    a. All equipment location stake out.

    b. All foundations prior to concrete pour including poles, cabinets and auxiliary equipment.

    c. All conduit connections prior to backfilling, including junction box connections.

    d. All conduit runs will be required to have a conduit mandrel pulled through them prior to wire installation.

    e. A Traffic Operations Representative must be present prior to installation or turning on of any new equipment.

    f. Traffic Operations Representative will complete an extensive review of all aspects of signal, sign and pavement marking work and any punch list items corrected prior to acceptance by the City.

LANDSCAPE PLAN STANDARD NOTES

1. Plant material sizes and grading are to comply with the latest edition of American standards for nursery stock, published by the American Nursery and Landscape Association.

2. No changes to landscape design or plant material schedule unless first approved by Colonial Heights Director of Planning and Community Development.

3. Landscaping will be installed and maintained so as not to interfere with sight distance needs of drives in the parking area and at the entrance/exit locations.

4. Plant material quantities and sizes will be inspected for compliance with approved plans by a site plan review agent of the City of Colonial Heights prior to the release of the Certificate of Occupancy.

5. The owner is responsible for maintaining shrubs and trees that are required per approved landscaping plans. Dying or dead plant materials are to be replaced during the next planting season. A 1 year maintenance bond for landscaping will be required.

6. Plant materials shall have all strings or ropes at the base of the plant cut away from the trunk (including biodegradable rope).

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

PLAN OF DEVELOPMENT STANDARD NOTES

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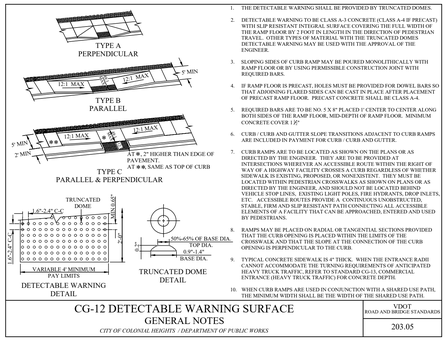
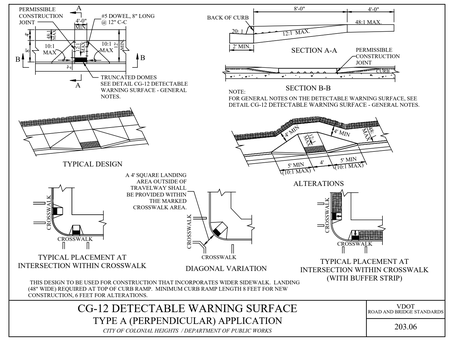
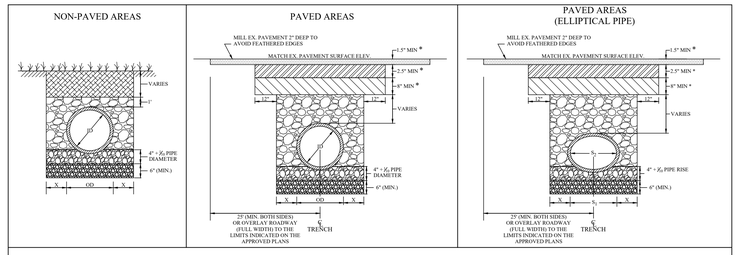


1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING TO BE CLASS A-3 CONCRETE (CLASS A-4 IF PRECAST) WITH SLIP RESISTANT INTEGRAL SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2' PAST IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. OTHER TYPES OF MATERIAL WITH THE TRUNCATED DOMES DETECTABLE WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
5. REQUIRED BARS ARE TO BE NO. 5 X 8' PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1.0".
6. CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
7. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED SO THAT THEY DO NOT CAUSE A HAZARD TO VEHICLES OR AS DIRECTED BY THE ENGINEER, AND SHOULD NOT BE LOCATED MIDBLOCK, VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
8. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
9. TYPICAL CONCRETE SIDEWALK 8" THICK. WHEN THE ENTRANCE RADII CANNOT ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC, REFER TO STANDARD CG-13, COMMERCIAL ENTRANCE (HEAVY TRUCK TRAFFIC) FOR CONCRETE DEPTH.
10. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.

CG-12 DETECTABLE WARNING SURFACE GENERAL NOTES *CITY OF COLONIAL HEIGHTS / DEPARTMENT OF PUBLIC WORKS*	VDOT ROAD AND BRIDGE STANDARDS 203.05



CG-12 DETECTABLE WARNING SURFACE TYPE A (PERPENDICULAR) APPLICATION *CITY OF COLONIAL HEIGHTS / DEPARTMENT OF PUBLIC WORKS*	VDOT ROAD AND BRIDGE STANDARDS 203.06



LEGEND

- CLASS I BACK FILL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- BEDDING MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- FOUNDATION MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
- SM-9.5A (1.5" MIN.) OR MATCH EXISTING, WHICHEVER IS GREATER.
- BM-25.0 (2.5" MIN.) OR MATCH EXISTING, WHICHEVER IS GREATER.
- 21B (8" MIN.) OR MATCH EXISTING, WHICHEVER IS GREATER.

✱ MINIMUM DEPTHS FOR FLEXIBLE PAVEMENT ON LOCAL ROADS AS SHOWN. PAVEMENT DESIGN FOR COLLECTOR AND ARTERIAL ROADS REQUIRED.

NOTES

1. OVERLAYS IN SHOULDER SECTIONS MUST BE WEDGED DOWN TO EXISTING SHOULDERS AT A 1':1' GRADE WITH MATERIAL MATCHING EXISTING CONDITIONS.
2. PLACEMENT OF PIPE IN PAVED AREAS, SAWCUT JOINTS FULL DEPTH OF ASPHALT CONCRETE. TACK JOINTS VERTICAL AND HORIZONTAL IN SURFACE COURSE. JOINTS TO BE TACKED WITH AN APPROVED LIQUID ASPHALT TACK MATERIAL BEFORE PLACEMENT. JOINTS TO BE SEALED WITH AN APPROVED LIQUID BITUMINOUS SEALER AFTER PLACEMENT.
3. METHOD "A" PIPE BEDDING SHALL BE USED FOR ALL TYPES OF PIPE CULVERTS WITHIN THE APPLICABLE HEIGHT OF COVER RANGE NOTED IN THE STANDARD PC-1 TABLES UNLESS OTHERWISE NOTED ON THE PLANS.
4. TRENCH BACKFILL DETAIL SIMILAR FOR RIGID PAVEMENT INCLUDING SIDEWALKS AND DRIVEWAYS.

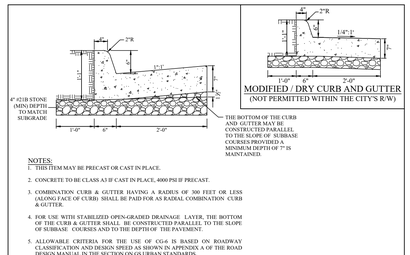
CIRCULAR PIPE

5. OD = OUTSIDE DIAMETER OF PIPE.
6. ID = INSIDE DIAMETER OF PIPE.
7. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
   X = 12" WHERE d IS LESS THAN 36".
   X = 18" WHERE d IS 36" AND GREATER.
8. WHERE DIRECTED BY THE CITY ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 36" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS AND FOR UTILITY SERVICE LATERAL CONNECTIONS.
9. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE (EXCEPT PLASTIC PIPE) 30" AND LESS IN DIAMETER WITH HEIGHT OF COVER 15' OR LESS.
10. BEDDING MATERIAL AND CLASS I BACKFILL MATERIAL MAY BE ELIMINATED FOR SHOULDER SLOT INLET (D6-13) OUTLET PIPES INSTALLATIONS.

ELLIPTICAL PIPE

1. S_1= OUTSIDE SPAN OF PIPE.
2. S_2= INSIDE SPAN OF PIPE.
3. X = WIDTH OF CLASS I BACKFILL MATERIAL BEYOND THE EXTREMITY OF THE PIPE.
   X = 12" WHERE S IS LESS THAN 36".
   X = 18" WHERE S IS 36" AND GREATER.
4. WHERE DIRECTED BY THE CITY ENGINEER, BEDDING MATERIAL MAY BE ELIMINATED FOR NORMAL EARTH FOUNDATIONS UNDER ROUTINE ENTRANCE PIPE WHERE S_2 IS 30" OR LESS AND HEIGHT OF COVER 15' OR LESS.
5. REGULAR BACKFILL MATERIAL MAY BE USED IN LIEU OF CLASS I BACKFILL MATERIAL FOR ALL FOUNDATION TYPES FOR ROUTINE ENTRANCE PIPE WHERE S_2 IS 30" OR LESS AND HEIGHT COVER 15' OR LESS.

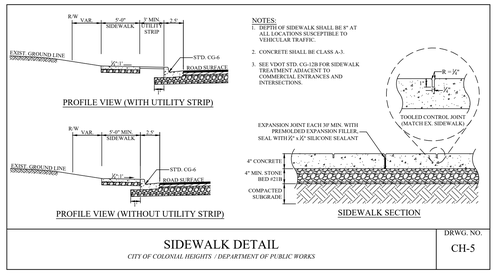
PIPE BEDDING, TRENCH BACKFILL AND PAVEMENT RESTORATION *CITY OF COLONIAL HEIGHTS / DEPARTMENT OF PUBLIC WORKS*	CH-1



NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAID FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.

STANDARD 6" CURB AND GUTTER CG-6 *CITY OF COLONIAL HEIGHTS / DEPARTMENT OF PUBLIC WORKS*	DRWG. NO. CH-3



SIDEWALK DETAIL *CITY OF COLONIAL HEIGHTS / DEPARTMENT OF PUBLIC WORKS*	DRWG. NO. CH-5

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

STANDARD DETAILS

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UTILITY NOTES:

1. All materials shall be approved by the Department of Public Works before installation.

2. City shall provide all water meters and set residential water meters. Developer shall furnish and install all other materials, including meter boxes, meter yokes, and fire hydrants. Meter yokes shall be as follows, or approved equals:

5/8" meter yokes	Ford #VHC 71-9W-11-33
1" meter yokes	Ford #VHC 74-10W-11-44
1-1/2" meter yokes	Ford #VBB 76-12B-44-66 with bypass valve cocked forward
2" meter yokes	Ford #VBB 77-12B-44-77 with bypass valve cocked forward

3. Meter boxes in non-travel areas shall be as follows:

5/8" and 1" meters	Carson (formerly Brooks) #1220 12" Jumbo (MET-2)
1-1/2" and 2" meters	Carson (formerly Brooks) #1730 24" Super Jumbo (MET-5)

5/8" and 1" meter boxes shall be installed according to City of Colonial Heights drawing MET-2, modified as follows: Front of box to be 3' ± behind back of curb.

1-1/2" and 2" meter boxes shall be installed according to City of Colonial Heights drawing MET-5, modified as follows: front of box to be 3' ± behind back of curb.

Meter box shall not be less than 24" tall and shall have ABS top with cast iron flip reader. Meters shall be centered beneath the box top flip reader.

4. Install meter boxes out of paved areas unless otherwise approved. In the event the meter box must be installed in a paved area, the Developer's Engineer shall submit a sketch of proposed traffic bearing meter box for approval by the Department of Public Works.

5. Water services from main to meter setter shall be as follows: Services to 5/8" or 1" meter setters shall be Type K soft copper and shall be installed 24" below the finished grade at the meter box and shall have flared connections. Services to 1-1/2" and 2" meter setters shall be threaded brass or Type K hard copper and shall be installed 24" below the finished grade at the meter box.

6. No splices will be allowed from main to meter in City right of way or easements. Services to be connected with corporation stops. Approved epoxy or nylon coated iron body saddles with stainless steel bolts, nuts, and double straps required on all mains.

7. Fire hydrants (FIR-4) shall be Kennedy K81-A, Mueller A-421, or approved equal and shall have 4-1/2' bury and be installed between the right of way and 24" behind the curb, and 21" to 27" from top of curb to center of 4" steamer connection. Fire hydrants shall have 5" Mueller STORZ hose connection. The 2-1/2" connection shall have Colonial Heights/Petersburg threads. Fire hydrant locations on City right of way shall be staked in the field by a Certified Land Surveyor as called for on the plans.

8. The Contractor shall be responsible for all fire flow testing and marking or new hydrants in accordance with the most current NFPA standards. A copy of the Hydrant Flow Test Report shall be submitted to the Department of Public Works for approval. A reflective yellow band shall also be applied around the hydrant between the discharge and top cap.

9. Flushing hydrant (blow off) shall be Kupferle 2" Mainguard or approved equal, installed in a Carson (formerly Brooks) #1220 Jumbo (ABS) or approved equal meter box according to the City of Colonial Heights drawing WAT-3.

10. Double check assembly and vaults that serve private structures shall be owned and maintained by the property owner.

11. Water mains shall be uniformly supported for their entire length. Where foundations are yielding, the Department of Public Works shall approve in advance the bedding according to the Pipe Bedding, Trench Backfill and Pavement Restoration detail CH-1.

12. All sanitary sewer manholes to be precast concrete with shaped inverts, and connections for pipes must be "Kor-N-Seal," or approved equal. All connections to existing manholes shall be cored and must have "Kor-N-Seal," or approved equal seals.

13. All proposed or existing sanitary sewer manholes within the development shall have an internal rubber manhole frame-chimney seal installed. A rubber seal extension shall be used to cover any additional height of chimney not covered by the seal. The rubber seal and extension shall be as manufactured by Cretex Specialty Products, or approved equal. Seals shall be installed after completion of paving.

14. Sanitary sewer manhole castings in remote areas, as determined by the Department of Public Works, shall have a Vandal Proof Manhole Frame and Cover, or approved equal see detail MAN-12.

15. All sanitary sewer manhole castings within the 100-year flood plain shall be watertight as per City of Colonial Heights MAN-12 Watertight Manhole Frame and Cover.

16. Sanitary sewer laterals in street right of way areas or City easements to be 6" diameter. Laterals to be connected to new main with tee-wye in main. Connections to existing mains shall be made with Geneco or Ford CB-1, or approved equal, sewer saddles.

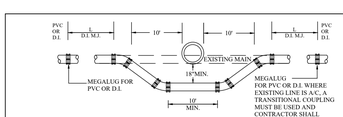
17. Cleanouts shall be installed 1' inside City right of way and City easements on all sanitary sewer laterals. See City Sewer Cleanout detail SEW-11.

18. All sanitary sewer main lines and services shall have bedding in accordance with the Pipe Bedding, Trench Backfill and Pavement Restoration detail CH-1.

19. Any existing water and sewer services that are proposed for reuse shall be uncovered by the Contractor for inspection by the Department of Public Works. If the existing line is found to be unserviceable, or it does not meet current standards, it shall be replaced in its entirety.

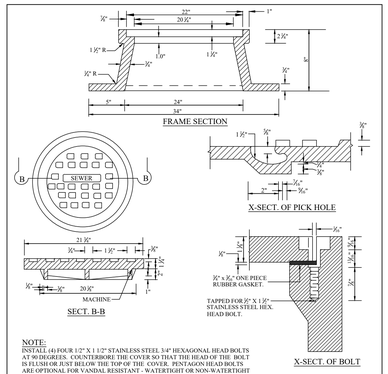
20. Private utilities that connect to City utilities shall meet City standards.

21. City inspections of private utilities that connect to City utilities shall be made. All manholes and required structures shall also be inspected to preclude infiltration and sediment from entering City lines.



1. LOWERED SECTION TO BE OF DUCTILE IRON MECHANICAL JOINT PIPE WITH RESTRAINED JOINTS AT ANY INCLUDED JOINTS. THE ENGINEER SHALL CALCULATE LENGTH OF RESTRAINED SECTION.
2. THRUST BLOCKS FOR VERTICAL BENDS MAY BE DELETED WITH RESTRAINED JOINTS.
3. UNDER VOIDS AND AROUND THE COUPLING OR THE ENDS OF THE A/C PIPE TO SUPPORT ENDS WHILE INSTALLING THE SUPPORT COUPLINGS ONTO ENDS. ie. 4x4 SALT TREATED TIMBER SUPPORT MUST BE LEFT AS A PERMANENT STABILIZATION.

LOWERING WATER MAIN OR NEW INSTALLATION	DRWG. NO. WAT-8



WATERTIGHT MANHOLE FRAME AND COVER	DRWG. NO. MAN-12

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

STANDARD UTILITY NOTES & DETAILS

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9VAC25-840-40. Minimum standards. A VESCP must be consistent with the following criteria, techniques and methods:

1. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

2. During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.

3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.

4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.

5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.

6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin. a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres. b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.

7. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.

8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.

9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. Erosion and Sediment Control Regulations 9VAC25-840 (Effective 7/1/2014)

10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.

13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.

14. All applicable federal, state and local requirements pertaining to working in or crossing live watercourses shall be met.

15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
a. No more than 500 linear feet of trench may be opened at one time.
b. Excavated material shall be placed on the uphill side of trenches.
c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
e. Restabilization shall be accomplished in accordance with this chapter.
f. Applicable safety requirements shall be complied with.

17. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger landdisturbing activities.

18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

19. Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:
a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm Erosion and Sediment Control Regulations 9VAC25-840 (Effective 7/1/2014) Page 28 of 32 sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.
b. Adequacy of all channels and pipes shall be verified in the following manner:
(1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or
(2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks.
(b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and
(c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system.
c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:
(1) Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel, the bed, or the banks; or
(2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances;
(3) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a ten-year storm to increase when runoff outfalls into a man-made channel; or
(4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.
d. The applicant shall provide evidence of permission to make the improvements.
e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.
f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.
g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
h. All on-site channels must be verified to be adequate.
i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations. Erosion and Sediment Control Regulations 9VAC25-840 (Effective 7/1/2014)
k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.
l. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or manmade channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 62.1-44.15:54 or 62.1-44.15:65 of the Act.
m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities are in accordance with 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulations.
n. Compliance with the water quantity minimum standards set out in 9VAC25-870-66 of the Virginia Stormwater Management Program (VSMP) Regulations shall be deemed to satisfy the requirements of subdivision 19 of this subsection.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. Erosion and sediment control (ESC) devices must be installed and maintained in accordance with the latest version of the Virginia Erosion and Sediment Control Handbook and the Virginia Erosion and Sediment Control Regulations.

2. All vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulation VR 625-02-00.

3. All erosion and sediment control (ESC) measures must be placed prior to, or as the first step in grading. The preliminary limits of disturbance must be the minimum necessary to allow installation of the ESC measures and should include all areas necessary for installing the initial ESC measures, including silt fence, sediment traps, diversion dikes, stockpiles, borrow areas, staging areas, etc. Disturbance outside of the preliminary limits of land disturbance may not occur until the Department of Public Works has approved the ESC measure installation. If additional ESC devices are found necessary during construction, they must be installed as directed by the Department of Public Works.

4. Unless otherwise approved by the Department of Public Works, all runoff must drain to a sediment basin or trap during all phases of construction.

5. A construction entrance must be constructed and properly maintained in accordance with Std. & Spec. 3.05 - Construction Entrance, in the latest version of the Virginia Erosion and Sediment Control Handbook. If mud tracking becomes a problem, the Department of Public Works will require additional measures (i.e. wash rack).

6. If dust becomes a problem during construction, a water truck will be required on-site at all times, and dust must be controlled in accordance with Std. & Spec. 3.39 - Dust Control, in the latest version of the Virginia Erosion and Sediment Control Handbook.

7. Dewatering of footings, excavated trenches, sediment basins/traps, etc. must be done in accordance with Std. & Spec. 3.26 - Dewatering Structure, in the latest version of the Virginia Erosion and Sediment Control Handbook. The Department of Public Works must approve the method prior to beginning dewatering.

8. All activities on the site must comply with Chapter 241 of the City of Colonial Heights Code and the current Virginia Erosion and Sediment Control Handbook.

9. All temporary stockpile locations must be shown on the plan.

10. In subdivision developments, temporary sediment basins/traps must remain in place until all disturbed areas are stabilized. Sediment basins/traps cannot be removed without approval of the Department of Public Works. Once the temporary sediment basin/traps have been removed, the developer, contractor, and/or homebuilder are responsible for erosion and sediment control on individual lots until stabilization is achieved.

11. In the event a contractor dumps, discharges or spills any oil or chemical that reaches or has the potential to reach a waterway, the contractor shall immediately notify all appropriate jurisdictional agencies (State, Federal, and Department of Public Works (520-9334)) and shall take immediate actions for containment and removal of the oil or chemical.

UTILITY NOTES:

1. All storm and sanitary sewer lines not in streets are to be mulched and seeded within 7 days after backfill. No more than 500 feet of trench is to be open at one time.

2. All construction discharge water shall be adequately filtered to remove silt prior to discharge into waterways and wetlands.

STREAM CROSSINGS / DIVERSIONS:

1. No motorized equipment will at any time be within a waterway unless supported by floatation equipment or a temporary construction pad composed of clean non-erodible material (rocks, rip-rap, mats).

2. All stream crossings and stream diversions require approval from the Department of Public Works prior to any in-stream work.

LIME / FERTILIZER:

1. The area to be seeded shall first be treated with commercial 10-10-10 fertilizer at the rate of 30 lbs. per 1000 sq.ft. and treated with agricultural lime at the rate of 100 lbs. per 1000 sq.ft., which shall be uniformly worked into the surface to a minimum depth of 1 inch.

SEEDING NOTES:

1. All stabilization/seeding will be accomplished in accordance with the Virginia Erosion and Sedimentation Control Handbook.

2. Any disturbed area not paved, sodded, or built upon, will have a vegetative cover prior to final inspection, and in the opinion of the Department of Public Works will be mature enough to control soil erosion satisfactorily and survive sever weather conditions.

3. Stream diversion areas, waterways, banks and related areas will be seeded and mulched immediately after work in watercourse is completed.

4. Winterization - any disturbed area not paved, sodded or built upon by October 15 is to be seeded and mulched on that date unless waived by the Department of Public Works.

5. All wetlands temporarily disturbed during construction will be restored to their original elevation, by removing excess material, grading and seeding with a wetland seed mix. In no case shall wetland areas be reseeded with any species of fescue.

6. Temporary seeding will be applied within 7 days to denuded areas which may not be at final grade but will remain dormant (undisturbed) for longer than 30 days. For temporary seeding use 50% of the recommended rates of fertilizer, lime and full amount of seed and mulch required for regular seeding.

7. Electric power, telephone, and gas supply trenches are to be compacted, seeded and mulched within 7 days after backfill.

8. Before sowing seed, rake surfaces to eliminate depressions and ridges. Once seed is sown, lightly rake in order to cover the seed no deeper than ¼", and water. Seeded surfaces shall be covered with straw or hay to prevent erosion and protect seeding. Contractor is responsible for protecting seeded surfaces until a good stand of grass is established.

9. The "Hydro-Seeding" method may be used, provided the seed rate per square foot is the same as specified. The mulch rate shall be such as to provide proper seed protection and prevent erosion. If the mulch rate is not sufficient , as evidenced by slopes after spraying, then the Department of Public Works may require the Contractor to increase the amount of mulch in the mix. No extra will be allowed.

TEMPORARY SEEDING:

Planting Dates (lbs./acre)	Species	Rate
Sept. 1 - Feb. 15	5/9 Mix of Annual Ryegrass (Lolium multi-florum) and Cereal (Winter) Rye (Secale cereale)	50 -100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug. 31	German Millet (Setaria italica)	50

PERMANENT SEEDING:

Minimum Care Lawn (lbs./acre)	Total
• Kentucky 31 or Turf-Type Tall Fescue **or**	175 -200 lbs.
• Common Bermudagrass **	75 lbs.

High Maintenance Lawn	
• Kentucky 31 or Turf-Type Tall Fescue **or**	200-250 lbs.
• Hybrid Bermudagrass (seed) ** **or** (unhulled)	40 lbs.
• Hybrid Bermudagrass (by other vegetative establishment method, see the Va. E&S Control Handbook Std. & Spec. 3.34)	30 lbs. (hulled)

General Slope (3:1 or less)	
• Kentucky 31 Fescue	128 lbs.
• Red Top Grass	2 lbs.
• Seasonal Nurse Crop *	20 lbs.
	150 lbs.

Low Maintenance Slope (Steeper than 3:1)	
• Kentucky 31 Tall Fescue	93-108 lbs.
• Common Bermudagrass **	0-15 lbs
• Red Top Grass	2 lbs.
• Seasonal Nurse Crop *	20 lbs.
• Sericea Lespedeza **	20 lbs.
	150 lbs.

* Use seasonal nurse crop in accordance with seeding dates as stated below:
February, March - April ..... Annual Rye
May 1st - August ..... Foxtail Millet
September, October - November 5th ..... Annual Rye
November 16th - January ..... Winter Rye

** May through October, use hulled seed. All other seeding periods, use unhulled seed. Weeping Lovegrass may be added to any slope or low maintenance mix during warmer seeding periods; as 10-20 lbs./acre in mixes.

RESOURCE PROTECTION AREAS, STREAM PROTECTION AREAS, WETLANDS, AND WATERS OF THE U.S.

1. Prior to beginning any land disturbing activity, all Resource Protection Areas (RPAs), Stream Protection Areas (SPAs), wetlands, and Waters of the U.S. (WOUS) not permitted for impact shall be delineated for protection with flagging and optic orange safety fence Spec 3.01. This includes but is not limited to clearing limits associated with roadways, utilities, and buildings.

2. Additional restoration or replanting may be required for RPAs, SPAs, wetlands, and WOUS disturbed during construction.

RPA AND WETLAND RESTORATION FOR PERMANENT EASEMENTS:

- All permanent easements disturbed within the RPA or wetlands shall be seeded with a grass mixture of 20% Buckwheat, 20% Brown Top Millet, 20% German Top Millet, 20% Annual Rye Grass, 10% Poa Trivalis, 5% Switch Grass, 5% Red Top Grass at 50 lbs/acre.

RPA AND WETLAND RESTORATION PLAN FOR SANITARY SEWER LATERALS:

- All sanitary sewer lateral disturbance within the RPA or wetlands, but outside the permanent easement, shall be restored with similar vegetation. If shrubs and trees were removed, they shall be replaced at equal density with the following options:
  - Medium to large trees - Persimmon, Sweetgum or Southern Red Oak.
  - Small trees - Flowering Dogwood, Silky Dogwood or Sweet Magnolia.
  - Shrubs - Red Chockcherry, Greystem Dogwood or Witch Hazel.
  - Low shrubs or groundcovers - Bearberry or Virginia Bluebells.
- If a grass area was disturbed, it shall be replaced with a seed mixture of 26% Big Bluestem, 40% Indian Woodoats, 6% Switch Grass, 14% Little Bluestem and 14% Indian Grass at 40 lbs/acre.

CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) POLICY

As a prerequisite to engaging in the land-disturbing activities shown on this plan, the individual responsible for carrying out the plan and holding a certificate of competence shall be identified (the CRLD).

The CRLD will:
1. Attend the Pre-Construction meeting and sign the approved plans;

2. Inspect the ESC measures at least once every two weeks, or within 48 hours of any runoff producing storm event;

3. For projects with site area of 1 acre or greater, submit inspection reports using standard DCR forms;

4. Coordinate the implementation and maintenance of all erosion and sediment control measures in accordance with the approved plan.

BMP INSPECTIONS / CERTIFICATIONS

1. Inspections of proposed BMPs must be conducted at two phases of construction - "rough grading" and "final conformance". Department of Public Works staff, the Developer or his/her representative, and the Developer's Engineer should be present at the inspections.

2. The Developer or his/her representative is responsible for notifying the Department of Public Works at the appropriate times during construction when the inspections should occur. Failure to request the inspections may result in delay of final acceptance of the BMP. Three inches of topsoil is required for areas of the BMP that will be stabilized with vegetation.

3. The Developer's Engineer/Surveyor will provide a letter of conformance once the final conformance inspection has been performed and all issues resolved.

4. Prior to release of the Erosion and Sediment Control bond, the Developer's Engineer/Surveyor will provide a BMP Certification using standard City forms.

ENVIRONMENTAL SITE ASSESSMENT INFORMATION:

Resource Protection Areas (RPA):

1.	Is there a perennial stream located on this parcel?	☐ Yes ☒ No
2.	Are there any tidal wetlands present on the parcel?	☐ Yes ☒ No
3.	Are there any non-tidal wetlands connected by surface flow and contiguous to tidal wetlands or tributary streams?	☐ Yes ☒ No
4.	Are there any tidal shores on the parcel?	☐ Yes ☒ No
5.	Does the site lie within 100' of any of the above site characteristics designated as Resource Protection Areas (RPA)?	☐ Yes ☒ No

If the answer to any of the above questions is Yes, the parcel contains a Resource Protection Area (RPA).

Resource Management Areas:

6.	Are there any base flood hazard areas (100-year floodplain) on the parcel?	☐ Yes ☒ No
7.	Are highly erodible soils, including steep slopes, present on the parcel and contiguous to any of the above RPA features ?	☐ Yes ☒ No
8.	Does the parcel contain any highly permeable soils contiguous to an RPA?	☐ Yes ☒ No
9.	Does any portion of the parcel lie within 100' of a (RPA)?	☐ Yes ☒ No
10.	Does the entire site (outside of the RPA) lie within a Resource Management Area?	☐ Yes ☒ No

Other Environmental site information:

11.	Are there any wetlands/waters of the United States on the parcel?	☐ Yes ☒ No
12.	Is development or land disturbance proposed in wetlands/waters of the United States?	☐ Yes ☒ No

Parcels containing RPAs/RMAs must satisfy all requirements of the City of Colonial Heights Code applicable to development within Chesapeake Bay Preservation Areas. Land disturbance in wetlands and/or waters of the United States requires either evidence of U.S. Army Corps of Engineers/Department of Environmental Quality (DEQ) permits or a certification from a Principal in the engineering firm that proposed wetland impacts are authorized by law.

I hereby certify that the above information is based on a field visit performed on 02/14/2022 and that I have reviewed all maps and other documentation deemed necessary to certify the accuracy of this information.

Signature: _____ Date: 05/04/2022

Name (Please Print): Charlene Harper, PE, PLA, LEED AP

Virginia License or Certificate Number: 036009

ACKNOWLEDGMENTS:

I hereby acknowledge that prior to any land-disturbing activity, all buffer areas and wetlands as defined in the City of Colonial Heights Code shall be conspicuously flagged or otherwise identified and not disturbed unless authorized by law, and the applicant shall notify the Department of Public Works upon completion of flagging. (Contact the Department of Public Works at 520-9334 to arrange a pre-construction meeting to verify limits of flagging).

I hereby certify that no more land is being disturbed than is necessary to provide for the desired development use.

I hereby certify that all erosion and sediment control measures shall be maintained, and the owner and/or agent and CRLD will inspect the erosion and sediment control measures at least once every two week period, and within 48 hours following rainstorm events during construction to ensure continued compliance with the approved plan. Records of self-inspection shall be maintained on the site and available for review by the Department of Public Works.

I hereby acknowledge that the U.S. Army Corps of Engineers / DEQ may have additional jurisdiction over wetlands not regulated by the City of Colonial Heights.

I hereby acknowledge that a Virginia Stormwater Management (VSMP) permit application and fee form have been submitted to the Department of Public Works, if required.

Signature (Owner/Developer): _____ Date: June 2, 2022

Name (Please Print): Kenneth R. Hallett

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CHARLENE A HARPER
Lic. No. 036009
07/01/2022
PROFESSIONAL ENGINEER

HG design studio
landscape architecture
land planning / civil engineering
www.hgdesignstudio.com

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL NOTES

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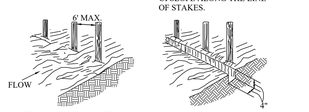
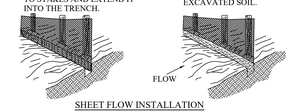
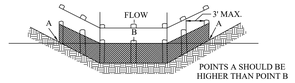
1. SET THE STAKES.
2. EXCAVATE A 4"X4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



SHEET FLOW INSTALLATION
(PERSPECTIVE VIEW)



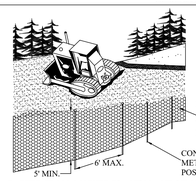
DRAINAGEWAY INSTALLATION
(FRONT ELEVATION)

SILT FENCE (WITHOUT WIRE SUPPORT)
VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.05

TABLE 3.01-A

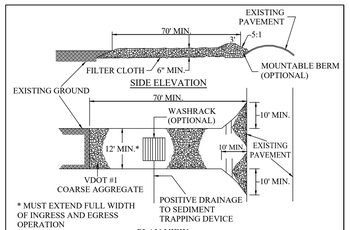
PHYSICAL PROPERTIES OF PLASTIC SAFETY FENCE

Physical Property	Test	Requirements
Recommended color	N/A	"International" orange
Tensile yield	ASTM D638	Average 2000 lbs. per 4ft. width
Ultimate tensile strength	ASTM D638	Average 2000 lbs. per 4ft. width
Elongation at break (%)	ASTM D638	Greater than 1000%
Chemical resistance	N/A	Inert to most chemicals and acids

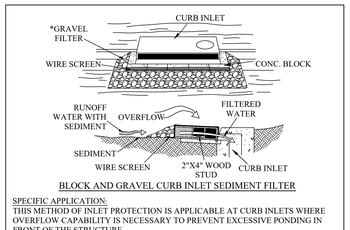


ADAPTED FROM CONWED PLASTICS AND VDOT
ROAD AND BRIDGE STANDARDS

SAFETY FENCE
SEE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.01



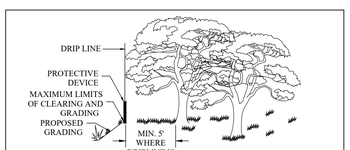
CONSTRUCTION ENTRANCE
SEE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.02



BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER

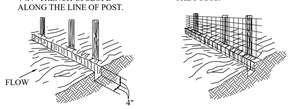
SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.
*GRAVEL SHALL BE VDOT #3, #357, OR #5 COARSE AGGREGATE

CURB INLET PROTECTION
SEE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.07-8

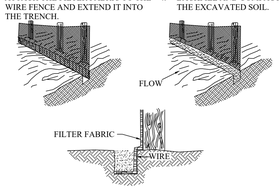


TREE PROTECTION
SEE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.38

1. SET POST AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POST.
2. STAPLE WIRE FENCE TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



EXTENSION OF FABRIC AND WIRE INTO THE TRENCH

SILT FENCE (WITH WIRE SUPPORT)
SEE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
PLATE 3.05-1

OUTFALL ADEQUACY

In accordance with Minimum Standard 19 of the Erosion and Sediment Control Regulations, adequacy of off-site receiving channels or pipes must be verified by addressing one of the following Adequacy Situations:

A. The drainage area from the project at the discharge point is less than or equal to one percent of the total drainage area at the discharge point and the 10-year storm is contained within the channel banks (Project Drainage Area and Total Drainage Area are required),

OR

B. Natural channels must be analyzed to demonstrate that the 2-year storm will not cause erosion of the channel bed or banks ($Q_{Capacity}$, Q_2, $V_{Allowable}$, and V_2 are required),

OR

C. Man-made channels must be analyzed to demonstrate that (1) the 10-year storm will not overtop the channel banks and (2) the 2-year storm will not cause erosion of the channel bed or banks ($Q_{Capacity}$, Q_2, Q_{10}, $V_{Allowable}$, and V_2 are required),

OR

D. Pipes and storm sewer systems must be analyzed to demonstrate that the ten-year storm will be contained within the system ($Q_{Capacity}$, Q_{10}, and hydraulic grade line calculations are required),

OR

E. Runoff is discharged through an energy dissipator at the limits of the 100-year floodplain, RPA buffer or SPA buffer.

Discharge Point	Adequacy Situation	Project Drainage Area	Total Drainage Area	Q_2	V_2	Q_{10}	$V_{Allowable}$	$Q_{Capacity}$	Cross Section, Profile and Calculations Shown on Sheet(s)
EX #4	A	2.21	60.61			60.69	10.06	62.19	C8.00

Discharge Point = unique identifier for the discharge point
Adequacy Situation = either A, B, C, D, or E as described above
Project Drainage Area = drainage area of the project that drains to the discharge point (ac.)
Total Drainage Area = total drainage area to the discharge point in (ac.)
$Q_{Capacity}$ = carrying capacity of the channel or pipe in cfs
Q_2 = peak discharge at the discharge point for the 2-year storms (cfs)
Q_{10} = peak discharge at the discharge point for the 10-year storms (cfs)
$V_{Allowable}$ = max. velocity the channel lining can withstand without eroding (fps)
V_2 = velocity at the discharge point for the 2-year storm (fps)

Generally, scaled channel cross-sections must be provided every fifty (50) feet and at the most constricted locations of all outfall channels for a minimum of 150 feet of profile.

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COMMONWEALTH OF VIRGINIA
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landscape architecture
civil engineering
environmental planning

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL DETAILS

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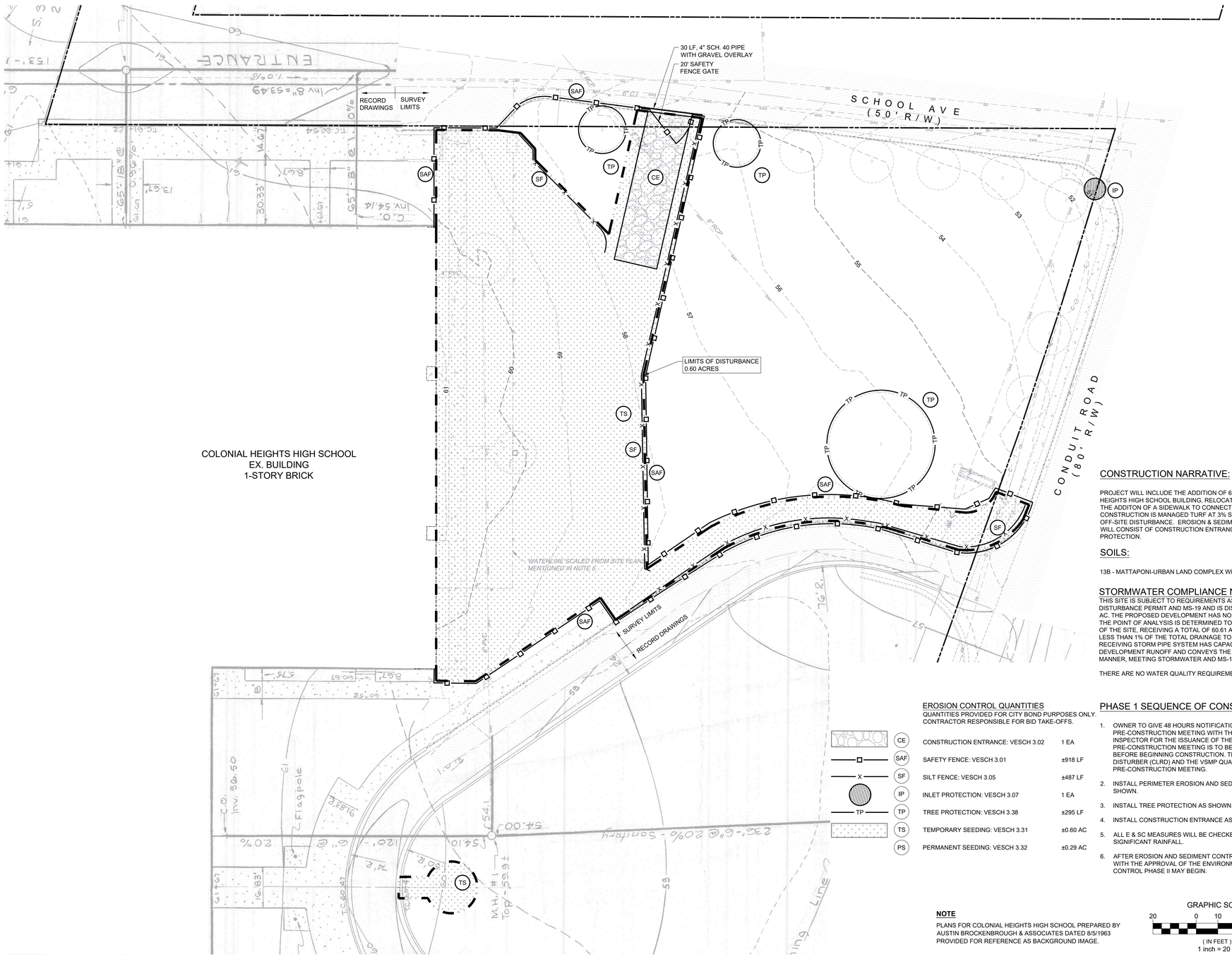

CONSTRUCTION NARRATIVE:

PROJECT WILL INCLUDE THE ADDITION OF 6,884 SF TO EXISTING COLONIAL HEIGHTS HIGH SCHOOL BUILDING, RELOCATION OF SEVERAL UTILITIES, AND THE ADDITON OF A SIDEWALK TO CONNECT TO CONDUIT ROAD. THE AREA OF CONSTRUCTION IS MANAGED TURF AT 3% SLOPE. THERE WILL BE NO OFF-SITE DISTURBANCE. EROSION & SEDIMENT CONTROL MEASURES USED WILL CONSIST OF CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION.

SOILS:

13B - MATTAPONI-URBAN LAND COMPLEX WITH 0 TO 6 PERCENT SLOPES.

STORMWATER COMPLIANCE NOTE

THIS SITE IS SUBJECT TO REQUIREMENTS ASSOCIATED WITH A LAND DISTURBANCE PERMIT AND MS-19 AND IS DISTURBING APPROXIMATELY 0.60 AC. THE PROPOSED DEVELOPMENT HAS NO CHESAPEAKE BAY DISTURBANCE THE POINT OF ANALYSIS IS DETERMINED TO BE A 36" PIPE (EX4) DOWNSTREAM OF THE SITE, RECEIVING A TOTAL OF 60.61 ACRES OF DRAINAGE. THE SITE IS LESS THAN 1% OF THE TOTAL DRAINAGE TO THE POINT OF ANALYSIS. THE RECEIVING STORM PIPE SYSTEM HAS CAPACITY TO RECEIVE THE PROPOSED DEVELOPMENT RUNOFF AND CONVEYS THE RUNOFF IN A NON-EROSIVE MANNER, MEETING STORMWATER AND MS-19 REQUIREMENTS.

THERE ARE NO WATER QUALITY REQUIREMENTS FOR THIS SITE.

EROSION CONTROL QUANTITIES

QUANTITIES PROVIDED FOR CITY BOND PURPOSES ONLY. CONTRACTOR RESPONSIBLE FOR BID TAKE-OFFS.

CE	CONSTRUCTION ENTRANCE: VESCH 3.02	1 EA
SAF	SAFETY FENCE: VESCH 3.01	±918 LF
SF	SILT FENCE: VESCH 3.05	±487 LF
IP	INLET PROTECTION: VESCH 3.07	1 EA
TP	TREE PROTECTION: VESCH 3.38	±295 LF
TS	TEMPORARY SEEDING: VESCH 3.31	±0.60 AC
PS	PERMANENT SEEDING: VESCH 3.32	±0.29 AC

PHASE 1 SEQUENCE OF CONSTRUCTION:

1. OWNER TO GIVE 48 HOURS NOTIFICATION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE ENGINEER AND ENVIRONMENTAL INSPECTOR FOR THE ISSUANCE OF THE LAND DISTURBANCE PERMIT. THE PRE-CONSTRUCTION MEETING IS TO BE HELD AT LEAST 72 HOURS BEFORE BEGINNING CONSTRUCTION. THE CERTIFIED RESPONSIBLE LAND DISTURBER (CLRD) AND THE VSMP QUALIFIED PERSON MUST ATTEND THE PRE-CONSTRUCTION MEETING.
2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN.
3. INSTALL TREE PROTECTION AS SHOWN.
4. INSTALL CONSTRUCTION ENTRANCE AS SHOWN. INSTALL SWPPP ITEMS.
5. ALL E & SC MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.
6. AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, AND WITH THE APPROVAL OF THE ENVIRONMENTAL INSPECTOR, EROSION CONTROL PHASE II MAY BEGIN.

NOTE

PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL PREPARED BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963 PROVIDED FOR REFERENCE AS BACKGROUND IMAGE.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

NORTH
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MOSELEY ARCHITECTS
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COMMONWEALTH OF VIRGINIA
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07/01/2022

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landscape architecture

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL PLAN PH 1

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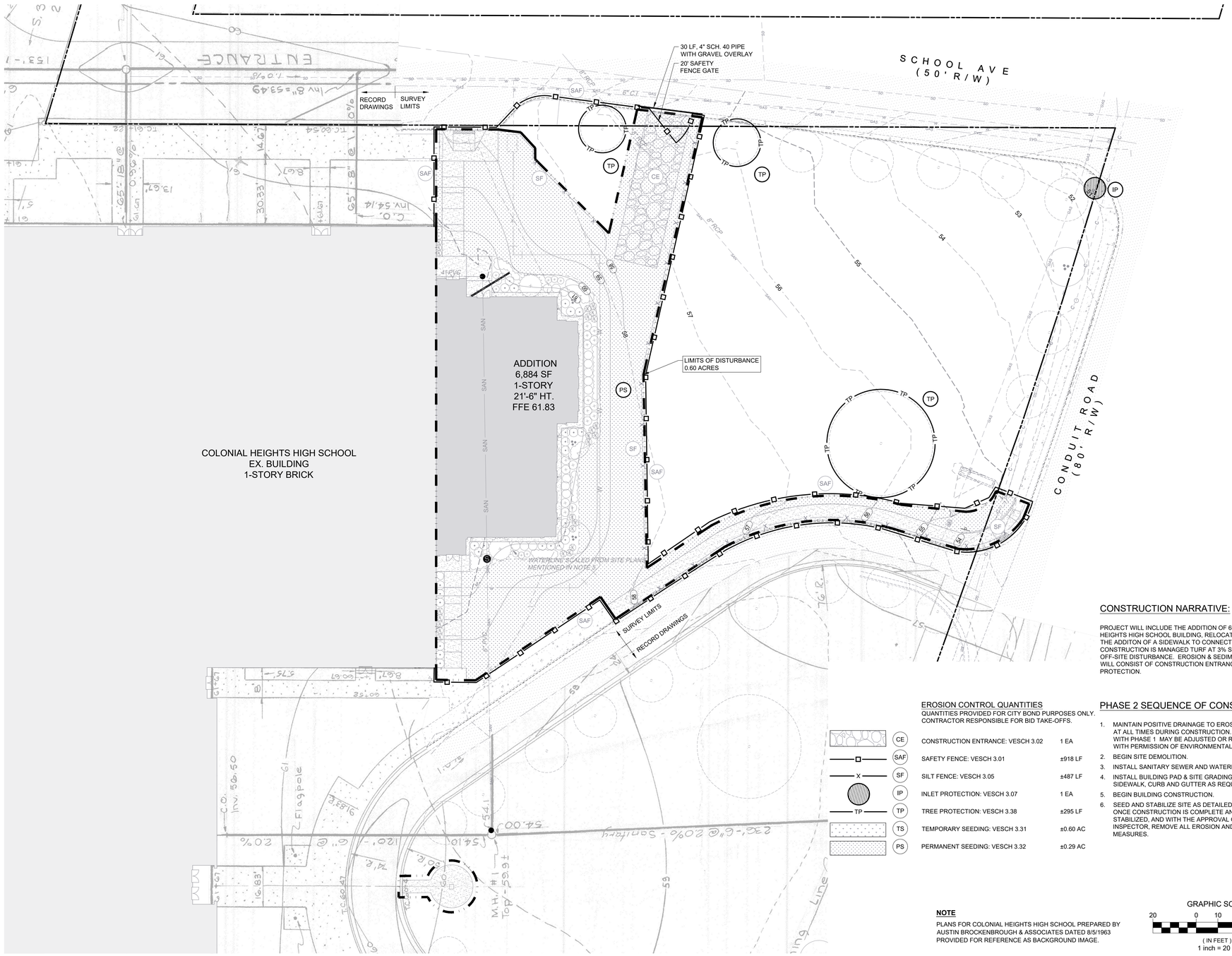

CONSTRUCTION NARRATIVE:

PROJECT WILL INCLUDE THE ADDITION OF 6,884 SF TO EXISTING COLONIAL HEIGHTS HIGH SCHOOL BUILDING, RELOCATION OF SEVERAL UTILITIES, AND THE ADDITON OF A SIDEWALK TO CONNECT TO CONDUIT ROAD. THE AREA OF CONSTRUCTION IS MANAGED TURF AT 3% SLOPE. THERE WILL BE NO OFF-SITE DISTURBANCE. EROSION & SEDIMENT CONTROL MEASURES USED WILL CONSIST OF CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION.

EROSION CONTROL QUANTITIES

QUANTITIES PROVIDED FOR CITY BOND PURPOSES ONLY. CONTRACTOR RESPONSIBLE FOR BID TAKE-OFFS.

CE	CONSTRUCTION ENTRANCE: VESCH 3.02	1 EA
SAF	SAFETY FENCE: VESCH 3.01	±918 LF
SF	SILT FENCE: VESCH 3.05	±487 LF
IP	INLET PROTECTION: VESCH 3.07	1 EA
TP	TREE PROTECTION: VESCH 3.38	±295 LF
TS	TEMPORARY SEEDING: VESCH 3.31	±0.60 AC
PS	PERMANENT SEEDING: VESCH 3.32	±0.29 AC

PHASE 2 SEQUENCE OF CONSTRUCTION:

1. MAINTAIN POSITIVE DRAINAGE TO EROSION CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. CONTROLS INSTALLED WITH PHASE 1 MAY BE ADJUSTED OR REMOVED AS NOTED AND/OR WITH PERMISSION OF ENVIRONMENTAL INSPECTOR.
2. BEGIN SITE DEMOLITION.
3. INSTALL SANITARY SEWER AND WATERLINE, AS SHOWN.
4. INSTALL BUILDING PAD & SITE GRADING AS SHOWN. INSTALL SIDEWALK, CURB AND GUTTER AS REQUIRED.
5. BEGIN BUILDING CONSTRUCTION.
6. SEED AND STABILIZE SITE AS DETAILED ON LANDSCAPE PLANS. ONCE CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED, AND WITH THE APPROVAL OF THE ENVIRONMENTAL INSPECTOR, REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES.

NOTE

PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL PREPARED BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963 PROVIDED FOR REFERENCE AS BACKGROUND IMAGE.

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
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EROSION & SEDIMENT CONTROL PLAN PH 2

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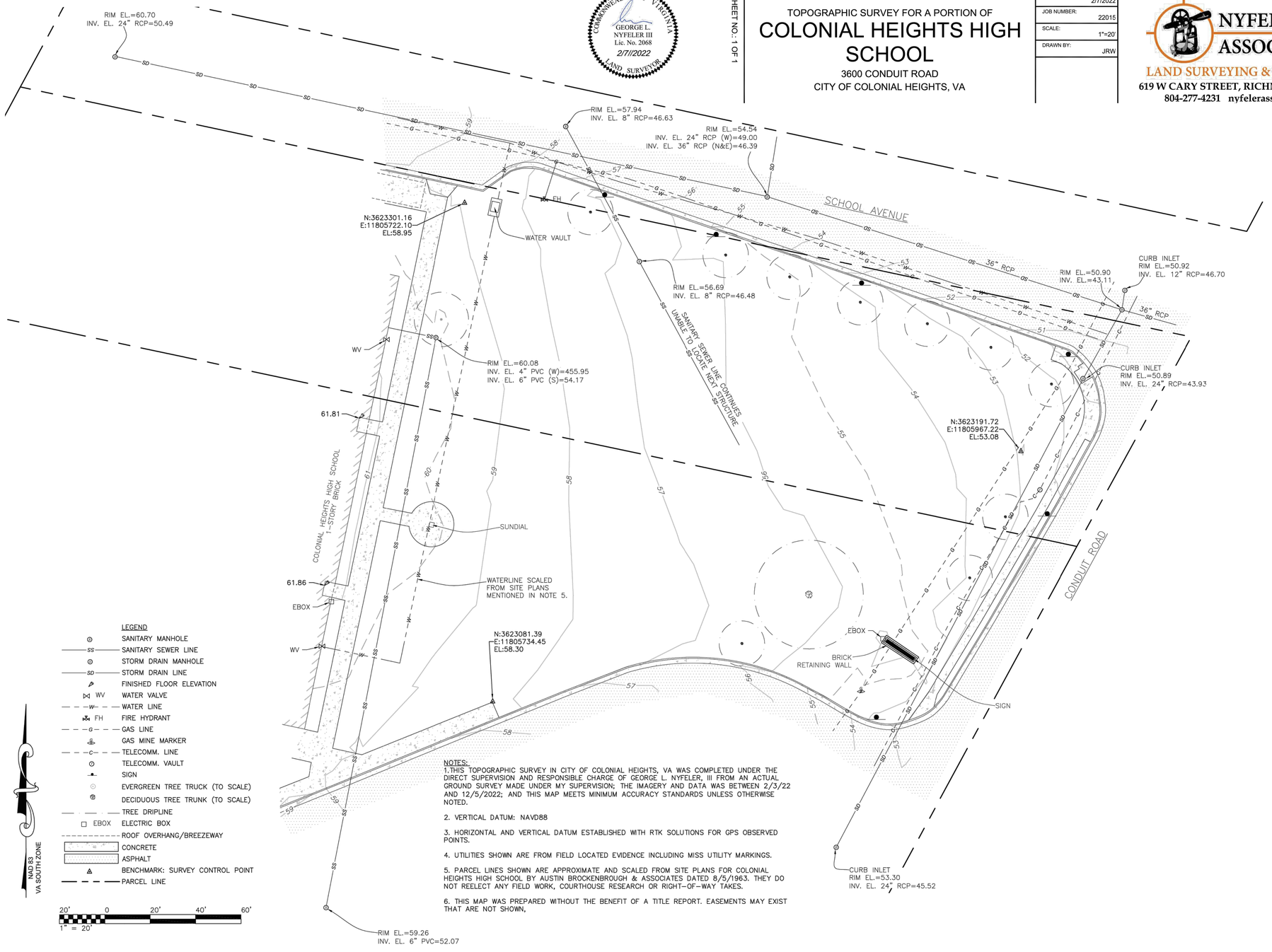

LEGEND

- SANITARY MANHOLE
- SS — SANITARY SEWER LINE
- STORM DRAIN MANHOLE
- SD — STORM DRAIN LINE
- FINISHED FLOOR ELEVATION
- WV — WATER VALVE
- W — WATER LINE
- FH — FIRE HYDRANT
- G — GAS LINE
- GAS MINE MARKER
- C — TELECOMM. LINE
- TELECOMM. VAULT
- SIGN
- EVERGREEN TREE TRUCK (TO SCALE)
- DECIDUOUS TREE TRUNK (TO SCALE)
- TREE DRIPLINE
- EBOX — ELECTRIC BOX
- ROOF OVERHANG/BREEZEWAY
- CONCRETE
- ASPHALT
- BENCHMARK: SURVEY CONTROL POINT
- PARCEL LINE

NAD 83
VA SOUTH ZONE

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

NOTES:

1. THIS TOPOGRAPHIC SURVEY IN CITY OF COLONIAL HEIGHTS, VA WAS COMPLETED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF GEORGE L. NYFELER, III FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THE IMAGERY AND DATA WAS BETWEEN 2/3/22 AND 12/5/2022; AND THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

2. VERTICAL DATUM: NAVD88

3. HORIZONTAL AND VERTICAL DATUM ESTABLISHED WITH RTK SOLUTIONS FOR GPS OBSERVED POINTS.

4. UTILITIES SHOWN ARE FROM FIELD LOCATED EVIDENCE INCLUDING MISS UTILITY MARKINGS.

5. PARCEL LINES SHOWN ARE APPROXIMATE AND SCALED FROM SITE PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963. THEY DO NOT REELECT ANY FIELD WORK, COURTHOUSE RESEARCH OR RIGHT-OF-WAY TAKES.

6. THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS MAY EXIST THAT ARE NOT SHOWN,

COMMONWEALTH OF VIRGINIA
GEORGE L. NYFELER III
Lic. No. 2068
2/7/2022
LAND SURVEYOR

SHEET NO.: 1 OF 1

TOPOGRAPHIC SURVEY FOR A PORTION OF

COLONIAL HEIGHTS HIGH SCHOOL

3600 CONDUIT ROAD
CITY OF COLONIAL HEIGHTS, VA

DATE:	2/7/2022
JOB NUMBER:	22015
SCALE:	1"=20'
DRAWN BY:	JRW

NYFELER ASSOCIATES
LAND SURVEYING & MAPPING
619 W CARY STREET, RICHMOND, VA 23220
804-277-4231 nyfelerassociates.com

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COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
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REVISIONS	
DATE	DESCRIPTION

SURVEY CERTIFICATION PLAN

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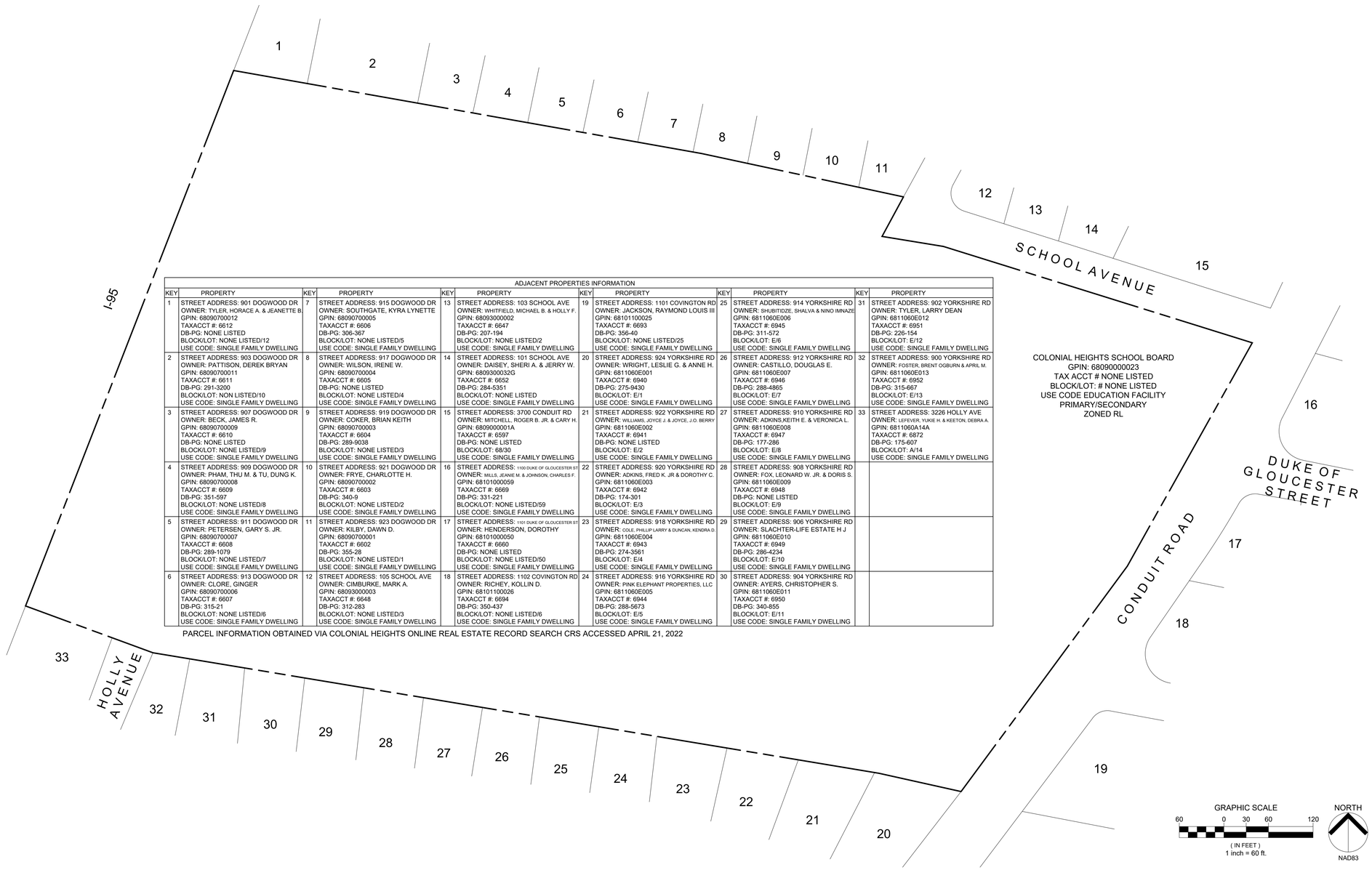

ADJACENT PROPERTIES INFORMATION

KEY	PROPERTY	KEY	PROPERTY	KEY	PROPERTY	KEY	PROPERTY	KEY	PROPERTY	KEY	PROPERTY
1	STREET ADDRESS: 901 DOGWOOD DR OWNER: TYLER, HORACE A. & JEANETTE B GPIN: 68090700012 TAXACCT #: 6612 DB-PG: NONE LISTED BLOCK/LOT: NONE LISTED/12 USE CODE: SINGLE FAMILY DWELLING	7	STREET ADDRESS: 915 DOGWOOD DR OWNER: SOUTHGATE, KYRA LYNETTE GPIN: 68090700005 TAXACCT #: 6606 DB-PG: 306-367 BLOCK/LOT: NONE LISTED/5 USE CODE: SINGLE FAMILY DWELLING	13	STREET ADDRESS: 103 SCHOOL AVE OWNER: WHITFIELD, MICHAEL B. & HOLLY F. GPIN: 68093000002 TAXACCT #: 6647 DB-PG: 207-194 BLOCK/LOT: NONE LISTED/2 USE CODE: SINGLE FAMILY DWELLING	19	STREET ADDRESS: 1101 COVINGTON RD OWNER: JACKSON, RAYMOND LOUIS III GPIN: 68101100025 TAXACCT #: 6693 DB-PG: 356-40 BLOCK/LOT: NONE LISTED/25 USE CODE: SINGLE FAMILY DWELLING	25	STREET ADDRESS: 914 YORKSHIRE RD OWNER: SHUBITIDZE, SHALVA & NINO IMNAZE GPIN: 6811060E006 TAXACCT #: 6945 DB-PG: 311-572 BLOCK/LOT: E/6 USE CODE: SINGLE FAMILY DWELLING	31	STREET ADDRESS: 902 YORKSHIRE RD OWNER: TYLER, LARRY DEAN GPIN: 6811060E012 TAXACCT #: 6951 DB-PG: 226-154 BLOCK/LOT: E/12 USE CODE: SINGLE FAMILY DWELLING
2	STREET ADDRESS: 903 DOGWOOD DR OWNER: PATTISON, DEREK BRYAN GPIN: 68090700011 TAXACCT #: 6611 DB-PG: 291-3200 BLOCK/LOT: NON LISTED/10 USE CODE: SINGLE FAMILY DWELLING	8	STREET ADDRESS: 917 DOGWOOD DR OWNER: WILSON, IRENE W. GPIN: 68090700004 TAXACCT #: 6605 DB-PG: NONE LISTED BLOCK/LOT: NONE LISTED/4 USE CODE: SINGLE FAMILY DWELLING	14	STREET ADDRESS: 101 SCHOOL AVE OWNER: DAISEY, SHERI A. & JERRY W. GPIN: 6809300032G TAXACCT #: 6652 DB-PG: 284-5351 BLOCK/LOT: NONE LISTED USE CODE: SINGLE FAMILY DWELLING	20	STREET ADDRESS: 924 YORKSHIRE RD OWNER: WRIGHT, LESLIE G. & ANNE H. GPIN: 6811060E001 TAXACCT #: 6940 DB-PG: 275-9430 BLOCK/LOT: E/1 USE CODE: SINGLE FAMILY DWELLING	26	STREET ADDRESS: 912 YORKSHIRE RD OWNER: CASTILLO, DOUGLAS E. GPIN: 6811060E007 TAXACCT #: 6946 DB-PG: 288-4865 BLOCK/LOT: E/7 USE CODE: SINGLE FAMILY DWELLING	32	STREET ADDRESS: 900 YORKSHIRE RD OWNER: FOSTER, BRENT OGBURN & APRIL M. GPIN: 6811060E013 TAXACCT #: 6952 DB-PG: 315-667 BLOCK/LOT: E/13 USE CODE: SINGLE FAMILY DWELLING
3	STREET ADDRESS: 907 DOGWOOD DR OWNER: BECK, JAMES R. GPIN: 68090700009 TAXACCT #: 6610 DB-PG: NONE LISTED BLOCK/LOT: NONE LISTED/9 USE CODE: SINGLE FAMILY DWELLING	9	STREET ADDRESS: 919 DOGWOOD DR OWNER: COKER, BRIAN KEITH GPIN: 68090700003 TAXACCT #: 6604 DB-PG: 289-9038 BLOCK/LOT: NONE LISTED/3 USE CODE: SINGLE FAMILY DWELLING	15	STREET ADDRESS: 3700 CONDUIT RD OWNER: MITCHELL, ROGER B. JR. & CARY H. GPIN: 6809000001A TAXACCT #: 6597 DB-PG: NONE LISTED BLOCK/LOT: 68/30 USE CODE: SINGLE FAMILY DWELLING	21	STREET ADDRESS: 922 YORKSHIRE RD OWNER: WILLIAMS, JOYCE J. & JOYCE, J.O. BERRY GPIN: 6811060E002 TAXACCT #: 6941 DB-PG: NONE LISTED BLOCK/LOT: E/2 USE CODE: SINGLE FAMILY DWELLING	27	STREET ADDRESS: 910 YORKSHIRE RD OWNER: ADKINS,KEITH E. & VERONICA L. GPIN: 6811060E008 TAXACCT #: 6947 DB-PG: 177-286 BLOCK/LOT: E/8 USE CODE: SINGLE FAMILY DWELLING	33	STREET ADDRESS: 3226 HOLLY AVE OWNER: LEFEVER, YUKIE H. & KEETON, DEBRA A. GPIN: 6811060A14A TAXACCT #: 6872 DB-PG: 175-607 BLOCK/LOT: A/14 USE CODE: SINGLE FAMILY DWELLING
4	STREET ADDRESS: 909 DOGWOOD DR OWNER: PHAM, THU M. & TU, DUNG K. GPIN: 68090700008 TAXACCT #: 6609 DB-PG: 351-597 BLOCK/LOT: NONE LISTED/8 USE CODE: SINGLE FAMILY DWELLING	10	STREET ADDRESS: 921 DOGWOOD DR OWNER: FRYE, CHARLOTTE H. GPIN: 68090700002 TAXACCT #: 6603 DB-PG: 340-9 BLOCK/LOT: NONE LISTED/2 USE CODE: SINGLE FAMILY DWELLING	16	STREET ADDRESS: 1100 DUKE OF GLOUCESTER ST OWNER: MILLS, JEANIE M. & JOHNSON, CHARLES F. GPIN: 68101000059 TAXACCT #: 6669 DB-PG: 331-221 BLOCK/LOT: NONE LISTED/59 USE CODE: SINGLE FAMILY DWELLING	22	STREET ADDRESS: 920 YORKSHIRE RD OWNER: ADKINS, FRED K. JR & DOROTHY C. GPIN: 6811060E003 TAXACCT #: 6942 DB-PG: 174-301 BLOCK/LOT: E/3 USE CODE: SINGLE FAMILY DWELLING	28	STREET ADDRESS: 908 YORKSHIRE RD OWNER: FOX, LEONARD W. JR. & DORIS S. GPIN: 6811060E009 TAXACCT #: 6948 DB-PG: NONE LISTED BLOCK/LOT: E/9 USE CODE: SINGLE FAMILY DWELLING		
5	STREET ADDRESS: 911 DOGWOOD DR OWNER: PETERSEN, GARY S. JR. GPIN: 68090700007 TAXACCT #: 6608 DB-PG: 289-1079 BLOCK/LOT: NONE LISTED/7 USE CODE: SINGLE FAMILY DWELLING	11	STREET ADDRESS: 923 DOGWOOD DR OWNER: KILBY, DAWN D. GPIN: 68090700001 TAXACCT #: 6602 DB-PG: 355-28 BLOCK/LOT: NONE LISTED/1 USE CODE: SINGLE FAMILY DWELLING	17	STREET ADDRESS: 1101 DUKE OF GLOUCESTER ST OWNER: HENDERSON, DOROTHY GPIN: 68101000050 TAXACCT #: 6660 DB-PG: NONE LISTED BLOCK/LOT: NONE LISTED/50 USE CODE: SINGLE FAMILY DWELLING	23	STREET ADDRESS: 918 YORKSHIRE RD OWNER: COLE, PHILLIP LARRY & DUNCAN, KENDRA D. GPIN: 6811060E004 TAXACCT #: 6943 DB-PG: 274-3561 BLOCK/LOT: E/4 USE CODE: SINGLE FAMILY DWELLING	29	STREET ADDRESS: 906 YORKSHIRE RD OWNER: SLACHTER-LIFE ESTATE H J GPIN: 6811060E010 TAXACCT #: 6949 DB-PG: 286-4234 BLOCK/LOT: E/10 USE CODE: SINGLE FAMILY DWELLING		
6	STREET ADDRESS: 913 DOGWOOD DR OWNER: CLORE, GINGER GPIN: 68090700006 TAXACCT #: 6607 DB-PG: 315-21 BLOCK/LOT: NONE LISTED/6 USE CODE: SINGLE FAMILY DWELLING	12	STREET ADDRESS: 105 SCHOOL AVE OWNER: CIMBURKE, MARK A. GPIN: 68093000003 TAXACCT #: 6648 DB-PG: 312-283 BLOCK/LOT: NONE LISTED/3 USE CODE: SINGLE FAMILY DWELLING	18	STREET ADDRESS: 1102 COVINGTON RD OWNER: RICHEY, KOLLIN D. GPIN: 68101100026 TAXACCT #: 6694 DB-PG: 350-437 BLOCK/LOT: NONE LISTED/6 USE CODE: SINGLE FAMILY DWELLING	24	STREET ADDRESS: 916 YORKSHIRE RD OWNER: PINK ELEPHANT PROPERTIES, LLC GPIN: 6811060E005 TAXACCT #: 6944 DB-PG: 288-5673 BLOCK/LOT: E/5 USE CODE: SINGLE FAMILY DWELLING	30	STREET ADDRESS: 904 YORKSHIRE RD OWNER: AYERS, CHRISTOPHER S. GPIN: 6811060E011 TAXACCT #: 6950 DB-PG: 340-855 BLOCK/LOT: E/11 USE CODE: SINGLE FAMILY DWELLING		

PARCEL INFORMATION OBTAINED VIA COLONIAL HEIGHTS ONLINE REAL ESTATE RECORD SEARCH CRS ACCESSED APRIL 21, 2022

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

ADJACENT PROPERTIES MAP

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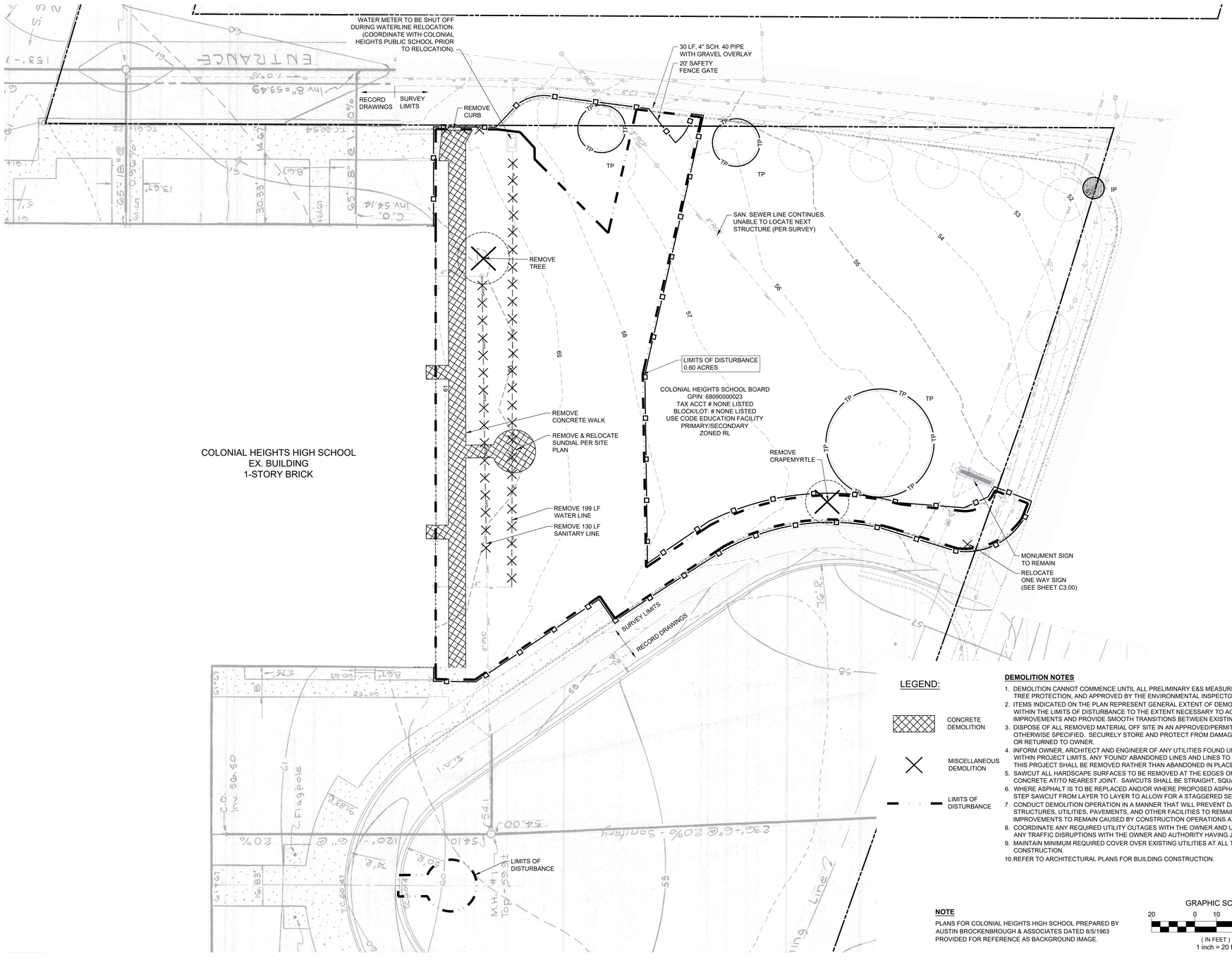

LEGEND:

- CONCRETE DEMOLITION
- MISCELLANEOUS DEMOLITION
- LIMITS OF DISTURBANCE

DEMOLITION NOTES

1. DEMOLITION CANNOT COMMENCE UNTIL ALL PRELIMINARY E&S MEASURES ARE IN PLACE, INCLUDING TREE PROTECTION, AND APPROVED BY THE ENVIRONMENTAL INSPECTOR.
2. ITEMS INDICATED ON THE PLAN REPRESENT GENERAL EXTENT OF DEMOLITION. DEMOLISH ALL ELEMENTS WITHIN THE LIMITS OF DISTURBANCE TO THE EXTENT NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS AND PROVIDE SMOOTH TRANSITIONS BETWEEN EXISTING AND PROPOSED ELEMENTS.
3. DISPOSE OF ALL REMOVED MATERIAL OFF SITE IN AN APPROVED/PERMITTED MANNER UNLESS OTHERWISE SPECIFIED. SECURELY STORE AND PROTECT FROM DAMAGE ANY ITEMS TO BE REINSTALLED OR RETURNED TO OWNER.
4. INFORM OWNER, ARCHITECT AND ENGINEER OF ANY UTILITIES FOUND UNEXPECTEDLY PRIOR TO ACTION. WITHIN PROJECT LIMITS, ANY 'FOUND' ABANDONED LINES AND LINES TO BE DEMOLISHED AS PART OF THIS PROJECT SHALL BE REMOVED RATHER THAN ABANDONED IN PLACE.
5. SAWCUT ALL HARDSCAPE SURFACES TO BE REMOVED AT THE EDGES OF AREA TO BE REMOVED. SAWCUT CONCRETE AT/TO NEAREST JOINT. SAWCUTS SHALL BE STRAIGHT, SQUARE AND TRUE.
6. WHERE ASPHALT IS TO BE REPLACED AND/OR WHERE PROPOSED ASPHALT ABUTS TO EXISTING ASPHALT, STEP SAWCUT FROM LAYER TO LAYER TO ALLOW FOR A STAGGERED SEAM.
7. CONDUCT DEMOLITION OPERATION IN A MANNER THAT WILL PREVENT DAMAGE TO ADJACENT STRUCTURES, UTILITIES, PAVEMENTS, AND OTHER FACILITIES TO REMAIN. REPAIR ANY DAMAGE TO IMPROVEMENTS TO REMAIN CAUSED BY CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE OWNER.
8. COORDINATE ANY REQUIRED UTILITY OUTAGES WITH THE OWNER AND UTILITY PROVIDER. COORDINATE ANY TRAFFIC DISRUPTIONS WITH THE OWNER AND AUTHORITY HAVING JURISDICTION.
9. MAINTAIN MINIMUM REQUIRED COVER OVER EXISTING UTILITIES AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
10. REFER TO ARCHITECTURAL PLANS FOR BUILDING CONSTRUCTION.

NOTE

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GRAPHIC SCALE
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NORTH
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DEMOLITION PLAN

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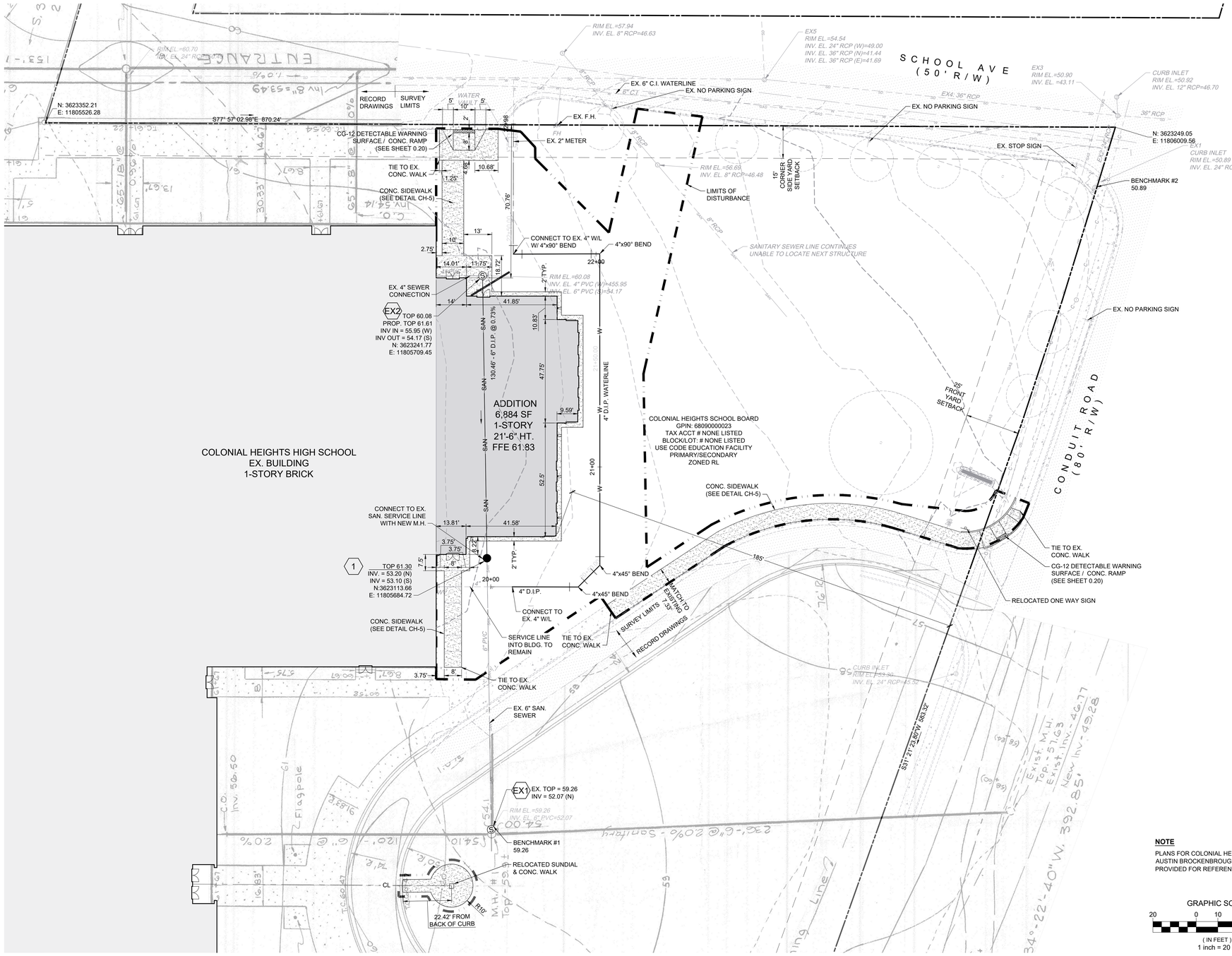

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

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REVISIONS	
DATE	DESCRIPTION

SITE PLAN

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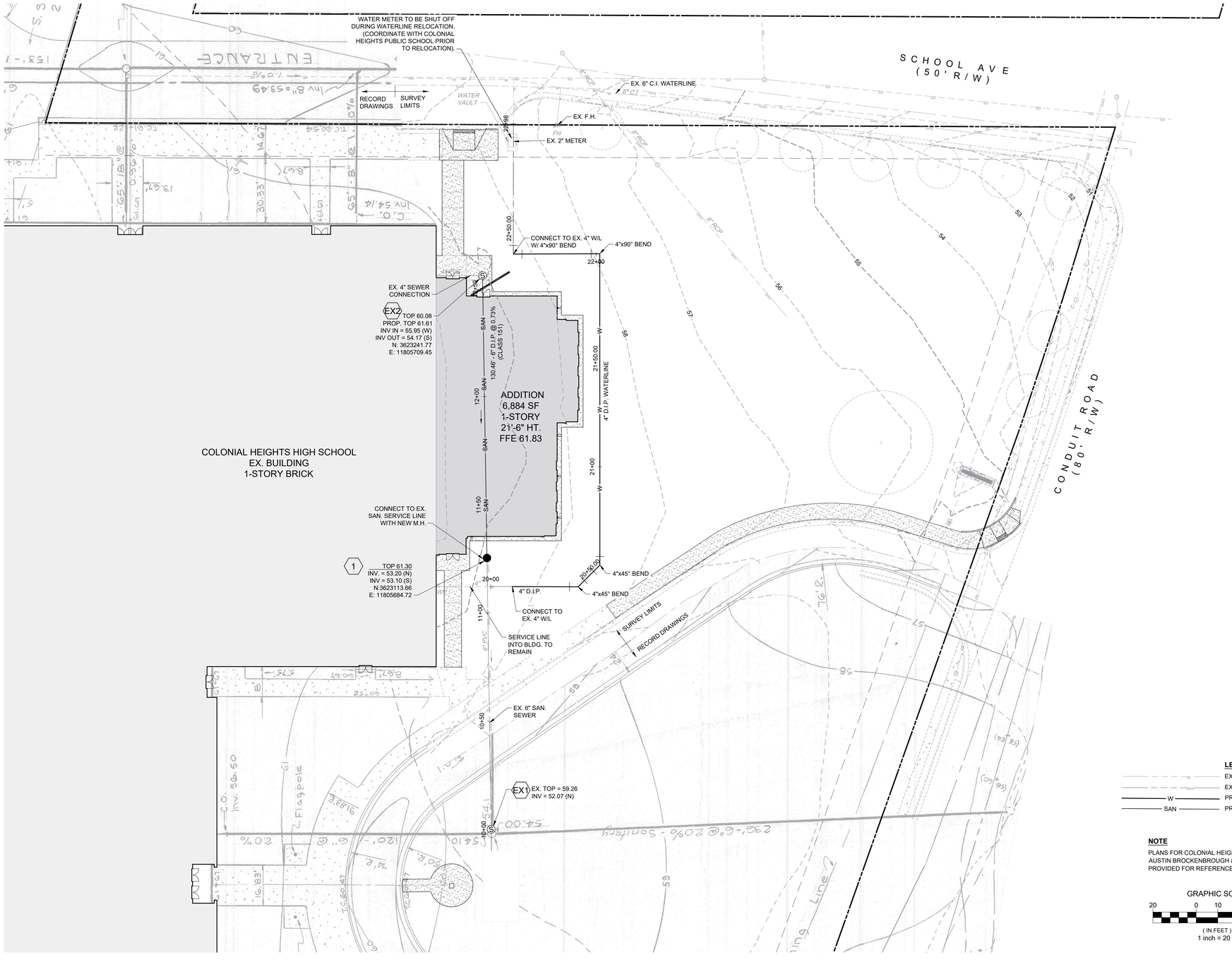

LEGEND

- EX. WATER LINE
- EX. SAN. SEWER
- W — PROPOSED WATER LINE
- SAN — PROPOSED SAN. SEWER

NOTE

PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL PREPARED BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963 PROVIDED FOR REFERENCE AS BACKGROUND IMAGE.

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REVISIONS	
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UTILITY PLAN

C4.00

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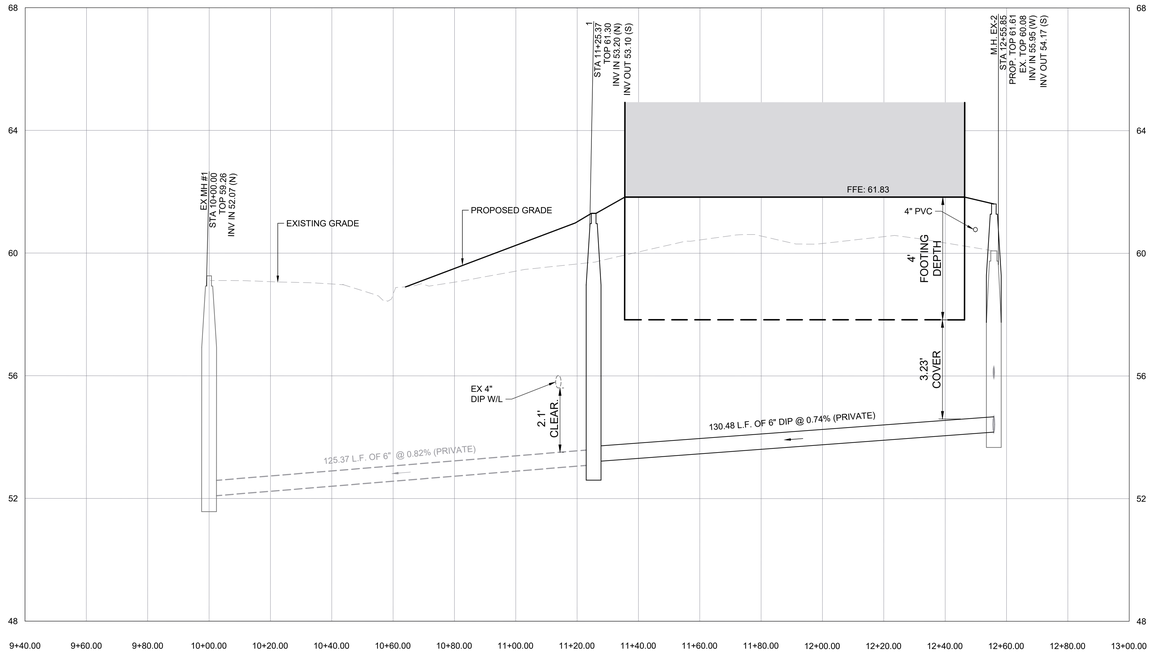
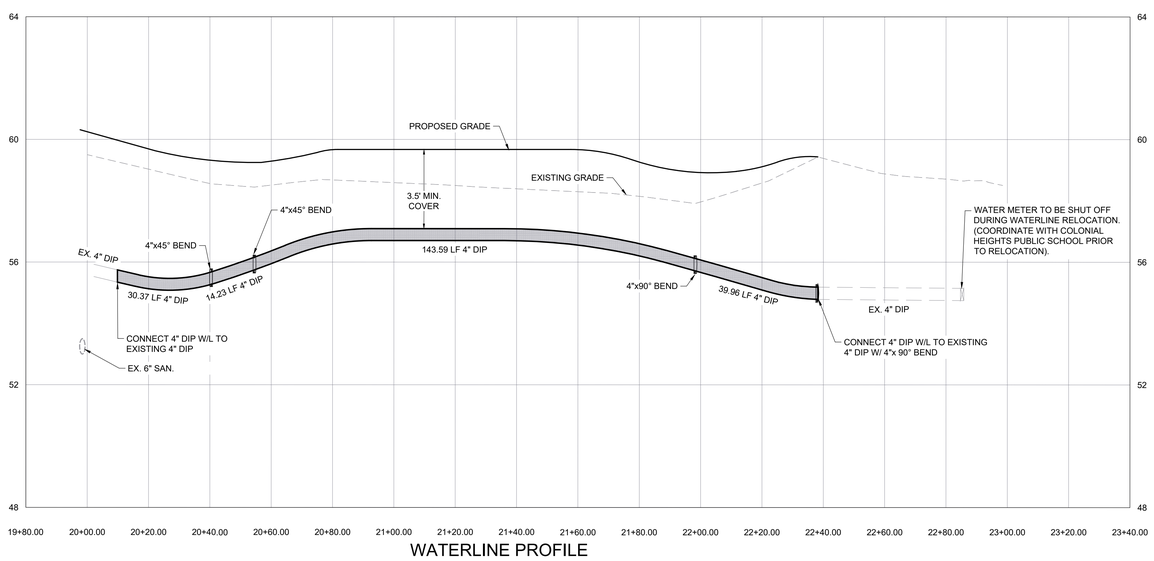


SANITARY SEWER PROFILE



WATERLINE PROFILE

PROFILE SCALE

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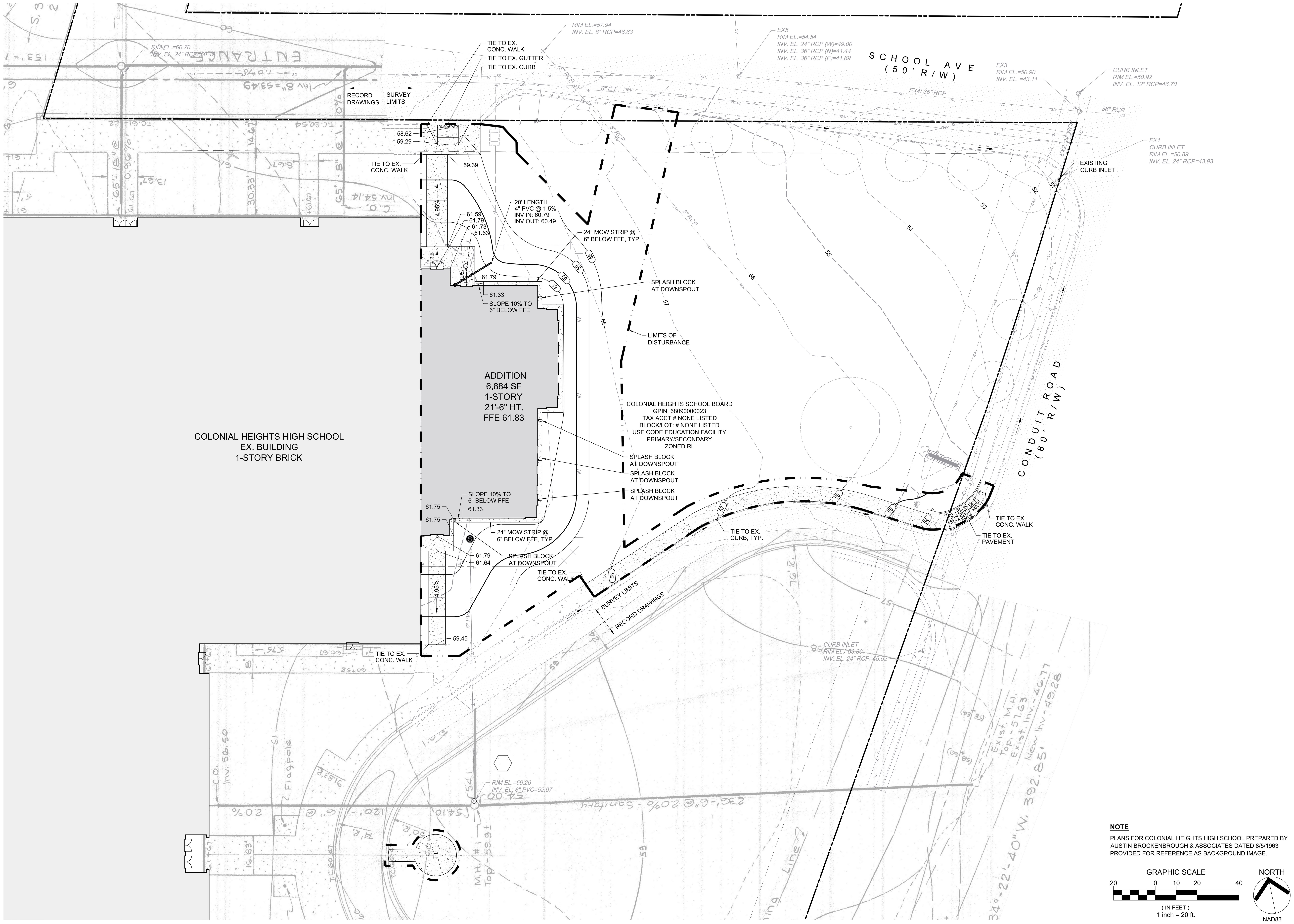
UTILITY PROFILES

C4.01



NOTE

PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL PREPARED BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963 PROVIDED FOR REFERENCE AS BACKGROUND IMAGE.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

NORTH
NAD83

6/21/2022 11:25:59 AM

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land planning | civil engineering
landscape architecture

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

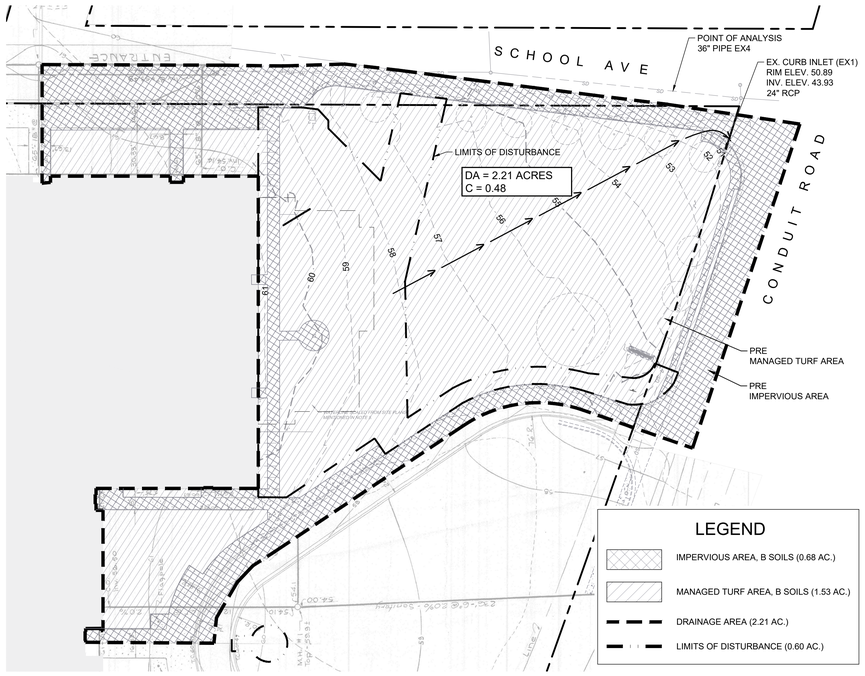
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

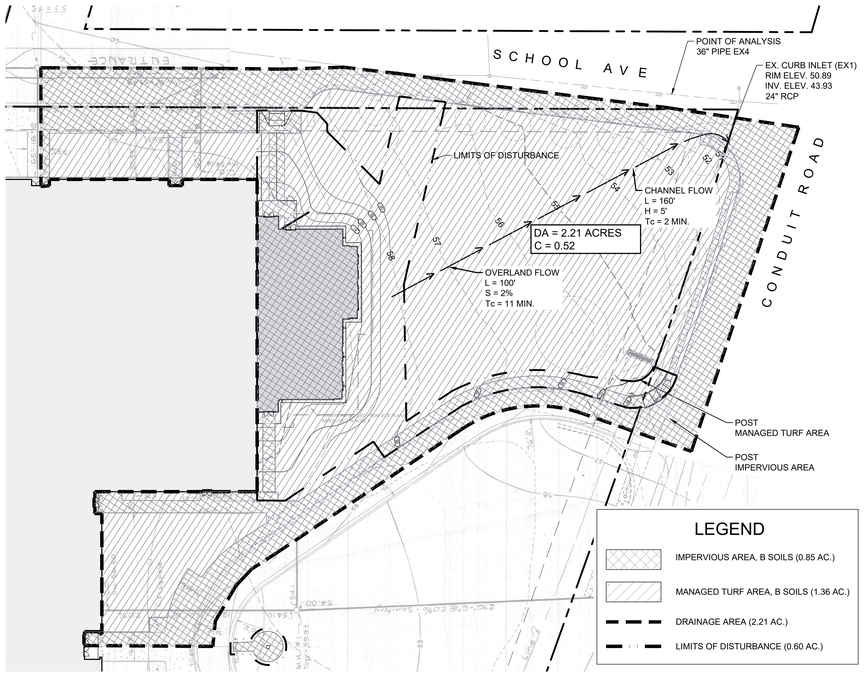
REVISIONS	
DATE	DESCRIPTION

GRADING AND DRAINAGE PLAN

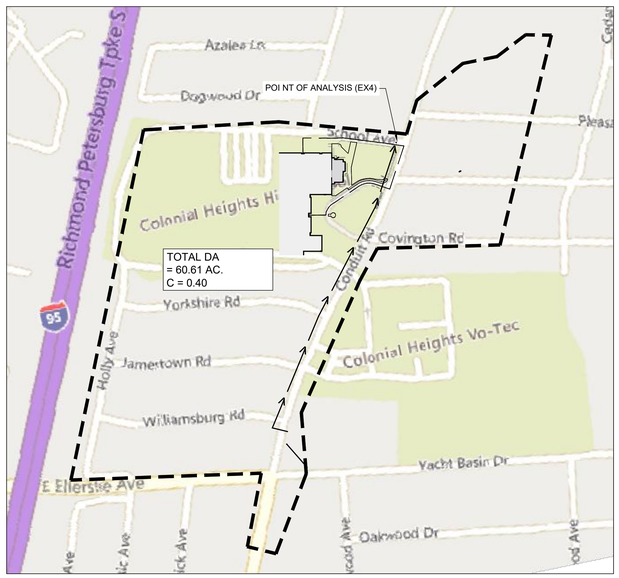
C5.00



PRE-DEVELOPMENT GROUNDCOVER



POST-DEVELOPMENT GROUNDCOVER



OVERALL DRAINAGE AREA

MS19: Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:

a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.

b. Adequacy of all channels and pipes shall be verified in the following manner:
   1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or
   2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks,
   (b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and
   (c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system.

c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:
   1) Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to channel the bed or banks; or
   2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances;
   3) Develop a site design that will not cause the pre-development peak runoff rate from a twoyear storm to increase when runoff outfalls into a natural channel or will not cause the predevelopment peak runoff rate from a ten-year storm to increase when runoff outfalls into a manmade channel; or
   4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.

d. The applicant shall provide evidence of permission to make the improvements.

e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.

f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.

g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.

h. All on-site channels must be verified to be adequate.

i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.

j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations.

k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.

l. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to
   i. detain the water quality volume and to release it over 48 hours;
   ii. detain and release over a 24-hour period the expected rainfall resulting from the one year, 24- hour storm; and
   iii. reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 10.1-562 or 10.1-570 of the Act.

m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 10.1-561 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 10.1-603.2 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities are in accordance with 4VAC50-60-48 of the Virginia Stormwater Management Program (VSMP) Permit Regulations.

n. Compliance with the water quantity minimum standards set out in 4VAC50-60-66 of the Virginia Stormwater Management Program (VSMP) Permit Regulations shall be deemed to satisfy the requirements of Minimum Standard 19.

STORMWATER COMPLIANCE NOTE

THIS SITE IS SUBJECT TO REQUIREMENTS ASSOCIATED WITH A LAND DISTURBANCE PERMIT AND MS-19 AND IS DISTURBING APPROXIMATELY 0.60 AC. THE PROPOSED DEVELOPMENT HAS NO CHESAPEAKE BAY DISTURBANCE. THE POINT OF ANALYSIS IS DETERMINED TO BE A 36" PIPE (EX4) DOWNSTREAM OF THE SITE, RECEIVING A TOTAL OF 60.61 ACRES OF DRAINAGE. THE SITE IS LESS THAN 1% OF THE TOTAL DRAINAGE TO THE POINT OF ANALYSIS. THE RECEIVING STORM PIPE SYSTEM HAS CAPACITY TO RECEIVE THE PROPOSED DEVELOPMENT RUNOFF AND CONVEYS THE RUNOFF IN A NON-EROSIVE MANNER, MEETING STORMWATER AND MS-19 REQUIREMENTS.

THERE ARE NO WATER QUALITY REQUIREMENTS FOR THIS SITE.

STORM SEWER DESIGN COMPUTATIONS

PROJECT: Colonial Heights HS Addition
COUNTY: Colonial Heights
DESCRIPTION: Storm Sewer
DATE: 3/3/2022

JOB # M22026

Storm Frequency = 10 year

Minimum Structure Depth = 3.50 ft
Minimum Slope = 0.005 ft/ft

Rainfall Intensity Formula
$I=B/(Tc+D)^E$

	B	D	E
10 year	41.34	7.25	0.73

design studio

Instructions
Manual Input
Automated
INPUT Input data in white or all other information is put in
Note: Always start with structure routings

FROM POINT	PIPE NAME	TO POINT	DRAINAGE AREA (acres)	RUNOFF COEFFICIENT	CA INCRE.	CA ACCUM.	INLET TIME (min)	RAIN- FALL (in/hr)	RUNOFF Q (cfs)	TOP STR (elev)	HEIGHT STR (ft)	INV UPPER (ft)	INV. LOWER (ft)	LENGTH (ft)	SLOPE (ft/ft)	DIA (in)	CAPACITY (cfs)	VELOCITY (ft/s)	FLOW TIME (min)	Pipe Material
Offsite		EX1	30.17	0.40	12.07	12.07	40.00	2.48	29.90											
EX1	EX2	EX3	2.21	0.52	1.15	13.22	40.00	2.48	32.75	50.89	6.96	43.93	43.11	34.84	0.0235	24	34.69	12.60	0.05	RCP
EX3	EX4	EX5	28.23	0.40	11.29	24.51	40.05	2.48	60.69	50.91	7.80	43.11	41.69	163.24	0.0087	36	62.19	10.06	0.27	RCP

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

NORTH
NAD83

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07/01/2022
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

STORMWATER COMPLIANCE PLAN

C8.00

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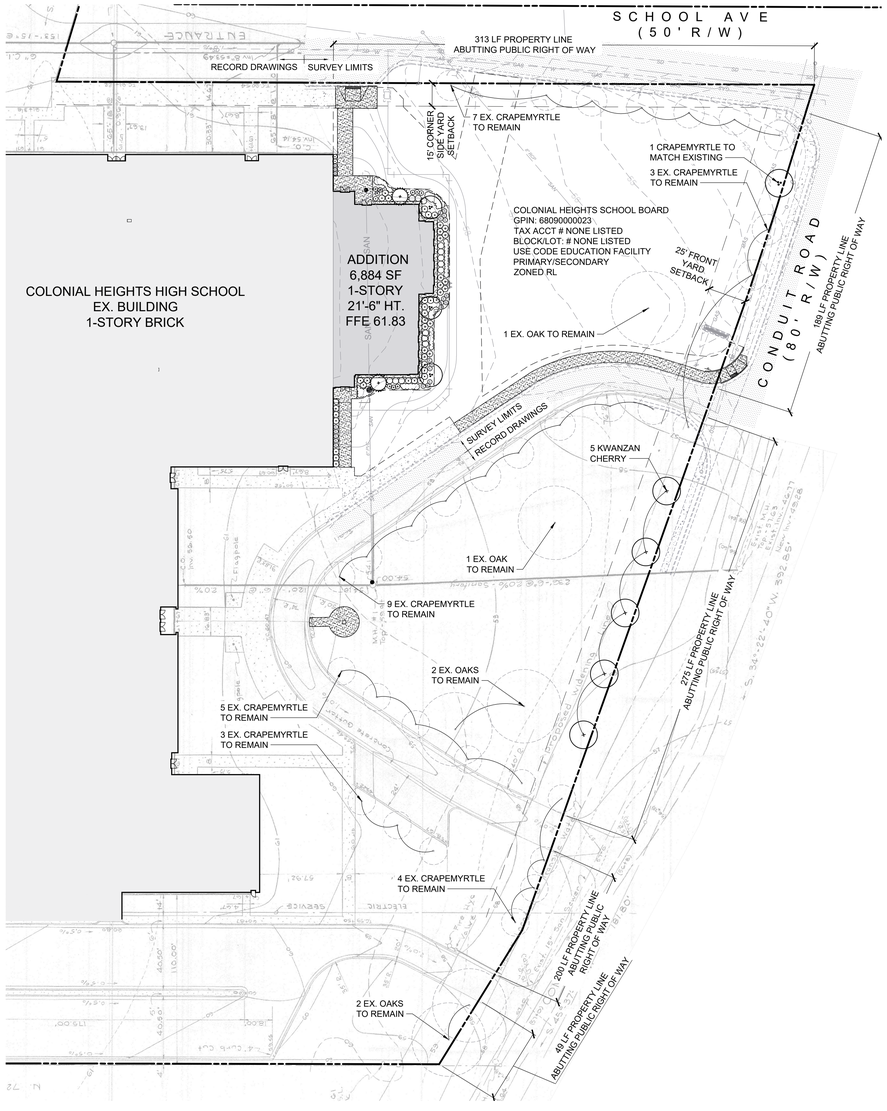


1 STREET TREE PLAN

1"=40'

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

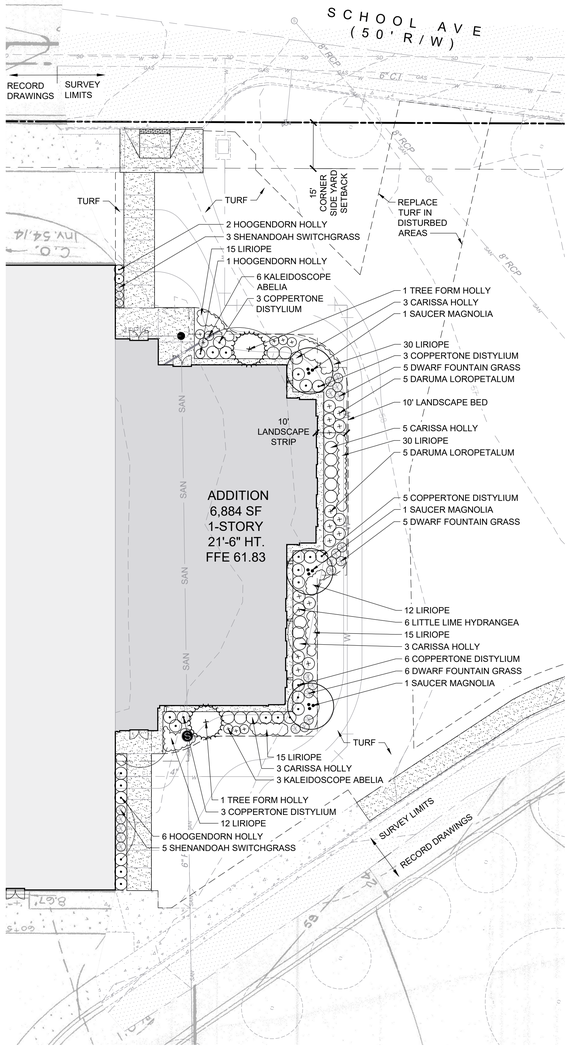
NORTH
NAD83

LANDSCAPE REQUIREMENTS:

PER 286-512.14
TREES REQUIRED ALONG PROPERTY LINES
1 TREE PER 50 LF OF PROPERTY LINE ABUTTING PUBLIC RIGHT OF WAY

CONDUIT ROAD: 713 LF
713/50 = 14.26 = 15 TREES
REQUIRED: 15 TREES
PROVIDED: 9 EXISTING TREES TO REMAIN
6 PROPOSED TREE

SCHOOL AVENUE: 313 LF
313/50 = 6.26 = 7 TREES
REQUIRED: 7 TREES
PROVIDED: 7 EXISTING TREES TO REMAIN



2 BUILDING LANDSCAPE PLAN

1"=20'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

NORTH
NAD83

LANDSCAPE REQUIREMENTS:

PER 286-512.22
LANDSCAPING STANDARDS AROUND BUILDINGS AND STRUCTURES
PROVIDE MIN. 10' WIDTH FOR 5' SIDEWALK AND 5' LANDSCAPE AREA BETWEEN PARKING AREAS AND BUILDINGS.

MINIMUM 10' WIDTH PROVIDED INCLUDING SIDEWALKS AND LANDSCAPE AREAS AROUND ALL SIDES OF THE BUILDING ADDITION.

NOTE

PLANS FOR COLONIAL HEIGHTS HIGH SCHOOL PREPARED BY AUSTIN BROCKENBROUGH & ASSOCIATES DATED 8/5/1963 PROVIDED FOR REFERENCE AS BACKGROUND IMAGE.

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

LANDSCAPE PLAN

L1.00

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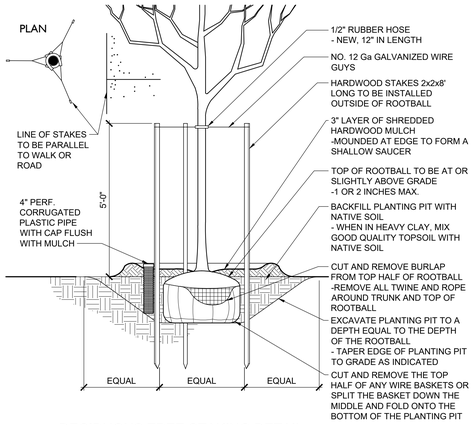
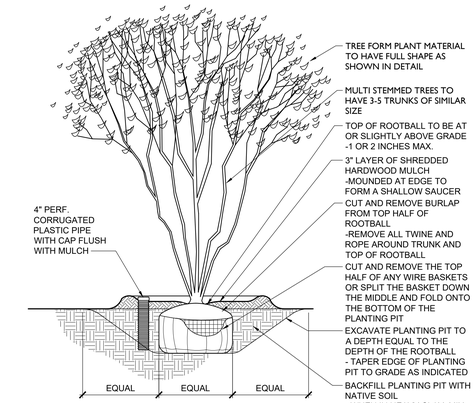
PLANTING DETAILS



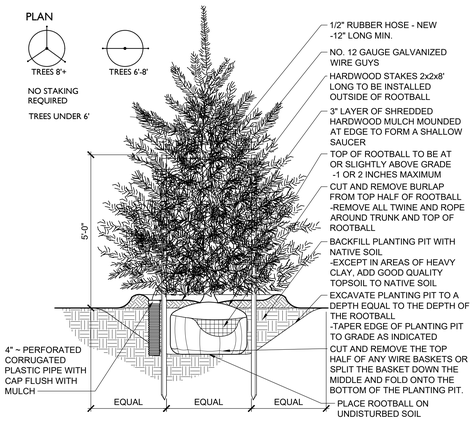
A DECIDUOUS TREE STAKING DETAIL

NOT TO SCALE



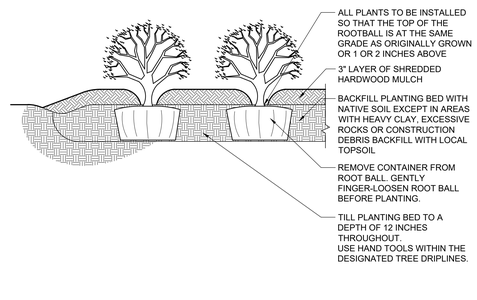
B MULTI-STEM TREE PLANTING DETAIL

NOT TO SCALE



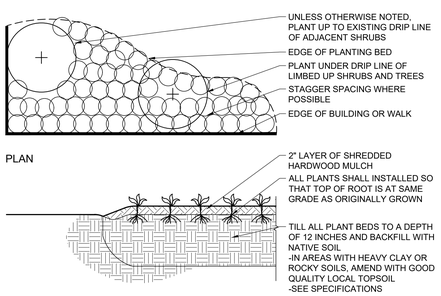
C EVERGREEN TREE STAKING DETAIL

NOT TO SCALE



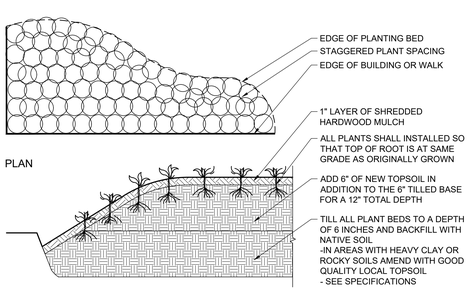
D SHRUB PLANTING DETAIL

NOT TO SCALE



E GROUNDCOVER PLANTING BED DETAIL

NOT TO SCALE



F FLOWER BED PLANTING DETAIL

NOT TO SCALE

PLANT MATERIAL SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SPACING	CALIPER	HEIGHT	ROOT TYPE	DETAIL	REMARKS
TREES								
1	LAGERSTROEMIA	CRAPEMYRTLE	AS SHOWN		6' HT.	B&B	B	MATCH TO EXISTING
3	MAGNOLIA X SOULANGEANA	SAUCER MAGNOLIA	AS SHOWN		6' HT.	B&B	B	3-5 STEMS, MATCHED
5	PRUNUS 'KWANZAN'	KWANZAN CHERRY	AS SHOWN		6' HT.	B&B	B	SINGLE STEM, MATCHED
2	ILEX CORNUTA 'FINELINE'	FINELINE HOLLY (TREE FORM)	AS SHOWN		6' HT.	B&B	C	3-5 STEMS, MATCHED
SHRUBS								
9	ABELIA X GRANDIFOLIA 'KALEIDOSCOPE'	KALEIDOSCOPE ABELIA	AS SHOWN		18"	CONT.	D	
20	DISTYLIUM 'PIIDIST-III' PP25,304	COPPERTONE DISTYLIUM	AS SHOWN		18"	CONT.	D	
6	HYDRANGEA PANICULATA 'JANE'	LITTLE LIME HYDRANGEA	AS SHOWN		18"	CONT.	D	
14	ILEX CORNUTA 'CARISSA'	CARISSA HOLLY	AS SHOWN		18"	CONT.	D	
9	ILEX CRENATA 'HOOGENDORN'	HOOGENDORN HOLLY	AS SHOWN		18"	CONT.	D	
10	LOROPETALUM CHINENSE V. RUBRUM 'DARUMA COMPACT'	DARUMA LOROPETALUM	AS SHOWN		18"	CONT.	D	
ORNAMENTAL GRASSES, & PERENNIALS								
8	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	AS SHOWN		1 GAL.	CONT.	D	
16	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	AS SHOWN		1 GAL.	CONT.	D	
129	LIRIOPE	LIRIOPE	18" O.C.		1 GAL.	CONT.	E	

PLANTING NOTES:

1. CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES SHOWN ON PLAN WITH TOTALS IN PLANTING SCHEDULE. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FINAL BIDDING. UNIT PRICES SHALL BE SUBMITTED AS PART OF FINAL BID.
2. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR TO BE IN A HEALTHY GROWING CONDITION. PLANT MATERIALS WHICH DO NOT FULFILL THIS GUARANTEE SHALL BE REPLACED AT NO COST TO THE OWNER. REPLACEMENT SHALL BE GUARANTEED THROUGHOUT THE ORIGINAL GUARANTEE PERIOD. PLANTS THAT DIE SHALL BE REPLACED IMMEDIATELY.
3. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOT ASSUME IRRIGATION SYSTEM IS FULLY OPERATIONAL AT COMPLETION OF PLANTING INSTALLATION
4. CONTRACTOR RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING OF CONSTRUCTION FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. NOTIFY LANDSCAPE ARCHITECT IF ANY CONFLICTS OCCUR.
5. THE LANDSCAPE ARCHITECT IS THE OWNERS REPRESENTATIVE AND SHALL BE THE APPROVING AUTHORITY FOR INFORMATION PROVIDED IN THESE PLANS AND SPECIFICATIONS.
6. ALL PLANT MATERIALS, TOPSOIL, MULCH, FERTILIZERS, SOIL AMENITIES, PLANTING SUPPLIES AND METHODS SHALL BE SUBJECT TO LANDSCAPE ARCHITECTS APPROVAL. REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE WITHOUT DELAY.
7. ALL PLANT MATERIALS AND PLANTING METHODS SHALL CONFORM TO A.A.N. STANDARDS.
8. CONTRACTOR SHALL LAYOUT AND MARK LOCATION FOR ALL PLANT MATERIAL, PLANTING, AND IMPROVEMENTS SHOWN AND REQUEST IN FIELD APPROVAL FROM LANDSCAPE ARCHITECT.
9. BEDS TO CONTAIN SHRUBS OR GROUND COVER SHALL BE TILLED TO A DEPTH OF 6" AND THE SOIL CONDITIONED BY ADDING CLEAN, WELL ROTTED MANURE. IF EXISTING SOIL IS CONSIDERED TO BE UNUSABLE BY OWNER, BEDS SHALL BE TREATED TO ELIMINATE WEEDS AND WEED SEEDS.
10. ALL PLANTING BED AREAS SHALL BE COVERED WITH A 3" MINIMUM LAYER OF MEDIUM TEXTURE SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED.
11. ALL SUBSTITUTIONS OF PLANT MATERIAL SHALL BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER.
12. ALL PLANTING OPERATIONS SHALL BE UNDER THE SUPERVISION OF AN EXPERIENCED PLANTSMAN.
13. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SELECT PLANT MATERIALS IN THE NURSERY.
14. FOR TREES BALLED IN WIRE BASKETS, CUT AND REMOVE TOP AND SIDES OF BASKET AFTER INSTALLATION.
15. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO A.A.N. STANDARDS. SEE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-(CURRENT EDITION).
16. SOIL SHALL BE FREE OF ALL WEEDS.
17. PLANT SIZES, QUANTITIES, AND SPECIES WILL BE CHECKED BY COUNTY INSPECTION FOR COMPLIANCE WITH PLANT SCHEDULE AS APPROVED BY THE COUNTY. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DELAY IN ISSUANCE OF CERTIFICATE OF OCCUPANCY BY THE COUNTY RESULTING FROM UNATHORIZED SUBSTITUTIONS OR DOWNSIZING.
18. UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL, AND SCHEDULE A FINAL INSPECTION FOR ACCEPTANCE BY OWNER
19. THE ONE YEAR GUARANTEE PERIOD SHALL BEGIN UPON THE OWNER'S APPROVAL AND ACCEPTANCE OF THE PLANTING INSTALLATION. THE OWNER SHALL ASSUME RESPONSIBILITY FOR MAINTENANCE INCLUDING WATERING, WEEDING, PEST CONTROL, AND FERTILIZATION.
20. CONTRACTOR SHALL REMOVE STAKING FROM TREES AT THE END OF THE ONE YEAR WARRANTY PERIOD.

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COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

PLANT SCHEDULE
NOTES & DETAILS

L2.00

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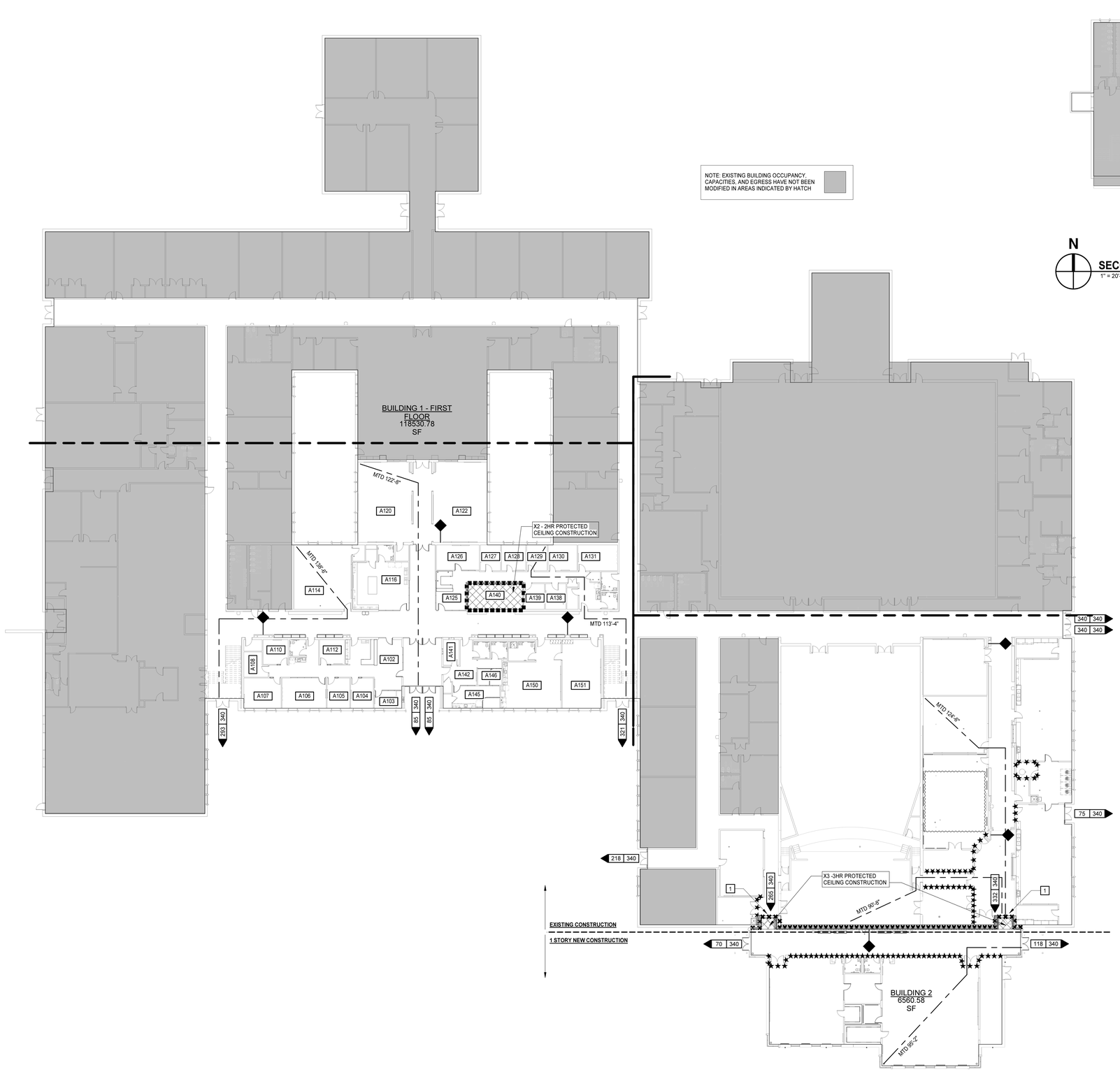


LIFE SAFETY PLAN KEYNOTES

1. DOORS SHALL HAVE MAGNETIC HOLD OPENS, CONNECT TO FIRE ALARM

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX

	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
3 HR FIRE	▷▷▷▷▷	◇◇◇◇◇		●●●●●
2 HR FIRE	✕✕✕✕✕	■■■■■		▮▮▮▮▮
1 HR FIRE		▶▶▶▶▶	★★★★★	▬▬▬▬▬
SMOKE		△△△△△	◆◆◆◆◆	

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS; EGRESS LOAD CAPACITY; NUMBER OF OCCUPANTS
- DIRECTION OF EGRESS; NUMBER OF OCCUPANTS; EGRESS LOAD CAPACITY — 798 | 1280
- XXX-X" — MAXIMUM TRAVEL DISTANCE
- XXX-X" CPOT — COMMON PATH OF TRAVEL
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER BRACKET
- EXTENT OF SPRAYED-ON/APPLIED FIRE PROOFING
- EXTENT OF FLOOR / CEILING AND/OR ROOF / CEILING ASSEMBLY
- 3 — BUILDING NUMBER

NOTES:

1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.

DOUBLE FIRE WALL

'n' = RATING IN HOURS — nDFW — DFW = DOUBLE FIRE WALL

NOTE: RATINGS MAY VARY. REFER TO A0.2 FOR ACTUAL RATINGS OF FIRE WALLS COMPOSING THE DOUBLE FIRE WALLS

FIRE RATED ASSEMBLIES

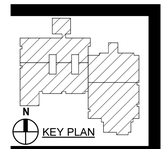
REPRESENTED BY Xn

THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ

MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
X1	1HR OR 2HR	RATED INTERIOR WALL ASSEMBLY	UL-U906	REFER TO L/S PLANS & WALL SECTIONS FOR RATING REQUIREMENT
X2	2HR	HORIZONTAL RATED ASSEMBLY	UL-I512	FIRE RATED CEILING ASSEMBLY, RM A140
X3	3HR	RATED ROOF / CEILING ASSEMBLY	UL-P931	RATING EQUAL OR GREATER THAN WALL ASSEMBLY
X4	1HR OR 2HR	PIPE PENETRATION RATED ASSEMBLY	C-AJ-1338	RATING EQUAL TO CONSTRUCTION TYPE BEING PENETRATED

MOSELEY ARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-3690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT



COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY INFORMATION

LS1.1

7/1/2022 10:21:26 AM

OCCUPANCY SCHEDULE BLDG 2

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
D117	INSTRUMENT STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	416	•		2		2
D118	BAND	E	EDUCATIONAL, CLASSROOM	20 SF	2245		•	113		113
D119	BAND UNIFORM	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	152	•		1		1
D120	PRACTICE	B	BUSINESS AREAS	150 SF	74	•		1		1
D121	OFFICE	B	BUSINESS AREAS	150 SF	233	•		2		2
D122	CHORAL UNIFORM	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	74	•		1		1
D123	CHORAL	E	EDUCATIONAL, CLASSROOM	20 SF	1369		•	69		69
										189

EXITS REQUIRED BASED ON OCCUPANCY LOAD: 1
TOTAL EXITS PROVIDED: 2

NEW : BLDG 2

		WATER CLOSETS						LAVATORIES						DRINKING FOUNTAINS			SERVICE SINKS	
		MALE			FEMALE			MALE			FEMALE							
OCCUPANCY	OCC LOAD	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
B	3	25	0.10	•	25	0.10		40	0.10		40	0.10						
		50	0.00		50	0.00		80	0.00		80	0.00		100	0.03		1	
E	88	50	0.88		50	0.88		50	0.88		50	0.88		100	0.88		1	
S-1 and S-2	4	100	0.02		100	0.02		100	0.02		100	0.02		1000	0.00		1	
NEW TOTAL	**95**		**1**	**1**		**1**	**1**		**1**	**1**		**1**	**1**		**1**	**2**	**1**	**0**

NOTE: A SERVICE SINK IS LOCATED IMMEDIATELY ADJACENT TO THE NEW CONSTRUCTION "BLDG 2" IN THE EXISTING BUILDING "BLDG 1".

NOTE: FOR TOILET FIXTURE COUNT CALCULATIONS, A MAX OCCUPANCY OF 49 OCCUPANTS IN RM D118 AND 39 OCCUPANTS IN RM D123 WAS USED. TABULAR OCCUPANCY COUNT WAS USED FOR EGRESS REQUIREMENTS.

NOTE: ROOMS OR SPACES WITH A 'O' OCCUPANT LOAD CALCULATION DO NOT APPEAR IN THE ABOVE SCHEDULES.

ADMINISTRATION

APPLICABLE CODES, STANDARDS, AND/OR REFERENCES

2018 VIRGINIA CONSTRUCTION CODE (VUSBC PART I)

2018 VIRGINIA EXISTING BUILDING CODE (VUSBC PART II)

2009 ICC / ANSI A117.1

THIS SUMMARY DOES NOT IDENTIFY ALL APPLICABLE CODE SECTIONS AND IS A SUMMARY OF SELECTED CODE SECTIONS ONLY. CODE SECTIONS NOT IDENTIFIED OR OTHERWISE INDICATED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND REGULATIONS TO COMPLETE THE WORK. REFER TO OTHER CONTRACT DOCUMENTS (DISCIPLINES) AND SPECIFICATIONS FOR ADDITIONAL CODE SUMMARY INFORMATION.

LIFE SAFETY - GENERAL DATA

BUILDING	OCCUPANCY CLASSIFICATION PRIMARY	OCCUPANCY CLASSIFICATION SECONDARY	CONSTRUCTION TYPE	FULLY SPRINKLERED	MIXED OCCUPANCY	NON-SEPARATED D MIXED USE	SEPARATED MIXED USE	OCCUPANCY CLASSIFICATION - DESIGN
1	E: EDUCATIONAL	B: BUSINESS	II-B	No	Yes	Yes	No	E: EDUCATIONAL
2	E: EDUCATIONAL	B: BUSINESS	II-B	No	Yes	Yes	No	E: EDUCATIONAL

LIFE SAFETY - HEIGHT

BUILDING	SPRINKLERED	ALLOWABLE HEIGHT INCREASE	ALLOWABLE STORIES INCREASE	TABULAR HEIGHT	TABULAR STORIES	ALLOWABLE HEIGHT	ALLOWABLE STORIES	ACTUAL HEIGHT	ACTUAL STORIES
1	No	0"	0	55' - 0"	2	55' - 0"	2	26' - 10"	2
2	No	0"	0	55' - 0"	2	55' - 0"	2	27' - 2"	1

LIFE SAFETY - FACILITY TOTAL AREA

	AREA (SF)
BUILDING 1 - FIRST FLOOR	118531
BUILDING 1 - SECOND FLOOR	15228
	133759
BUILDING 2	6561
	6561
Grand total	140320

OCCUPANCY SCHEDULE BLDG 1

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
A11	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	752		•	38		38
A12	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	752		•	38		38
A13	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	108	•		1		1
A13A	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	113	•		1		1
A14	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	745		•	38		38
A38	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	301	•		2		2
A40	JANITOR	(none)	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	25	•		1		1
A43	CAFETERIA	A2	ASSEMBLY, UNCONCENTRATED	15 SF	3317		•	222		222
A44	DISHWASH	B	KITCHEN, COMMERCIAL	200 SF	260	•		2		2
A45	CAFETERIA	A2	ASSEMBLY, UNCONCENTRATED	15 SF	3918		•	262		262
A46	SERVING	B	KITCHEN, COMMERCIAL	200 SF	762	•		4		4
A53	KITCHEN	B	KITCHEN, COMMERCIAL	200 SF	1461	•		8		8
A58	DRY STORAGE	B	KITCHEN, COMMERCIAL	200 SF	377	•		2		2
A59	TEACHER DINING	B	BUSINESS AREAS	150 SF	378	•		3		3
A63	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	13	•		1		1
A64	OFFICE	B	BUSINESS AREAS	150 SF	65	•		1		1
A65	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	191	•		1		1
A66	ELECTRICAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	126	•		1		1
A67	CUSTODIAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	280	•		1		1
A68	MECHANICAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	1328	•		5		5
A75	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	745		•	15		15
A76	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	108	•		1		1
A76A	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	113	•		1		1
A77	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	752		•	16		16
A78	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	751		•	16		16
A100	MEDIA CENTER	A3	LIBRARY, READING ROOM	50 SF	3706		•	75		75
A102	ADMIN	B	BUSINESS AREAS	150 SF	525	•		4		4
A103	SECURITY	B	BUSINESS AREAS	150 SF	104	•		1		1
A104	AP	B	BUSINESS AREAS	150 SF	149	•		1		1
A105	AP	B	BUSINESS AREAS	150 SF	149	•		1		1
A106	CONF	B	BUSINESS AREAS	150 SF	290	•		2		2
A107	PRINCIPAL	B	BUSINESS AREAS	150 SF	246	•		2		2
A108	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	116	•		1		1
A109	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	46	•		1		1
A110	SRO	B	BUSINESS AREAS	150 SF	136	•		1		1
A112	BKKPR	B	BUSINESS AREAS	150 SF	136	•		1		1
A114	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	808		•	41		41
A114A	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	43	•		1		1
A116	WORK/MAIL ROOM	B	BUSINESS AREAS	150 SF	582	•		4		4
A118	PHONE	B	BUSINESS AREAS	150 SF	39	•		1		1
A119	ELEC	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	48	•		1		1
A120	STUDENT COLLABORATION	A3	LIBRARY, READING ROOM	50 SF	940		•	19		19
A122	STUDENT COLLABORATION	A3	LIBRARY, READING ROOM	50 SF	940		•	19		19
A125	COUNSELING	B	BUSINESS AREAS	150 SF	294	•		2		2
A126	CAREER CENTER	B	BUSINESS AREAS	150 SF	235	•		2		2
A127	ATTDNCE	B	BUSINESS AREAS	150 SF	114	•		1		1
A128	DIRECTOR	B	BUSINESS AREAS	150 SF	136	•		1		1
A129	CNSLR	B	BUSINESS AREAS	150 SF	114	•		1		1
A130	CNSLR	B	BUSINESS AREAS	150 SF	163	•		2		2
A131	CONF	B	BUSINESS AREAS	150 SF	223	•		2		2
A134	UTILITY	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	21	•		1		1
A136	UTILITY	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	8	•		1		1
A137	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	53	•		1		1
A138	GIFTED	B	BUSINESS AREAS	150 SF	115	•		1		1
A139	CNSLR	B	BUSINESS AREAS	150 SF	114	•		1		1
A140	RECORDS	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	312	•		2		2
A141	ATTDNCE	B	BUSINESS AREAS	150 SF	90	•		1		1
A142	WAITING	B	BUSINESS AREAS	150 SF	207	•		2		2
A143	DATA	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	21	•		1		1
A144	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	27	•		1		1
A145	NURSE/ TREATMENT	B	BUSINESS AREAS	150 SF	225	•		2		2
A146	RECOVERY	B	BUSINESS AREAS	150 SF	136	•		1		1
A150	FUNCTIONAL ACADEMICS	E	EDUCATIONAL, CLASSROOM	20 SF	541		•	28		28
A151	FUNCTIONAL ACADEMICS	E	EDUCATIONAL, CLASSROOM	20 SF	583		•	30		30
B2	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	586		•	30		30
B3	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	601		•	31		31
B4	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	601		•	31		31
B5	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	234	•		1		1
B6	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	654		•	33		33
B7	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	648		•	33		33
B8	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	654		•	33		33
B69	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1118		•	23		23
B70	LAB PREP	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	256	•		1		1
B71	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1123		•	23		23
B79	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	128	•		1		1
B81	MECH	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	136	•		1		1
B83	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	980		•	20		20
B84	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	667		•	14		14
B85	SCIENCE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	928		•	19		19
B86	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	612		•	31		31
B87	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	612		•	31		31
B88	BOOK STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	612	•		3		3
B89	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	611		•	31		31
B91	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	611		•	31		31
B92	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	612		•	31		31
B93	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	612		•	31		31
B94	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	612		•	31		31

OCCUPANCY SCHEDULE BLDG 1

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
B95	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	610		•	31		31
B97	UTILITY	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	140	•		1		1
B98	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	142	•		1		1
B99	WORKROOM	B	BUSINESS AREAS	150 SF	140	•		1		1
B103	OFFICE	B	BUSINESS AREAS	150 SF	140	•		1		1
B104	OFFICE	B	BUSINESS AREAS	150 SF	142	•		1		1
B105	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	320	•		2		2
B108	JANITOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	26	•		1		1
B110	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	128	•		1		1
C120	JAN	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	24	•		1		1
C123	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	815		•	41		41
C123A	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	141	•		1		1
C125	JAN	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	15	•		1		1
C126	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	86	•		1		1
C127	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	76	•		1		1
C128	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	76	•		1		1
C129	STOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	162	•		1		1
C130	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	725	•		3		3
C132	MECH	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	71	•		1		1
C136	JANITOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	22	•		1		1
C137	BOYS LOCKERS	E	LOCKER ROOM	50 SF	470	•		10		10
C138	OFFICE	B	BUSINESS AREAS	150 SF	198	•		2		2
C139	LAUNDRY	B	BUSINESS AREAS	150 SF	162	•		2		2
C140	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	218	•		1		1
C141	ELECTRICAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	221	•		1		1
C142	GYMNASIUM	A4	ASSEMBLY, UNCONCENTRATED	15 SF	12808		•	854		854
C144	FITNESS	A3	EXERCISE ROOM	50 SF	1800	•		36		36
C145	BOYS TEAM ROOM	E	LOCKER ROOM	50 SF	195	•		4		4
C146	BOYS TRAINING	B	BUSINESS AREAS	150 SF	176	•		2		2
C147	LAUNDRY	B	BUSINESS AREAS	150 SF	198	•		2		2
C148	GIRLS TRAINING	B	BUSINESS AREAS	150 SF	171	•		2		2
C149	GIRLS TEAM ROOM	E	LOCKER ROOM	50 SF	191	•		4		4
C153	JANITOR	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	20	•		1		1
C154	GIRLS LOCKERS	E	LOCKER ROOM	50 SF	366	•		8		8
C155	OFFICE	B	BUSINESS AREAS	150 SF	199	•		2		2
C157	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	141	•		1		1
D101	ART STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	176	•		1		1
D102	ART	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1159		•	24		24
D103	CERAMICS	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	298		•	6		6
D104	KILN	E	EDUCATIONAL, CLASSROOM	20 SF	41		•	3		3
D105	JAN	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	79	•		1		1
D106	ART	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1096		•	22		22
D107	ART STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	176	•		1		1
D109	ELEC	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	34	•		1		1
D110	GREEN ROOM	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	412	•		2		2
D112	THEATRE	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	1288		•	26		26
D113	THEATRE STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	225	•		1		1
D114	HEALTH	E	EDUCATIONAL, CLASSROOM	20 SF	789		•	40		40
D115	HEALTH	E	EDUCATIONAL, CLASSROOM	20 SF	767		•	39		39
D161	OFFICE	B	BUSINESS AREAS	150 SF	274	•		2		2
D162	OFFICE	B	BUSINESS AREAS	150 SF	265	•		2		2
D164	ELECTRICAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	245	•		1		1
D165	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	275	•		1		1
D166	CLOSET	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	16	•		1		1
D167	WOMENS LOUNGE	B	BUSINESS AREAS	150 SF	269	•		2		2
D170	TEACHERS WORKROOM	B	BUSINESS AREAS	150 SF	474	•		4		4
D171	MENS LOUNGE	B	BUSINESS AREAS	150 SF	105	•		1		1
D173	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	822		•	42		42
D174	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	838		•	42		42
D175	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	854		•	43		43
D177	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	921		•	47		47
D178	CUSTODIAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	235	•		1		1
D179	ALTERNATIVE LEARNING CENTER	E	EDUCATIONAL, CLASSROOM	20 SF	616		•	31		31
D186	STAGE	A1	STAGES & PLATFORMS	15 SF	1686		•	113		113
D187	AUDITORIUM	A1	ASSEMBLY, FIXED SEATING	0 SF	6199			852	852	852
D194	CONTROL	A1	BUSINESS AREAS	150 SF	57	•		1		1
E202	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	819		•	41		41
E203	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E204	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E205	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E206	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E207	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E208	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E209	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	634		•	32		32
E212	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	639		•	32		32
E213	BOOK STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	645	•		3		3
E214	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	639		•	32		32
E215	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	648		•	33		33
E216	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	648		•	33		33
E217	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	648		•	33		33
E218	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	658		•	33		33
E219	CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	664		•	34		34
E220	STORAGE	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	104	•		1		1
E222	JAN	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	20	•		1		1
										4333

EXITS REQUIRED BASED ON OCCUPANCY LOAD: 4
TOTAL EXITS PROVIDED: 20

ALTERATIONS: BLDG 1

		WATER CLOSETS						LAVATORIES						BATH TUBS/SHOWERS			DRINKING FOUNTAINS			SERVICE SINKS	
		MALE			FEMALE			MALE			FEMALE										
OCCUPANCY	OCC LOAD	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
A-1 (auditoriums, theaters)	824	125	3.30		65	6.34		200	2.06		200	2.06		0	0.00		500	1.65		1	
A-2 (dining, food courts)	484	75	3.23		75	3.23		200	1.21		200	1.21		0	0.00		500	0.97		1	
A-3 (gym, halls, libraries)	149	125	0.60		65	1.15		200	0.37		200	0.37		0	0.00		500	0.30		1	
A-4 (indoor sports & activities)	854	75	5.70		40	10.70		200	2.14		150	2.85		0	0.00		1000	0.85		1	
		120*	0.00		60*	0.00															
B	82	25	1.70		25	1.70		40	1.10		40	1.10		0	0.00		100	0.82		1	
		50	0.00		50	0.00		80	0.00		80	0.00									
E	1382	50	13.82		50	13.82		50	13.82		50	13.82		0	0.00		100	13.82		1	
S-1 and S-2	71	100	0.36		100	0.36		100	0.36		100	0.36		0	0.00		1000	0.07		1	
ALTERATIONS TOTAL	**3846**		**29**	**33**		**38**	**38**		**22**	**27**		**22**	**27**		**1**	**23**		**19**	**28**	**2**	**10**

NOTE: FOR TOILET FIXTURE COUNT CALCULATIONS, A MAX OCCUPANCY OF 25 OCCUPANTS IN CLASSROOMS WAS USED. TABULAR OCCUPANCY COUNT WAS USED FOR EGRESS REQUIREMENTS.

NOTE: PROJECT SCOPE INCLUDES THE FOLLOWING TOILET FIXTURE IMPROVEMENTS TO BLDG 1:

A NET TOTAL OF 2 ACCESSIBLE WATER CLOSETS ADDED TO THE EXISTING BUILDING "BLDG 1".
A NET TOTAL OF 2 ACCESSIBLE LAVATORIES ADDED TO THE EXISTING BUILDING "BLDG 1".
A NET TOTAL OF 1 ACCESIBLE SHOWER ADDED TO THE EXISTING BUILDING "BLDG 1".
A NET TOTAL OF 1 ACCESSIBLE DRINKING FOUNTAIN ADDED TO THE EXISTING BUILDING "BLDG 1".
A NET TOTAL OF 1 ACCESSIBLE SERVICE SINK ADDED TO THE EXISTING BUILDING "BLDG 1".

IN ADDITION, (4) SINGLE TOILET ROOMS CURRENTLY NOT ACCESSIBLE WILL BE RENOVATED TO BE FULLY ACCESSIBLE.

NOTE: ROOMS OR SPACES WITH A '0' OCCUPANT LOAD CALCULATION DO NOT APPEAR IN THE ABOVE SCHEDULES.

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COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

LIFE SAFETY INFORMATION

LS1.2

7/1/2022 10:21:29 AM

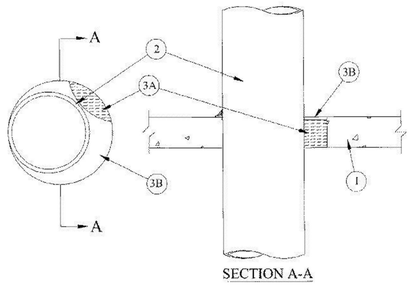
X4 UL DESIGN C-AJ-1338

System No. C-AJ-1338
August 23, 2004

F Rating — 2 Hr

T Rating — 0 Hr

W Rating — Class 1 (See Item 3)



SECTION A-A

1. **Floor or Wall Assembly —** Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 25-7/8 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants —** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between tube and periphery of opening shall be min 0 in. to max 1-7/8 in. Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 24 in. diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. diam (or smaller) steel conduite, or nom 4 in. (or smaller) steel electrical metallic tubing.

D. **Copper Tubing —** Nom 6 in. diam (or smaller) Type M (or heavier) copper tube.

E. **Copper Pipe —** Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Firestop System —** The details of the firestop system shall be as follows:

A. **Packing Material —** Min 2-1/4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* — Caulk, Sealant —** Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. Min 1/2 in. diam bead of caulk applied to the penetrant/concrete interface at the point contact location on the top surface of floor or both surfaces of wall.
3M COMPANY — CP 25WB+ caulk or FB-3000 WT sealant

(Note - W Rating applies only when FB-3000 WT is used.)

X3 UL DESIGN P931

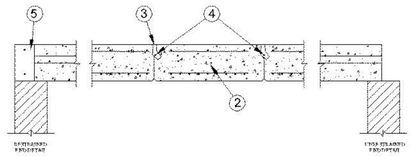
Design No. P931
May 05, 2020

Restrained Assembly Rating — 3 Hr

Unrestrained Assembly Rating — 1-1/2 Hr

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Roof Covering —** (Not Shown) Consisting of hot-mopped or cold application materials without insulation which are not mechanically attached and provide Class A, B or C coverings. See Roofing Materials and Systems Directory - Roof Covering Materials (TEVT).

2. **Precast Autoclaved Aerated Concrete —** Nom 8 in. thick, 2 ft wide floor panels with cross section like above illustration.

AERCON FLORIDA L L C — Types AC-3.3, AC-4, AC-4.4, AC-6, AC-6.6

3. **Joint —** Grouted full length with normal weight concrete.

4. **Reinforcing Steel —** No. 4 min rebar used to reinforce normal weight concrete at the joints.

5. **Ring Ream —** Used to restrain panels. Normal weight concrete with compressive strength of 3000 psi reinforced with two No. 5 rebar placed at approximate 1/3 and 2/3 depth of the beam.

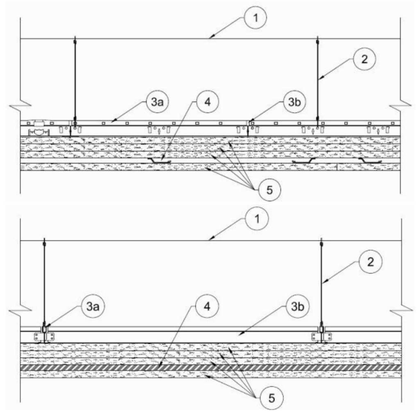
X2 UL DESIGN I512

Design No. I512
July 27, 2020

Ceiling Membrane Rating — 2 Hr.

Load Restriction - Limited to the Dead Weight of the Assembly.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Supporting Structure —** Suitable point of attachment for hanger wire (Item 2).

2. **Hanger Wire —** No. 12 SWG galv steel wire, twist-tied or fastened to supporting structure. Located 24 in. O.C. along main runners.

3. **Steel Framing Members* —** Main runners, cross tees, cross channels and wall angle as listed below:

a. **Main Runners —** Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
USG INTERIORS LLC — Type DGL or RX.

3B. **Alternate Steel Framing Members*— (Not Shown) —** As an alternate to Item 3. Main runners nom 12 ft long, spaced 4 ft. OC. Ends of main runners at walls to rest on wall angle with 1/2 in to 3/4 in. end clearance. Primary cross tees (1-1/2 in. wide across flange), nom 4 ft long, installed perpendicular to main runners and spaced 16 in. OC. The main runners, cross tees or cross channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000.

4. **Resilient Channels —** Formed from min 25 MSG galv steel installed perpendicular to structural members spaced 16 in. OC. Channels overlapped 4 in. at splices and secured to steel framing members with 2-1/4 in. long Type S steel screws after first, second and third layers of gypsum board are secured to steel framing members. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint as shown on the illustration above.

4A. **Furring Channels —** (Alternate to Item 4) Hat shaped channels, 7/8 in. deep, formed from min 25 MSG galv steel installed perpendicular to steel framing members spaced 16 in. OC. Furring channels overlapped 2-1/2 in. at splices and secured to steel framing members with two 2-1/4 in. long Type S steel screws after first, second and third layers of gypsum board are secured to steel framing members. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint.

5. **Gypsum Board* —** Four layers of nom 5/8 in. thick, 4 ft wide gypsum board. First three layers installed with long dimension perpendicular to cross-tees. Adjacent butt joints staggered approximately 16 in. OC with butt joints centered over cross tees. Overlapping layers installed so that tapered edges offset min 10 in. from previous layer. Base layer fastened to suspension system with 1-1/4 in. long Type S or S-12 steel screws spaced 12 in. OC. Second layer secured to suspension system with 2 in. long Type S or S-12 steel screws spaced 12 in. OC. Third layer secured to suspension system with 2-1/2 in Type S or S-12 steel screws spaced 12 in. OC. Fourth layer secured to resilient channels or furring channels with 1 in. long Type S steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.
AMERICAN GYPSUM CO — Types AGX-1, AG-C, LightRoc

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types C, IP-X1, IP-X2, SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Types C, SCX

NATIONAL GYPSUM CO — eXP-C, FSK, FSK-C, FSK-G, FSL, FSMR-C, FSW, FSW-3, FSW-C, FSW-G, FSW-8

6. **Finishing System —** (Not Shown) Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board if specified by the manufacturer.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-07-27

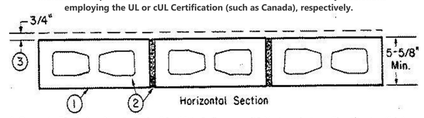
X1 UL DESIGN U906

Design No. U906

June 6, 2022

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr). See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units* —** As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-06-06

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COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611566
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

FIRE RATED ASSEMBLIES

LS1.3

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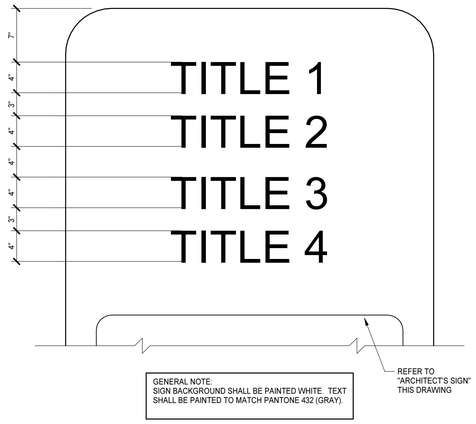
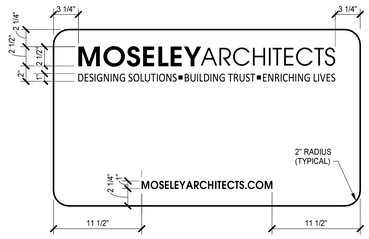


TEXT LAYOUT ELEVATION

1 1/2" = 1'-0"



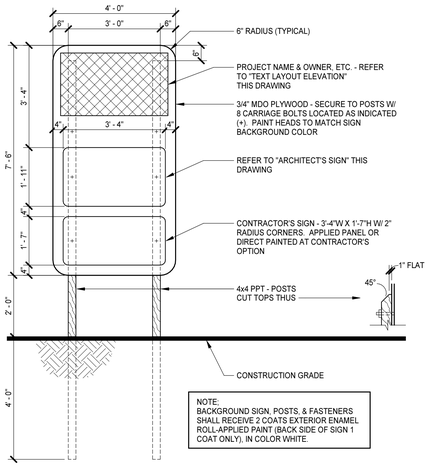
SIZE: 1'-11" VERTICAL x 3'-4" HORIZONTAL

NOTES:
"MOSELEY" TEXT IN LOGO AND WEB ADDRESS IS PMS 485. BULLETS ARE PMS 485, ALL OTHER TEXT AND BORDER IS PMS 432. BACKGROUND IS WHITE.

FONT FOR "DESIGNING SOLUTIONS BUILDING TRUST ENRICHING LIVES" TEXT IS CALIBRI, ALL OTHER TEXT IS AVANTGARDE FONT.

ARCHITECT'S SIGN

1 1/2" = 1'-0"



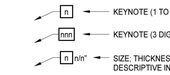
PROJECT SIGN ELEVATION

1/2" = 1'-0"

ARCHITECTURAL ABBREVIATIONS

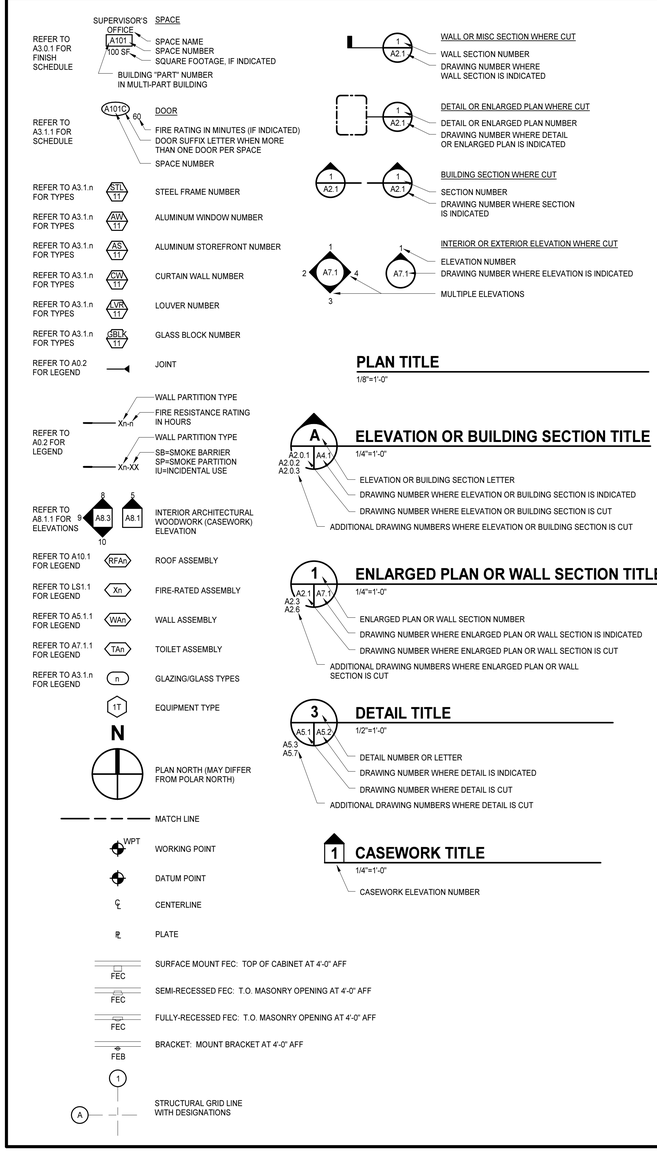
A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ARCHITECTURAL PRECAST CONCRETE
ARC	ABUSE RESISTANT COATING
AS	ALUMINUM STOREFRONT
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ALUMINUM WINDOW
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BF	BARRIER FREE (ADA or A117.1)
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C	CARPET
C-TILE	CARPET TILE
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CFSF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
CFSF-S	COLD FORMED STEEL FRAMING, STRUCTURAL
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CIPC	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMBD	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED
CMU-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONC-P	CONCRETE WITH PIGMENT
CONC-POL	CONCRETE WITH POLISH
CONC-SLR	CONCRETE WITH SEALER / HARDENER
CONC-ST	CONCRETE WITH STAIN
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CSMU	CAST STONE MASONRY UNIT
CT	CERAMIC TILE
CTSK	COUNTERSINK, COUNTERSUNK
CU FT	CUBIC FEET / FOOT
CUST	CUSTODIAN / CUSTODIAL
CW	ALUMINUM CURTAIN WALL
CWFD	CEMENTITIOUS WOOD FIBER DECK
D	DEPTH/DEEP
DBL	DOUBLE
DEMO	DEMOLITION
DETE	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DOOR LOUVER
DN	DOWN
DP	DAMPPROOFING
DR	DISPLAY RAIL
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXPC	EXPOSED CONSTRUCTION
EXT	EXTERIOR
FAAF	FLUID APPLIED ATHLETIC FLOORING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FLR	FLOOR
FLRG	FLOORING
FND	FOUNDATION
FO	FACE OF
FRM	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GB-AR	GYPSUM BOARD - ABUSE RESISTANT
GB-IR	GYPSUM BOARD - IMPACT RESISTANT
GB-S	GYPSUM BOARD - SECURITY
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GL-BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GRT	GROUT
GSFT	GLAZED STRUCTURAL FACING TILE
GT	GLASS TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP HD	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTN	PARTITION
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
R/W	RIGHT OF WAY
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D)
REM	RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RFT	RUBBER FLOOR TILE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
RT	RIGHT
RTU	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWM	SECURITY WOVEN MESH / WOVEN ROD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TACKBOARD
TCF	TEXTILE COMPOSITE FLOORING
TEL	TELEPHONE
TERR-C	TERRAZZO CEMENTITIOUS
TERR-E	TERRAZZO EPOXY
TERR-R	TERRAZZO RUBBERIZED
THHD	THRESHOLD
THK	THICKNESS, THICK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED (INDICATED) OTHERWISE
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VFCT	VINYL FREE COMPOSITION TILE
VFWC	VINYL FREE WALLCOVERING
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCP	WOOD CEILING PANEL
WD	WOOD
WDW	WINDOW
WFM	WOVEN FLOOR MATERIAL
WP	WATERPROOFING
WPT	WORKING POINT
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE

KEYNOTES



1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND



ARCHITECTURAL GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

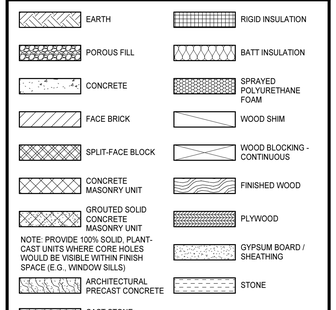
C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND



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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

7/1/2022 11:15:53 AM

TERMINATION GENERAL NOTES

A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

WALL JOINT GENERAL NOTES

A. DRAWINGS MAY INDICATE AESTHETIC AND FUNCTIONAL WALL JOINTS.

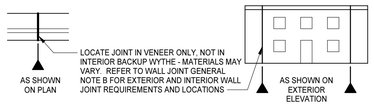
B. REFER TO SPECIFICATIONS AND REFERENCED STANDARDS FOR ADDITIONAL WALL JOINT REQUIREMENTS.
- EXTERIOR: LOCATE AS SHOWN ON DRAWINGS
- INTERIOR: LOCATE PER DRAWINGS, IF SHOWN, AND WHERE NOT SHOWN, LOCATE IN ACCORDANCE WITH SPECIFICATIONS.
- DO NOT ALIGN EXTERIOR JOINTS W/ INTERIOR, BACK-UP WYTHE JOINTS, UNLESS SPECIFICALLY SHOWN TO ALIGN

C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. VERIFY ACTUAL FIELD CONDITIONS AND ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH REFERENCED STANDARDS.

D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.

E. WHEN USED HEREIN "RATED" MEANS: FIRE, SMOKE, AND/OR ACOUSTICAL.

EXTERIOR WALL JOINT GRAPHIC SYMBOLS



WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.

C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:
- MASONRY WALLS/PARTITIONS
- LINTELS
- LINTEL BEARING CONDITIONS
- BOND BEAMS
- SHELF BEARING CONDITIONS
- STRUCTURAL REINFORCING REQUIREMENTS
- CHANGES IN WYTHE

F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

G. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.
- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:
- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

J. SEAL AROUND ALL PENETRATIONS.

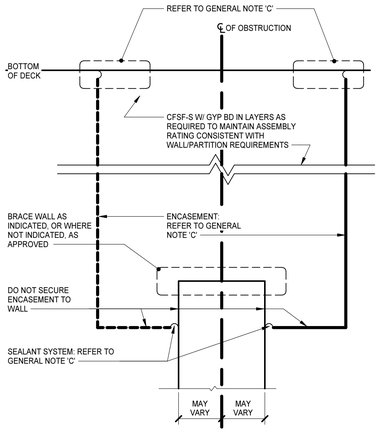
K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.
- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

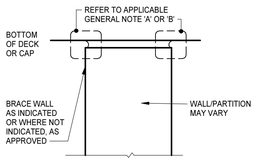
N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION

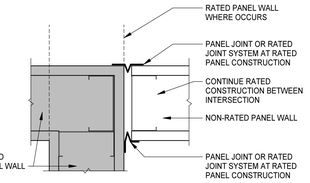
OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

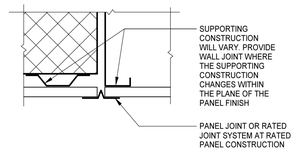
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

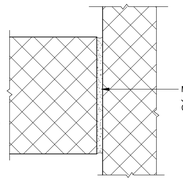


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

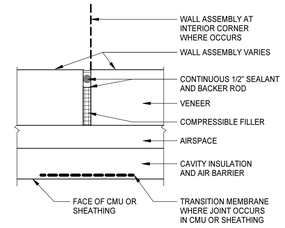
CMU/ CFSF



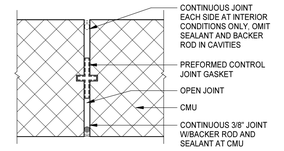
EQUAL BEARING CMU INTERSECTIONS



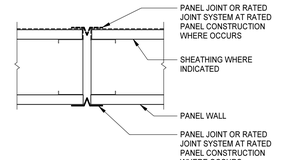
VENEER/ CAVITY



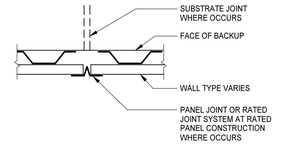
CMU



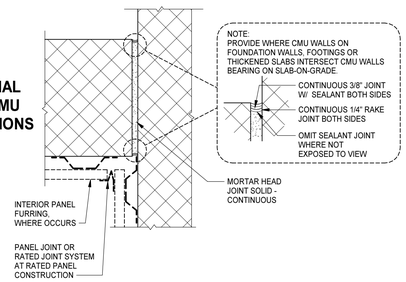
CFSF/ PANELS



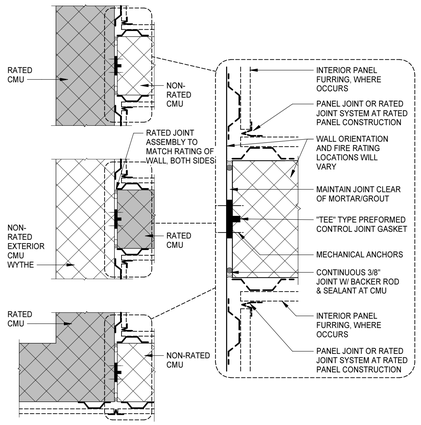
PANEL



DIFFERENTIAL BEARING CMU INTERSECTIONS



RATED/ NON-RATED CMU



NOTE:
RATED WALLS SHADED FOR CLARITY THIS DETAIL

MASONRY UNIT WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M1	--	--	5 5/8" — 6" CMU
M1-2	X1	2HR FIRE BARRIER	5 5/8" — 6" CMU
M2	--	--	7 5/8" — 8" CMU
M2-2	X1	2HR FIRE WALL	7 5/8" — 8" CMU
M3	--	--	9 5/8" — 10" CMU
M4	--	--	3 5/8" — 4" CMU

PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	--	--	4 7/8" — 3 5/8" CFSF-NS; 5/8" GYPSUM BOARD
P1a	--	--	7 1/4" — 6" CFSF-NS; 5/8" GYPSUM BOARD
P1b	--	--	3 3/4" — 5/8" GYPSUM BOARD; 2 1/2" CFSF-NS
P2	--	--	4 1/4" — 3 5/8" CFSF-NS; 5/8" GYPSUM BOARD
P2a	--	--	6 5/8" — 6" CFSF-NS; 5/8" GYPSUM BOARD
P2b	--	--	3 1/8" — 5/8" GYPSUM BOARD; 2 1/2" CFSF-NS
P3	--	--	5" — 3 5/8" CFSF-NS; 5/8" GYPSUM BOARD; 3/4" WOOD VENEER
P3a	--	--	3 7/8" — 2 1/2" CFSF-NS; 5/8" GYPSUM BOARD; 3/4" WOOD VENEER
P4	--	APPLY OVER EXISTING GWT ON CMU WALLS WHERE OCCURS. SHIM AS REQ'D TO BE FLUSH FULL HEIGHT.	1 1/2" — 5/8" IMPACT RESISTANT GYPSUM BOARD; 7/8" CFSF-NS FURRING

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

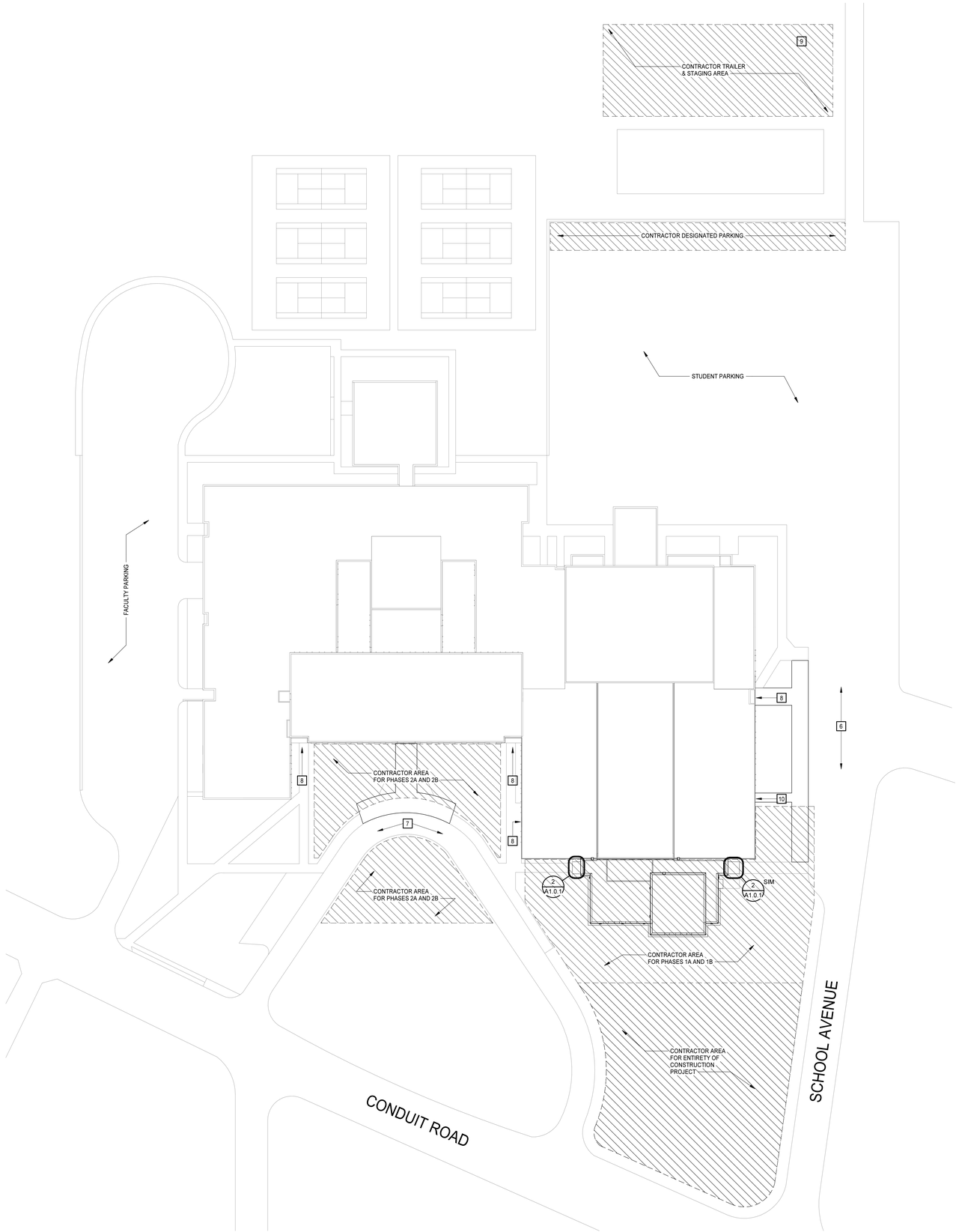
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

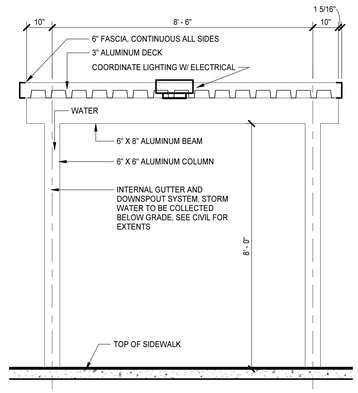
A0.2

7/1/2022 11:15:56 AM



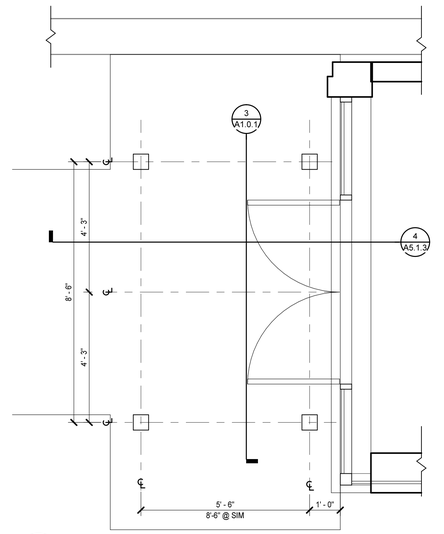
ARCHITECTURAL PHASING SITE PLAN

1" = 40'-0"



3 CANOPY SECTION

A1.0.1 A1.0.1 1/2" = 1'-0"



2 CANOPY PLAN

A1.0.1 A1.0.1 1/2" = 1'-0"

PHASING PLAN GENERAL NOTES

A. TIME PERIODS GIVEN ARE APPROXIMATE. EXACT PHASE DATES WILL BE SET AS THE SCHOOL CALENDAR BECOMES AVAILABLE FOR EACH UPCOMING YEAR. IT IS EXPECTED THAT PHASE CHANGES WILL ALIGN TO SCHOOL CALENDAR. SPECIFIC DATES THAT AFFECT OCCUPANCY OR INCUR LIQUIDATED DAMAGES ARE PROVIDED IN THE PROJECT MANUAL.

B. THE "MAIN AREA OF WORK" IN EACH PHASE MUST BE SEPARATED FROM BUILDING OCCUPANTS BY TEMPORARY INTERIOR CONSTRUCTION BARRIERS AND EXTERIOR FENCING. SMALL AREAS OF WORK OUTSIDE OF THESE BOUNDARIES MAY BE REQUIRED IN EACH PHASE, AND MUST OCCUR DURING NON-INSTRUCTIONAL HOURS.

C. OWNER SHALL BE RESPONSIBLE FOR MOVING ALL ITEMS FROM WORK AREA PRIOR TO START OF EACH PHASE AND BETWEEN PHASES. CONTRACTOR SHALL PROVIDE FOUR (4) WEEKS ADVANCE NOTICE BEFORE START OF EACH NEW PHASE.

PHASING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.0.1 - A1.0.2

1 ELECTRICAL SWITCHGEAR REPLACEMENT SHALL OCCUR SUMMER 2023 WHEN SCHOOL IS NOT IN SESSION. THE NEW SWTICHGEAR EQUIPMENT MUST BE FULLY OPERATIONAL PRIOR TO BEGINNING OF FALL 2023 SCHOOL SEMESTER. REMOVE DOOR AND PARTIALLY DEMOLISH WALL IF NECESSARY TO INSTALL NEW SWITCHGEAR. DEPENDENT ON EQUIPMENT SIZE. PATCH WALL AND PROVIDE NEW DOOR AFTER INSTALLATION IS COMPLETE.

2 COMPLETE WORK IN THIS AREA PRIOR TO BEGINNING OF FALL 2023 SCHOOL SEMESTER

3 COMPLETE PHASE 1A AND 1B PRIOR TO BEGINNING OF FALL 2023 SCHOOL SEMESTER. AREAS SHALL BE FULLY OPERATIONAL AND TEMPORARY CERTIFICATE OF OCCUPANCY SHALL BE OBTAINED.

4 DASHED LINE INDICATES LOCATION OF TEMPORARY INTERIOR PARTITION, TYP FOR ALL PHASING PLANS. REFER TO SPECIFICATIONS FOR PARTITION REQUIREMENTS.

5 PROVIDE EGRESS DOOR IN TEMPORARY PARTITION

6 MAINTAIN VEHICLE ACCESS ALONG SCHOOL AVENUE AND TO SCHOOL PARKING AREAS THROUGHOUT ENTIRE CONSTRUCTION PROJECT.

7 MAINTAIN VEHICLE LOOP ACCESS THROUGHOUT ENTIRE CONSTRUCTION PROJECT. COORDINATE WITH OWNER IF LOOP NEEDS TO BE BLOCKED OFF TEMPORARILY FOR CONSTRUCTION PURPOSES.

8 MAINTAIN BUILDING MEANS OF EGRESS THROUGH ENTIRE CONSTRUCTION PROJECT.

9 PROVIDE TEMPORARY POWER FROM DOMINION POWER TO CONTRACTOR TRAILERS.

10 MAINTAIN BUILDING MEANS OF EGRESS FROM START OF PHASE 1A THROUGH START OF PHASE 1B

11 TEMPORARY ADMINISTRATION AREA DURING PHASE 2B. COORDINATE WITH OWNER TEMPORARY POWER AND DATA REQUIREMENTS.

12 MAINTAIN ACCESS TO JANITOR CLOSET AND BOYS TOILET ROOM. COORDINATE WITH OWNER TIMES WHEN THESE SPACES WILL BE INACCESSIBLE DUE TO FLOOR RENOVATION.

13 MAINTAIN ACCESS TO COURTYARDS.

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ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

ARCHITECTURAL SITE PLAN

A1.0.1

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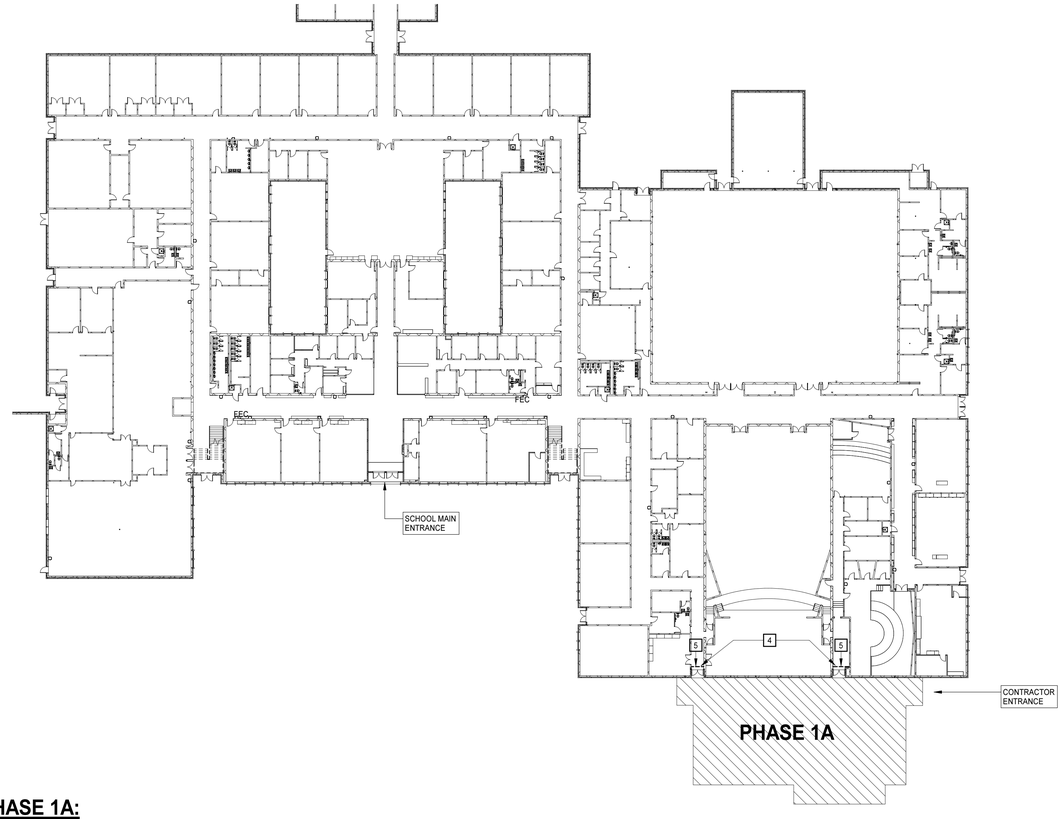
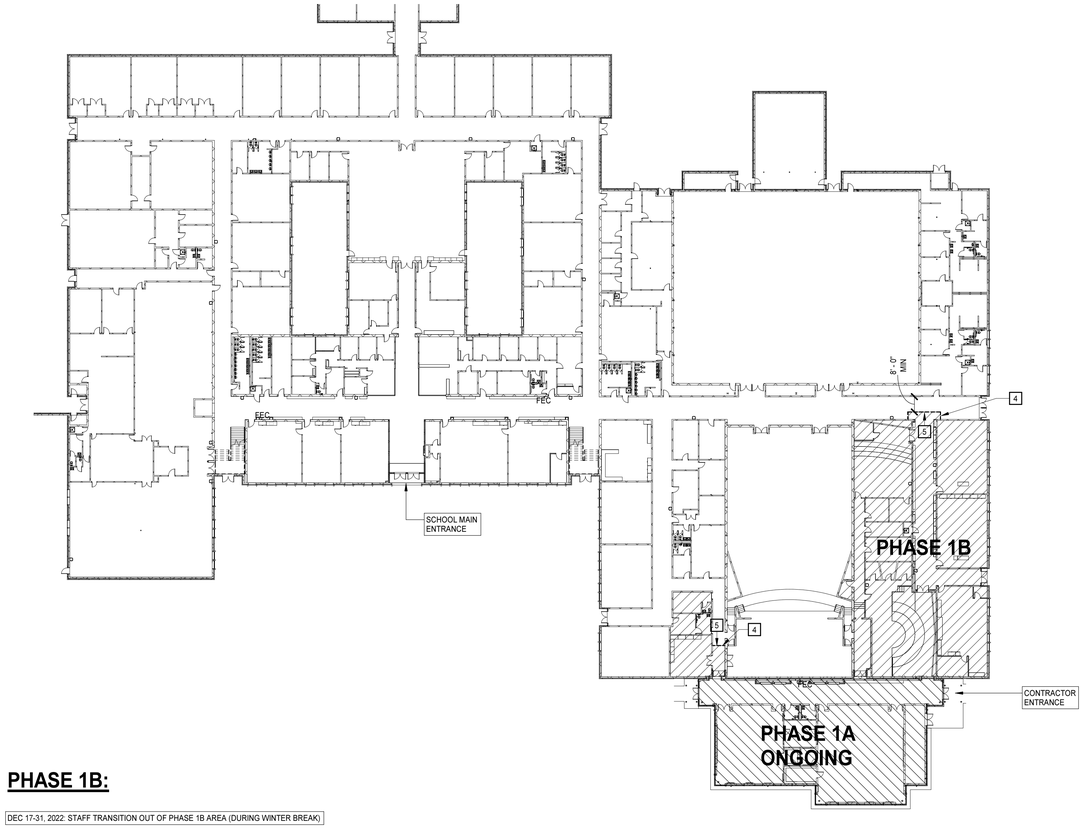


PHASE 1A:

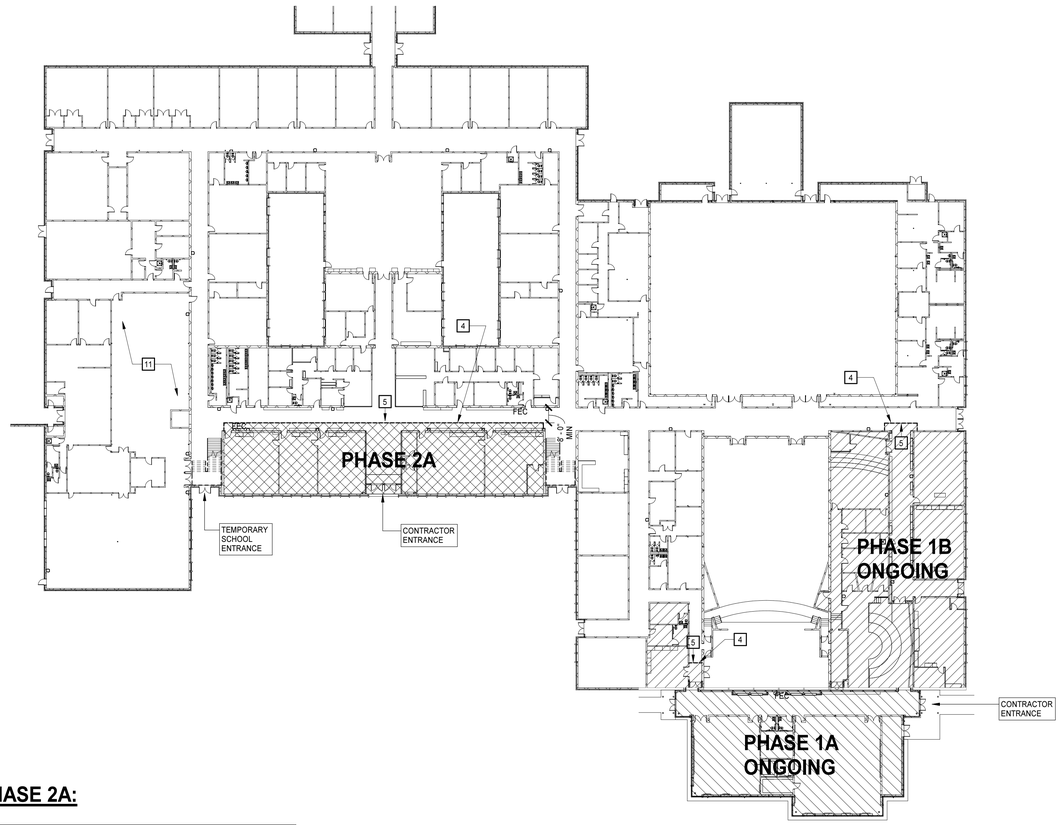
NOTICE TO PROCEED DATE THRU AUG 15, 2023: PHASE 1A CONSTRUCTION



PHASE 1B:

DEC 17-31, 2022: STAFF TRANSITION OUT OF PHASE 1B AREA (DURING WINTER BREAK)

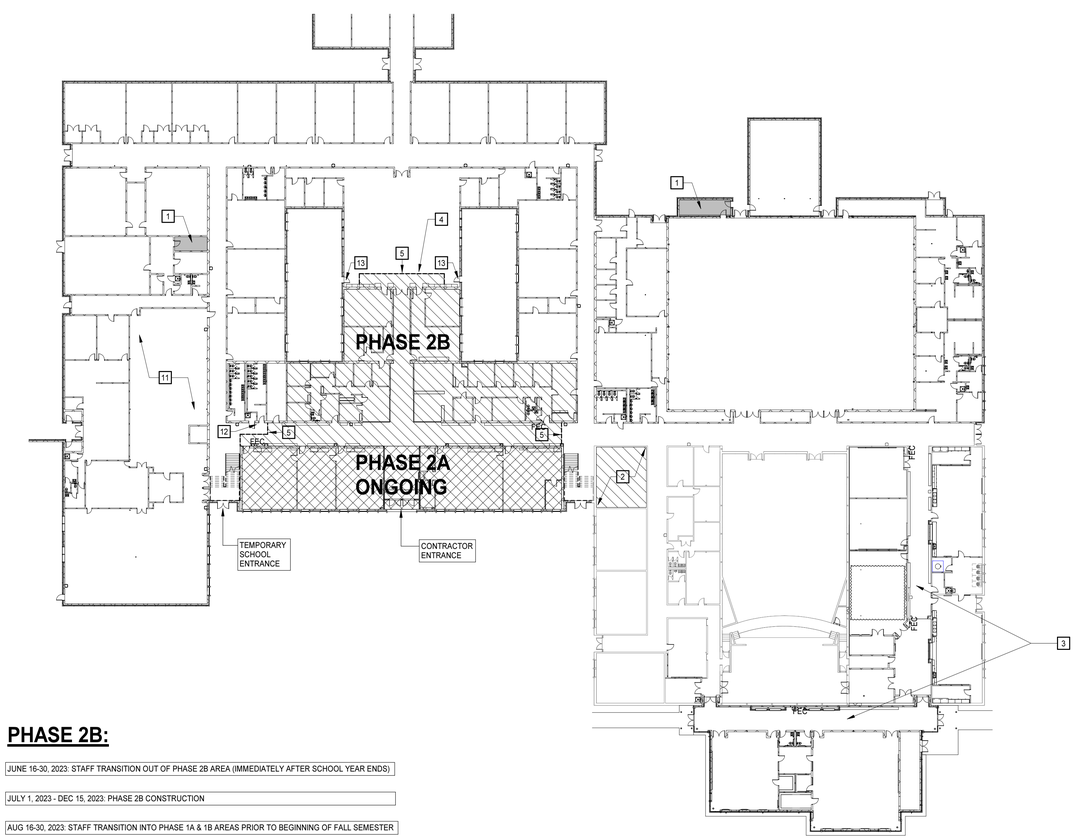
JAN 1, 2023 - AUG 15, 2023: PHASE 1B CONSTRUCTION



PHASE 2A:

APRIL 1-14, 2023: STAFF TRANSITION OUT OF PHASE 2A AREA (DURING SPRING BREAK)

APRIL 15, 2023 - DEC 15, 2023: PHASE 2A CONSTRUCTION



PHASE 2B:

JUNE 16-30, 2023: STAFF TRANSITION OUT OF PHASE 2B AREA (IMMEDIATELY AFTER SCHOOL YEAR ENDS)

JULY 1, 2023 - DEC 15, 2023: PHASE 2B CONSTRUCTION

AUG 16-30, 2023: STAFF TRANSITION INTO PHASE 1A & 1B AREAS PRIOR TO BEGINNING OF FALL SEMESTER

DEC 16-31, 2023: STAFF TRANSITION INTO PHASE 2A & 2B AREAS (DURING WINTER BREAK)

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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3600 Conduit Rd, Colonial Heights, VA 23834

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DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

PHASING PLANS

A1.0.2

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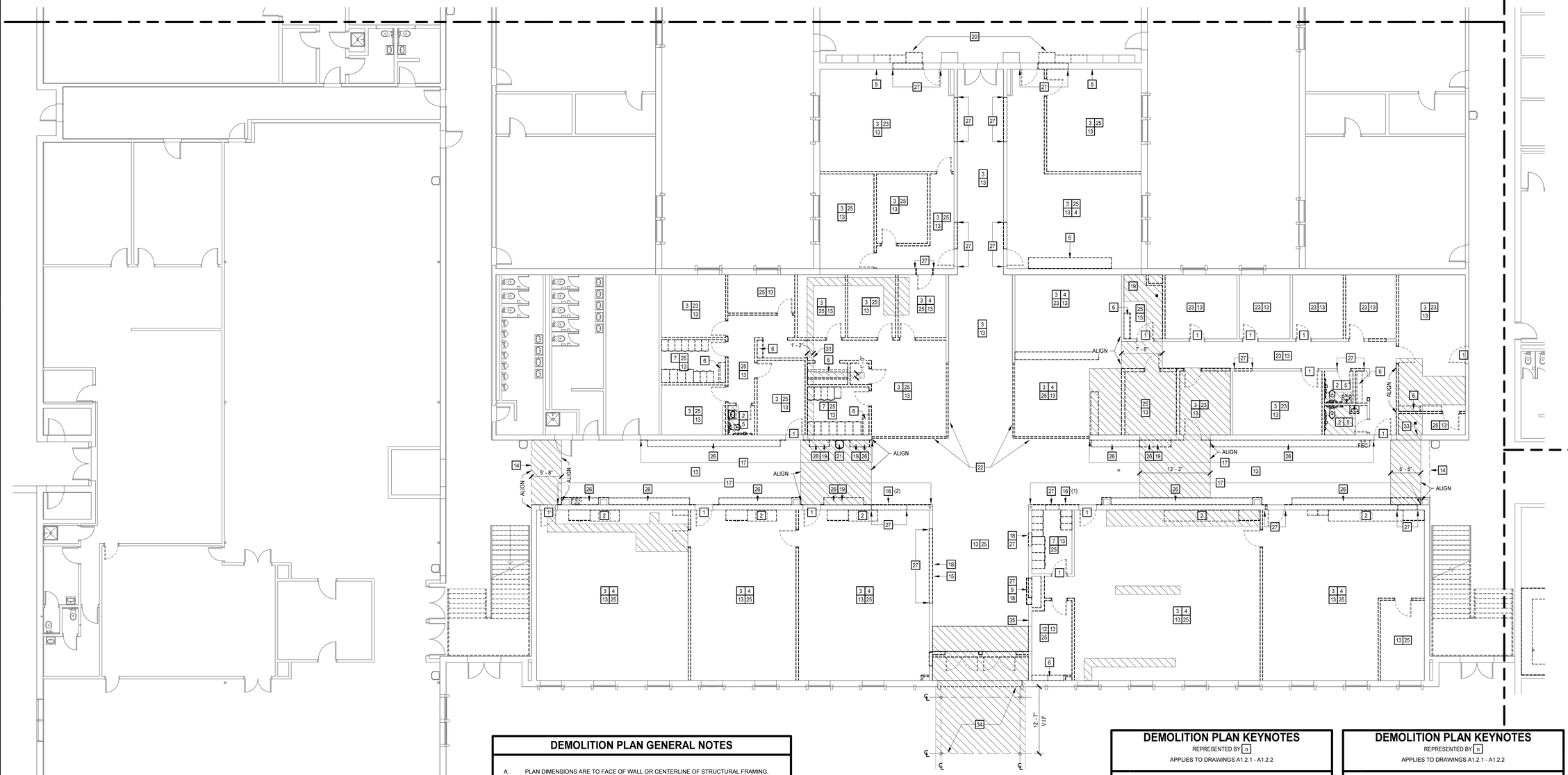

1 A5.1.1 A1.2.1 **DEMOLITION FIRST FLOOR PLAN - PART A**

1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR CENTERLINE OF STRUCTURAL FRAMING, UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE; FIELD VERIFY ALL DIMENSIONS.

B. DEMOLITION WORK NOTED ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING RENOVATION FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISH CONSTRUCTION AND NEW WORK TO CONFORM TO CONTRACT DOCUMENTS.

C. REPRESENTATIONS OF EXISTING ITEMS REQUIRING REMOVAL ARE TO BE CONSIDERED GENERAL IN NATURE BASED UPON INFORMATION PROVIDED IN RECORD DRAWINGS AND FIELD OBSERVATIONS. THIS DEMOLITION PLAN AND THE DEMOLITION PLANS BY OTHER DISCIPLINES ARE NOT INTENDED TO BE COMPREHENSIVE IN ALL DETAILS OF EXISTING CONSTRUCTION THAT REQUIRE REMOVAL TO COMPLETE THE WORK OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON NOTICE OF A DISCREPANCY BETWEEN THE DEMOLITION DRAWINGS, EXISTING CONDITIONS, AND NEW WORK INDICATED.

D. REFER TO APPLICABLE PLUMBING, MECHANICAL, AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

E. ITEMS IDENTIFIED TO BE SALVAGED SHALL BE DELIVERED TO A STORAGE AREA LOCATED ON SITE DESIGNATED BY THE OWNER FOR THIS PURPOSE. ITEMS OWNER CHOOSES TO RETAIN SHALL BE RELOCATED FROM THE STORAGE AREA BY OWNER. ALL OTHER ITEMS SHALL BE SUBSEQUENTLY REMOVED & DISPOSED OF BY THE CONTRACTOR.

F. WHERE REMOVAL OF EXISTING CMU WALLS (IN PART OR IN FULL) OCCURS, REMOVE BLOCK 4" MINIMUM BELOW FLOOR SLAB WHEN EXISTING WALL CONTINUES THROUGH THE SLAB AND REPLACE CONCRETE SLAB. SOME NON-LOAD BEARING WALLS SIT ON MONOLITHIC POURED TERRAZZO. CAREFULLY REMOVE WALLS AS TO NOT DAMAGE TERRAZZO FLOORING AT THESE LOCATIONS.

G. NOT ALL ITEMS TO BE REMOVED ARE NUMBERED WITH KEYNOTES. REFER TO DEMOLITION LEGEND AND THESE GENERAL NOTES AND SPECIFICATION SECTION 024119 "SELECTIVE DEMOLITION".

H. REFER TO DIVISION 1 AND 2 SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DEMOLITION WORK. COORDINATE DEMOLITION WORK WITH OTHER TRADES.

I. PROTECT ALL WORK THAT IS INDICATED TO REMAIN DURING THE DEMOLITION PROCESS. PROMPLTY REPAIR ANY DAMAGE TO PRE-DEMOLITION CONDITIONS.

J. WHERE DEMOLITION WORK EXPOSES SURFACES SCHEDULED TO RECEIVE NEW FINISH, THE EXPOSED SURFACE SHALL BE PREPARED AS REQUIRED BY SPECIFICATIONS AND MANUFACTURER FOR ACCEPTABLE INSTALLATION OF THE WORK.

K. EXISTING CONSTRUCTION SHALL BE SHORED AND BRACED AS REQUIRED DURING DEMOLITION AND CONSTRUCTION.

L. COORDINATE IN THE FIELD WITH OWNER/ARCHITECT ALL EXISTING ITEMS TO BE SALVAGED PRIOR TO STARTING DEMOLITION. SALVAGED ITEMS SHALL BE STORED AS DIRECTED BY OWNER.

M. KEYED DEMOLITION NOTES USED WITHOUT LEADERS ARE INTENDED TO APPLY TO THE ENTIRE SPACE/ROOM UNLESS NOTED OTHERWISE.

N. DEMO ENOUGH OF EXISTING PARTITIONS TO ALLOW TOOTHING IN OF MASONRY TO MATCH EXISTING COURSING AND PATTERN AT NEW FRAME LOCATIONS.

O. ALL EXPOSED SURFACES AFFECTED BY THE DEMOLITION WORK SHALL BE PATCHED TO MATCH EXISTING ADJACENT SURFACE UNLESS NOTED OTHERWISE.

P. EXISTING MATERIALS AND ITEMS NOT USED AS PART OF NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO PIPING, DUCTS, CONDUITS, HANGERS, DRAINS, AND JUNCTION BOXES SHALL BE REMOVED AND NOT ABANDONED IN PLACE UNLESS REMOVAL IS NOT POSSIBLE (AS DETERMINED BY THE ARCHITECT/OWNER)

Q. PATCH, REPAIR, OR FILL ALL EXISTING INTERIOR WALL LOCATIONS WHERE EXISTING DUCTWORK OR PIPING HAS BEEN REMOVED WITH SAME CONSTRUCTION TYPE AS EXISTING WALL.

DEMOLITION PLAN GENERAL NOTES

R. UNLESS NOTED OTHERWISE, ALL INTERIOR CMU PARTITIONS INDICATED TO BE DEMOLISHED IN THEIR ENTIRETY SHALL BE DONE SO PER REQUIREMENTS OF THE HAZARDOUS MATERIALS SPECIFICATIONS.

S. COORDINATE WITH ARCHITECT PRIOR TO DEMOLITION THE DESIGN INTENT FOR SLAB CUTTING AND PATCHING. REFER TO DEMOLITION, ARCHITECTURAL, AND FINISH FLOOR PLANS FOR AREAS WHERE SPECIFIC LOCATIONS AND DIMENSIONS ARE INDICATED.

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A2.1 & A2.2

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING FRAME, DOOR PANELS, AND HARDWARE. REFER TO DOOR SCHEDULE ON A3.1.1
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING FLOOR SLAB TO THE EXTENTS REQUIRED TO RECIEVE NEW WORK. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL AREAS OF SLAB REMOVAL THAT MAY BE REQUIRED FOR NEW WORK.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.1 - A1.2.2

1 REMOVE DOOR AND ASSOCIATED HARDWARE. EXISTING DOOR FRAME TO REMAIN. CUT AND PATCH FRAME TO RECEIVE NEW HARDWARE

2 REMOVE ALL PLUMBING FIXTURES AND ALL TOILET AND SINK ACCESSORIES. (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)

3 REMOVE ALL TACKBOARDS, TACKSTRIPS, MARKERBOARDS, CHALKBOARDS, WOOD TRIM, TYP. PATCH AND REPAIR EXISTING WALL TO RECEIVE NEW WORK.

4 REMOVE ALL BASE AND WALL CABINETS, AND REMOVE ALL COUNTERTOPS, INCLUDING ALL ACCESSORIES, ROUGH-INS, BUILT-IN FIXTURES, AND BUILT-IN ELECTRICAL CONNECTIONS.

5 REMOVE WALL TILE AT LOCATIONS WHERE EXISTING CMU WALLS ARE TO REMAIN. REMOVE ALL ASSOCIATED MORTAR, TILE, AND BACKING MESH; CLEAN AND PREPARE EXISTING CMU WALL TO RECIEVE NEW WORK. REFER TO FINISH SCHEDULE.

6 REMOVE ALL BUILT-IN SHELVING, INCLUDING ALL ACCESSORIES AND HARDWARE.

7 SALVAGE EXISTING FILING CABINETS AND STORE IN OWNER PROVIDED LOCATION ON SITE.

8 SALVAGE EXISTING DISPLAY CASES AND STORE IN OWNER PROVIDED LOCATION ON SITE.

9 REMOVE EXISTING DISPLAY CASES TO EXTENT INDICATED.

10 REMOVE HANDRAILS AND ASSOCIATED HARDWARE AS REQUIRED FOR THE INSTALLATION OF NEW WORK. STAIRS TO REMAIN.

11 SALVAGE EXISTING KILN AND STORE IN OWNER PROVIDED LOCATION. REMOVE ASSOCIATED DUCT WORK.

12 EXISTING DATA RACK AND ASSOCIATED CABLES/ACCESSORIES TO REMAIN.

13 REMOVE ALL CEILINGS, CEILING TILE, GRID, HANGERS, AND LIGHTING AND PREPARE TO RECEIVE NEW WORK.

14 CEILINGS BEYOND DEMARCATION LINE TO REMAIN.

15 SALVAGE EXISTING PLAQUE AND STORE IN OWNER PROVIDED LOCATION ON SITE.

16 SALVAGE EXISTING WALL MOUNTED DISPLAY BOARDS AND STORE IN OWNER PROVIDED LOCATION.

17 DEMOLISH GLAZED WALL TILE AT AREAS INDICATED, AND TO EXTENT REQUIRED TO COMPLETE NEW WORK.

18 SALVAGE EXISTING BRICK VENEER TO EXTENT REQUIRED TO COMPLETE NEW WORK.

19 REMOVE EXISTING CONCRETE CURB/PAD/BASE TO EXTENT REQUIRED TO COMPLETE NEW WORK. PREPARE SLAB TO RECEIVE SCHEDULED FLOOR FINISH.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.1 - A1.2.2

20 SALVAGE EXISTING BOOKSHELVES AS INDICATED AND DELIVER TO OWNER.

21 SALVAGE WATER FOUNTAIN AND DELIVER TO OWNER.

22 REMOVE GLASS WALL ASSEMBLY INCLUDING GLASS, FRAME, TRANSOM, PANELS, RAILS, AND ALL ASSOCIATED HARDWARE AND SEALANTS.

23 REMOVE ALL EXISTING APPLIED FLOOR FINISHES INCLUDING, VCT, CARPET, TILE, AND ALL WALL BASE MATERIALS. PREPARE EXISTING TERRAZZO FOR INSTALLATION OF NEW WORK (WHERE OCCURS) REFER TO THE FINISH SCHEDULE ON A3.0.1.

24 REMOVE LOCKSET, DOOR HANDLE, AND DOOR CLOSER.

25 REMOVE WALL BASE IN ITS ENTIRETY AND PREP TO RECEIVE FUTURE FINISHES. REFER TO FINISH SCHEDULE.

26 REMOVE EXISTING LOCKERS AND ASSOCIATED TRIM/ANCHORS. PATCH WALL TO RECEIVE NEW WORK. CONCRETE BASE TO REMAIN UNLESS NOTED OTHERWISE.

27 STRIP BLOCK FILLER PAINT, BOTH SIDES, AS REQUIRED PER HAZARDOUS MATERIALS SPECIFICATIONS PRIOR TO REMOVAL OF PORTION OF WALL.

29 REMOVE ACOUSTICAL WALL COVERING MATERIAL AS REQUIRED PER HAZARDOUS MATERIALS SPECIFICATION

30 EXISTING GLAZED WALL TILE TO REMAIN AND SHALL BE FURRED OUT. REFER TO A0.2

31 INTENT IS FOR CASEWORK BASE CABINETS TO COVER SLAB PATCHING

32 ALIGN DOOR OPENING WITH EXISTING PUNCHED WINDOW OPENING. COORDINATE WITH EQUIPMENT IN CONTROL ROOM TO ALLOW FULL DOOR SWING CLEARANCE.

33 PARTIAL WALL DEMOLITION REQUIRED FOR PLUMBING WORK SHALL OCCUR ON THIS SIDE. OPPOSITE SIDE OF WALL AND ASSOCIATED WALL FINISH SHALL REMAIN UNDISTURBED.

34 REMOVE EXTERIOR CONCRETE RAMP AND HANDRAILS

35 SALVAGE EXISTING TV MONITOR AND STORE IN OWNER PROVIDED LOCATION ON SITE.

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STEPHEN ELLIS HALSEY
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07-01-2022
ARCHITECT

KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

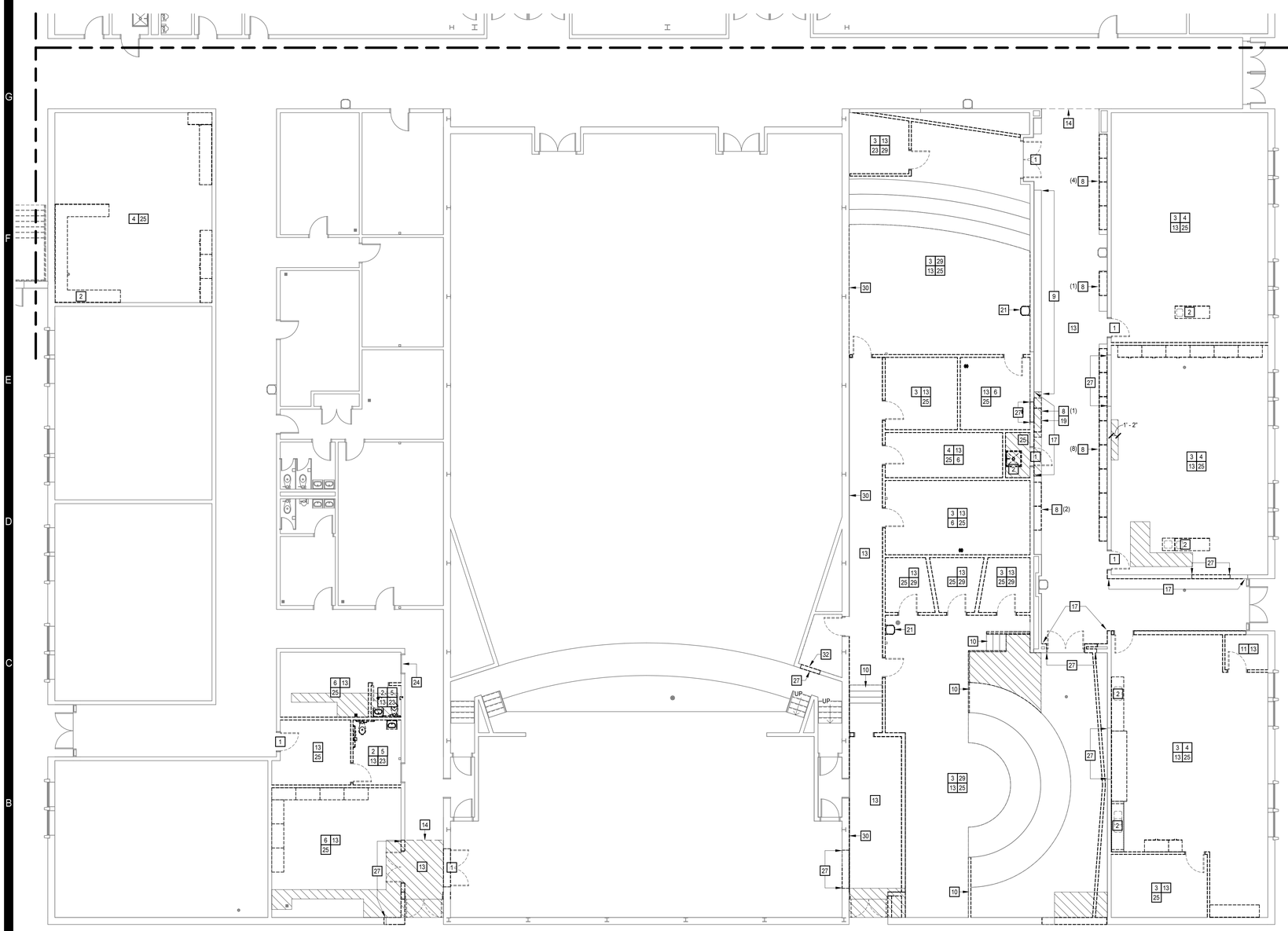
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

DEMOLITION FIRST FLOOR PLAN - PART A

A1.2.1

7/1/2022 11:16:21 AM



1 A5.1.1 A1.2.2 **DEMOLITION FIRST FLOOR PLAN - PART D**
1/8" = 1'-0"

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.1 - A1.2.2

1 REMOVE DOOR AND ASSOCIATED HARDWARE. EXISTING DOOR FRAME TO REMAIN. CUT AND PATCH FRAME TO RECEIVE NEW HARDWARE

2 REMOVE ALL PLUMBING FIXTURES AND ALL TOILET AND SINK ACCESSORIES. (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)

3 REMOVE ALL TACKBOARDS, TACKSTRIPS, MARKERBOARDS, CHALKBOARDS, WOOD TRIM, TYP. PATCH AND REPAIR EXISTING WALL TO RECEIVE NEW WORK.

4 REMOVE ALL BASE AND WALL CABINETS, AND REMOVE ALL COUNTERTOPS, INCLUDING ALL ACCESSORIES, ROUGH-INS, BUILT-IN FIXTURES, AND BUILT-IN ELECTRICAL CONNECTIONS.

5 REMOVE WALL TILE AT LOCATIONS WHERE EXISTING CMU WALLS ARE TO REMAIN. REMOVE ALL ASSOCIATED MORTAR, TILE, AND BACKING MESH; CLEAN AND PREPARE EXISTING CMU WALL TO RECIEVE NEW WORK. REFER TO FINISH SCHEDULE.

6 REMOVE ALL BUILT-IN SHELVING, INCLUDING ALL ACCESSORIES AND HARDWARE.

7 SALVAGE EXISTING FILING CABINETS AND STORE IN OWNER PROVIDED LOCATION ON SITE.

8 SALVAGE EXISTING DISPLAY CASES AND STORE IN OWNER PROVIDED LOCATION ON SITE.

9 REMOVE EXISTING DISPLAY CASES TO EXTENT INDICATED.

10 REMOVE HANDRAILS AND ASSOCIATED HARDWARE AS REQUIRED FOR THE INSTALLATION OF NEW WORK. STAIRS TO REMAIN.

11 SALVAGE EXISTING KILN AND STORE IN OWNER PROVIDED LOCATION. REMOVE ASSOCIATED DUCT WORK.

12 EXISTING DATA RACK AND ASSOCIATED CABLES/ACCESSORIES TO REMAIN.

13 REMOVE ALL CEILINGS, CEILING TILE, GRID, HANGERS, AND LIGHTING AND PREPARE TO RECEIVE NEW WORK.

14 CEILINGS BEYOND DEMARCATION LINE TO REMAIN.

15 SALVAGE EXISTING PLAQUE AND STORE IN OWNER PROVIDED LOCATION ON SITE.

16 SALVAGE EXISTING WALL MOUNTED DISPLAY BOARDS AND STORE IN OWNER PROVIDED LOCATION.

17 DEMOLISH GLAZED WALL TILE AT AREAS INDICATED, AND TO EXTENT REQUIRED TO COMPLETE NEW WORK.

18 SALVAGE EXISTING BRICK VENEER TO EXTENT REQUIRED TO COMPLETE NEW WORK.

19 REMOVE EXISTING CONCRETE CURB/PAD/BASE TO EXTENT REQUIRED TO COMPLETE NEW WORK. PREPARE SLAB TO RECEIVE SCHEDULED FLOOR FINISH.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.1 - A1.2.2

20 SALVAGE EXISTING BOOKSHELVES AS INDICATED AND DELIVER TO OWNER.

21 SALVAGE WATER FOUNTAIN AND DELIVER TO OWNER.

22 REMOVE GLASS WALL ASSEMBLY INCLUDING GLASS, FRAME, TRANSOM, PANELS, RAILS, AND ALL ASSOCIATED HARDWARE AND SEALANTS.

23 REMOVE ALL EXISTING APPLIED FLOOR FINISHES INCLUDING, VCT, CARPET, TILE, AND ALL WALL BASE MATERIALS. PREPARE EXISTING TERRAZZO FOR INSTALLATION OF NEW WORK (WHERE OCCURS) REFER TO THE FINISH SCHEDULE ON A3.0.1.

24 REMOVE LOCKSET, DOOR HANDLE, AND DOOR CLOSER.

25 REMOVE WALL BASE IN ITS ENTIRETY AND PREP TO RECEIVE FUTURE FINISHES. REFER TO FINISH SCHEDULE.

26 REMOVE EXISTING LOCKERS AND ASSOCIATED TRIM/ANCHORS. PATCH WALL TO RECEIVE NEW WORK. CONCRETE BASE TO REMAIN UNLESS NOTED OTHERWISE.

27 STRIP BLOCK FILLER PAINT, BOTH SIDES, AS REQUIRED PER HAZARDOUS MATERIALS SPECIFICATIONS PRIOR TO REMOVAL OF PORTION OF WALL.

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30 EXISTING GLAZED WALL TILE TO REMAIN AND SHALL BE FURRED OUT. REFER TO A0.2

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34 REMOVE EXTERIOR CONCRETE RAMP AND HANDRAILS

35 SALVAGE EXISTING TV MONITOR AND STORE IN OWNER PROVIDED LOCATION ON SITE.

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N
KEY PLAN

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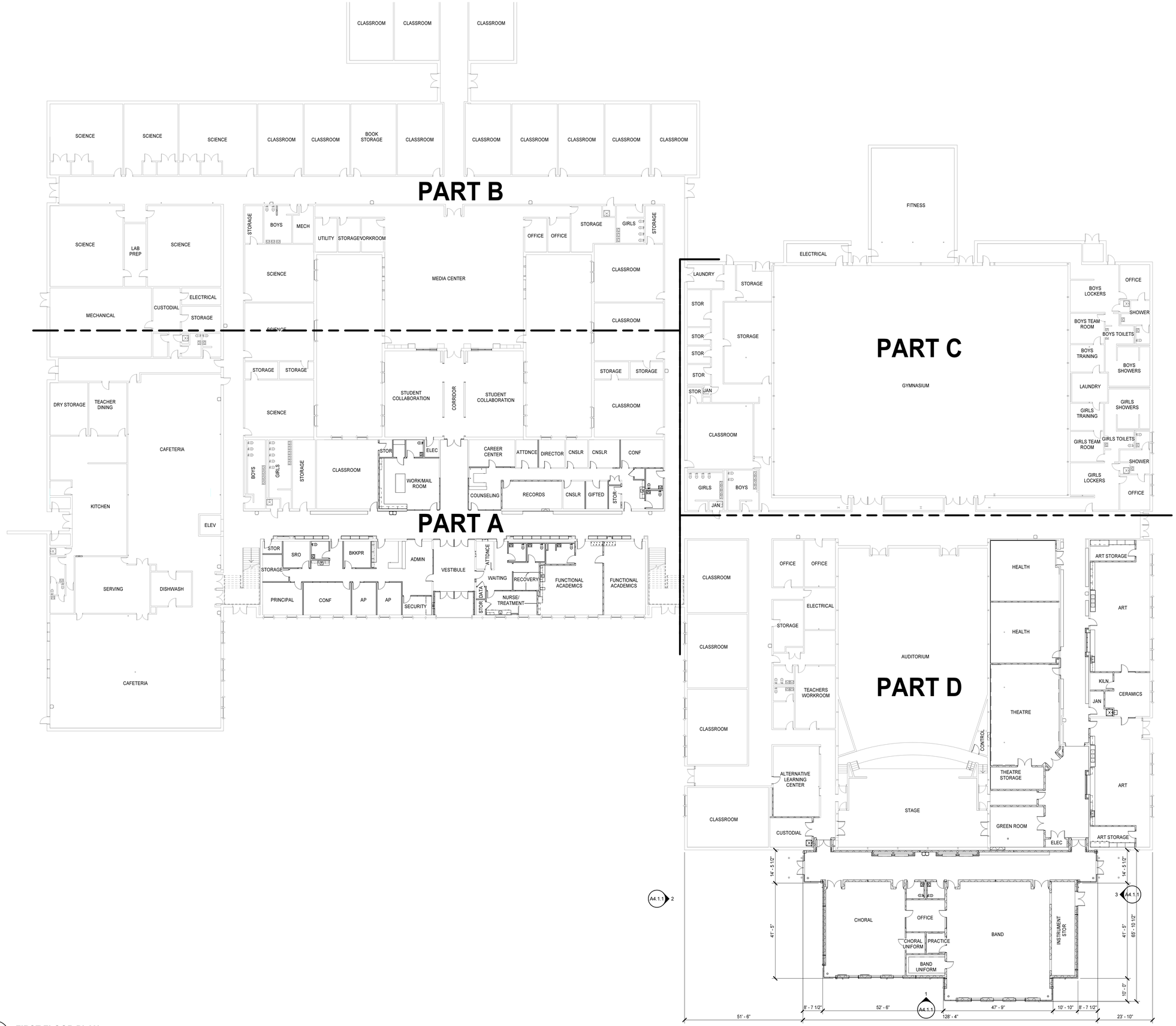
DEMOLITION FIRST FLOOR PLAN - PART D

A1.2.2

7/1/2022 11:16:24 AM



1 A5.1.1 A2.0.1 **FIRST FLOOR PLAN**
1/16" = 1'-0"

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KEY PLAN

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REVISIONS	
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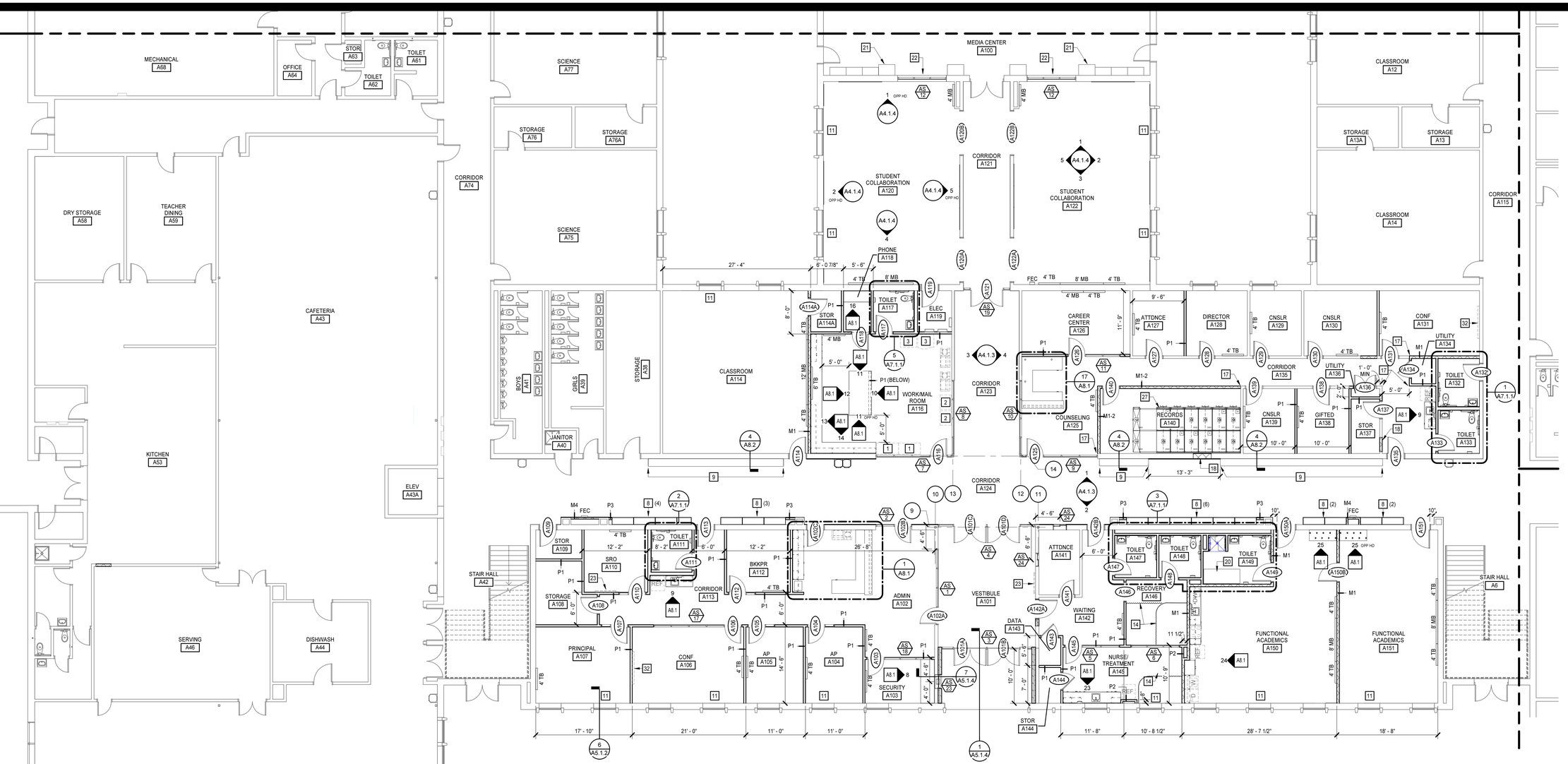
OVERALL FIRST FLOOR PLAN

A2.0.1



FLOOR PLAN GENERAL NOTES

A. UNLESS OTHERWISE NOTED, ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR CENTERLINE OF COLUMN. DIMENSIONS AT DOOR/WINDOW OPENINGS ARE TO FRAMES. CONTRACTOR SHALL COORDINATE ACTUAL REQUIRED MASONRY OPENING. NOTIFY ARCHITECT IF UNCERTAIN AS TO THE STARTING POINT OF A DIMENSION.

B. UNLESS OTHERWISE NOTED, ALL INTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR FACE OF GYPSUM BOARD. NOTIFY ARCHITECT IF UNCERTAIN AS TO THE STARTING POINT OF A DIMENSION.

C. ALL MARKERBOARDS AND TACKBOARDS SHALL BE MOUNTED AT 36" AFF TO TOP OF MARKER TRAY. CENTER VISUAL DISPLAY ITEMS ON WALL UNLESS NOTED OTHERWISE. WHERE MULTIPLE VISUAL DISPLAYS ARE PLACED IN SERIES, CENTER THE SERIES ON WALL UNLESS NOTED OTHERWISE.

D. ALL INTERIOR CMU CORNERS SHALL BE BULLNOSED. WHERE CEILING TERMINATES AT A BULLNOSED CORNER, PROVIDE A NON-BULLNOSED BLOCK ONLY FOR THE COURSE WHERE THE CEILING TERMINATES.

FLOOR PLAN KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A2.1.1 - A2.1.2

1 PAPER ROLL RACK - OWNER FURNISHED, OWNER INSTALLED
2 RECYCLING BIN - OWNER FURNISHED, OWNER INSTALLED
3 VENDING MACHINE - OWNER FURNISHED, CONTRACTOR INSTALLED
4 DRYING RACK - OWNER FURNISHED, OWNER INSTALLED
5 SOUND SYSTEM RACK
6 PAINT BOOTH
7 MARKERBOARD WITH MUSIC STAFF
8 INSTALL SALVAGED DISPLAY CASES. ANCHOR TO WALL.
9 CONSTRUCT WOOD BENCH ON EXISTING CONCRETE CURB. REFER TO DETAIL 5/A8.2
10 CONSTRUCT WOOD BENCH ON NEW 4" CONCRETE CURB
11 INFILL EXTERIOR WALL WHERE MECHANICAL UNIT IS REMOVED. REFER TO 6/A5.1.2
12 28'-0" W x 8'-0" H CURTAIN TRACK SYSTEM (TYP 4 SIDES)
13 PAINT STRUCTURAL COLUMN
14 CUBICLE CURTAIN ON OVERHEAD TRACK
17 ALIGN WITH ADJACENT WALL
18 TOOTH IN CMU AT EXISTING OPENING INFILL. PATCH BASE AND WALL FINISHES TO MATCH ADJACENT EXISTING FINISHES.
19 PROVIDE BLANK PLATE FOR LOCKSET HOLE. DOOR LEAF SHALL BE INACTIVE AND PERMANENTLY LOCKED.

FLOOR PLAN KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A2.1.1 - A2.1.2

20 BARRIER FREE EXAM TABLE
21 REINSTALL MAGAZINE SHELVING UNIT AT LOCATION INDICATED.
22 PATCH CARPET TILE TO MATCH ADJACENT FINISH
23 TV MONITOR - OWNER FURNISHED, CONTRACTOR INSTALLED
24 MOP AND BROOM SHELF
25 RELOCATED KILN - OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
26 POTTERY WHEEL- OWNER FURNISHED, CONTRACTOR INSTALLED
27 HIGH DENSITY STORAGE SYSTEM
28 EXTERIOR EXPANSION JOINT COVER
29 ALUMINUM WALL TO WALL EXPANSION JOINT COVER
30 WALL TO RECEIVE PAINT FINISH TO MATCH EXISTING
31 KEYBOARD STORAGE - OWNER FURNISHED, OWNER INSTALLED.
32 6' SMARTBOARD - OWNER FURNISHED, CONTRACTOR INSTALLED
33 MINERAL WOOL BOARD, FILL CAVITY. 1" MIN WIDTH

1 A5.1.1 A2.1.1 **FIRST FLOOR PLAN - PART A**
1/8" = 1'-0"

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Lic. No. 0401010134
07-01-2022
ARCHITECT

KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - PART A

A2.1.1

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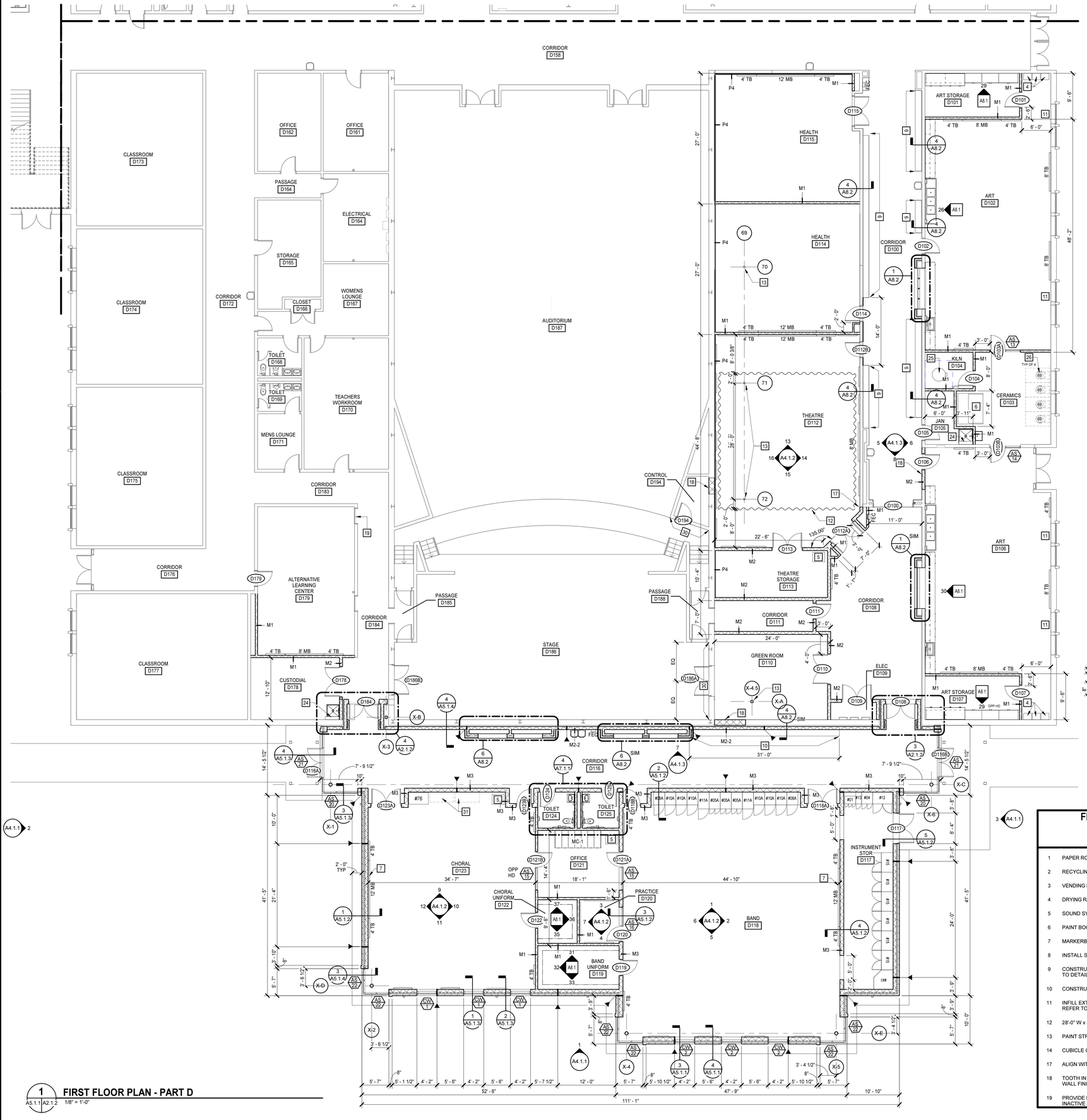


1 A5.1.1 A2.1.2 **FIRST FLOOR PLAN - PART D**
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. UNLESS OTHERWISE NOTED, ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR CENTERLINE OF COLUMN. DIMENSIONS AT DOOR/WINDOW OPENINGS ARE TO FRAMES. CONTRACTOR SHALL COORDINATE ACTUAL REQUIRED MASONRY OPENING. NOTIFY ARCHITECT IF UNCERTAIN AS TO THE STARTING POINT OF A DIMENSION.

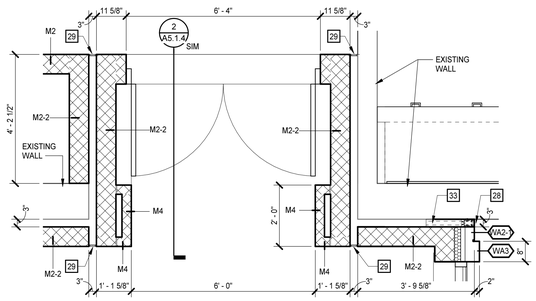
B. UNLESS OTHERWISE NOTED, ALL INTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR FACE OF GYPSUM BOARD. NOTIFY ARCHITECT IF UNCERTAIN AS TO THE STARTING POINT OF A DIMENSION.

C. ALL MARKERBOARDS AND TACKBOARDS SHALL BE MOUNTED AT 36" AFF TO TOP OF MARKER TRAY. CENTER VISUAL DISPLAY ITEMS ON WALL UNLESS NOTED OTHERWISE. WHERE MULTIPLE VISUAL DISPLAYS ARE PLACED IN SERIES, CENTER THE SERIES ON WALL UNLESS NOTED OTHERWISE.

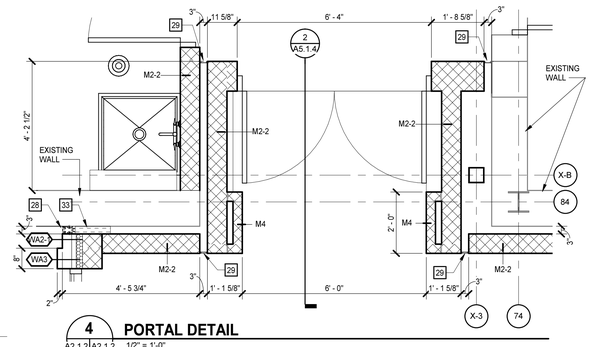
D. ALL INTERIOR CMU CORNERS SHALL BE BULLNOSED. WHERE CEILING TERMINATES AT A BULLNOSED CORNER, PROVIDE A NON-BULLNOSED BLOCK ONLY FOR THE COURSE WHERE THE CEILING TERMINATES.

MUSIC CASEWORK SCHEDULE

TYPE	QTY.	Description	Comments
MC-1	1	Wenger 7-shelf Music Library System; 7 Units	REFER TO SPECIFICATION #123583
#05A	3	Wenger Acoustic Cabinet #05 - Comp Waterfall Grille Doors	REFER TO SPECIFICATION #123583
#08A	2	Wenger Acoustic Cabinet #08 - Comp Waterfall Grille Doors	REFER TO SPECIFICATION #123583
#10A	6	Wenger Acoustic Cabinet #10 - Comp Waterfall Grille Doors	REFER TO SPECIFICATION #123583
#11A	2	Wenger Acoustic Cabinet #11 - Comp Waterfall Grille Doors	REFER TO SPECIFICATION #123583
#76	1	Wenger Adjustable Shelf Storage #76 - Comp Waterfall Grille Doors	REFER TO SPECIFICATION #123583
#01	1	Wenger UltraStor Cabinet #01 - Comp Wood Doors	REFER TO SPECIFICATION #123583
#04	1	Wenger UltraStor Cabinet #04 - Comp Wood Doors	REFER TO SPECIFICATION #123583
#12	1	Wenger UltraStor Cabinet #12 - Comp Wood Doors	REFER TO SPECIFICATION #123583
#13	1	Wenger UltraStor Cabinet #13 - Comp Wood Doors	REFER TO SPECIFICATION #123583
#15	6	Wenger UltraStor Cabinet #15 - Comp Wood Doors	REFER TO SPECIFICATION #123583
#41	1	Wenger UltraStor Cabinet #41 - Comp Wood Doors	REFER TO SPECIFICATION #123583



3 A2.1.2 A2.1.2 **PORTAL DETAIL**
1/2" = 1'-0"



4 A2.1.2 A2.1.2 **PORTAL DETAIL**
1/2" = 1'-0"

FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1.1 - A2.1.2

1 PAPER ROLL RACK - OWNER FURNISHED, OWNER INSTALLED
2 RECYCLING BIN - OWNER FURNISHED, OWNER INSTALLED
3 VENDING MACHINE - OWNER FURNISHED, CONTRACTOR INSTALLED
4 DRYING RACK - OWNER FURNISHED, OWNER INSTALLED
5 SOUND SYSTEM RACK
6 PAINT BOOTH
7 MARKERBOARD WITH MUSIC STAFF
8 INSTALL SALVAGED DISPLAY CASES. ANCHOR TO WALL.
9 CONSTRUCT WOOD BENCH ON EXISTING CONCRETE CURB. REFER TO DETAIL 5/A8.2
10 CONSTRUCT WOOD BENCH ON NEW 4" CONCRETE CURB
11 INFILL EXTERIOR WALL WHERE MECHANICAL UNIT IS REMOVED. REFER TO 6/A5.1.2
12 28'-0" W x 8'-0" H CURTAIN TRACK SYSTEM (TYP 4 SIDES)
13 PAINT STRUCTURAL COLUMN
14 CUBICLE CURTAIN ON OVERHEAD TRACK
17 ALIGN WITH ADJACENT WALL
18 TOOTH IN CMU AT EXISTING OPENING INFILL. PATCH BASE AND WALL FINISHES TO MATCH ADJACENT EXISTING FINISHES.
19 PROVIDE BLANK PLATE FOR LOCKSET HOLE. DOOR LEAF SHALL BE INACTIVE AND PERMANENTLY LOCKED.

FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1.1 - A2.1.2

20 BARRIER FREE EXAM TABLE
21 REINSTALL MAGAZINE SHELVING UNIT AT LOCATION INDICATED.
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KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
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REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - PART D

A2.1.2

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FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST		
A101	VESTIBULE	ETR	RB	-	ETR	-	ETR	ACP-A/GB-PT	
A102	ADMIN	ETR	RB	A-PT	PT	PT	PT	ACP-A/GB-PT	
A103	SECURITY	ETR	RB	PT	PT	PT	PT	ACP-A	
A104	AP	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A105	AP	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A106	CONF	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A107	PRINCIPAL	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A108	STORAGE	ETR	RB	PT	PT	PT	PT	ACP-A	
A109	STOR	VCT	RB	PT	PT	PT	PT	ACP-A	
A110	SRO	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A111	TOILET	CT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GWT	GB-PT	5
A112	BKKPR	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A113	CORRIDOR	ETR	RB	PT	PT	PT	PT	ACP-A/GB-PT	
A114	CLASSROOM	VCT	RB	PT	A-PT	PT	PT	ACP-A	
A114A	STOR	VCT	RB	PT	PT	PT	PT	ACP-A	
A116	WORK/MAIL ROOM	ETR/TERR-E	RB	A-PT	PT	PT	PT	ACP-A	
A117	TOILET	CT	GWT	GWT/EPX-PT	GWT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
A118	PHONE	VCT	RB	PT	PT	PT	PT	ACP-A	
A119	ELEC	ETR	RB	PT	PT	PT	PT	EXPC-PT	
A120	STUDENT COLLABORATION	RFT	RB	A-PT	A-PT	A-PT	A-PT	ACP-A	
A121	CORRIDOR	ETR	ETR	ETR/EPX-PT	ETR/EPX-PT	-	ETR/EPX-PT	ACP-A	1
A122	STUDENT COLLABORATION	RFT	RB	A-PT	A-PT	A-PT	A-PT	ACP-A	
A123	CORRIDOR	ETR	ETR	ETR/EPX-PT	ETR/EPX-PT	-	ETR/EPX-PT	ACP-A	1
A124	CORRIDOR	ETR/TERR-E	ETR/GWT	ETR/GWT/EPX-PT	-	ETR/GWT/EPX-PT	-	ACP-A	3
A125	COUNSELING	ETR	RB	A-PT	PT	PT	PT	ACP-A/GB-PT	
A126	CAREER CENTER	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A127	ATTDNCE	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A128	DIRECTOR	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A129	CNSLR	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A130	CNSLR	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A131	CONF	TCF	RB	A-PT	PT	PT	PT	ACP-A	
A132	TOILET	CT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT	GWT/EPX-PT	GB-PT	5
A133	TOILET	CT	GWT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
A134	UTILITY	VCT	RB	PT	PT	PT	PT	ACP-A	
A135	CORRIDOR	ETR/TERR-E	RB	PT	PT	PT	PT	ACP-A	
A136	UTILITY	VCT	RB	PT	PT	PT	PT	EXPC-PT	
A137	STOR	VCT	RB	PT	PT	PT	PT	ACP-A	
A138	GIFTED	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A139	CNSLR	TCF	RB	PT	PT	A-PT	PT	ACP-A	
A140	RECORDS	CONC-POL	RB	PT	PT	PT	PT	GB-PT	
A141	ATTDNCE	ETR	RB	PT	PT	PT	PT	ACP-A	
A142	WAITING	ETR	RB	PT	PT/A-PT	PT	PT	ACP-A	
A143	DATA	ETR	RB	PT	PT	PT	PT	EXPC-PT	
A144	STOR	VCT	RB	PT	PT	PT	PT	ACP-A	
A145	NURSE/ TREATMENT	VCT	RB	PT	PT	PT	PT	ACP-A	
A146	RECOVERY	VCT	RB	PT	PT	PT	PT	ACP-A	
A147	TOILET	CT	GWT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
A148	TOILET	CT	GWT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
A149	TOILET	CT	GWT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
A150	FUNCTIONAL ACADEMICS	ETR	RB	PT	A-PT	PT	PT	ACP-A	
A151	FUNCTIONAL ACADEMICS	ETR	RB	PT	A-PT	PT	PT	ACP-A	
D100	CORRIDOR	ETR/TERR-E	ETR/GWT	-	ETR/GWT/EPX-PT	EPX-PT/GWT	ETR/GWT/EPX-PT	ACP-A/GB-PT	3
D101	ART STORAGE	ETR	RB	PT	PT	PT	PT	ACP-A	
D102	ART	ETR	RB	PT	PT	PT	PT	EXPC-PT	
D103	CERAMICS	ETR/TERR-E	RB	PT	PT	PT	PT	EXPC-PT	
D104	KILN	ETR	RB	PT	PT	PT	PT	ACP-A	
D105	JAN	ETR/CONC-POL	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT	ACP-A	
D106	ART	ETR	RB	PT	PT	PT	PT	EXPC-PT	
D107	ART STORAGE	ETR	RB	PT	PT	PT	PT	ACP-A	
D108	CORRIDOR	ETR/TERR-E	RB/MTL BASE	EPX-PT	EPX-PT	EPX PT	EPX-PT	ACP-A/GB-PT	4
D109	ELEC	ETR	RB	PT	PT	PT	PT	EXPC-PT	
D110	GREEN ROOM	ETR/CONC-POL	RB	PT	PT	PT	PT	ACP-A	
D111	CORRIDOR	ETR/TERR-E	RB	PT	PT	PT	PT	ACP-A	
D112	THEATRE	CONC-POL	RB	A-PT	A-PT	A-PT	A-PT	EXPC-PT	2
D113	THEATRE STORAGE	ETR/CONC-POL	RB	PT	PT	PT	PT	EXPC-PT	
D114	HEALTH	VCT	RB	PT	PT	A-PT	PT	ACP-A	
D115	HEALTH	VCT	RB	A-PT	PT	PT	PT	ACP-A	
D116	CORRIDOR	CONC-POL	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT	ACP-A/GB-PT	
D117	INSTRUMENT STOR	CONC-POL	RB	PT	PT	PT	PT	ACP-B	
D118	BAND	RFT	RB	PT	PT	PT	PT	ACP-B	
D119	BAND UNIFORM	CONC-POL	RB	PT	PT	PT	PT	ACP-B	
D120	PRACTICE	RFT	RB	PT	PT	PT	PT	ACP-B	
D121	OFFICE	CONC-POL	RB	PT	PT	A-PT	PT	ACP-B	
D122	CHORAL UNIFORM	CONC-POL	RB	PT	PT	PT	PT	ACP-B	
D123	CHORAL	RFT	RB	PT	PT	PT	PT	ACP-B	
D124	TOILET	CT	GWT	GWT/EPX-PT	GWT	GWT/EPX-PT	GWT/EPX-PT	GB-PT	5
D125	TOILET	CT	GWT	GWT/EPX-PT	GWT/EPX-PT	GWT/EPX-PT	GWT	GB-PT	5
D173	CLASSROOM	ETR	RB	PT	PT	PT	PT	ACP-A	
D178	CUSTODIAL	ETR/CONC-POL	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT	ACP-A	
D179	ALTERNATIVE LEARNING CENTER	VCT	RB	PT	PT	A-PT	PT	ACP-A	
D184	CORRIDOR	ETR/TERR-E	ETR	-	ETR/EPX-PT	ETR/EPX-PT	ETR/EPX-PT	ETR/ACP-A/GB-PT	1
D194	CONTROL	ETR	ETR	ETR	ETR	ETR	ETR	ETR	

NOTE:

1. EXISTING GWT TO REMAIN.
2. WALLS, COLUMNS, DOOR FRAMES, PIPE GRID, AND EXPOSED CEILING STRUCTURE TO BE PAINTED BLACK.
3. REFER TO INTERIOR ELEVATIONS FOR GWT LOCATIONS.
4. REFER TO ELEVATION 6/A4.1.3 FOR MTL BASE AND TACKWALL LOCATIONS.
5. REFER TO INTERIOR ELEVATIONS ON SHEET A4.1.4.

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.

E. BULKHEADS TO RECEIVE ACCENT PAINT COLORS.

F. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

G. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.

H. REFER TO FINISH PLANS FOR CLARIFICATION OF ACCENT PAINT LOCATIONS. ACCENT PAINT QUANTITIES AND COLORS TO VARY.

I. PAINT DOOR FRAMES AND COLUMNS.

J. PAINT ALL EXPOSED ELEMENTS (SUCH AS PIPING AND CONDUITS) TO MATCH ADJACENT COLOR (HIDE & BLEND).

K. ALIGN GWT GROUT LINES TO EXISTING GWT GROUT LINES.

L. PAINT EXTERIOR GYPSUM BOARD CEILING AT FRONT ENTRANCE.

M. WHERE OPENINGS IN EXISTING WALLS OCCUR, PATCH FLOOR, BASE, AND WALL FINISHES TO MATCH ADJACENT EXISTING FINISHES. PROVIDE TRANSITION STRIP BETWEEN FLOOR FINISHES.

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FINISH SCHEDULE

A3.0.1

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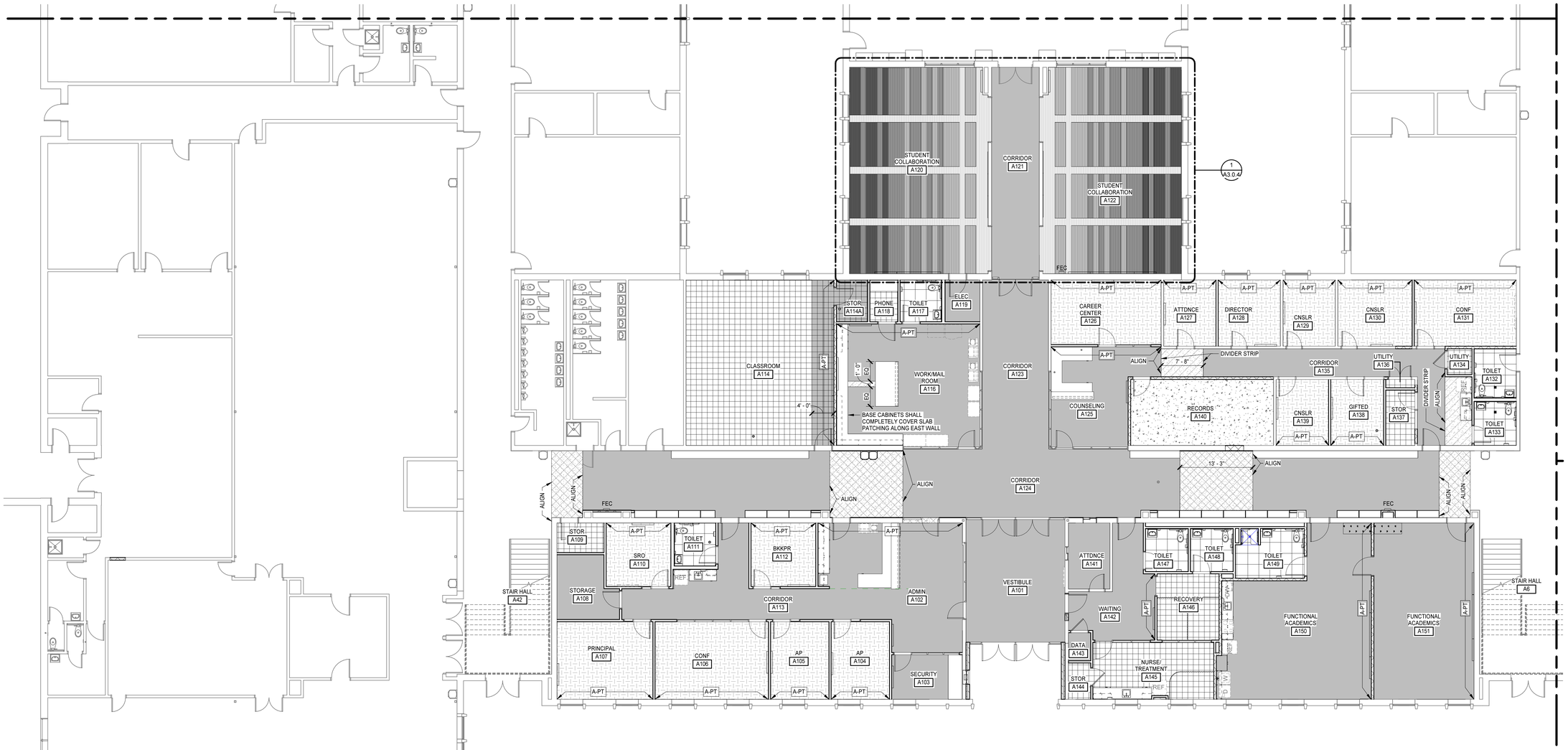

1 TYP A3.0.2 **FIRST FLOOR FINISH PLAN - PART A**

1/8" = 1'-0"

FLOOR PATTERN GENERAL NOTES

A. CONTINUE FLOOR PATTERN/FINISH BELOW CASEWORK AND SHELVING.

B. WHERE TYPE OF FLOOR FINISH, PATTERN, OR COLOR ARE DIFFERENT ON OPPOSITE SIDES OF DOOR, TERMINATE FLOORING UNDER CENTERLINE OF DOOR WITH TRANSITION/DIVIDER STRIP.

FINISH PLAN LEGEND

CONC-POL	RFT-3	VCT-1
CT	RFT-4	VCT-2
ETR	TCF	A-PT ACCENT PAINT EXTENTS
RFT-1	TERR-1	
RFT-2	TERR-2	

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FINISH PLANS - PART A

A3.0.2

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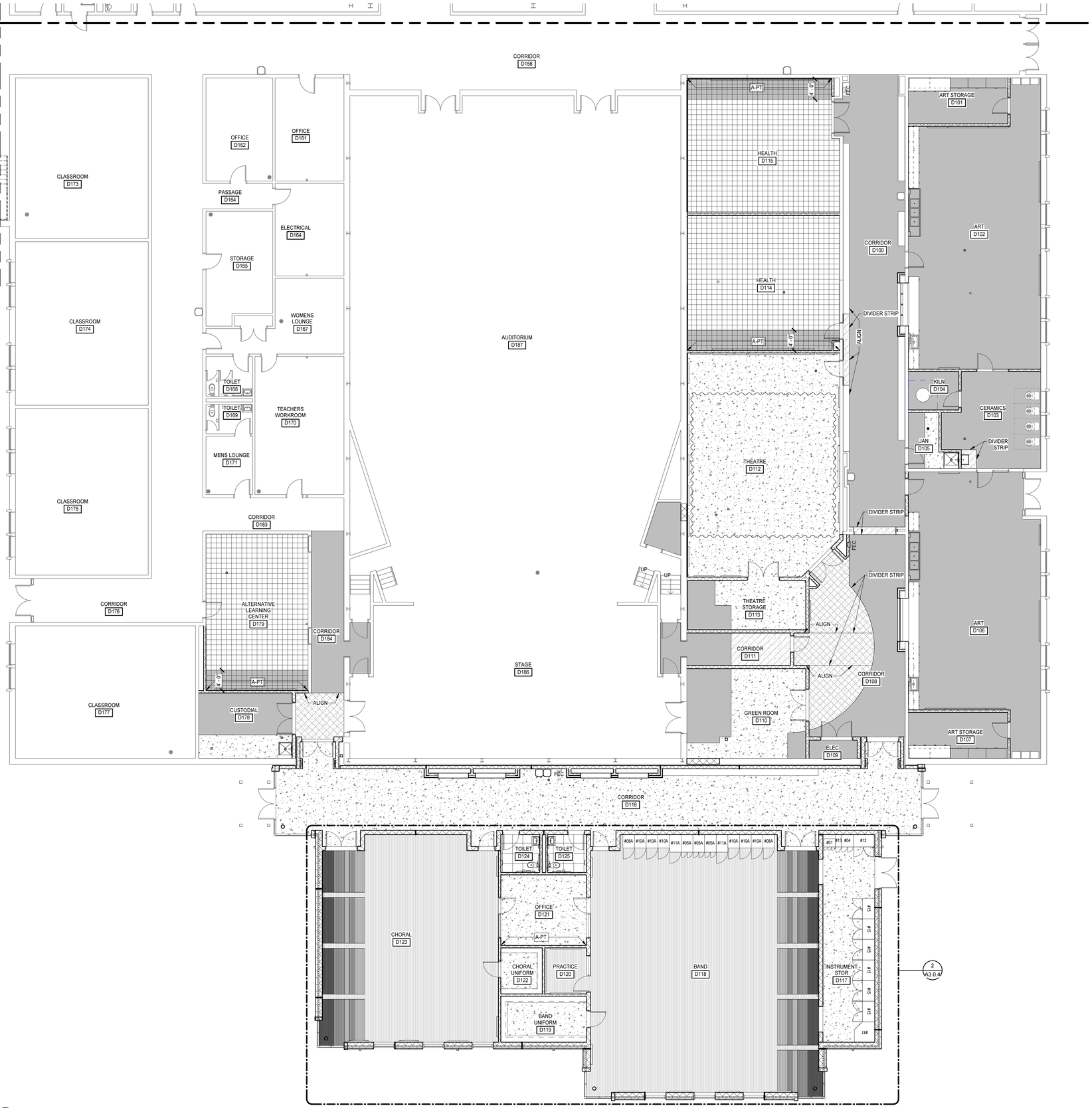

1 TYP A3.0.3 **FIRST FLOOR FINISH PLAN - PART D**

1/8" = 1'-0"

FLOOR PATTERN GENERAL NOTES

A. CONTINUE FLOOR PATTERN/FINISH BELOW CASEWORK AND SHELVING.

B. WHERE TYPE OF FLOOR FINISH, PATTERN, OR COLOR ARE DIFFERENT ON OPPOSITE SIDES OF DOOR, TERMINATE FLOORING UNDER CENTERLINE OF DOOR WITH TRANSITION/DIVIDER STRIP.

FINISH PLAN LEGEND

- CONC-POL
- CT
- ETR
- RFT-1
- RFT-2
- RFT-3
- RFT-4
- TCF
- TERR-1
- TERR-2
- VCT-1
- VCT-2
- A-PT ACCENT PAINT EXTENTS

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FINISH PLANS - PART D

A3.0.3

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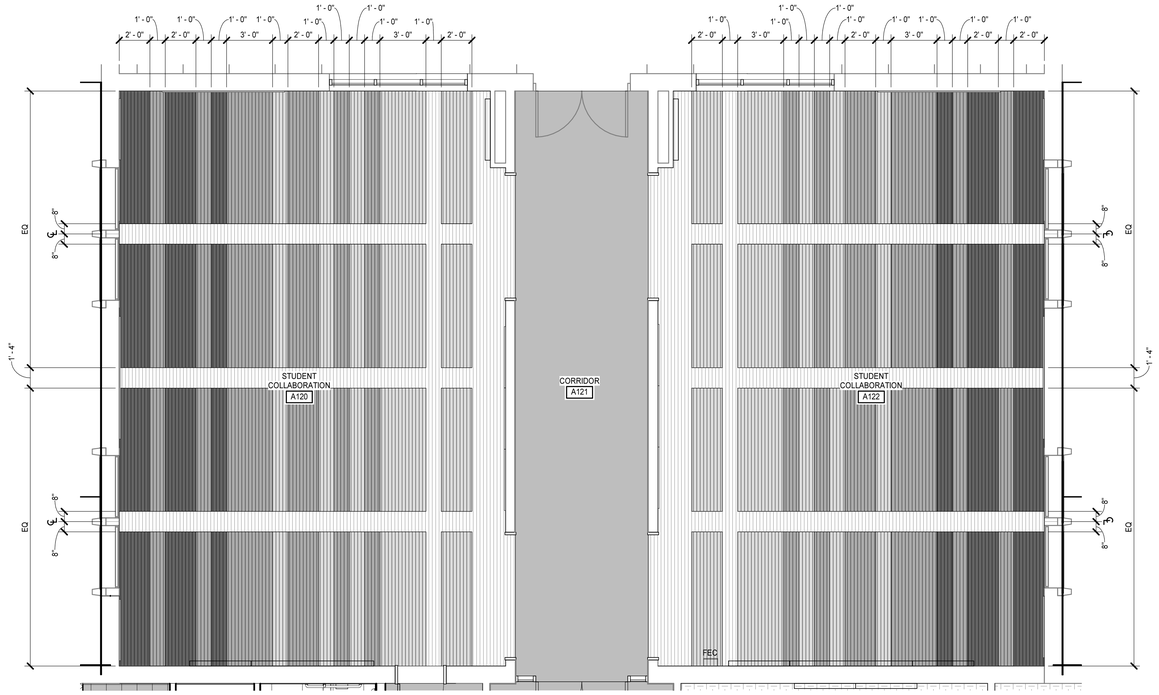


1 A3.0.2 | A3.0.4 **ENLARGED FLOOR FINISH PLAN**

1/4" = 1'-0"

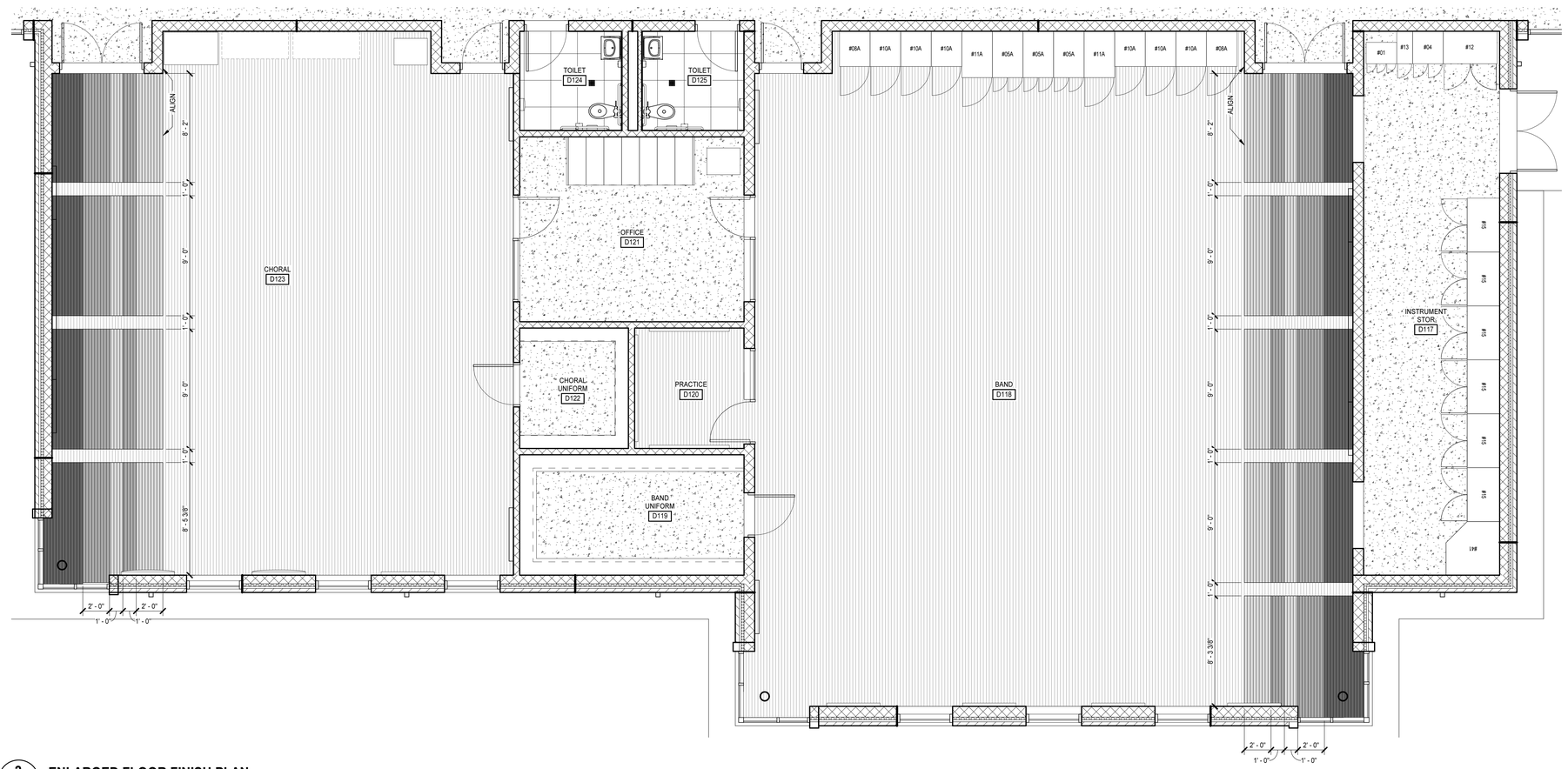
FLOOR PATTERN GENERAL NOTES

A. CONTINUE FLOOR PATTERN/FINISH BELOW CASEWORK AND SHELVING.

B. WHERE TYPE OF FLOOR FINISH, PATTERN, OR COLOR ARE DIFFERENT ON OPPOSITE SIDES OF DOOR, TERMINATE FLOORING UNDER CENTERLINE OF DOOR WITH TRANSITION/DIVIDER STRIP.

FINISH PLAN LEGEND

CONC-POL	RFT-3	VCT-1
CT	RFT-4	VCT-2
ETR	TCF	A-PT ACCENT PAINT EXTENTS
RFT-1	TERR-1	
RFT-2	TERR-2	



2 A3.0.3 | A3.0.4 **ENLARGED FLOOR FINISH PLAN**

1/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

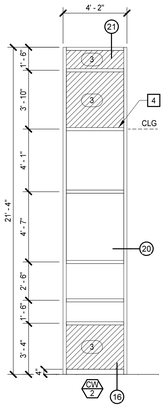
PROJECT NO: 611565
DATE: July 1, 2022

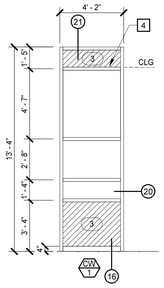
REVISIONS	
DATE	DESCRIPTION

ENLARGED FLOOR PATTERNS

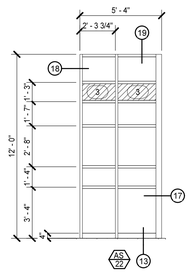
A3.0.4

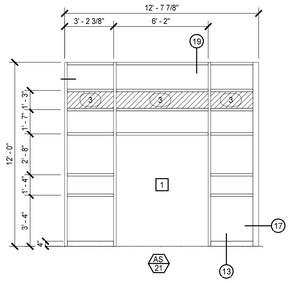
7/1/2022 11:16:52 AM

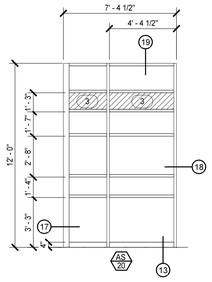


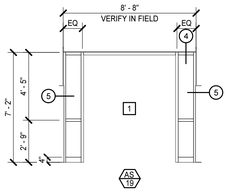


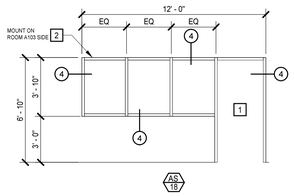
CURTAINWALL ELEVATIONS

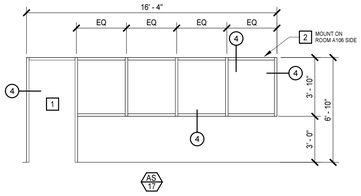


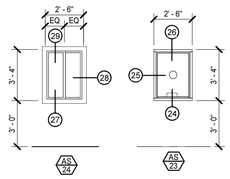




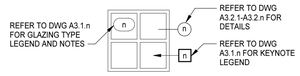








DOOR, FRAME AND GLAZING TYPE GENERAL NOTES



A. NOTE...

B.

GLAZING TYPES

REPRESENTED BY n

1. 1/4" CLEAR
2. 1" TINTED INSULATING
3. 1" SPANDREL PANEL
4. 1/4" FROSTED PANEL
5. FIRE PROTECTION RATED GLASS

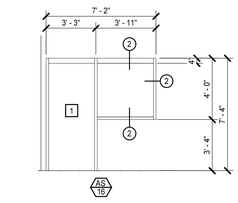
NOTES:
1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO.
2. ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2, UNO
3. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
4. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

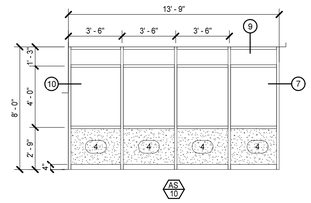
DOOR, FRAME AND GLAZING TYPE KEYNOTES

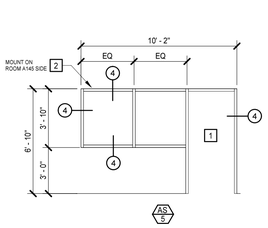
REPRESENTED BY n

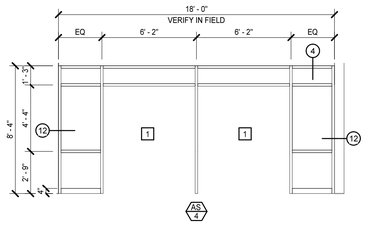
APPLIES TO DRAWINGS A3.1.1 - A3.1.n

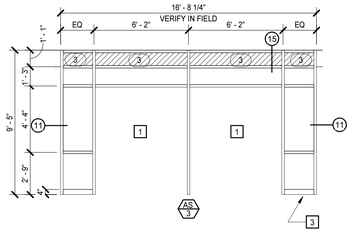
1	SIZE AS REQUIRED TO ACCOMMODATE DOOR, HARDWARE AND FRAME COMPONENTS.
2	SURFACE MOUNTED MANUAL SHEER ROLLER SHADE. MOUNT ON
3	BALLSTICS FILM ON ALL GLASS PANES.
4	POCKET MOUNTED MOTORIZED DUAL ROLLER SHADE.

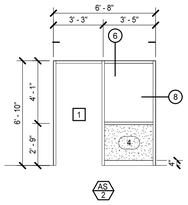


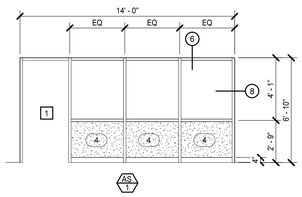




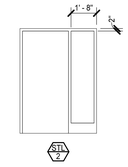


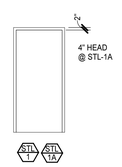




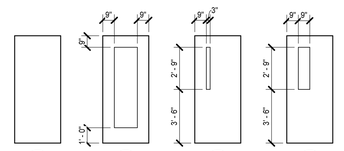


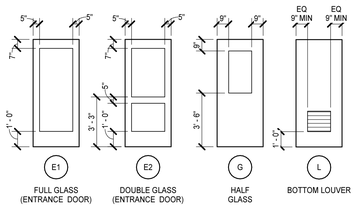
ALUMINUM STOREFRONT ELEVATIONS





STEEL FRAME ELEVATIONS





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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

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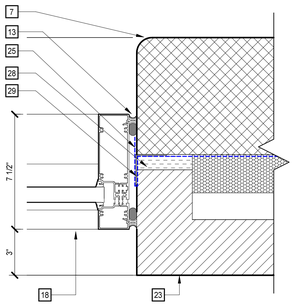
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

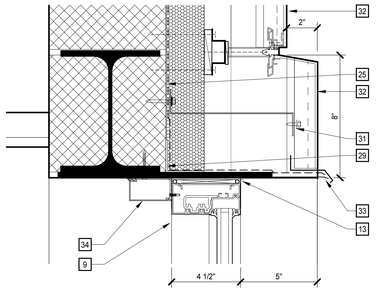
DOOR, FRAME AND GLAZING TYPES

A3.1.1

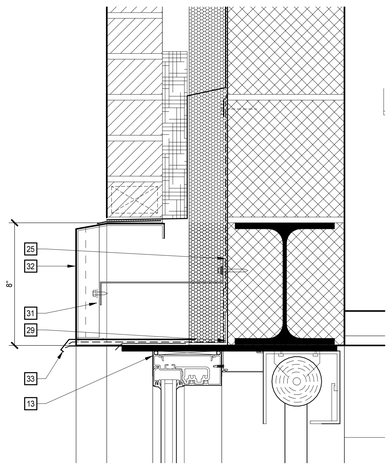
7/1/2022 11:16:54 AM



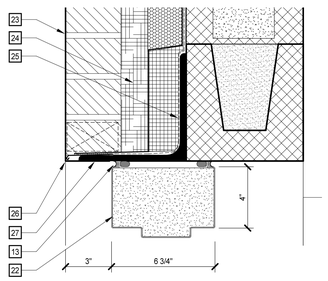
20 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



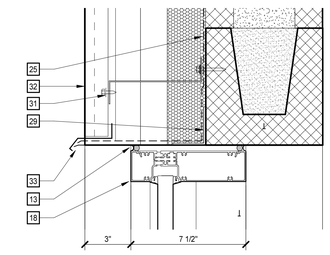
19 HEAD DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



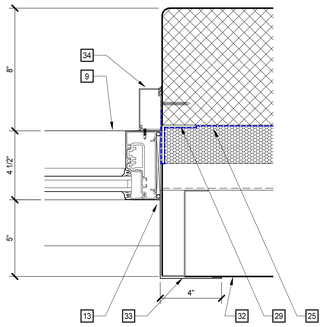
23 HEAD DETAIL
A5.1.4 A3.1.2 3" = 1'-0"



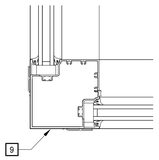
22 HEAD DETAIL
A5.1.2 A3.1.2 3" = 1'-0"



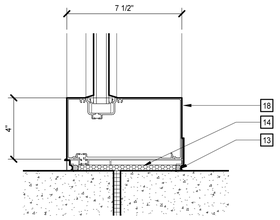
21 HEAD DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



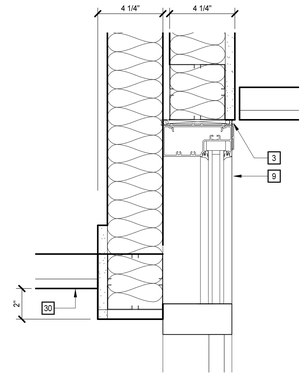
18 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



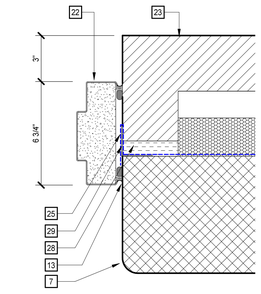
17 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



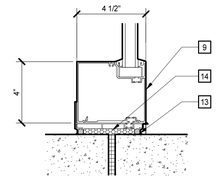
16 SILL DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



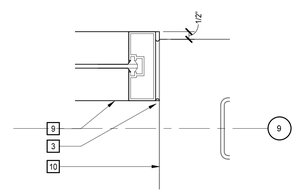
15 HEAD DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



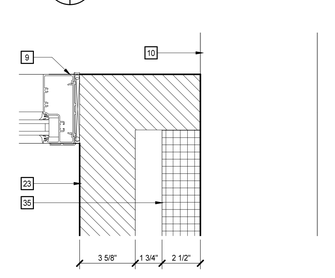
14 JAMB DETAIL
A3.1.2 3" = 1'-0"



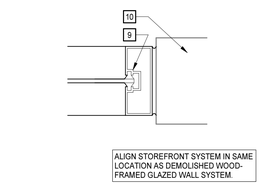
13 SILL DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



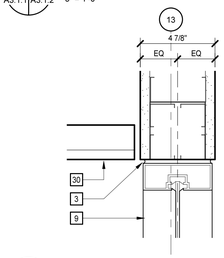
12 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



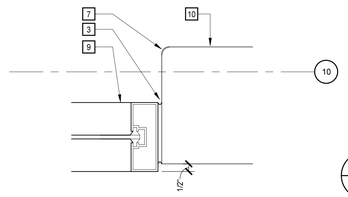
11 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



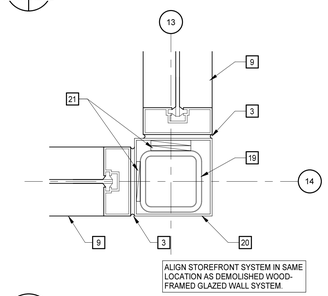
10 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



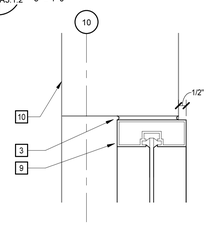
9 HEAD DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



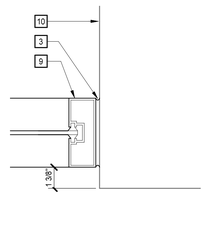
8 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



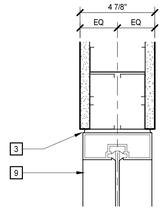
7 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



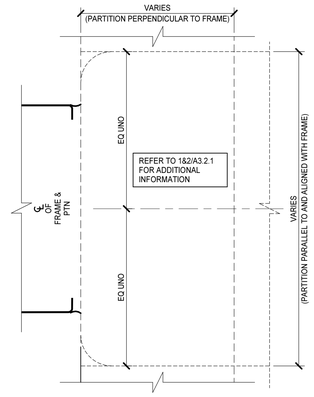
6 HEAD DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



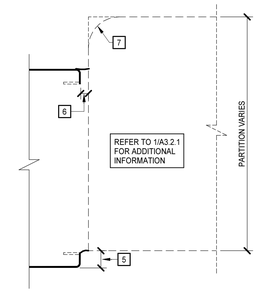
5 JAMB DETAIL
A3.1.1 A3.1.2 3" = 1'-0"



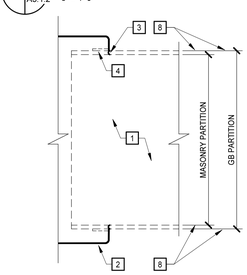
4 HEAD/JAMB/SILL DETAIL GYP
TYP A3.1.2 3" = 1'-0"



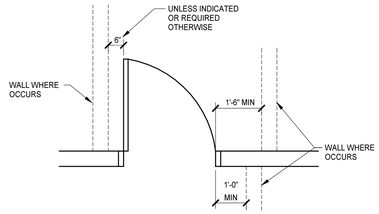
3 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
A3.1.2 6" = 1'-0"



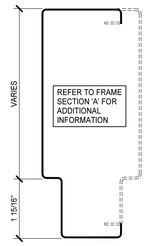
2 INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL
A3.1.2 6" = 1'-0"

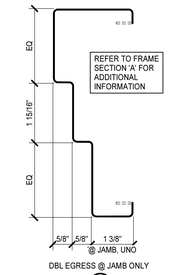


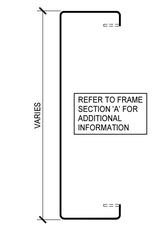
1 INTERIOR WRAP HEAD/JAMB/SILL
A3.1.2 6" = 1'-0"

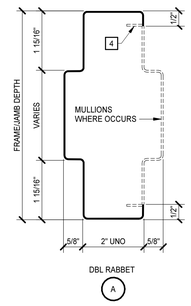


MANEUVERING CLEARANCE AT DOORS
NO SCALE









1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE _____ UNO.
2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS
NO SCALE

DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A3.1.2 - A3.1.3

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT AND BACKER ROD, ALL SIDES
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS, 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	5/8" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
9	ALUMINUM STOREFRONT SYSTEM
10	EXISTING WALL
13	CONTINUOUS BACKER ROD & SEALANT
14	WOOD BLOCKING (PPT AT EXTERIOR LOCATIONS WITH SPF SEAL BETWEEN WOOD BLOCKING)
18	CURTAINWALL SYSTEM
19	EXISTING STRUCTURAL COLUMN
20	PREFINISHED BRAKE METAL ENCLOSURE BY AS/CW MFR
21	WOOD SHIM AS REQD
22	STEEL FRAME, GROUTED SOLID
23	MASONRY VENEER
24	CAVITY DRAINAGE MATERIAL
25	AIR BARRIER TRANSITION MEMBRANE
26	MEMBRANE FLASHING W/ WEEPS & DRIP EDGE
27	STEEL ANGLE
28	MINERAL WOOL BOARD, FILL CAVITY. 1" MIN WIDTH
29	PVC ANGLE STOP FOR SPRAY FOAM
30	CEILING AS SCHEDULED
31	METAL PANEL CLOSURE BY METAL PANEL MFR
32	METAL PANEL SYSTEM
33	PREFINISHED METAL FLASHING. FINISH TO MATCH ADJACENT METAL PANEL BY METAL PANEL MANUFACTURER.
34	INTERIOR ALUMINUM SNAP-ON TRIM
35	RIGID INSULATION

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COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
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07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

DOOR AND FRAME DETAILS

A3.1.2

7/1/2022 11:17:02 AM

DOOR SCHEDULE PART A

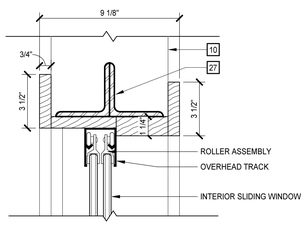
	DOOR						FRAME								
NUMBER	TYPE	SIZE (NOMINAL)	MATL	LOUVER	UC	GLAZING TYPE	TYPE	NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	NOTES
A101A	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		2	AS	3	A	15	11	11	--		2, 3, 6
A101B	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		2	AS	3	A	15	11	11	--		2, 3, 6, 7, 8, 9
A101C	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		1	AS	4	A	4	12	12	--		3
A101D	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		1	AS	4	A	4	12	12			3, 7, 8, 9
A102A	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	1	A	6	8	8	--		5, 8, 9
A102B	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	2	A	6	8	8	--		5
A102C	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		1, 5
A103	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	18	A	4	4	4	--		
A104	F	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	2	A	1	1	1	--		
A105	F	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	2	A	1	1	1	--		
A106	F	3'-0" x 6'-8" x 1 3/4"	WD	--		--	AS	17	A	4	4	4	--		
A107	F	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	2	A	1	1	1	--		
A108	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
A109	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		1, 5
A110	F	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	2	A	1	1	1	--		
A111	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		5
A112	F	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	2	A	1	1	1	--		
A113	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		1, 5, 9
A114	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1
A114A	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		
A116	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	7	A	9	7	10	--		
A117	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		5
A118	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		5
A119	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		5
A120A	--	8'-0"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
A120B	--	8'-0"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
A121	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		1	AS	19	A	4	5	5	--		3, 5
A122A	--	8'-0"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
A122B	--	8'-0"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
A125	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	9	A	9	7	10	--		5
A126	F	3'-0" x 6'-8" x 1 3/4"	WD	--		--	AS	11	A	4	4	4	--		
A127	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	--	A	--	--	--	--		1
A128	N	2'-8"x6'-8"x1-3/4"	WD	--		1	STL	--	A	--	--	--	--		1
A129	N	2'-8"x6'-8"x1-3/4"	WD	--		1	STL	--	A	--	--	--	--		1
A130	N	2'-8"x6'-8"x1-3/4"	WD	--		1	STL	--	A	--	--	--	--		1
A131	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		
A132	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	--	--	A	--	--	--	--		1, 5
A133	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		5
A134	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		
A135	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		1, 5, 9
A136	F	PR 2'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		
A137	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
A138	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1
A139	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		
A140	F	3'-0"x6'-8"x1-3/4" 45MIN	WD	--		--	STL	1	A	1	1	1	--	45MIN	5
A141	N	2'-8"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1
A142A	N	3'-4"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		5
A142B	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1, 5
A143	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
A144	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		
A145	F	3'-0" x 6'-8" x 1 3/4"	WD	--		--	AS	5	A	4	4	4	--		
A146	--	3'-4"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
A147	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		5
A148	F	3'-0"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		
A149	F	3'-4"x6'-8"x1-3/4"	WD	--	3/4"	--	STL	1	A	1	1	1	--		
A150A	N	3'-4"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		
A150B	N	3'-4"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		
A151	N	3'-4"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		

DOOR SCHEDULE PART D

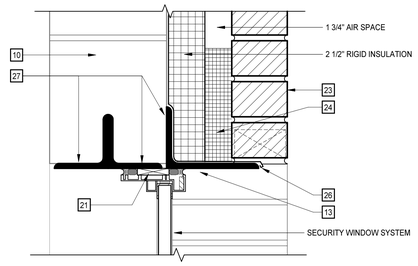
	DOOR						FRAME								
NUMBER	TYPE	SIZE (NOMINAL)	MATL	LOUVER	UC	GLAZING TYPE	TYPE	NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING	NOTES
D100	--	8'-0"x6'-8"	--	--		--	STL	1	C	1	1	1	--		
D101	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
D102	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1, 5
D103A	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	13	A	2	2	2			
D103B	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	14	A	2	2	2			
D104	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
D105	F	3'-0"x6'-8"x1-3/4"	WD	--		--	--	--	A	--	--	--	--		1, 5
D106	N	3'-0"x6'-8"x1-3/4" 20MIN	WD	--		5	STL	1	A	1	1	1	--	20 MIN	
D107	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
D108	N	PR 3'-0"x7'-0"x1-3/4" 90MIN	STL	--		5	STL	1	A	2	3/A2.1.2	3/A2.1.2	--	90MIN	3, 4, 5
D109	F	PR 3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		5
D110	N	PR 3'-0"x6'-8"x1-3/4" 20MIN	WD	--		--	STL	1	A	1	1	1	--	20 MIN	5
D111	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		3, 5
D112A	N	PR 3'-0"x6'-8"x1-3/4" 20MIN	WD	--		5	STL	1	A	1	1	1	--	20 MIN	5
D112B	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1, 5
D113	F	PR 3'-0"x6'-8"x1-3/4"	WD	--		--	STL		A	1	1	1	--		5
D114	N	3'-0"x6'-8"x1-3/4"	WD	--		1	STL	1	A	1	1	1	--		
D115	N	PR 3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1
D116A	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		2	AS	21	A	19	18	17	--		2, 3, 5, 9
D116B	E2	PR 3'-0" x 7'-0" x 1 3/4"	ALUM	--		2	AS	21	A	19	17	18	--		2, 3, 5, 9
D117	F	PR 3'-0"x7'-0"x1-3/4" 4" HEAD	STL	--		--	STL	1A	A	22	14	14	--		5
D118A	N	PR 3'-0"x7'-0"x1-3/4" 20MIN	WD	--		5	STL	1A	A	2	2	2	--	20MIN	3, 5
D118B	N	3'-0" x 7'-0" x 1 3/4" 20MIN	WD	--		5	STL	1A	A	2	2	2	--	20MIN	3, 5
D119	F	3'-0" x 7'-0" x 1 3/4"	WD	--		--	STL	1A	A	2	2	2	--		
D120	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	16	A	2	2	2	--		
D121A	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	15	A	2	2	2	--		
D121B	E1	3'-0" x 6'-8" x 1 3/4"	ALUM	--		1	AS	15	A	2	2	2	--		
D122	F	3'-0" x 7'-0" x 1 3/4"	WD	--		--	STL	1A	A	2	2	2	--		
D123A	N	PR 3'-0"x7'-0"x1-3/4" 20MIN	WD	--		5	STL	1A	A	2	2	2	--	20MIN	3, 5
D123B	N	3'-0" x 7'-0" x 1 3/4" 20MIN	WD	--		5	STL	1A	A	2	2	2	--	20MIN	3, 5
D124	F	3'-0"x7'-0"x1-3/4" 20 MIN	WD	--	3/4"	--	STL	1A	A	2	2	2	--	20 MIN	5
D125	F	3'-0"x7'-0"x1-3/4" 20 MIN	WD	--	3/4"	--	STL	1A	A	2	2	2	--	20 MIN	5
D178	F	PR 3'-0"x6'-8"x1-3/4" 20MIN	WD	--		--	STL	1	A	2	2	2	--	20 MIN	5
D179	N	3'-0"x6'-8"x1-3/4"	WD	--		1	--	--	A	--	--	--	--		1
D184	N	PR 3'-0"x7'-0"x1-3/4" 90MIN	STL	--		5			A	2	4/A2.1.2	4/A2.1.2	--	90MIN	3, 4, 5
D186A	F	PR 3'-0"x6'-8"x1-3/4" 90MIN	WD	--		1	STL	1	A	2	2	2	--	90MIN	5
D186B	F	PR 3'-0"x6'-8"x1-3/4" 90MIN	WD	--		1	--	--	A	--	--	--	--	90MIN	1, 5
D194	F	3'-0"x6'-8"x1-3/4"	WD	--		--	STL	1	A	1	1	1	--		

NOTE:

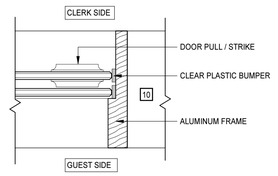
1. DOOR FRAME EXISTING TO REMAIN.
2. REMOVABLE CENTER MULLION
3. PANIC HARDWARE
4. MAGNETIC HOLD OPEN
5. DOOR CLOSER
6. BALLISTICS FILM
7. POWER ASSIST DOOR OPERATOR
8. REMOTE CONTROL RELEASE
9. CARD READER ACCESS CONTROL



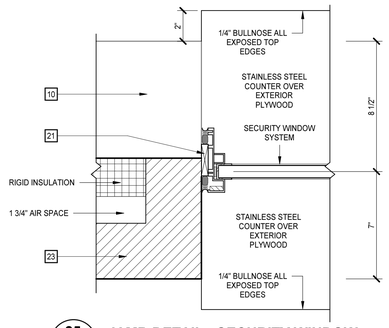
29 A3.1.1 A3.1.3 **HEAD DETAIL - INTERIOR SLIDING WINDOW**
3" = 1'-0"



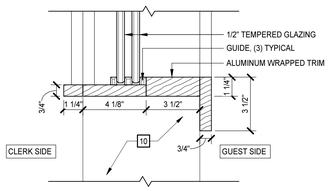
26 A3.1.1 A3.1.3 **HEAD DETAIL - SECURITY WINDOW**
3" = 1'-0"



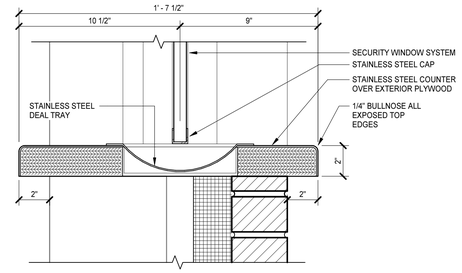
28 A3.1.1 A3.1.3 **JAMB DETAIL - INTERIOR SLIDING WINDOW**
3" = 1'-0"



25 A3.1.1 A3.1.3 **JAMB DETAIL - SECURITY WINDOW**
3" = 1'-0"



27 A3.1.1 A3.1.3 **SILL DETAIL - INTERIOR SLIDING WINDOW**
3" = 1'-0"



24 A3.1.1 A3.1.3 **SILL DETAIL - SECURITY WINDOW**
3" = 1'-0"

DOOR AND FRAME GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1 - A3.2.n.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

D. FIELD VERIFY EXISTING FRAME OPENINGS WHERE FRAMES ARE TO REMAIN AND RECEIVE NEW DOOR.

DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY: n

APPLIES TO DRAWINGS A3.1.2 - A3.1.3

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT AND BACKER ROD, ALL SIDES
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	5/8" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
9	ALUMINUM STOREFRONT SYSTEM
10	EXISTING WALL
13	CONTINUOUS BACKER ROD & SEALANT
14	WOOD BLOCKING (PPT AT EXTERIOR LOCATIONS WITH SPF SEAL BETWEEN WOOD BLOCKING)
18	CURTAINWALL SYSTEM
19	EXISTING STRUCTURAL COLUMN
20	PREFINISHED BRAKE METAL ENCLOSURE BY AS/CW MFR
21	WOOD SHIM AS REQD
22	STEEL FRAME, GROUTED SOLID
23	MASONRY VENEER
24	CAVITY DRAINAGE MATERIAL
25	AIR BARRIER TRANSITION MEMBRANE
26	MEMBRANE FLASHING W/ WEEPS & DRIP EDGE
27	STEEL ANGLE
28	MINERAL WOOL BOARD, FILL CAVITY. 1" MIN WIDTH
29	PVC ANGLE STOP FOR SPRAY FOAM
30	CEILING AS SCHEDULED
31	METAL PANEL CLOSURE BY METAL PANEL MFR
32	METAL PANEL SYSTEM
33	PREFINISHED METAL FLASHING. FINISH TO MATCH ADJACENT METAL PANEL BY METAL PANEL MANUFACTURER.
34	INTERIOR ALUMINUM SNAP-ON TRIM
35	RIGID INSULATION

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STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

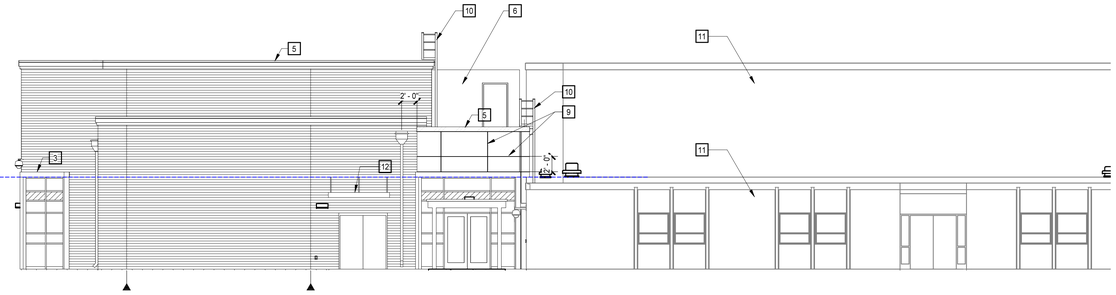
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

DOOR AND FRAME DETAILS/ SCHEDULE

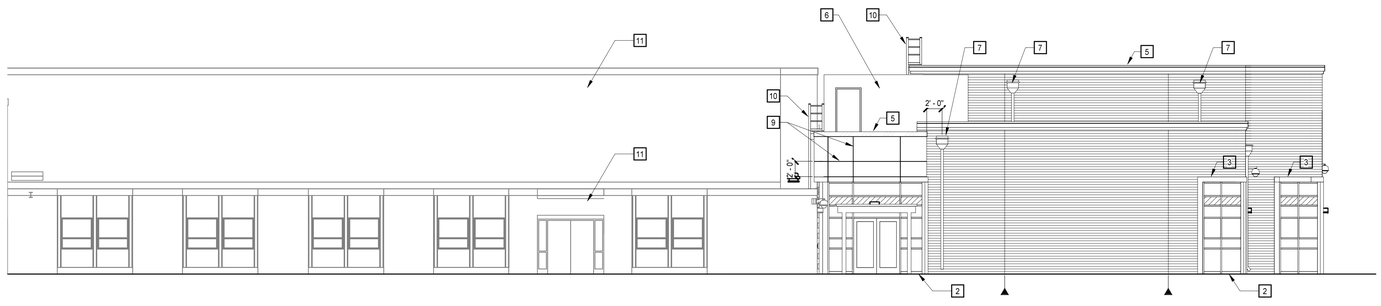
A3.1.3

7/1/2022 11:17:07 AM



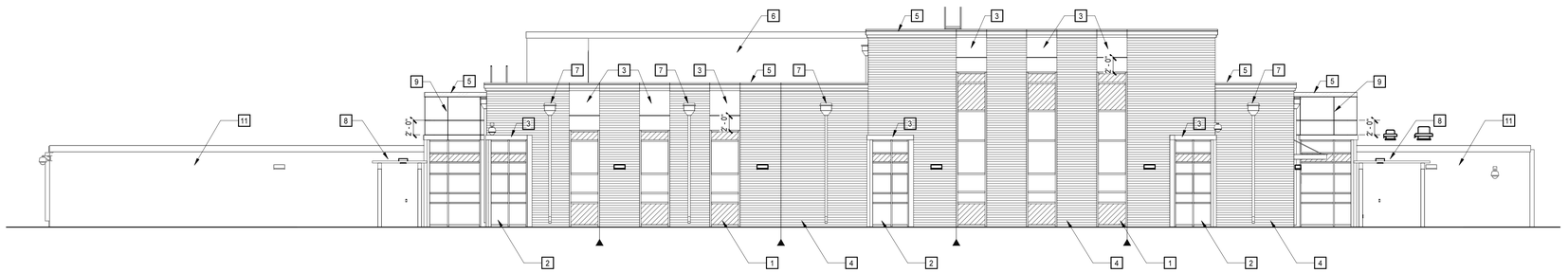
3 A2.0.1 | A4.1.1 **East Elevation**

1/8" = 1'-0"



2 A1.2.1 | A4.1.1 **West Elevation**

1/8" = 1'-0"



1 A2.0.1 | A4.1.1 **South Elevation**

1/8" = 1'-0"

BUILDING ELEVATION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A4.1.1

1	ALUMINUM CURTAINWALL SYSTEM
2	ALUMINU STOREFRONT SYSTEM
3	METAL COMPOSITE PANEL
4	FACE BRICK
5	PREFINISHED METAL COPING
6	ROOF SCREEN
7	PREFINISHED 6" OVERFLOW SCUPPER, COLLECTOR BOX, AND DOWNSPOUT
8	POST SUPPORTED CANOPY SYSTEM
9	METAL PANEL REVEAL
10	ROOF TO ROOF LADDER
11	EXISTING CONSTRUCTION
12	CANTILEVERED WALL MOUNTED CANOPY SYSTEM

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STEPHEN ELLIS HALSEY
Lic. No. 0401010134
07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

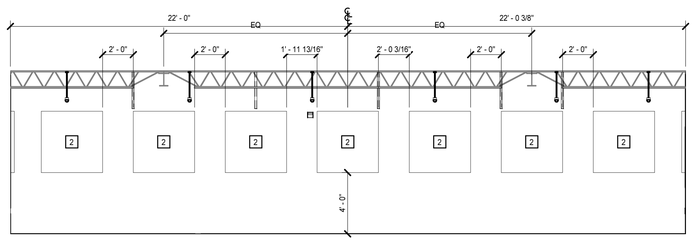
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

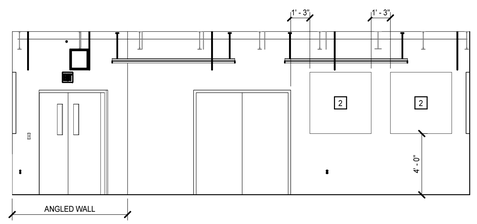
BUILDING ELEVATIONS

A4.1.1

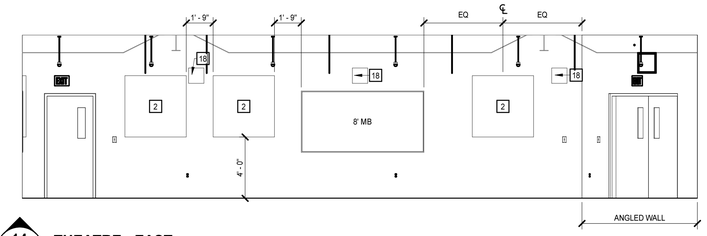
7/1/2022 11:17:13 AM



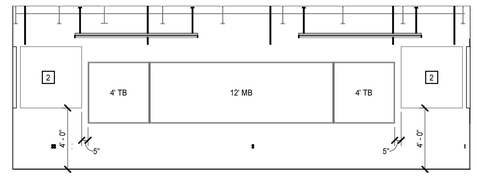
16 A2.1.2 A4.1.2 **THEATRE - WEST**
1/4" = 1'-0"



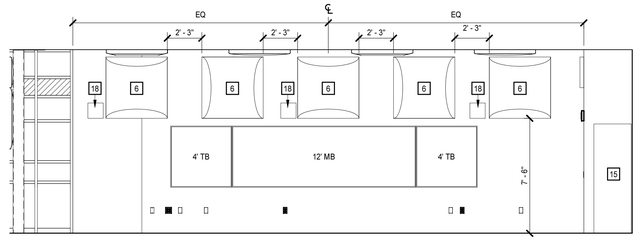
15 A2.1.2 A4.1.2 **THEATRE - SOUTH**
1/4" = 1'-0"



14 A2.1.2 A4.1.2 **THEATRE - EAST**
1/4" = 1'-0"



13 A2.1.2 A4.1.2 **THEATRE - NORTH**
1/4" = 1'-0"



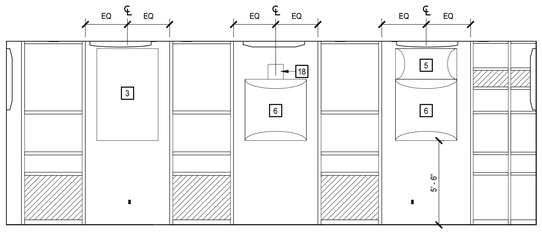
12 A2.1.2 A4.1.2 **CHORUS - WEST**
1/4" = 1'-0"

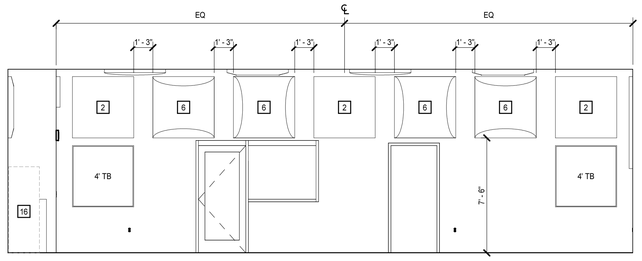
INTERIOR ELEVATION KEYNOTES

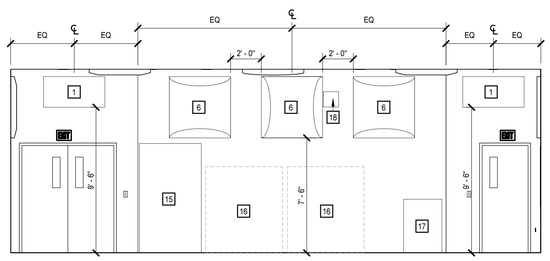
REPRESENTED BY n

APPLIES TO DRAWINGS A4.1.2 - A4.1.4

1	2'X4'X3" WALL ABSORBER
2	4'X4'X3" WALL ABSORBER
3	4'X6'X3" WALL ABSORBER
4	4'X8'X3" WALL ABSORBER
5	2'X4' WALL DIFFUSER
6	4'X4' WALL DIFFUSER
7	FILLER PANEL
8	4'X4' CUSTOM DIGITAL PRINT ACOUSTIC FELT PANEL
9	8'X4' CUSTOM DIGITAL PRINT ACOUSTIC FELT PANEL
10	TACKBOARD WALL
11	METAL BASE
12	GWT BULLNOSE TRIM
13	WRAP GWT
14	1/2" GYP REVEAL. CONTINUE REVEAL ON UNDERSIDE OF BULKHEAD IN ALIGNMENT WITH ELEVATION. REFER TO REFLECTED CEILING PLAN.
15	MUSIC CASEWORK
16	KEYBOARD STORAGE - OWNER PROVIDED
17	SOUND MIXER
18	WALL MOUNTED SPEAKER
19	GWT ETR
20	BRICK VENEER ETR
21	TV MONITOR - OWNER PROVIDED
22	FULL HEIGHT GWT
23	60"H GWT
24	ALIGN REVEALS WHERE PERPENDICULAR BULKHEAD MEETS



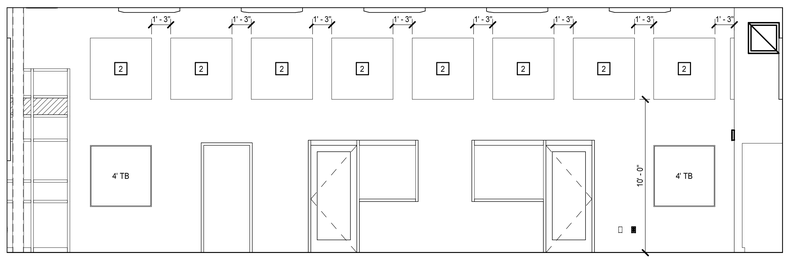




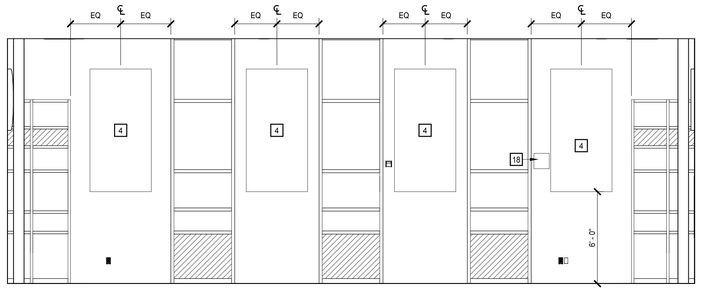
11 A2.1.2 A4.1.2 **CHORUS - SOUTH**
1/4" = 1'-0"

10 A2.1.2 A4.1.2 **CHORUS - EAST**
1/4" = 1'-0"

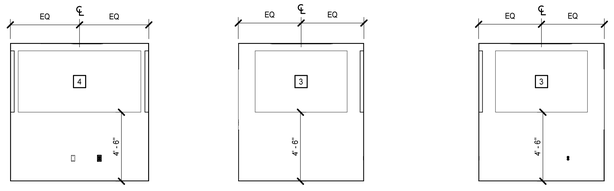
9 A2.1.2 A4.1.2 **CHORUS - NORTH**
1/4" = 1'-0"

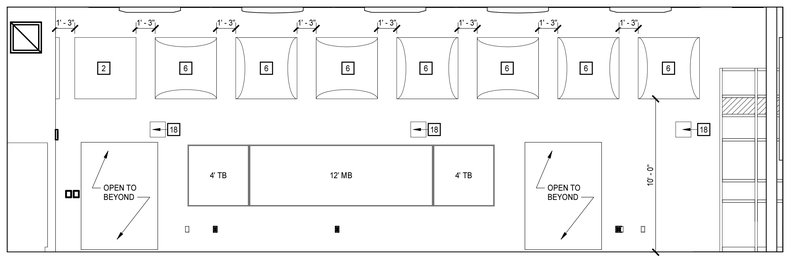


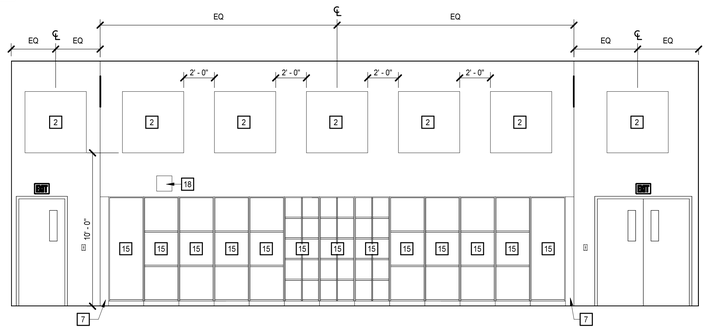
6 A2.1.2 A4.1.2 **BAND -WEST**
1/4" = 1'-0"



5 A2.1.2 A4.1.2 **BAND SOUTH**
1/4" = 1'-0"







7 A2.1.2 A4.1.2 **PRAC ROOM - WEST**
1/4" = 1'-0"

4 A2.1.2 A4.1.2 **PRAC ROOM - SOUTH**
1/4" = 1'-0"

3 A2.1.2 A4.1.2 **PRAC ROOM - NORTH**
1/4" = 1'-0"

2 A2.1.2 A4.1.2 **BAND - EAST**
1/4" = 1'-0"

1 A2.1.2 A4.1.2 **BAND - NORTH**
1/4" = 1'-0"

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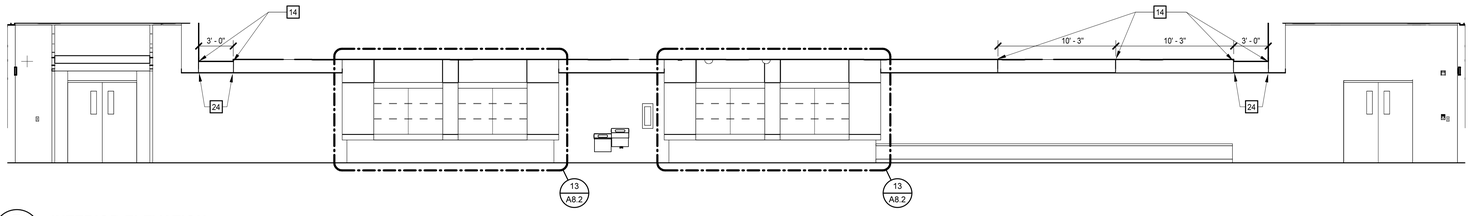
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

INTERIOR ELEVATIONS

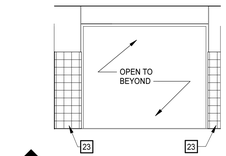
A4.1.2

7/1/2022 11:17:20 AM



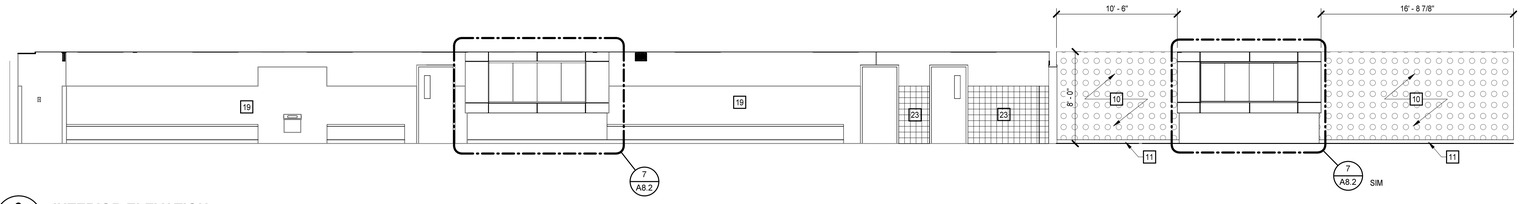
7 INTERIOR ELEVATION

A2.1.2 | A4.1.3 — 3/16" = 1'-0"



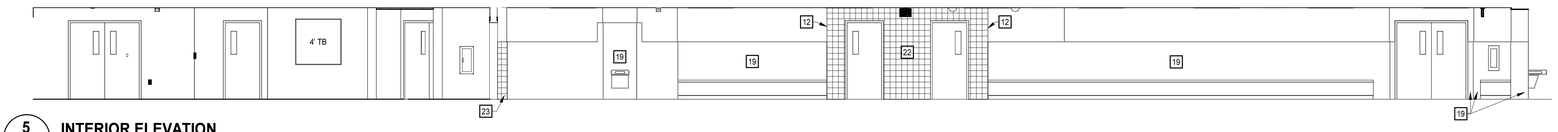
8 INTERIOR ELEVATION

A2.1.2 | A4.1.3 — 1/4" = 1'-0"



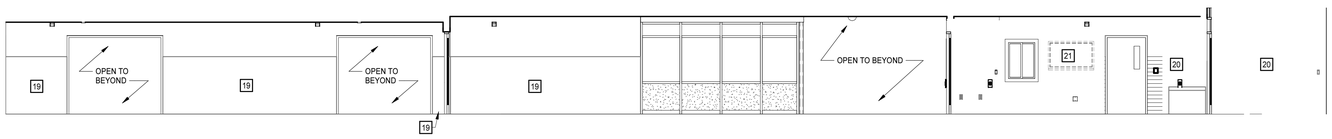
6 INTERIOR ELEVATION

A1.2.3C | A4.1.3 — 3/16" = 1'-0"



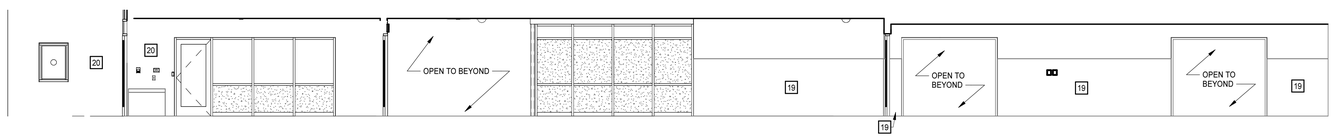
5 INTERIOR ELEVATION

A1.2.3C | A4.1.3 — 3/16" = 1'-0"



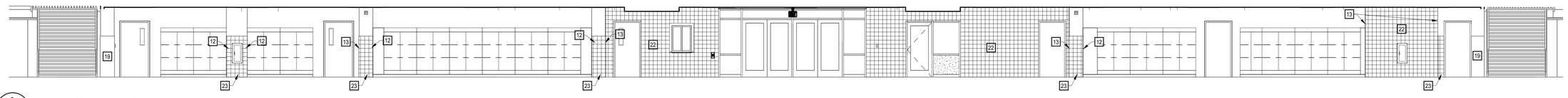
4 INTERIOR ELEVATION

A2.1.1 | A4.1.3 — 3/16" = 1'-0"



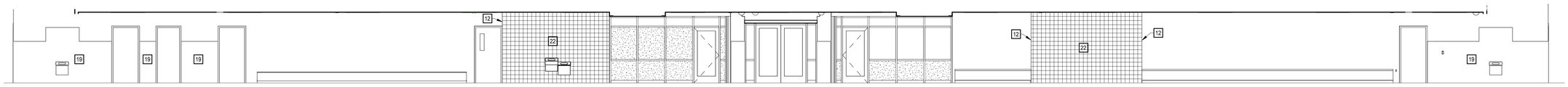
3 INTERIOR ELEVATION

A2.1.1 | A4.1.3 — 3/16" = 1'-0"



2 INTERIOR ELEVATION

A1.2.3C | A4.1.3 — 3/16" = 1'-0"



1 INTERIOR ELEVATION

A1.2.3C | A4.1.3 — 3/16" = 1'-0"

INTERIOR ELEVATION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A4.1.2 - A4.1.4

1	2'X4'X3" WALL ABSORBER
2	4'X4'X3" WALL ABSORBER
3	4'X6'X3" WALL ABSORBER
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24	ALIGN REVEALS WHERE PERPENDICULAR BULKHEAD MEETS

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REVISIONS	
DATE	DESCRIPTION

INTERIOR ELEVATIONS

A4.1.3

7/1/2022 11:17:27 AM

INTERIOR ELEVATION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A4.1.2 - A4.1.4

1	2'X4'X3" WALL ABSORBER
2	4'X4'X3" WALL ABSORBER
3	4'X6'X3" WALL ABSORBER
4	4'X8'X3" WALL ABSORBER
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6	4'X4' WALL DIFFUSER
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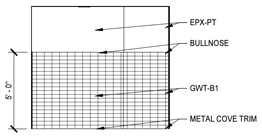
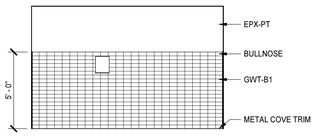
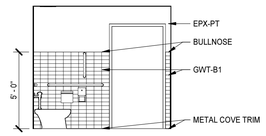
22	FULL HEIGHT GWT
23	60"H GWT
24	ALIGN REVEALS WHERE PERPENDICULAR BULKHEAD MEETS



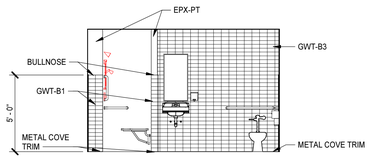
11 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



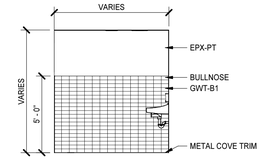
10 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



9 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"

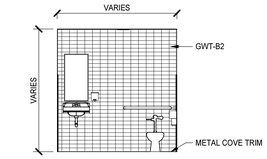


8 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



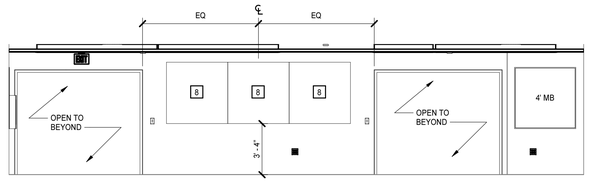
TILE PATTERN TYPICAL OF 3 WALLS, NON WET WALL

7 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



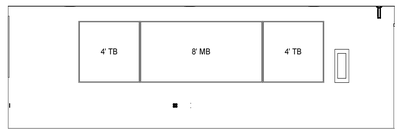
TILE PATTERN TYPICAL OF WET WALL

6 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"

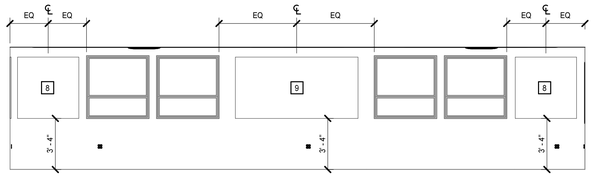


5 A7.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"

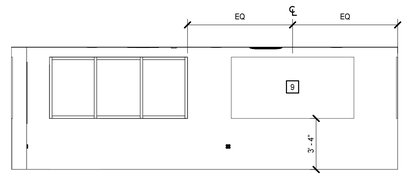
4 A2.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



3 A2.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



2 A2.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"



1 A2.1.1 A4.1.4 **INTERIOR ELEVATION** 1/4" = 1'-0"

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INTERIOR ELEVATIONS

A4.1.4

7/1/2022 11:17:32 AM

WALL SECTION GENERAL NOTES

A. REFER TO DWG A0.1 FOR THE ARCHITECTURAL MATERIAL LEGEND.

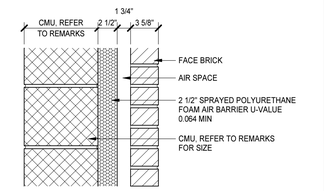
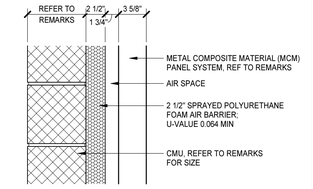
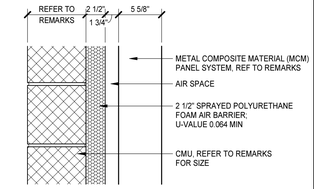
B. REFER TO DWG A0.2 FOR INTERIOR WALL/PARTITION TYPES, TERMINATION DETAILS AND WALL JOINT INFORMATION

C. REFER TO DWG A5.1.1 FOR EXTERIOR WALL ASSEMBLIES

D. REFER TO DWG A5.1.1 FOR EXTERIOR WALL BASE OF WALL ASSEMBLIES

EXTERIOR WALL ASSEMBLIES

APPLIES TO A5.1 SERIES OF DRAWINGS
REPRESENTED BY (WAn)

MARK	FIRE RATING (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
WA1-1 WA1-2	⬡	8" CMU, FACE BRICK 'A' 10" CMU, FACE BRICK 'A'	
WA2-1 WA2-2	⬡	8" CMU, MCM PANELS 10" CMU, MCM PANELS	
WA3-1 WA3-2	⬡	8" CMU, FACE BRICK 'A' 10" CMU, FACE BRICK 'A'	

WALL SECTION KEYNOTES

REPRESENTED BY (n)

APPLIES TO DRAWINGS A5.1.1 - A5.1.4

1	EXISTING WALL CONSTRUCTION
2	STL ANGLE/BENT PLATE, REFER TO STRUCTURAL DWGS
5	EXISTING ROOF DECK/STRUCTURE
6	ALUMINUM STOREFRONT SYSTEM
8	CAVITY DRAINAGE MATERIAL
9	AIR BARRIER TRANSITION MEMBRANE
10	METAL PANEL - TYPE VARIES
11	MAINTAIN CAVITY AIR SPACE CLEAN AND CLEAR
12	MINERAL WOOL INSULATION WRAPPED WITH AIR/ VAPOR BARRIER MEMBRANE
14	EXTERIOR GRADE WOOD BLOCKING
15	TWO PIECE METAL COUNTERFLASHING
16	3/4" FRT PLYWOOD
17	RIGID INSULATION BELOW FLASHING
18	RIGID INSULATION - 3" MIN
19	ROOFING MEMBRANE
20	PREFINISHED EXTRUDED ALUMINUM COPING BY PANEL MANUFACTURER
21	THRU-WALL FLASHING W/ 2 PIECE COUNTERFLASHING & WEEPS
22	BENT PLATE
23	MASONRY VENEER
24	2 1/2" RIGID INSULATION
25	GROUT SOLID BELOW EMBEDDED FLEXIBLE FLASHING
26	TAPER TOP OF RIGID BOARD CAVITY - WALL INSULATION
27	FACE OF INNER WYTHE OF EXTERIOR WALL
28	CONTINUOUS TERMINATION BAR
29	CONTINUOUS SEAL AT TOP OF TERMINATION BAR
30	SPF - ALSO SERVES AS AIR BARRIER
31	EMBEDDED FLEXIBLE FLASHING
32	STEP FLASHING ASSEMBLY AS REQUIRED TO MAINTAIN DIMENSIONAL RELATIONSHIP WITH FINISH GRADE
33	FINISH GRADE VARIES
34	PROTECTION BOARD
35	LAP AIR BARRIER TRANSITION STRIP OVER DAMPPROOFING 3" MIN TO MAINTAIN AIR BARRIER CONTINUITY
36	METAL DRIP EDGE WITH HEMMED EDGES, FORM DRIP (TURN DOWN IMMEDIATELY AT FACE OF WALL - DO NOT PROVIDE A FLAT SURFACE BEFORE FORMING DRIP)
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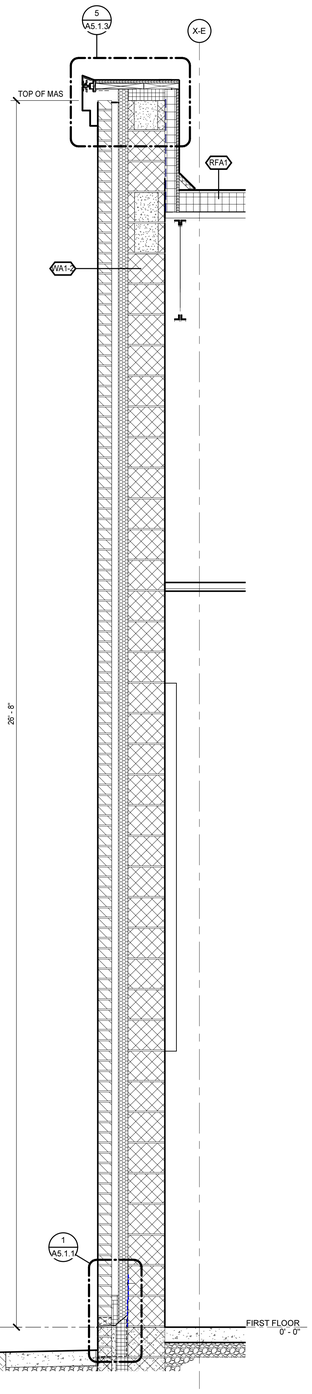
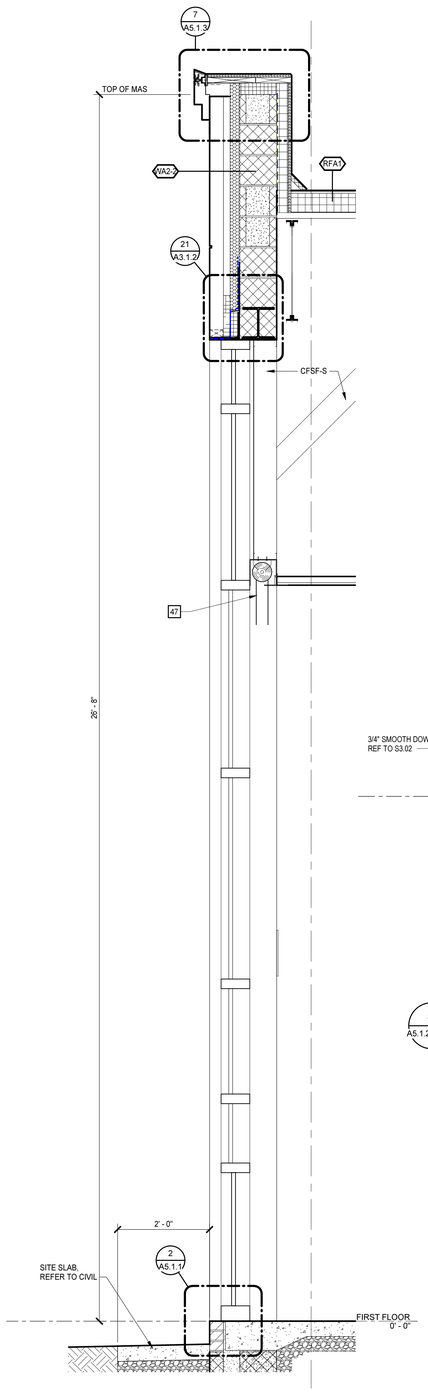
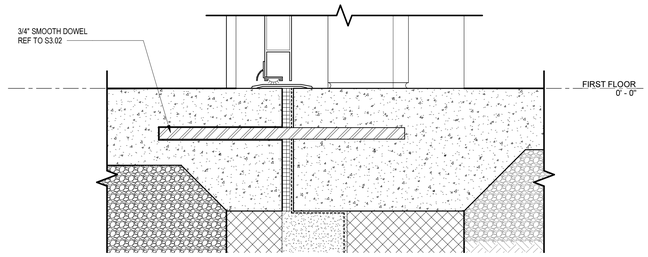
42	FINISH VARIES
43	VAPOR BARRIER
44	VERTICAL ELEMENT WHERE CONTINUES
45	CONTINUOUS MFR COMPANION SEALER/ ADHESIVE/TAPE
46	VERTICAL ELEMENT
47	POCKET MOUNTED MOTORIZED DUAL ROLLER SHADE



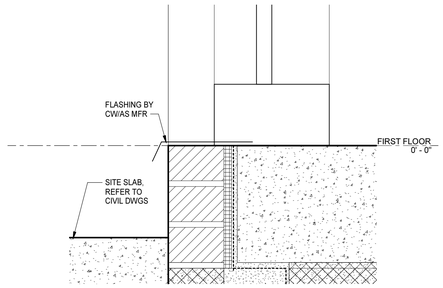
4 WALL SECTION - BRICK ON CMU
A2.1.2 | A5.1.1 — 3/4" = 1'-0"



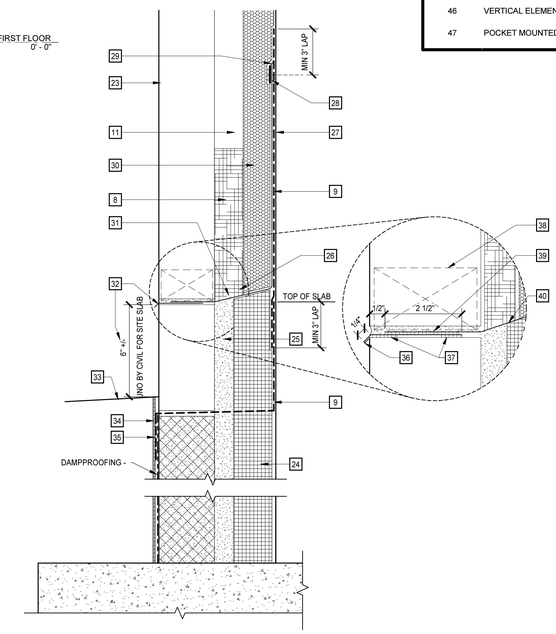
3 WALL SECTION - CURTAINWALL @ BRICK ON CMU
A2.1.2 | A5.1.1 — 3/4" = 1'-0"



5 SECTION DETAIL
A5.1.2 | A5.1.1 — 3" = 1'-0"

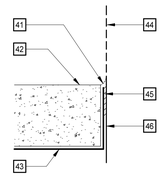


2 SECTION DETAIL
A5.1.1 | A5.1.1 — 3" = 1'-0"



1 BASE-OF-EXTERIOR CAVITY WALL
A5.1.1 | A5.1.1 — NO SCALE

NOTE: REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION PLANS, NOTES, AND DETAILS FOR ACTUAL FOUNDATION AND FOOTING CONSTRUCTION AND DEPTHS.



ALL INTERIOR SLAB-ON-GRADE TO VERTICAL ELEMENT CONDITIONS

SLAB-ON-GRADE BOUNDARY CONDITIONS
NO SCALE

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

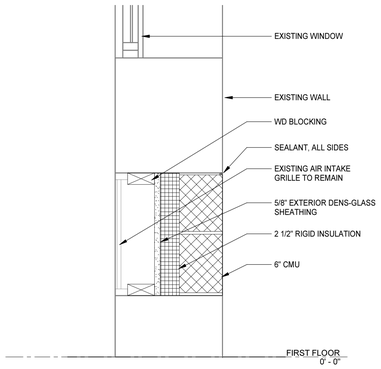
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

WALL SECTIONS

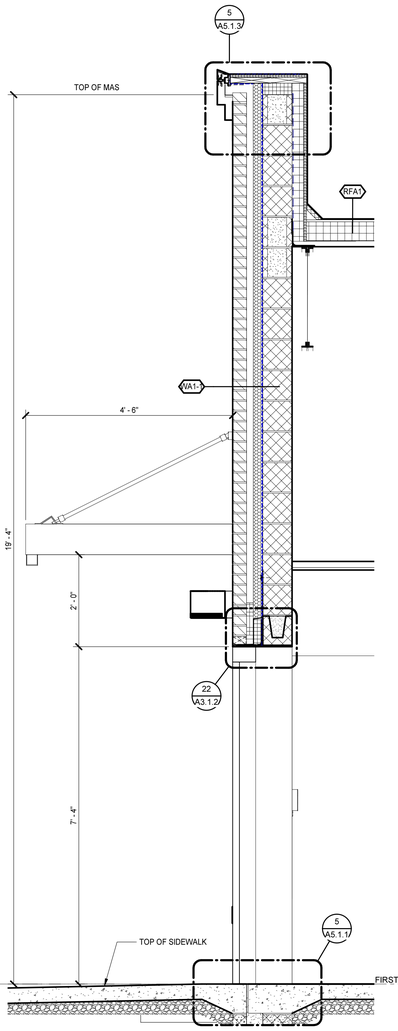
A5.1.1

7/1/2022 11:17:35 AM



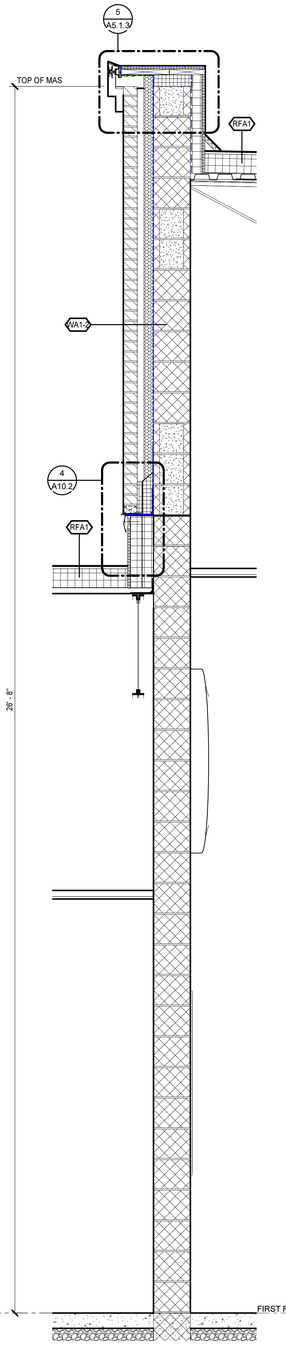
6 MECH LOUVER INFILL DETAIL, TYPICAL

A2.1.1 | A5.1.2 — 1 1/2" = 1'-0"



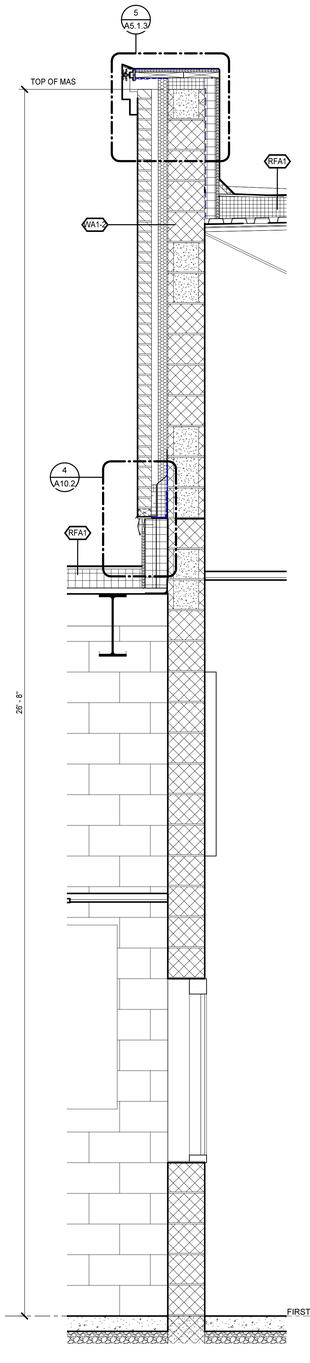
5 WALL SECTION

A2.1.2 | A5.1.2 — 3/4" = 1'-0"



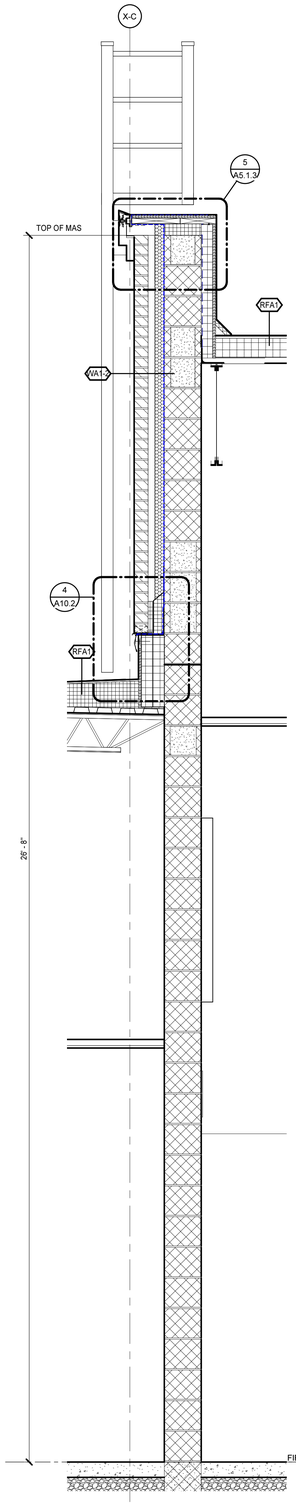
4 WALL SECTION

A2.1.2 | A5.1.2 — 3/4" = 1'-0"



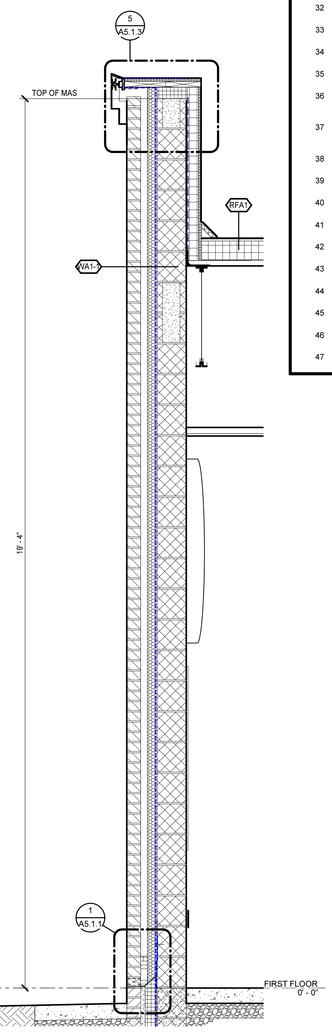
3 WALL SECTION

A2.1.2 | A5.1.2 — 3/4" = 1'-0"



2 WALL SECTION

A2.1.2 | A5.1.2 — 3/4" = 1'-0"



1 WALL SECTION

A2.1.2 | A5.1.2 — 3/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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3600 Conduit Rd, Colonial Heights, VA 23834

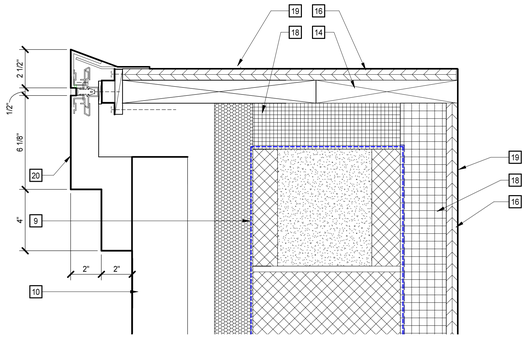
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

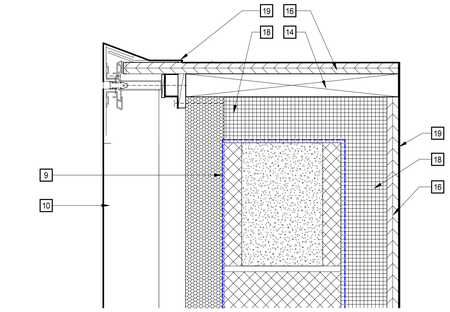
WALL SECTIONS

A5.1.2

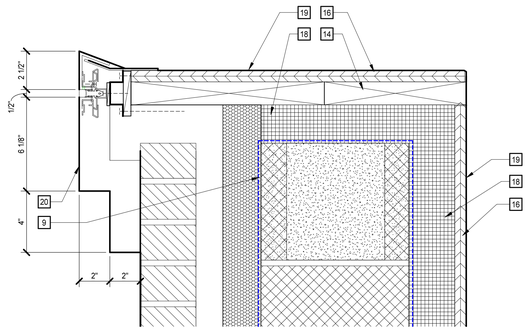
7/1/2022 11:17:39 AM



7 ROOF DETAIL
A5.1.1 A5.1.3 3" = 1'-0"



6 ROOF DETAIL
A5.1.3 A5.1.3 3" = 1'-0"



5 ROOF DETAIL
A5.1.1 A5.1.3 3" = 1'-0"

WALL SECTION KEYNOTES

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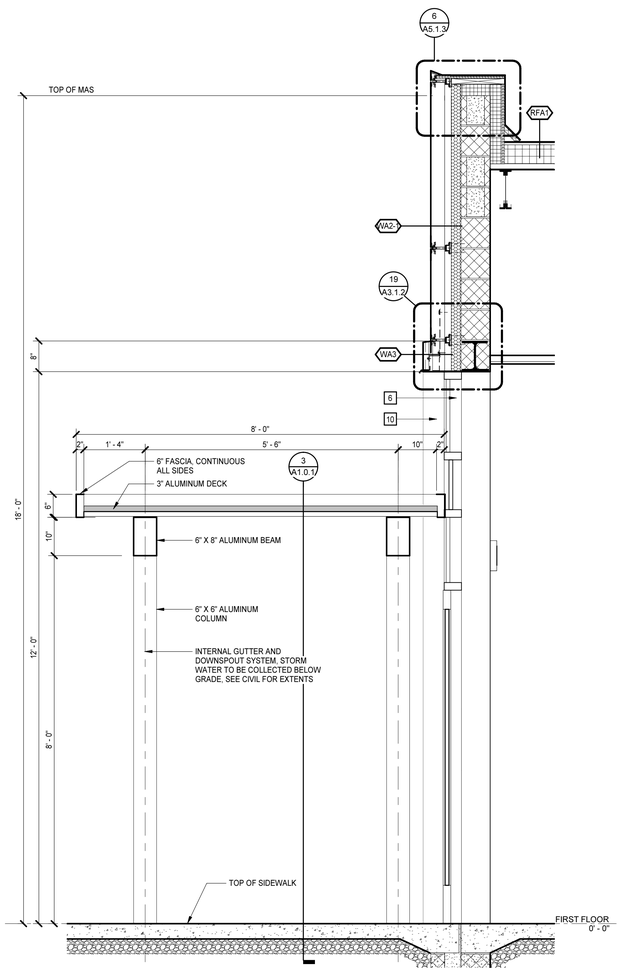
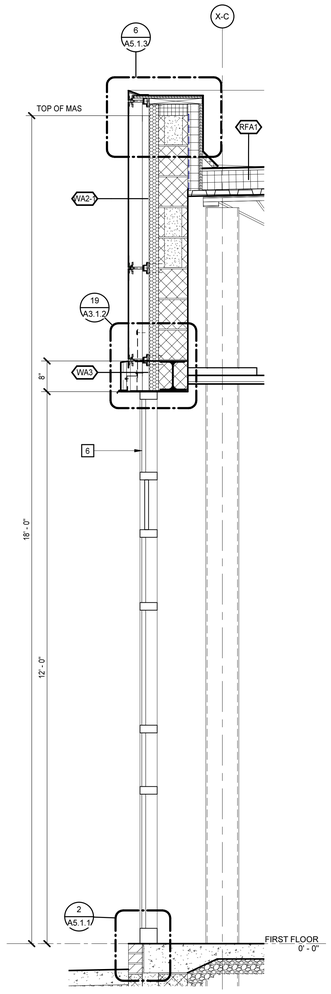
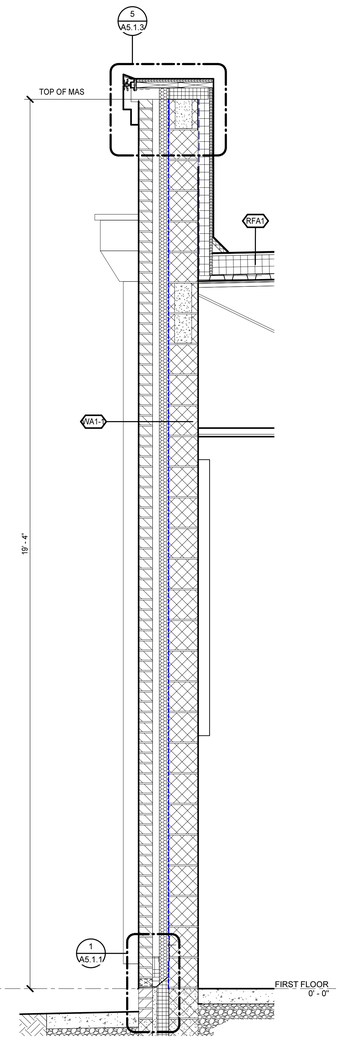


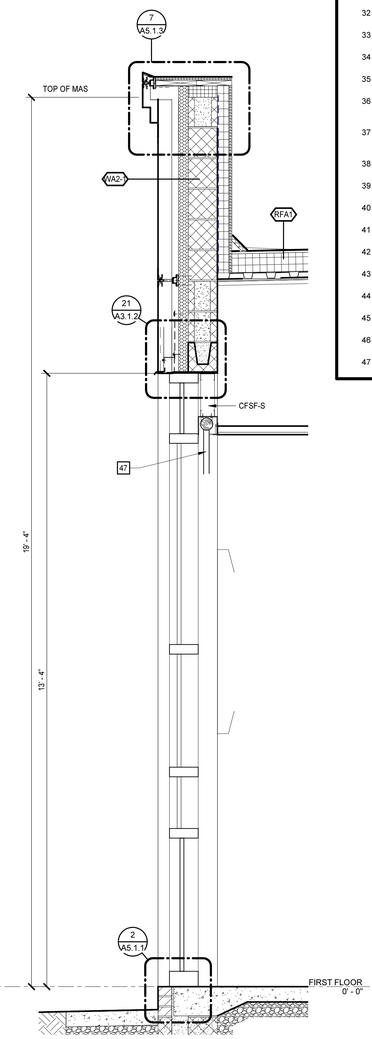
4 WALL SECTION
A1.0.1 A5.1.3 3/4" = 1'-0"



3 WALL SECTION
A2.1.2 A5.1.3 3/4" = 1'-0"



2 WALL SECTION
A2.1.2 A5.1.3 3/4" = 1'-0"



1 WALL SECTION
A2.1.2 A5.1.3 3/4" = 1'-0"

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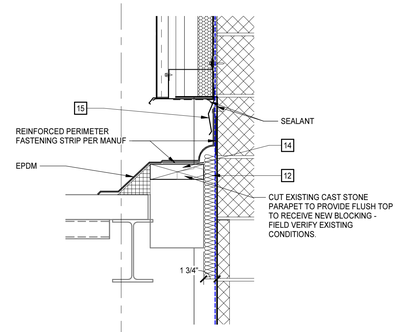
REVISIONS	
DATE	DESCRIPTION

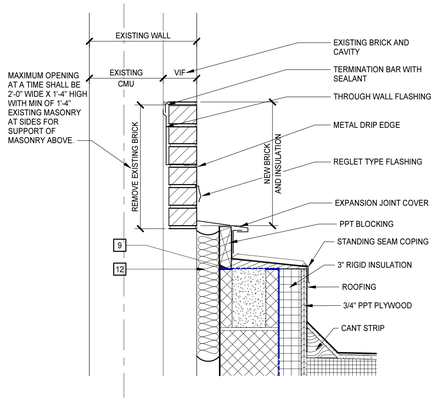
WALL SECTIONS

A5.1.3

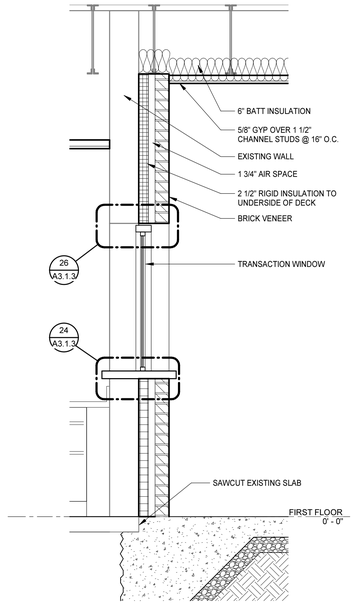
7/1/2022 11:17:43 AM



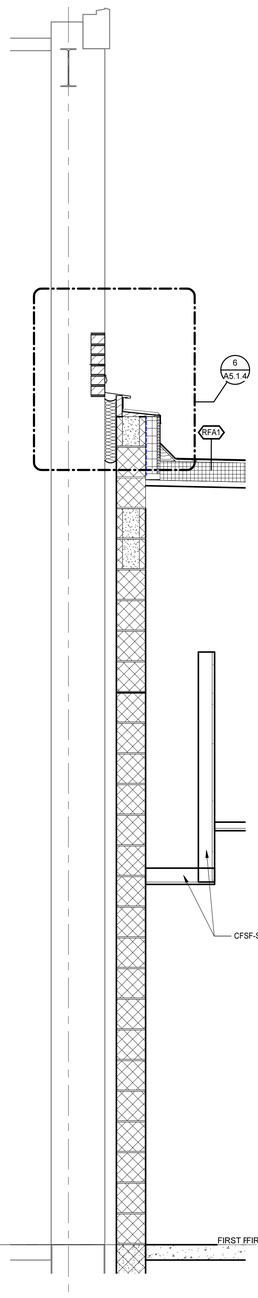
5 A5.1.4 A5.1.4 **ROOF TO WALL EXPANSION JOINT DETAIL**
1 1/2" = 1'-0"



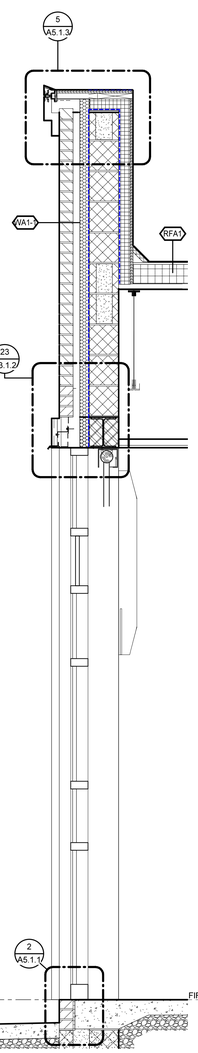
6 A5.1.4 A5.1.4 **EXPANSION JOINT DETAIL**
1 1/2" = 1'-0"



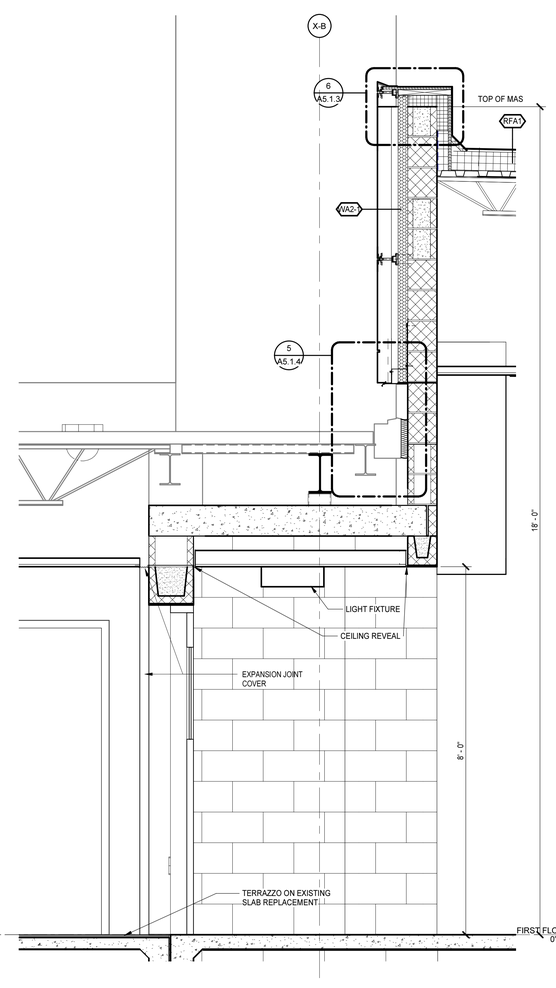
7 A2.1.1 A5.1.4 **WALL SECTION**
3/4" = 1'-0"



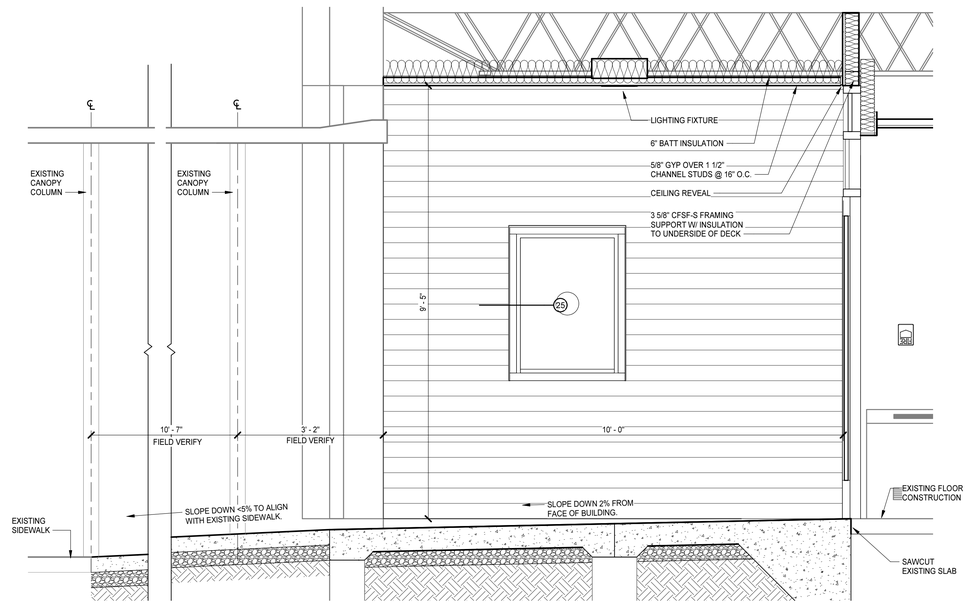
4 A2.1.2 A5.1.4 **WALL SECTION**
3/4" = 1'-0"



3 A2.1.2 A5.1.4 **WALL SECTION**
3/4" = 1'-0"



2 A2.1.2 A5.1.4 **WALL SECTION**
3/4" = 1'-0"



1 A2.1.1 A5.1.4 **WALL SECTION**
3/4" = 1'-0"

WALL SECTION KEYNOTES

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41	SEALANT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION
42	FINISH VARIES
43	VAPOR BARRIER
44	VERTICAL ELEMENT WHERE CONTINUES
45	CONTINUOUS MFR COMPANION SEALER/ ADHESIVE/TAPE
46	VERTICAL ELEMENT
47	POCKET MOUNTED MOTORIZED DUAL ROLLER SHADE.

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COMMONWEALTH OF VIRGINIA
STEPHEN ELLIS HALSEY
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07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

WALL SECTIONS

A5.1.4

7/1/2022 11:17:47 AM

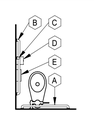
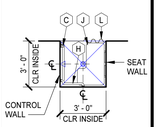
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.

TOILET ASSEMBLIES

APPLIES TO DRAWINGS A7.1 - A7.nn
REPRESENTED BY (TAn)

MARK	REMARKS	PLAN
BARRIER FREE TA7		 WATER CLOSET
BARRIER FREE TA8	OMIT (E)	
TA11	CENTER (G) OVER LAVATORY	 LAVATORY
BARRIER FREE TA12		 SHOWER - TRANSFER STYLE
TA13	OMIT (C) (H) (J)	

LEGEND NOTES:

A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.

B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.

C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED/OWNER INSTALLED
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED/OWNER INSTALLED
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	OWNER FURNISHED/OWNER INSTALLED
G	MIRROR (18" x 36"), OVER LAV AND COUNTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	
H	GRAB BAR ASSEMBLY	REFER TO SHOWER ELEVATIONS	
J	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE	
K	PAPER TOWEL DISPENSER	3'-8" AFF TO DISPENSING OUTLET	OWNER FURNISHED/OWNER INSTALLED

1. ACCESSORY ITEMS ARE IDENTIFIED BY (⬡) ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
2. ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
3. REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
4. PROVIDE MOP AND BROOM HOLDER W/ SHELF (⬡) AT ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
5. PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.

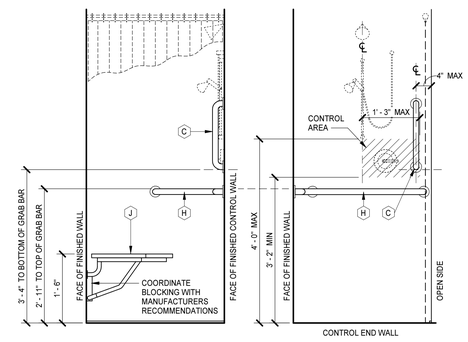
5 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

4 A2.1.2 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

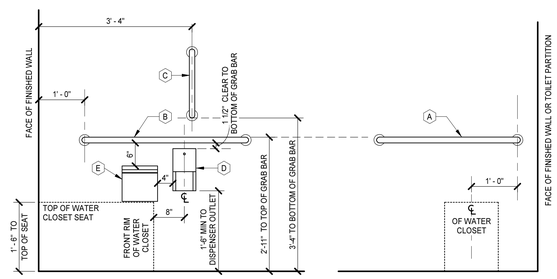
3 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

2 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

1 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



TRANSFER-TYPE SHOWER ELEVATIONS
3/4" = 1'-0"



WATER CLOSET ELEVATIONS
3/4" = 1'-0"

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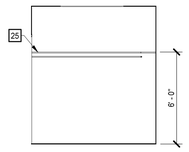
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565	
DATE:	July 1, 2022
REVISIONS	
DATE	DESCRIPTION

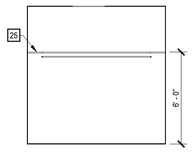
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS

A7.1.1

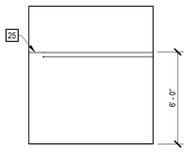
7/1/2022 11:17:52 AM



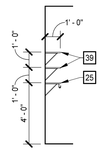
37 CASEWORK ELEVATION
1/4" = 1'-0"



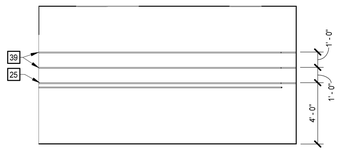
36 CASEWORK ELEVATION
1/4" = 1'-0"



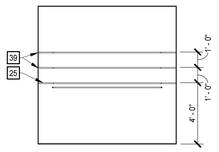
35 CASEWORK ELEVATION
1/4" = 1'-0"



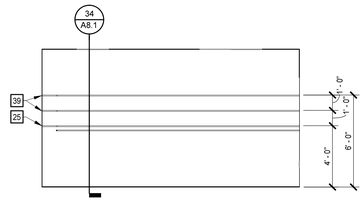
34 / A8.1 A8.1 SECTION
1/4" = 1'-0"



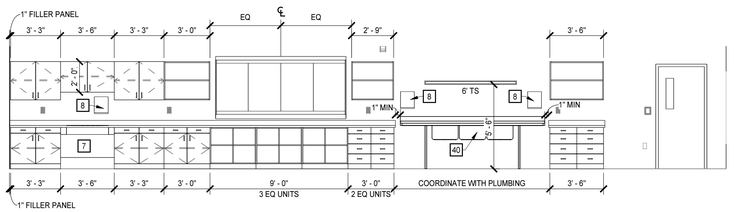
33 CASEWORK ELEVATION
1/4" = 1'-0"



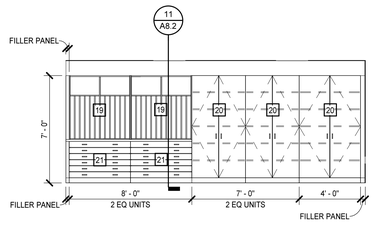
32 CASEWORK ELEVATION
1/4" = 1'-0"



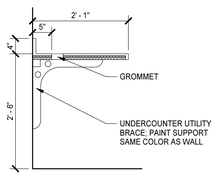
31 CASEWORK ELEVATION
1/4" = 1'-0"



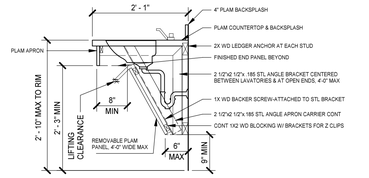
30 CASEWORK ELEVATION
1/4" = 1'-0"



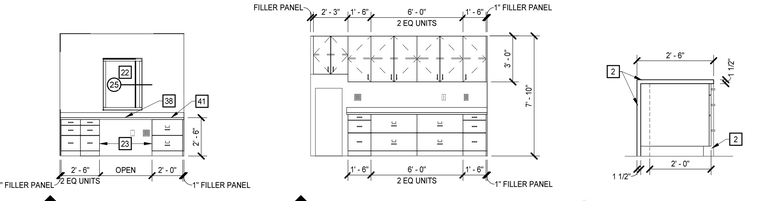
29 CASEWORK ELEVATION
1/4" = 1'-0"



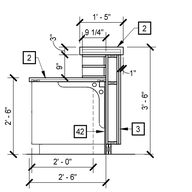
28 / A8.1 A8.1 CASEWORK SECTION
3/4" = 1'-0"



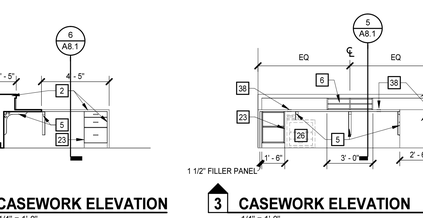
27 / A8.1 CASEWORK SECTION
3/4" = 1'-0"



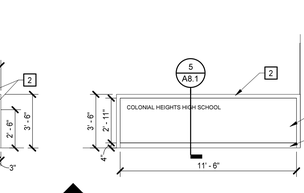
26 CASEWORK ELEVATION
1/4" = 1'-0"



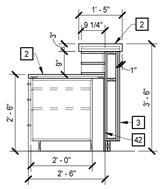
25 CASEWORK ELEVATION
1/4" = 1'-0"



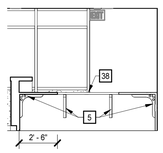
24 CASEWORK ELEVATION
1/4" = 1'-0"



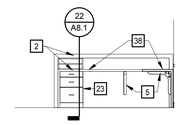
23 CASEWORK ELEVATION
1/4" = 1'-0"



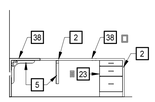
22 / A8.1 A8.1 CASEWORK SECTION
1/2" = 1'-0"



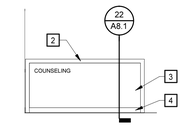
21 CASEWORK ELEVATION
1/4" = 1'-0"



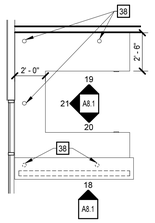
20 CASEWORK ELEVATION
1/4" = 1'-0"



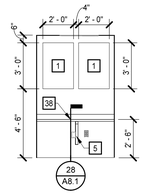
19 CASEWORK ELEVATION
1/4" = 1'-0"



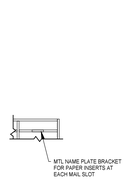
18 CASEWORK ELEVATION
1/4" = 1'-0"



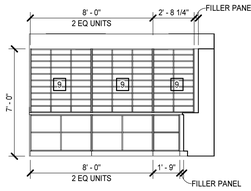
17 / A2.1.1 A8.1 CASEWORK PLAN
1/4" = 1'-0"



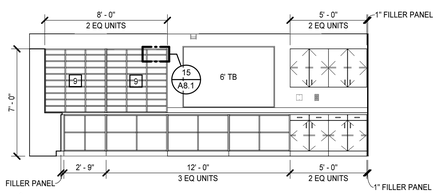
16 CASEWORK ELEVATION
1/4" = 1'-0"



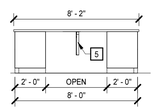
15 / A8.1 A8.1 CASEWORK DETAIL
1/2" = 1'-0"



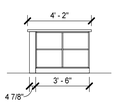
14 CASEWORK ELEVATION
1/4" = 1'-0"



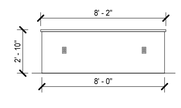
13 CASEWORK ELEVATION
1/4" = 1'-0"



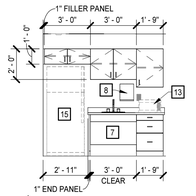
12 CASEWORK ELEVATION
1/4" = 1'-0"



11 CASEWORK ELEVATION
1/4" = 1'-0"



10 CASEWORK ELEVATION
1/4" = 1'-0"



9 CASEWORK ELEVATION
1/4" = 1'-0"

8 CASEWORK ELEVATION
1/4" = 1'-0"

7 CASEWORK ELEVATION
1/4" = 1'-0"

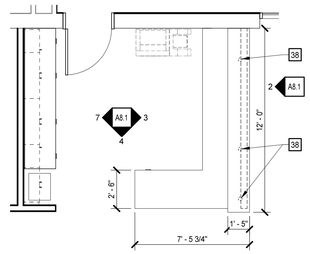
6 / A8.1 A8.1 CASEWORK SECTION
1/2" = 1'-0"

5 / A8.1 A8.1 CASEWORK SECTION
1/2" = 1'-0"

4 CASEWORK ELEVATION
1/4" = 1'-0"

3 CASEWORK ELEVATION
1/4" = 1'-0"

2 CASEWORK ELEVATION
1/4" = 1'-0"



1 / A2.1.1 A8.1 CASEWORK PLAN
1/4" = 1'-0"

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- HIGH PRESSURE LAMINATE
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" HIGH AND 3" DEEP
- SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-0" DEEP NOMINAL
- 2'-6" HIGH
- TOP AT 7'-0" AFF

D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

G. PROVIDE LOCKS IN: ADMINISTRATION, NURSE/TREATMENT, WORK/MAIL ROOM, UNLESS INDICATED OTHERWISE.

H. COORDINATE SINK LOCATIONS WITHIN OR ADJACENT TO CASEWORK WITH PLUMBING DRAWINGS.

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A8.1 - A8.2

1	ACOUSTIC WALL PANEL
2	SOLID SURFACE
3	DECORATIVE PROFILED WALL PANEL WITH 4" HIGH METAL LETTER SIGNAGE ON STANDOFFS
4	METAL BASE
5	UNDER COUNTER SUPPORT BRACKET
6	PLASTIC LAMINATE PAPER STORAGE
7	ADA COMPLIANT SINK CABINET. REFER TO 27/A8.1
8	PAPER TOWEL DISPENSER - OWNER FURNISHED/OWNER INSTALLED
9	MAILROOM CASEWORK MODULE. 12" DEEP
10	ADA COMPLIANT DISHWASHER - OWNER FURNISHED/OWNER INSTALLED
11	ADA COMPLIANT DROP IN STOVE WITH FRONT CONTROLS - OWNER FURNISHED/OWNER INSTALLED
12	RANGE HOOD
13	MICROWAVE - OWNER FURNISHED/OWNER INSTALLED
15	REFRIGERATOR WITH ICE MAKER - OWNER FURNISHED/OWNER INSTALLED
16	LOCKABLE REFRIDGERATOR WITH ICE MAKER - OWNER FURNISHED/OWNER INSTALLED
17	ADA COMPLIANT DRYER - OWNER FURNISHED/OWNER INSTALLED
18	ADA COMPLIANT WASHING MACHINE - OWNER FURNISHED/OWNER INSTALLED
19	24" DEEP UNIT WITH 12 EQUAL SPACES BELOW AND 2 EQUAL SPACES ABOVE
20	24" DEEP UNIT
21	30" DEEP UNIT
22	SECURITY WINDOW WITH LEDGE AND BALLISTIC RATED GLASS
23	SIDE PANEL OF CASEWORK UNIT EXTENDS TO BACK WALL OR SURFACE
24	STAGGERED METAL HOOKS
25	CLOSET ROD AND SHELF WITH BRACKETS
26	PRINTER - OWNER FURNISHED/OWNER INSTALLED
27	COORDINATE BASE CABINET WITH ADA COMPLIANT DROP-IN RANGE
28	INTERIOR BUTT GLAZED GLASS PARTITION
29	SEALANT, ALL SIDES - TOOL TO 90°.
30	WOOD VENEER
31	1/2" PLYWOOD
32	WOOD BLOCKING
33	STEEL SHELVING SUPPORT TUBE. SLOTTED TO RECEIVE ADJUSTABLE HEIGHT SHELF ARM
34	STEEL SHELF ARM
35	GLASS SHELF
36	RUBBER PAD, MIN. 2 PER SHELF SUPPORT
37	PREFABRICATED DISPLAY CASE WITH 2 SHELVES
38	GROMMET ON 30"H SURFACE
39	SHELF WITH BRACKETS
40	THREE STATION SINK
41	31" DEEP COUNTERTOP
42	1/2" PLAM PANEL
43	ALIGN FACES OF DOORS TO BE FLUSH. VIF.

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STEPHEN ELLIS HALSEY
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07-01-2022
ARCHITECT

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

PROJECT CODE: 2022-8000-2
COLONIAL HEIGHTS PUBLIC SCHOOLS
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

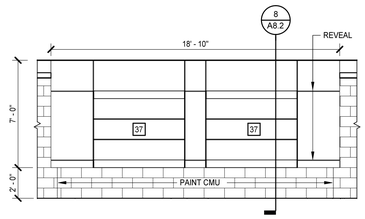
CASEWORK ELEVATIONS & SECTIONS

A8.1

7/1/2022 11:18:05 AM

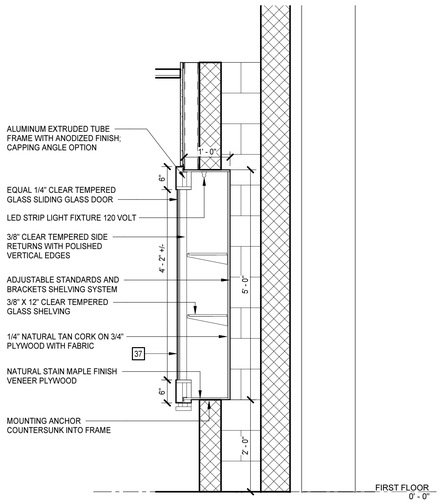
J I H G F E D C B A

1 2 3 4 5 6 7 8 9 10



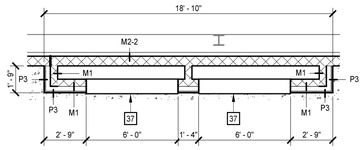
13 A4.1.3 A8.2 DISPLAY CASE - MUSIC - ELEVATION

1/4" = 1'-0"



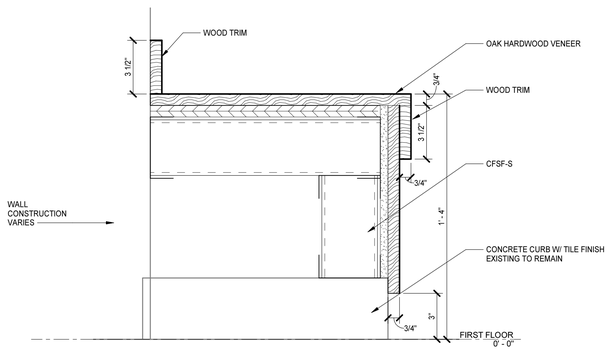
8 A8.2 A8.2 DISPLAY CASE - MUSIC - SECTION

3/4" = 1'-0"



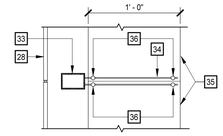
6 A2.1.2 A8.2 DISPLAY CASE - MUSIC - PLAN CALLOUT

1/4" = 1'-0"



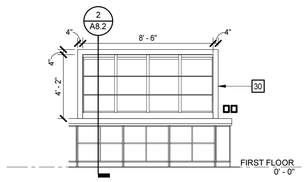
4 A2.1.1 A8.2 BENCH ON EXISTING CURB DETAIL, TYPICAL

3" = 1'-0"



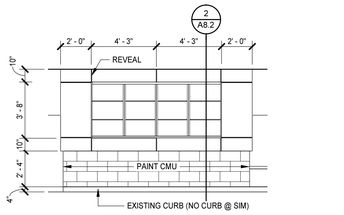
12 A8.2 A8.2 DETAIL

1 1/2" = 1'-0"



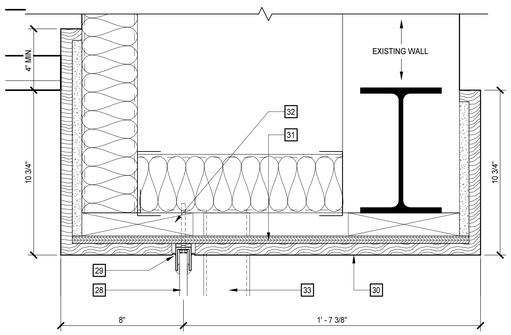
9 A8.2 A8.2 ELEVATION

1/4" = 1'-0"



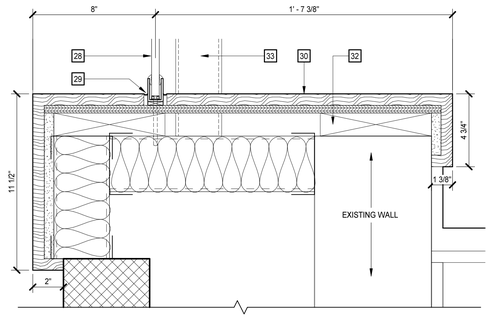
7 A4.1.3 A8.2 ELEVATION

1/4" = 1'-0"



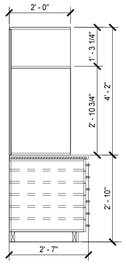
5 A8.2 A8.2 DETAIL

3" = 1'-0"



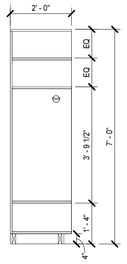
3 A8.2 A8.2 DETAIL

3" = 1'-0"



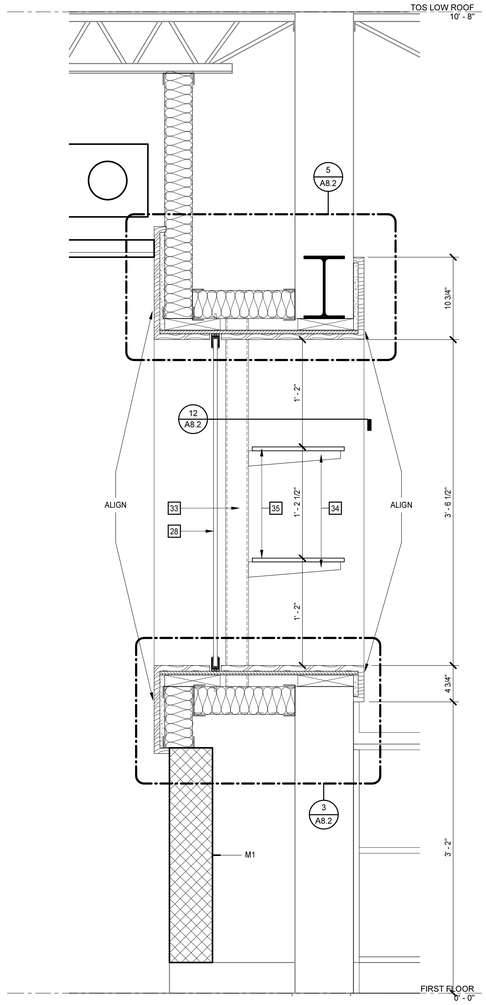
11 A8.1 A8.2 CASEWORK SECTION

1/2" = 1'-0"



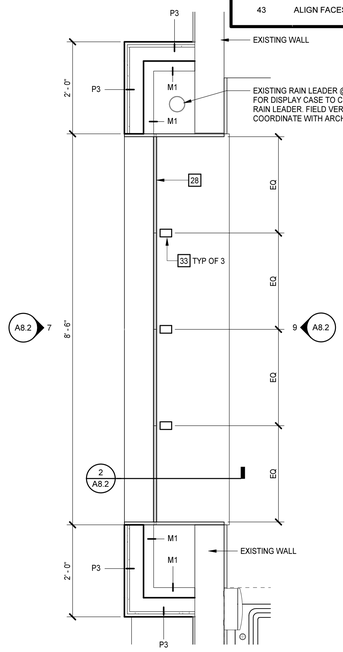
10 A8.1 A8.2 CASEWORK SECTION

1/2" = 1'-0"



2 A8.2 A8.2 WALL SECTION

1 1/2" = 1'-0"



1 A2.1.2 A8.2 PLAN DETAIL

3/4" = 1'-0"

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A8.1 - A8.2

1	ACOUSTIC WALL PANEL
2	SOLID SURFACE
3	DECORATIVE PROFILED WALL PANEL WITH 4" HIGH METAL LETTER SIGNAGE ON STANDOFFS
4	METAL BASE
5	UNDER COUNTER SUPPORT BRACKET
6	PLASTIC LAMINATE PAPER STORAGE
7	ADA COMPLIANT SINK CABINET. REFER TO 27/A8.1
8	PAPER TOWEL DISPENSER - OWNER FURNISHED/OWNER INSTALLED
9	MAILROOM CASEWORK MODULE. 12" DEEP
10	ADA COMPLIANT DISHWASHER - OWNER FURNISHED/OWNER INSTALLED
11	ADA COMPLIANT DROP IN STOVE WITH FRONT CONTROLS - OWNER FURNISHED/OWNER INSTALLED
12	RANGE HOOD
13	MICROWAVE - OWNER FURNISHED/OWNER INSTALLED
15	REFRIGERATOR WITH ICE MAKER - OWNER FURNISHED/OWNER INSTALLED
16	LOCKABLE REFRIDGERATOR WITH ICE MAKER - OWNER FURNISHED/OWNER INSTALLED
17	ADA COMPLIANT DRYER - OWNER FURNISHED/OWNER INSTALLED
18	ADA COMPLIANT WASHING MACHINE - OWNER FURNISHED/OWNER INSTALLED
19	24" DEEP UNIT WITH 12 EQUAL SPACES BELOW AND 2 EQUAL SPACES ABOVE
20	24" DEEP UNIT
21	30" DEEP UNIT
22	SECURITY WINDOW WITH LEDGE AND BALLISTIC RATED GLASS
23	SIDE PANEL OF CASEWORK UNIT EXTENDS TO BACK WALL OR SURFACE
24	STAGGERED METAL HOOKS
25	CLOSET ROD AND SHELF WITH BRACKETS
26	PRINTER - OWNER FURNISHED/OWNER INSTALLED
27	COORDINATE BASE CABINET WITH ADA COMPLIANT DROP-IN RANGE
28	INTERIOR BUTT GLAZED GLASS PARTITION
29	SEALANT, ALL SIDES - TOOL TO 90°.
30	WOOD VENEER
31	1/2" PLYWOOD
32	WOOD BLOCKING
33	STEEL SHELVING SUPPORT TUBE. SLOTTED TO RECEIVE ADJUSTABLE HEIGHT SHELF ARM
34	STEEL SHELF ARM
35	GLASS SHELF
36	RUBBER PAD, MIN. 2 PER SHELF SUPPORT
37	PREFABRICATED DISPLAY CASE WITH 2 SHELVES
38	GROMMET ON 30"H SURFACE
39	SHELF WITH BRACKETS
40	THREE STATION SINK
41	31" DEEP COUNTERTOP
42	1/2" PLAM PANEL
43	ALIGN FACES OF DOORS TO BE FLUSH. VIF.

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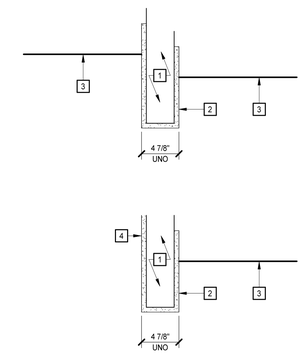
DISPLAY CASES & CASEWORK SECTIONS

A8.2

7/1/2022 11:18:12 AM

FIRST FLOOR PLAN - PART A

2 / A5.1.1 A9.1.1 — 1/8" = 1'-0"



BULKHEAD DETAILS

NO SCALE

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 8'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	SUSPENDED PIPE GRID - 1 1/2" NOM SCH 40 PIPE @ 4'-0" OC. ANCHOR TO STRUCTURE ABOVE. MOUNT 8'-0" AFF.
6	CURTAIN TRACK SYSTEM ATTACHED TO SUSPENDED PIPE GRID
8	WENGER 4'X4' CONVEX LAY IN CEILING DIFFUSER
9	PREFAB ALUMINUM CANOPY SYSTEM
10	PREFAB ALUMINUM POST MOUNTED CANOPY SYSTEM. REFER TO SITE PLAN FOR DETAILS.
11	CENTER PENDANTS OVER COUNTERTOP BELOW.
12	CUBICLE CURTAIN ON OVERHEAD TRACK
13	MOTORIZED ROLLER SHADE. REFER TO A3.1.1

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

- A101 / nn'-nn" — SPACE NUMBER / CEILING HEIGHT, AFF UNO
- INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
- EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
- ACP-A — 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- ACP-B — 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID, HIGH NRC
- AP — ACCESS PANEL
- EXTERIOR WALL
- WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
- WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
- WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
- INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
- EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

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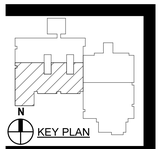

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REFLECTED CEILING PLAN - PART A

A9.1.1

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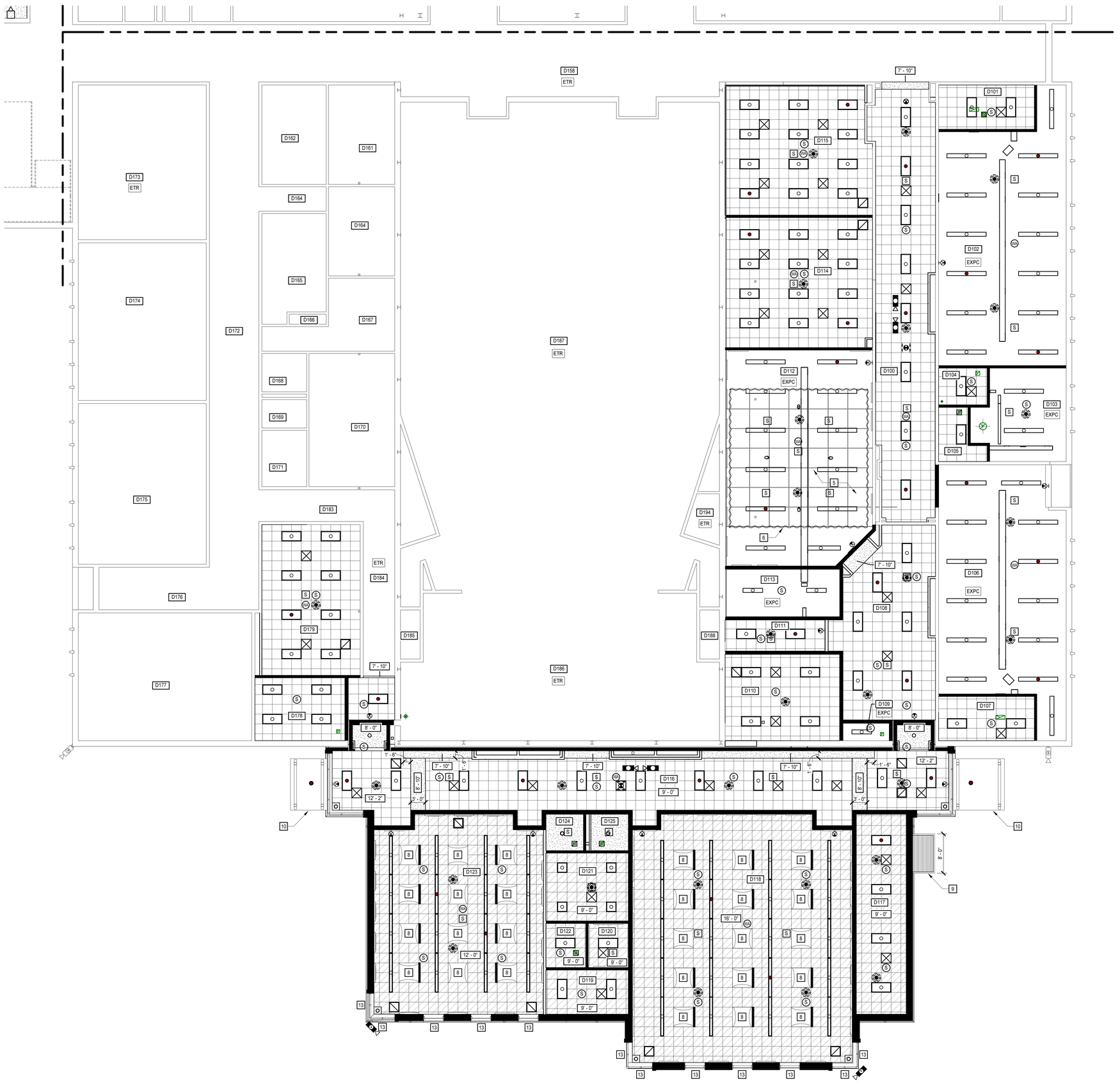

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
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8	WENGER 4'X4' CONVEX LAY IN CEILING DIFFUSER
9	PREFAB ALUMINUM CANOPY SYSTEM
10	PREFAB ALUMINUM POST MOUNTED CANOPY SYSTEM. REFER TO SITE PLAN FOR DETAILS.
11	CENTER PENDANTS OVER COUNTERTOP BELOW.
12	CUBICLE CURTAIN ON OVERHEAD TRACK
13	MOTORIZED ROLLER SHADE. REFER TO A3.1.1

1 FIRST FLOOR PLAN - PART D
A5.1.1 A9.1.2 1/8" = 1'-0"

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KEY PLAN

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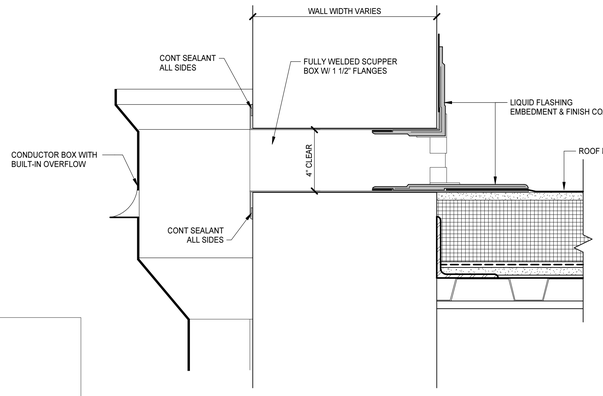
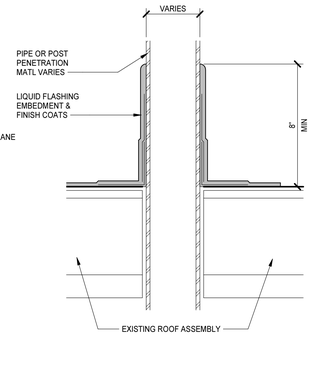
REFLECTED CEILING PLAN - PART D

A9.1.2

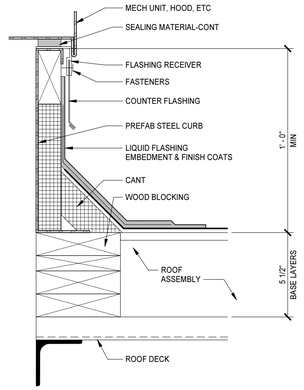
7/1/2022 12:30:17 PM



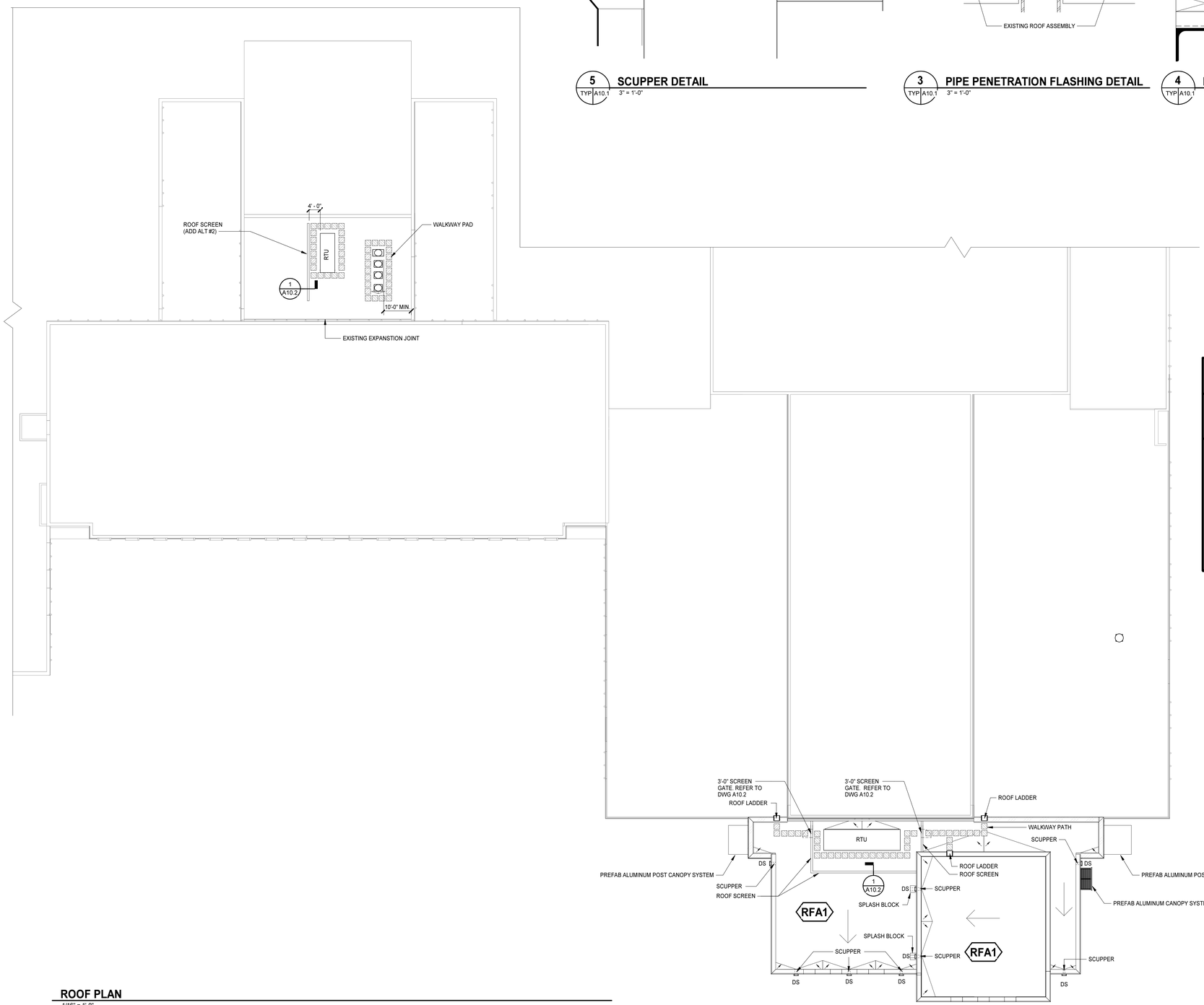
5 SCUPPER DETAIL
TYP A10.1 — 3" = 1'-0"



3 PIPE PENETRATION FLASHING DETAIL
TYP A10.1 — 3" = 1'-0"



4 MECHANICAL CURB DETAIL
TYP A10.1 — 3" = 1'-0"



ROOF PLAN
1/16" = 1'-0"

ROOF PLAN LEGEND

APPLIES TO DRAWINGS A10.1.1 - A10.1.n

REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICATED BELOW

- PRIMARY ROOF DRAIN AND SUMP (4'-0" × 4'-0", 3'-0" UNO)
- SECONDARY/EMERGENCY OVERFLOW (WHERE OCCURS)
- DS — GUTTER AND DOWNSPOUT (RECTANGULAR SHOWN, MAY BE ROUND IF SPECIFIED)
- ROOF ACCESS HATCH
- SCUPPER
- CRICKET
- WALKWAY PATH
- INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE

ROOF PLAN GENERAL NOTES

A. ALL ROOF ASSEMBLIES: RFA1, UNO.

B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF ROOFTOP EQUIPMENT AND ASSOCIATED PENETRATIONS.

C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATED PENETRATIONS WITH STRUCTURE.

D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL CONSTRUCTION CONDITIONS. ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY ROOFING MANUFACTURER.

E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING BUT NOT LIMITED TO ROOF DRAINS; VTR; CURBS; EXPANSION JOINTS; ROOF HATCHES). PROVIDE MFR'S DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFICATIONS.

F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPMENT, AND OTHER OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAINAGE SLOPE IS MAINTAINED AT ALL SUCH AREAS.

G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER SPLASH BLOCKS.

ROOF ASSEMBLIES

APPLIES TO A10.1 SERIES OF DRAWINGS
REPRESENTED BY (n)

MARK	FIRE RATED ASSEMBLY (REFER TO LS1.1 FOR LEGEND)	REMARKS	INFORMATION (ROOF ASSEMBLIES ARE SHOWN DIAGRAMMATICALLY. REFER TO SPECS FOR REQUIRED R-VALUE AND MATERIAL THICKNESS)
RFA1	⬡		ROOF MEMBRANE COVERBOARD ROOF INSULATION 5" MIN, R-30 MIN VAPOR/AIR BARRIER MEMBRANE SUBSTRATE BOARD DECK SURFACE

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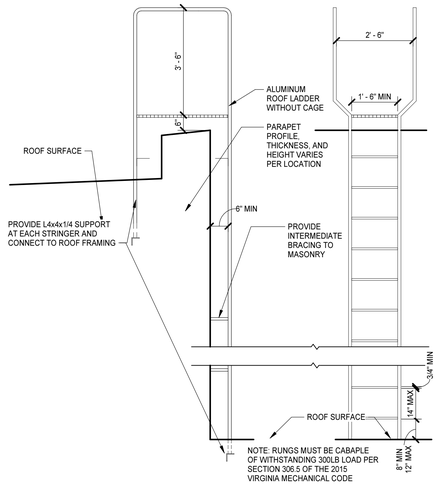
ROOF PLAN

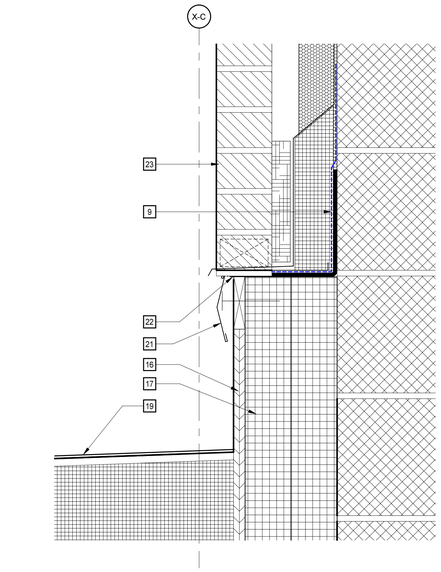
A10.1

7/1/2022 12:42:39 PM

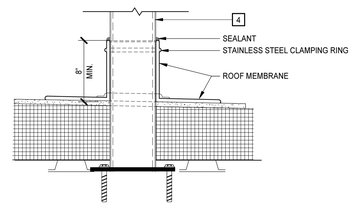


5 A10.2 ROOF ACCESS LADDER
1/2" = 1'-0"

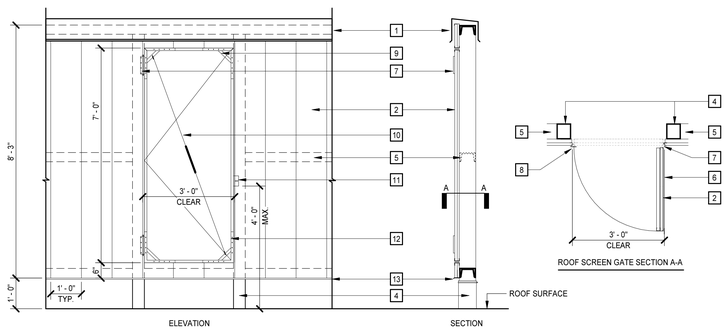
APPLIES TO DRAWINGS A10.2	
1	PRE-FINISHED METAL COPING
2	METAL WALL PANEL
4	STEEL POST
5	STEEL CHANNEL
6	ROOF SCREEN GATE
7	ROOF SCREEN HINGE
8	GALVANIZED 2 1/4" X 1/8" STOP WITH GALVANIZED LATCH
9	METAL GUSSET
10	GUY WIRE AND TURNBUCKLE
11	LATCH ASSEMBLY
12	CORNER BRACE
13	SHELF DRIP TERMINATION



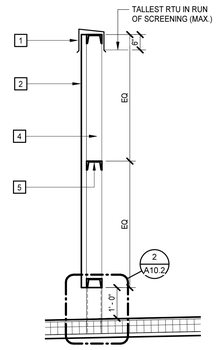
4 A5.1.2 A10.2 ROOF DETAIL
3" = 1'-0"



2 A10.2 A10.2 ROOF SCREEN POST BASE
1 1/2" = 1'-0"



3 A10.2 ROOF SCREEN GATE
1/2" = 1'-0"



1 A10.1 A10.2 SECTION - ROOF EQUIPMENT SCREEN
1/2" = 1'-0"

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ROOF PLAN DETAILS

A10.2

7/1/2022 11:18:20 AM

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL, ARCHITECT
AVG	AVERAGE
BLDG	BUILDING
BM	BEAM
BMC	BUILDING MOUNTED CANOPIES
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CFSF	COLD FORMED STEEL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISHED
FLR	FLOOR
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FRMG	FRAMING
FRT	FIRE RETARDANT TREATED
FT	FOOT
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GRD	GRADE
HD	HEADED
HK	HOOK
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JS	JOIST SUBSTITUTE
JST	JOIST
JT	JOINT
K	KIP
LBS	POUNDS
LF	LINEAR FEET (FOOT)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	METER(S)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBMA	METAL BUILDING MANUFACTURER'S ASSOC
MBS	METAL BUILDING SYSTEM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MM	MILLIMETER(S)
NOM	NOMINAL
NS	NON SHRINK
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP	OPPOSITE
PC CONC	PRECAST CONCRETE
PFBC	PRE-FABRICATED BUILDING COLUMN
PLF	POUNDS PER LINEAR FOOT
POLY	POLYETHYLENE
PPT	PRESSURE PRESERVATIVE TREATED
PSF	POUNDS PER SQUARE FOOT
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING, REINFORCED
REQ'D	REQUIRED
SIM	SIMILAR
SL	SLOPE
SOG	SLAB ON GRADE
SPA	SPACES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRY(RICAL)
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TF	TRANSFER FORCE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
VR	VAPOR RETARDER
WP	WORK POINT
WWF	WELDED WIRE FABRIC

PLAN LEGEND

℄	CENTERLINE
JBE (+X'-X")	JOIST BEARING ELEVATION
BP1, BP2 ...	BEAM BEARING PLATE
BP-A, BP-B ...	COLUMN BASE PLATE
H1, H2 ...	WOOD HEADER
J1, J2 ...	WOOD JOIST
T-1, T-2 ...	TRUSS
WP1, WP2 ...	WOOD POST
P-1, P-2 ...	CONCRETE PIER
JS	JOIST SUBSTITUTE
KCS	CONSTANT SHEAR JOIST
SP	SPECIAL JOIST
	WALL FOOTING STEP
-X'-X"	TOP OF FOOTING ELEVATION
WP	WORK POINT
(X'-X")	TOP OF SLAB ELEVATION
L1, L2 ...	LINTEL
X.X	COLUMN FOOTING
(+X'-X")	TOP OF STEEL BEAM ELEVATION
(J)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE IN SAME PLANE AS TOP OF JOIST
(SL)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE SLOPED
WFX.X	WALL FOOTING
	THICKENED SLAB
*	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
	STEEL BEAM MOMENT CONNECTION
(EX)	EXISTING
TF	TRANSFER FORCE
#5@48"	CMU WALL REINFORCING SIZE AND SPACING
	CHANGE IN SLAB ELEVATION
TCX	TOP CHORD EXTENSION

DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING
   RISK CATEGORY (IBC TABLE 1604.5) — III

2. FLOOR LIVE LOADS

	UNIFORM	CONCENTRATED
CLASSROOMS	50 PSF	1000 LB
LOBBIES AND FIRST FLOOR CORRIDORS	100 PSF	1000 LB
LIGHT STORAGE	125 PSF	
INFILL FLOOR	50 PSF	1000 LB

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF FLOOR LIVE LOAD HAS NOT BEEN UTILIZED.

3. ROOF LIVE LOADS

   MINIMUM ROOF LIVE LOAD — 20 PSF — 300 LB

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF MINIMUM ROOF LIVE LOAD HAS NOT BEEN UTILIZED.

4. SUPERIMPOSED DEAD LOADS

ROOF	25 PSF
PENTHOUSE, MECHANICAL AREAS	-
STORAGE, STAIRS	-

5. ROOF SNOW LOAD

GROUND SNOW LOAD (Pg)	20 PSF
IMPORTANCE FACTOR (Is)	1.1
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
FLAT ROOF SNOW LOAD (Pf = 0.7 x Ce x Ct x Is x Pg)	23.1 PSF
MINIMUM Pf FOR Pg = 20 PSF OR LESS Pf min = I x Pg	22 PSF
SLOPED ROOF SNOW LOAD (Ps = Cs x Pf)	15.4 PSF

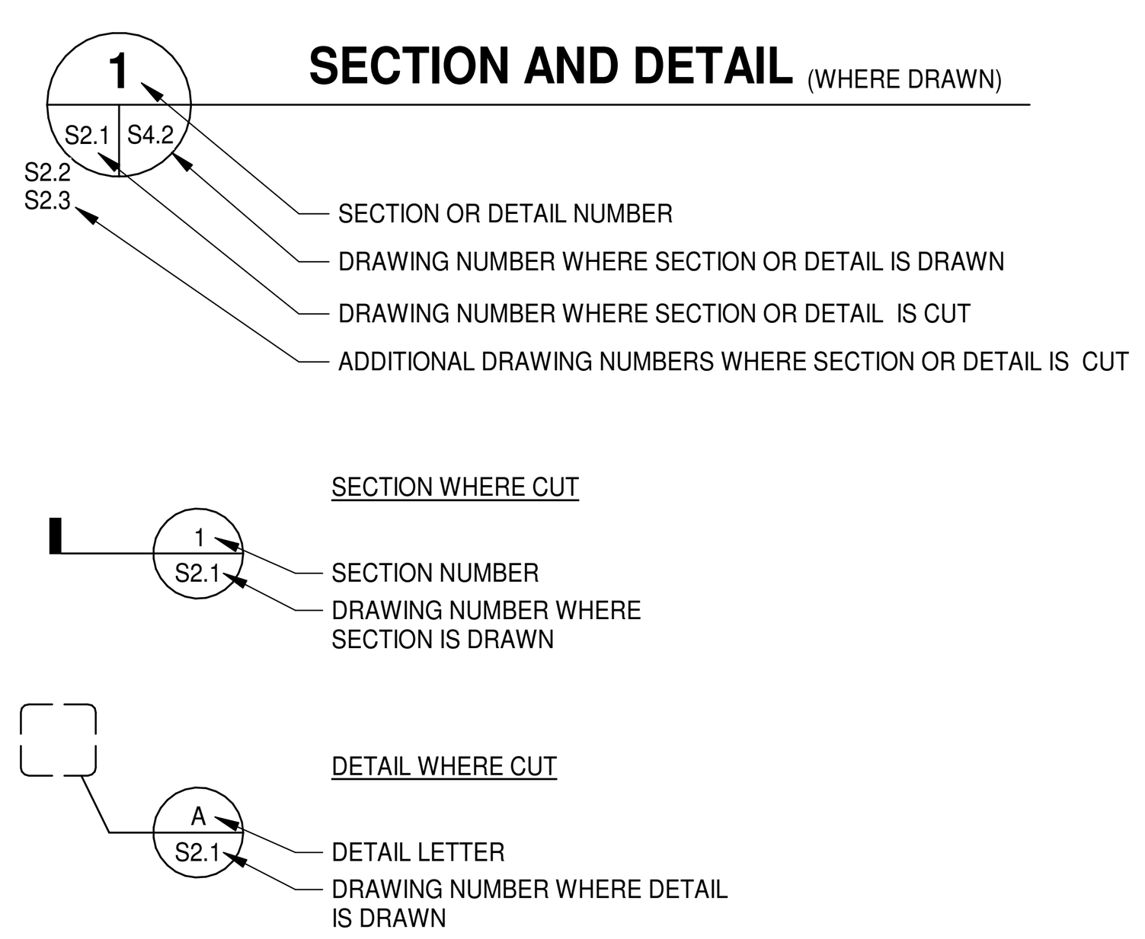
6. WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (3 SECOND GUST)	120 MPH
NOMINAL DESIGN WIND SPEED (3 SECOND GUST)	93 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18 (ENCLOSED)
COMPONENTS AND CLADDING WIND PRESSURE	PER IBC & ASCE7

7. SEISMIC DESIGN DATA

SEISMIC DESIGN CATEGORY	B
SEISMIC IMPORTANCE FACTOR (Ie)	1.25
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
(Ss)	0.179
(S1)	0.051
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
(Sds)	0.191
(Sd1)	0.082
BASIC SEISMIC FORCE RESISTING SYSTEM:	B. BUILDING FRAME SYSTEM 17. INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT (R)	4.0
SYSTEM OVERSTRENGTH FACTOR	2.5
DEFLECTION AMPLIFICATION FACTOR	4.0
SEISMIC RESPONSE COEFFICIENT (Cs)	0.060
DESIGN BASE SHEAR (V = Cs x W)	0.060W
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

LEGEND FOR SECTION AND DETAIL MARKS



STRUCTURAL MATERIALS LEGEND

- EARTH
- CAST IN PLACE CONCRETE
- CLAY BRICK
- HOLLOW CONCRETE BLOCK
- SPLIT-FACE CONCRETE BLOCK
- GROUT FILLED CONCRETE BLOCK
- PRECAST CONCRETE, CAST STONE
- POROUS FILL OR GRANULAR BASE COURSE

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC), 2018 EDITION, EFFECTIVE JULY 1, 2021.
2. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
3. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
4. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
5. SPECIAL INSPECTIONS ARE REQUIRED BY THE USBC (SECTION 1704).

   REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS.
   REFER TO SPECIFICATION SECTION 014000 FOR GENERAL INSPECTION REQUIREMENTS.

FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 3,000 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY GEOTEX ENGINEERING, PLC, DATED APRIL 4, 2022.
2. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
3. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY.
4. FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATELY, REFER TO "FOOTING SLEEVE" AND "PIPE TRENCH BACKFILL AT FOOTING" DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
5. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".
6. PROTECT FOOTINGS AND GRADE SLABS FROM FROST HEAVE UNTIL BUILDING IS PERMANENTLY ENCLOSED.
7. BRACE WALLS PLUMB WHICH ARE SUBJECTED TO UNBALANCED BACKFILL UNTIL PERMANENTLY STABILIZED BY STRUCTURE.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F'c), AS FOLLOWS:

FOOTINGS	3000 PSI
SLAB-ON-GRADE	3500 PSI
SLABS ON STEEL DECK	3500 PSI
ELEVATED SLABS AND BEAMS	4000 PSI
COLUMNS, PIERS AND WALLS	4000 PSI

3 ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED.

4. REINFORCING STEEL SHALL BE AS FOLLOWS:
   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY
   - WELDABLE REINFORCING BARS: ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
   - DEFORMED BAR ANCHORS (DBA) ASTM A1064, DEFORMED
   - WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL

5. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:

A. UNFORMED SURFACE CAST AGAINST EARTH	3 IN
B. FORMED SURFACE EXPOSED TO EARTH/WEATHER	2 IN
C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER FOR #11 AND SMALLER BAR	3/4 IN
D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER	1 1/2 IN

6. REFER TO DRAWING S3.0.1 FOR REINFORCING BAR LAP LENGTHS.

FIBER REINFORCING

1. STEEL FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB-ON-GRADE. STEEL FIBERS SHALL BE TYPE II, 1" LONG, CONTINUOUSLY DEFORMED, WITH AN ASPECT RATIO OF 43.
2. DOSAGE RATE SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. BUT NOT LESS THAN 35 POUNDS / CUBIC YARD.
3. FIBER SHALL BE ADDED AT THE CONCRETE BATCH PLANT.
4. FIBER SHALL BE INCLUDED IN THE CONCRETE MIX DESIGNS SUBMITTED FOR REVIEW.

FLOWABLE FILL

1. CONTROLLED LOW STRENGTH MATERIAL (CLSM), ALSO REFERRED TO AS FLOWABLE FILL, MAY BE SUBMITTED FOR APPROVAL AS A SUBSTITUTE FOR COMPACTED FILL AT FOUNDATION UNDERCUT LOCATIONS. THE CLSM MIXTURE SHALL BE PROPORTIONED TO PRODUCE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI MINIMUM TO 300 PSI MAXIMUM.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
   AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES AND ANGLES	ASTM A992 (FY=50 KSI)
MISCELLANEOUS SHAPES, PLATES & BARS (TO 8" THICK)	ASTM A36 (FY=36 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
SQUARE & RECTANGLE	ASTM A500, GRADE C (FY=50 KSI)
ROUND	ASTM A500 GRADE C (FY=46 KSI)
HIGH STRENGTH BOLTS (CONVENTIONAL)	ASTM F3125 GRADE A325 OR A490 (TYPE 1)
WASHERS	ASTM F436 (FLAT AND BEVELED)
HEAVY HEX NUTS	ASTM A563
TWIST OFF TENSION CONTROL BOLTS	ASTM F3125 GRADE F1852 OR F2280 (TYPE 1)
COMPRESSIBLE-WASHER DIRECT-TENSION INDICATORS	ASTM F959 (TYPE 325 OR 490)
ANCHOR RODS	ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1
WELDING ELECTRODES	E70 (LOW HYDROGEN)
HEADED SHEAR STUDS	AWS D1.1 CLAUSE 7, TYPE B (FY=51 KSI)
THREADED ROD	ASTM A36
CLEVISES	AISI C-1035, ASTM A668, CLASS A
TURNBUCKLES	AISI C-1035, ASTM A668, CLASS C

3. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, AS SIMPLE CONNECTIONS USING ALLOWABLE STRENGTH DESIGN (ASD). CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY INDICATED IN THE ALLOWABLE UNIFORM LOAD TABLES, PART 3, OF THE AISC MANUAL. CONNECTIONS FOR COMPOSITE STEEL BEAMS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ON THE PLANS.
4. BOLTED JOINTS SHALL BE "SNUG TIGHTENED", UNLESS OTHERWISE INDICATED.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
6. WHERE STRUCTURAL STEEL IS EXPOSED BELOW GRADE, PROVIDE MINIMUM 3" CONCRETE COVER OR COAT WITH BITUMINOUS MASTIC.
7. STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

STEEL JOISTS

1. ALL STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
2. STEEL JOISTS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN (ASD), AND SHALL BE MANUFACTURED WITH STEEL HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
3. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS, OSHA REQUIREMENTS, AND AS REQUIRED BY JOIST DESIGN.
4. ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UPLIFT OF 20 PSF.
5. SPECIAL JOISTS, INDICATED "SP" ON FRAMING PLANS, SHALL BE DESIGNED FOR CRITERIA INDICATED.
6. DETAILING AND ERECTION OF OPEN WEB STEEL JOISTS SHALL COMPLY WITH OSHA REQUIREMENTS.
7. STEEL ROOF JOISTS SHALL BE PROVIDED WITH NO CAMBER.
8. DESIGN ALL JOISTS (K, KCS, LH) FOR A 500 LB CONCENTRATED LOAD (SERVICE LOAD) AT ANY ONE PANEL POINT ALONG THE JOIST, UNLESS NOTED OTHERWISE. THIS IS REFERRED TO AS AN "ADD-LOAD."
9. K-SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 200 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND CHECK."
10. KCS AND LH SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 500 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND-CHECK".
11. REFER TO "TYPICAL CONCENTRATED LOAD ON STEEL JOIST" DETAIL FOR REQUIREMENTS REGARDING PIPE HANGERS AND OTHER EQUIPMENT LOADS.
12. STEEL JOISTS EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE PAINTED WITH A ZINC RICH TNEMEC PAINT THAT MEETS THE REQUIREMENTS OF ASTM D 520 TYPE III.
13. COORDINATE SUPPORT OF SPRINKLER PIPING, INCLUDING MAINS, WITH JOIST MANUFACTURER. SPRINKLER MANUFACTURER SHALL OBTAIN A LETTER FROM THE JOIST MANUFACTURER VERIFYING THAT THE PIPE HANGER LOCATION AND LOADS HAVE BEEN PROVIDED FOR THEIR USE. THIS LETTER SHALL BE SUBMITTED TO THE ARCHITECT WITH THE SPRINKLER SUBMITTAL PACKAGE. IF LOCATIONS OF THE MAINS ARE ALTERED FROM THE INFORMATION PROVIDED BY THE SPRINKLER MANUFACTURER TO THE JOIST MANUFACTURER, ADDITIONAL FRAMING SHALL BE ADDED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPING LOADS AT NO COST TO THE OWNER.

STEEL DECK

1. ALL STEEL DECK WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS", AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
2. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".
3. PERMANENT LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK UNLESS APPROVED BY ENGINEER OF RECORD.
4. STEEL DECK UP TO 2" DEEP SHALL BE INSTALLED WITH A MINIMUM OF 3 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. STEEL DECK 3" DEEP OR GREATER SHALL BE INSTALLED WITH A MINIMUM OF 2 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. ANY LOCATIONS NOT MEETING THESE CONDITIONS SHALL BE SPECIFICALLY IDENTIFIED ON THE STEEL DECK SHOP DRAWINGS.
5. REFER TO "STEEL DECK SCHEDULE" FOR DECK TYPES AND FASTENING REQUIREMENTS.

CONCRETE MASONRY (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 602 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 2000 PSI, DETERMINED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD PER TMS 602, UNLESS NOTED OTHERWISE.
3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE.
4. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE S, UNLESS NOTED OTHERWISE.
5. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
6. PLACE GROUT IN ACCORDANCE WITH TMS 602. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT. HIGH LIFT GROUTING IS PROHIBITED.
7. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.
8. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

#4 BAR AND SMALLER	26 INCHES
#5 BAR	34 INCHES
#6 BAR	38 INCHES
#7 BAR	45 INCHES

9. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT.
10. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
11. DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.
12. NO SWITCHES OR BOXES WITHIN 20 INCHES OF A DOOR JAMB.
13. REINFORCING AND CONDUIT SHALL BE SEPARATED A MINIMUM OF 1 INCH WHEN THEY INADVERTENTLY OCCUR WITHIN THE SAME CMU CELL.
14. MASONRY WALLS OF HOLLOW UNITS WHICH CHANGE THICKNESS SHALL HAVE A CONTINUOUS GROUT FILLED COURSE BELOW THE TRANSITION. IF WALL THICKNESS IS GREATER ABOVE THE TRANSITION, THE COURSE ABOVE THE TRANSITION SHALL ALSO BE GROUTED SOLID.
15. FILL CMU CELLS WITH GROUT FROM TOP OF FOOTING TO TOP OF SLAB-ON-GRADE ELEVATION.
16. MASONRY WALL CONTROL JOINTS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS AND DETAILS. COORDINATE JOINT LOCATIONS TO AVOID BEAM BEARING LOCATIONS AND SHEAR WALLS. DO NOT BREAK BOND BEAM REINFORCEMENT AT CONTROL JOINTS.

COLD FORMED STEEL FRAMING

1. ALL STRUCTURAL COLD FORMED STEEL FRAMING (CFSF) SHALL COMPLY WITH AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. CFSF-S (STRUCTURAL): INCLUDES ALL EXTERIOR WALLS, SOFFITS, BULKHEADS, TRUSSES, RAFTERS, JOISTS AND CEILING JOISTS (IF SELF-SUPPORTING). PROVIDE ERECTION DRAWINGS AND DETAIL DRAWINGS. PROVIDE ENGINEERING DESIGN OF ALL PRE-FABRICATED CFSF-S TRUSSES AND PANELIZED WALL ASSEMBLIES, AND SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA, FOR THOSE SYSTEMS. REFER TO SECTION 054000 FOR ADDITIONAL INFORMATION.
3. CFSF-NS (NON-STRUCTURAL): INCLUDES INTERIOR NON-LOAD BEARING STUD WALLS AND SUSPENDED CEILING FRAMING SYSTEM. REFER TO SECTION 092216 FOR ADDITIONAL INFORMATION.
4. ALL FRAMING MEMBERS, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEET HAVING A GALVANIZED COATING IN ACCORDANCE WITH ASTM A653.
5. ALL C - SHAPED FRAMING MEMBERS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8 INCHES.
6. MINIMUM YIELD STRENGTH SHALL BE AS FOLLOWS:

FY = 33,000 PSI	33 MILS AND 43 MILS
FY = 50,000 PSI	54 MILS, 68 MILS AND 97 MILS

POST INSTALLED ANCHORS & DOWELS

1. INSTALL ALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED PROCEDURES AT NOT LESS THAN THE MINIMUM EDGE DISTANCES INDICATED IN THE MANUFACTURER'S LITERATURE. SUBMIT MANUFACTURER'S PRODUCT DATA FOR REVIEW BY THE ARCHITECT.
2. ALL ANCHORS (INCLUDING THREADED RODS, NUTS, WASHERS) SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, FOR SERVICE CONDITION SC-1.
3. SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:

   SCREW-BOLT +, BY DEWALT
   TITEN HD, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   KWIK HUS-EZ, BY HILTI

   HOLE DIAMETER THROUGH STEEL MEMBER SHALL BE 1/8 INCH LARGER THAN NOMINAL DIAMETER OF ANCHOR.

   MINIMUM SCREW ANCHOR EMBEDMENTS SHALL BE AS FOLLOWS, UNO:
   4" EMBEDMENT FOR 1/2" DIAMETER ANCHOR
   5" EMBEDMENT FOR 5/8" DIAMETER ANCHOR
   6" EMBEDMENT FOR 3/4" DIAMETER ANCHOR
4. ADHESIVE ANCHORS SHALL CONSIST OF THREADED ROD (ASTM A36), HEX NUT (ASTM A563), WASHER (ASTM F436), AND ADHESIVE (TYPE PER NOTES A, B OR C BELOW).

   ADHESIVE DOWELS SHALL CONSIST OF DEFORMED REINFORCING BAR (ASTM A615, GRADE 60) AND ADHESIVE (TYPE PER NOTE A BELOW)

   A. "ADHESIVE ANCHORS" OR "ADHESIVE DOWELS" INSTALLED IN SOLID CONCRETE SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:

   HYBRID (FAST CURE)

   AC200+ BY DEWALT
   ACRYLIC-TIE XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   HIT-HY 200, BY HILTI

   EPOXY (SLOW CURE)

   PURE 110+, BY DEWALT
   SET-XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   HIT RE 500-V3 EPOXY ADHESIVE, BY HILTI

   B. "ADHESIVE ANCHORS" INSTALLED IN SOLID GROUT FILLED CMU SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:

   HIT-HY 270, BY HILTI
   AC 100+ GOLD, BY DEWALT
   ACRYLIC-TIE, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS

   C. "SCREEN TUBE ANCHORS" INSTALLED IN HOLLOW CMU SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:

   HIT-HY 270, BY HILTI
   AC 100+ GOLD, BY DEWALT
   ACRYLIC-TIE, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS

TEMPORARY SHORING

1. PROVIDE TEMPORARY SHORING AND BRACING TO MAINTAIN THE EXISTING STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT CONSTRUCTION AND LATERAL BRACING IS IN PLACE.
2. THE TEMPORARY SHORING DIAGRAMS ARE CONCEPTUAL ONLY. DESIGN OF TEMPORARY SHORING SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND SHORING DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.
3. CAREFULLY EVALUATE THE SITUATION WHICH EXISTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DETECTED WHICH MAY AFFECT THE STABILITY OF THE EXISTING STRUCTURE OR THE SHORING.
4. MONITOR THE PERFORMANCE OF THE TEMPORARY SHORING AT ALL TIMES DURING THIS WORK AND HAVE ADDITIONAL SHORING READILY AVAILABLE ON SITE IN THE EVENT OF DEFLECTION OR OTHER MOVEMENT OF THE SHORING.
5. REFER TO THE PHASING PLAN ON DRAWING A1.0.2.

RENOVATION

1. EXISTING CONSTRUCTION INDICATED ON THE STRUCTURAL DRAWINGS IS BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS AND ON LIMITED OBSERVATIONS OF EXISTING CONDITIONS. THIS INFORMATION, INCLUDING STRUCTURAL COMPONENT TYPE, SIZE AND ORIENTATION HAS NOT BEEN CONFIRMED IN ALL CASES, AND MAY NOT MATCH "AS-BUILT" EXISTING CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS RELATING TO THE NEW WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ELEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. EXISTING CONSTRUCTION IS INDICATED USING A LIGHTER LINE WEIGHT THAN NEW CONSTRUCTION IN PLANS AND SECTIONS.

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

GENERAL NOTES AND LEGENDS

S0.0.1

6/30/2022 2:23:29 PM

SCHEDULE OF SPECIAL INSPECTIONS - 2018 IBC

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Inspection Agents					
1. Special Inspector of Record (SIOR):					
2. Structural Engineer of Record (SEOR):					
3. Steel Fabricator's Quality Control Inspector:					
Abbreviations Legend					
O - Observe - The inspector shall observe these items on a random basis.					
P - Perform - These tasks shall be performed for each welded or bolted joint.					
1704.2.4 Report Requirement					
Special inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered Design Professional in responsible charge.	●		Y	IBC 1704.2.4	1
1704.2.5 Inspection of Fabricated Items					
Work done in fabricator shop requires inspection unless the fabricator is registered and approved in accordance with 1704.2.5.1. Where fabricator is approved, **provide fabricator certification document.**		●	Y	1704.2.5	1, 3
At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.		●	Y	1704.2.5.1	1
1704.4 Contractor Responsibility					
Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.		●	N	1704.4	
1704.5 Submittals to the Building Official					
Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approval fabricator in accordance with Section 1704.2.5.1	●		Y	1704.5 1704.2.5.1	2, 3
Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	●		N	1704.5 1705.13.2	2, 3
Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	●		N	1704.5 1705.13.3	2, 3
Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	●		N	1704.5, 1908.5	1, 2
Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	●		Y	1704.5, 2207.5	2, 3
Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.5.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	●		N	1704.5, AWS D1.4 26.6.4 of ACI 318 ASTM A 706	1, 2
Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	●		N	1704.5 20.2.2.5 of ACI 318 ASTM A 615	2, 3
1704.6 Structural Observation					
The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.		●	N	1704.6.1	
Seismic		●	N	1704.6.2	2
Wind		●	N	1704.6.3	2
1705.2 Steel Construction					
Structural steel inspections and non-destructive testing shall be in accordance with the quality assurance inspection requirements of AISC 360-16				1705.2.1 AISC 360-16	
Prior to Welding (AISC 360-16 Table N5.4-1)					
QC inspection tasks shall be performed by fabricator's or erectors QCI, as applicable, in accordance with sections N5.4, N5.6, and N5.7. QA inspection tasks shall be performed by the QAI, in accordance with section N5.4, N5.6, and N5.7.				AISC 360-16 Table N5.4-1	QC / QA
Welder qualification records and continuity records.					P / O
Welding procedure specifications (WPSs) available					P / P
Manufacturer certifications for welding consumables					P / P
Material identification (type/grade)					O / O
Welder identification system					O / O
Fit-up of groove welds (including joint geometry)					O / O
a. Joint preparation					
b. Dimensions (Alignment, root open, root face, bevel)					
c. Cleanliness (Condition of steel surfaces)					
d. Tacking (tack weld quality and location)					
e. Backing type and fit (if applicable)					
Configuration and finish of access holes					O / O
Fit-up of fillet welds					O / O
a. Dimensions (Alignment, root open, root face, bevel)					
b. Cleanliness (Condition of steel surfaces)					
c. Tacking (tack weld quality and location)					
d. Check welding equipment					O / --
During Welding (AISC 360-16 Table N5.4-2)				AISC 360-16 Table N5.4-2	
Control and handling of welding consumables					O / O
a. Packaging					
b. Exposure control					
No welding over cracked tack welds					O / O
Environmental conditions					O / O
a. Wind speed within limits					
b. Precipitation and temperature					
WPS followed					O / O
a. Settings on welding equipment					
b. Travel speed					
c. Selected welding materials					
d. Shielding gas type/flow rate					
e. Preheat applied					
f. Interpass temperature maintained (min/max)					
g. Proper position (F, V, H, OH)					
Welding techniques					O / O
a. Interpass and final cleaning					
b. Each pass with profile limitations					
c. Each pass meets quality requirements					
After Welding (AISC 360-16 Table N5.4-3)				AISC 360-16 Table N5.4-3	
Welds cleaned					O / O
Size, length, and location of welds					P / P
Welds meet visual acceptance criteria					P / P
a. Crack prohibition					
b. Weld/base-metal fusion					
c. Crater cross section					
d. Weld profiles					
e. Weld size					
f. Undercut					
g. Porosity					
Arc strikes					P / P
k-area					P / P
Weld access holes in rolled heavy shapes and built-up heavy shapes					P / P
Backing removed and weld tabs removed (if required)					P / P
Repair activities					P / P
Document acceptance or rejection of welded joint or member					P / P
No prohibited welds have been added without the approval of the EOR					O / O

Inspections & Testing	Reference Standard or Compliance Document	Agent	
Nondestructive Testing (AISC 360-16 Section N5.5)	AISC 360-16 Section N5.5	QC	QA
Risk Category II Structures - Perform Ultrasonic Testing on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading, in materials 5/16 inches thick or greater.		P	P
Risk Category III or IV Structures - Perform Ultrasonic Testing on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints subject to transversely applied tension loading, in materials 5/16 inches thick or greater.		P	P
Welded Joints Subject to Fatigue			
Prior to Welding (AISC 341-16 Table J6.1)			
Visual inspection tasks prior to welding			
Material identification (Type/Grade)		O	O
Welder identification system		O	O
Fit-up of Groove Welds (including joint geometry) - Joint preparation - Dimensions (alignment, root opening, root face, bevel) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location) - Backing type and fit (if applicable)		P/O**	O
Configuration and finish of access holes		O	O
Fit-up of Fillet Welds - Dimensions (alignment, gaps at root) - Cleanliness (condition of steel surfaces) - Tacking (tack weld quality and location)		P/O**	O
**Following performance of this inspection task for ten welds to be made by a given welder, with the welder demonstrating understanding of requirements and possession of skills and tools to verify these items, the Perform designation of this task shall be reduced to Observe, and the welder shall perform this task. Should the inspector determine that the welder has discontinued performance of this task, the task shall be returned to Perform until such time as the Inspector has re-established adequate assurance that the welder will perform the inspection tasks listed.			
During Welding (AISC 341-16 Table J6.2)			
Visual inspection tasks during welding			
WPS followed - Settings on welding equipment - Travel speed - Selected welding materials - Shielding gas type/flow rate - Preheat applied - Interpass temperature maintained (min/max) - Proper position (F, V, H, OH) - Intermix of filler metals avoided unless approved		O	O
Use of qualified welders		O	O
Control and handling of welding consumables - Packaging - Exposure control		O	O
Environmental conditions - Wind speed within limits - Precipitation and temperature		O	O
Welding techniques - Interpass and final cleaning - Each pass within profile limitations - Each pass meets quality requirements		O	O
No welding over cracked tacks		O	O
After Welding (AISC 341-16 Table J6.3)			
Visual inspection tasks after welding			
Welds cleaned		O	O
Size, length and location of welds		P	P
Welds meet visual acceptance criteria - Crack prohibition - Weld/base-metal fusion - Crater cross section - Weld profiles and size - Undercut - Porosity		P	P
*k-area		P	P
Placement of reinforcing or contouring fillet welds (if required)		P	P
Backing removed, weld tabs removed and finished, and fillet welds added (if required)		P	P
Repair activities		P	P

* When welding doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect web k-area for cracks within 3 in. (75 mm) of the weld. The visual inspection shall be performed no sooner than 48 hours following completion of the welding

Prior to Bolting (AISC 360-16 Table N5.6-1)	AISC 360-16 Section N5.6-1		
Manufacturer's certifications available for fastener materials		O	O
Fasteners marked in accordance with ASTM requirements		O	O
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to excluded for shear plane)		O	O
Correct bolting pattern selected for joint detail		O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used (Not required for snug tight bolts)		P	O
Protected storage provided for bolts, nuts, washers and other fastener components		O	O
During Bolting (AISC 360-16 Table N5.6-2)	AISC 360-16 Section N5.6-2		
These inspections are not required for snug-tight joints. These inspections are not required for pretensioned joints and slip-critical joints, when the installer is using the turn-of-nut method with matchmarking techniques, the direct-tension-indicator method, or the twist-off-type tension control bolt method.			
Fastener assemblies, placed in all holes and washers and nuts are positioned as required		O	O
Joint brought to the snug-tight condition prior to pretensioning operation		O	O
Fastener component not turned by the wrench prevented from rotating		O	O
Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges		O	O
After Bolting (AISC 360-16 Table N5.6-3)	AISC 360-16 Table N5.6-3		
Document acceptance or rejection of bolted connections		P	P
Other Inspection Tasks (AISC 360-16 Section N5.8)	AISC 360-16 Section N5.6-7		
Verify compliance of fabricated steel with the details shown on the shop drawings		P	--
Verify compliance of the erected steel frame with the field installed details shown on the erection drawings including braces, stiffeners, member location and joint details		P	--
Anchor rods and other embedment supporting structural steel			
a. Verify the diameter, grade, type and length of the anchor rod or embedded item		P	--
b. Verify the extent or depth of embedment into the concrete		P	--
RBS requirements, if applicable (ref: AISC 341-16)			
a. Contour and finish		P	--
b. Dimensional tolerances		P	--
Protected zone - no holes and unapproved attachments made by fabricator or erector, as applicable (ref: AISC 341-16)		P	--
H-Piles - Protected zone - no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-16)		P	--

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.2.2 Cold-Formed Steel Deck					
Special inspections in accordance with QA/QC-2011 Standard for Quality control and Quality assurance for installation of steel deck		●	Y	1705.2.2	2
1705.2.3 Open-Web Steel Joists and Joist Girders					
Installation of open-web steel joists and joist girders		●	Y	Table 1705.2.3	1
a. End connections - welding or bolted					
b. Bridging - horizontal or diagonal					
i. Standard bridging					
ii. Bridging that differs from the SJI specifications listed in section 2207.1					
Inspection of Composite Structures Prior to Concrete Placement (AISC 341-16 Table J9-1)					
Prior to Concrete Placement (AISC 360-16 Table N6-1)					
Placement and installation of steel deck		●	Y	AISC 360-16 Table N6-1	1
Placement and installation of steel headed stud anchors		●	N		1
Document acceptance or rejection of stud elements		●	N		1
Prior to Concrete Placement (AISC 341-16 Table J9-1)					
Material identification of reinforcing steel (Type/Grade)		●	N	AISC 341-16 Table J9-1	1
Determination of carbon equivalent for reinforcing steel other than ASTM A706		●	N		1
Proper reinforcing steel size, spacing and orientation		●	N		1
Reinforcing steel has not been rebent in the field		●	N		1
Reinforcing steel has been tied and supported as required		●	N		1
Required reinforcing steel clearances have been provided		●	N		1
Composite member has required size		●	N		1
During Concrete Placement (AISC 341-16 Table J9-2)					
Concrete: Material identification (mix design, compressive strength, maximum size aggregate size, maximum slump)		●	N	AISC 341-16 Table J9-2	1
Limits on water added at the truck or pump		●	N		1
Proper placement techniques to limit segregation		●	N		1
After Concrete Placement (AISC 341-16 Table J9-3)					
Achievement of minimum specified concrete compressive strength at specified age		●	N	AISC 341-16 Table J9-3	1
1705.3 Concrete Construction					
Inspect reinforcing steel, including prestressing tendons, and verify placement.		●	Y	Table 1705.3	1
Inspect reinforcing bar welding:					
Verify weldability of reinforcing bars other than ASTM A706		●	N	AWS D1.4	
Inspect single pass fillet welds, maximum 5/16"; and		●	N	ACI 318: 26.6.4	
Inspect all welds	●		N		
Inspect anchors cast in concrete		●	Y		1
Inspect anchors post-installed in hardened concrete members:	●		Y		1
Adhesive anchors installed in horizontally or upwardly inclined orientation to resist sustained tension loads.	●		Y	ACI 318: 17.8.2.4	
Mechanical anchors and adhesive anchors not defined above	●		Y	ACI 318: 17.8.2	
Verify use of approved design mix		●	Y		1
Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	●		Y		1
Inspect concrete and shotcrete placement for proper application techniques	●		Y		1
Inspect for maintenance of specified curing temperature and techniques		●	Y		1
Inspect prestressed concrete for:					1
a. Application of prestressing forces	●		N		
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system	●		N		
Inspect erection of precast structural members		●	N		1
Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		●	N		1
Inspect formwork for shape, location and dimensions of the concrete member being formed		●	Y		1

Inspections & Testing	Frequency		Reference Standard or Compliance Document		Agent
	Level 2	Level 3	TMS 402	TMS 602	
1705.4 Masonry Construction					
As masonry construction begins; verify that the following are in compliance:					
Portions of site-prepared mortar.	P	P		Art. 2.1, 2.6 A, & 2.6 C	
Grade, type and size of reinforcement, connectors, anchor bolts and anchorages.	P	P		Art. 3.4 & 3.6 A	
Sample panel construction	P	C		Art. 1.6 D	
Prior to grouting, verify that the following are in compliance:					
Grout space	P	C		Art. 3.2 D & 3.2 F	
Placement of reinforcement, connectors, and anchor bolts.	P	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4	
Portions of site prepared grout	P	P		Art. 2.6 B & 2.4 G.1.b	
Verify compliance with the following during construction:					
Materials and procedures with the approved submittals.	P	P		Art. 1.5	
Placement of masonry units and mortar joint construction.	P	P		Art. 3.3 B	
Size and location of structural members.	P	P		Art. 3.3 F	
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	P	C	Sec. 1.2.1(e), 6.2.1, & 6.3.1		
Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	P	P		Art. 1.8 C & 1.8 D	
Observe preparation of grout specimens, mortar specimens, and/or prisms.	P	C		Art. 1.4 B.2a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4	

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.5 Wood Construction					
Inspect prefabricated wood structural elements in accordance with Section 1704.2.5		●	N	1705.5	1
High load diaphragms:		●	N	1705.11 High wind and Seismic areas	1
a. Verify sheathing grade and thickness					
b. Verify nominal size of framing members and adjoining panel edges					
c. Verify nail or staple diameter and length					
d. Verify number of fastener lines					
e. Verify spacing between fasteners in each line and at panel edges					
Shearwalls:		●	N		1
a. Verify sheathing grade and thickness					
b. Verify nominal size of framing members and adjoining panel edges					
c. Verify nail or staple diameter and length					
d. Verify number of fastener lines					
e. Verify spacing between fasteners in each line and at panel edges					
f. Location and size of holdowns					
Verify nailing, bolting, anchoring and fastening of:		●	N		1
a. Drag struts and collectors					
b. Braces					
c. Hold-downs					
Metal-plate-connected wood trusses:		●	N		
a. Verify temporary installation restraint/bracing installed in accordance with approved shop drawings					1
b. Verify permanent individual truss member restraining/bracing installed in accordance with the approved shop drawings					1
Inspect load bearing walls as follows, as applicable:		●	N		
a. Wall stud species and spacing as per project specifications.					
b. Placement of cripple stud blocking inside of floor system.					
c. Stud drilling and penetrations (not to exceed one third of the stud dimension unless otherwise specified by the structural engineer of record).					
d. Sill plate species as per project specifications.					
Inspect wood columns as follows, as applicable:		●	N		
a. Types and placement of wood columns as per construction documents.					
b. Column connection details to beams and trusses.					
c. Cripple stud project requirements within the floor system for load path continuity.					
d. Column base assemblies.					
Inspect shear wall systems as follows, as applicable:		●	N		
a. Wall stud, size and spacing.					
b. Anchor bolt size, location on sill plates and strappings through floor system.					
c. Placement of diagonal bracing and component shear trusses.					
d. Placement and size of hold-down anchors and tension rods as per contract documents.					
e. Shear wall sheathing grade and thickness, fastener types and spacing.					
f. Wall blockings.					
1705.5 Wood Construction - continued					
Inspect roof framing as follows, as applicable:		●	N		
a. Placement of hurricane hangers.					
b. Placement of parapet hold-down anchors.					
c. Placement of permanent roof bracings.					
d. Placement of gable truss bracings.					
Inspect steel framing as follows, as applicable:		●	N		
a. Wood to steel connections (number, size and spacing of bolts and hanger types).					
b. Bracing of steel beams and columns (placement of sill plates, anchor bolts, and diagonal bracing to top of beams and blocking placement at steel beam webs).					
Inspect floor trusses as follows, as applicable:		●	N		
a. Placement of 2x6 band members at end of trusses.					
b. Truss bearing width in butting and diagonal situations.					
1705.6 Soils					
Verify materials below shallow foundation are adequate to achieve the required bearing capacity		●	Y	Table 1705.6	1
Verify excavation are extended to proper depth and have reached proper material		●	Y		1
Perform classification and testing of compacted fill materials		●	Y		1
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	●		Y		1
Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly		●	Y		1
1705.7 Driven Deep Foundation Elements					
Verify materials, sizes and lengths	●		N	Table 1705.7	1
Determine capacities of test elements and conduct additional load tests when required. Refer to project specifications	●		N		1
Maintain complete and accurate records for each element	●		N		1
Observe and verify drilling operations	●		N		1
a. Verify element locations and plumbness					
b. Verify type and size of hammer					
c. Record number of blows per foot of penetration					
d. Determine required penetration to achieve specified capacity					
e. Record pile tip and butt elevations					
f. Document any damage to any foundation element					
For steel elements, perform additional inspection in accordance with 1705.2 and AISC 341-16, Table J10-1			N	AISC 341-16 Table J10-1	1
For concrete elements and concrete-filled elements, perform additional inspections in accordance with 1705.3			N		1
For specialty elements, perform additional inspections as required in the project specifications.			N		1
1705.8 Cast-In-Place Deep Foundations					
Maintain complete and accurate records for each element	●		N	Table 1705.8	1
Observe and verify drilling operations	●		N		1
a. Verify element locations and plumbness					
b. Verify element diameter					
c. Verify bell diameter (if applicable)					
d. Verify element lengths					
e. Verify embedment depth into bedrock (if applicable)					
f. Verify adequate end-bearing strata capacity					
g. Record concrete or grout volumes					
For concrete elements, perform additional inspections in accordance with 1705.3			N		1
1705.9 Helical Piles					
Maintain complete and accurate records for each element		●	N	Table 1705.9	1
Observe and verify drilling operations	●		N		1
a. Verify installation equipment used					
b. Verify pile locations					
c. Verify pile dimensions					
d. Verify tip elevations					
e. Verify final depth					
f. Verify final installation torque					
g. Other data as required by the project specifications					

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.11 Special Inspections for Wind Resistance					
Provide inspections when required by 1705.11		●	N		1, 2
a. Structural wood				1705.11.1	
b. CFS light frame construction				1705.11.2	
c. Wind resisting components				1705.11.3	
1705.12 Special Inspections for Seismic Resistance					
Maintain complete and accurate records for each element		●	N		1, 2
a. Structural steel				1705.12.1	
b. Structural wood				1705.12.2	
c. CFS light frame construction (CFSF)				1705.12.3	
d. Designated seismic systems				1705.12.4	
e. Architectural components				1705.12.5	
f. Plumbing, Mechanical, Electrical components				1705.12.6	
g. Storage racks				1705.12.7	
1705.13 Testing for Seismic Resistance					
Test and qualify seismic resistance in accordance with 1705.13 and the project specifications		●	N		1, 2
1705.14 Sprayed Fire-Resistant Materials (SFRM)					
Inspect sprayed fire-resistant materials in accordance with 1705.14 and the project specifications		●	N		1
a. Condition of substrate					
b. Thickness of application					
c. Density					
d. Bond strength adhesion/cohesion					
e. Condition of finished application					
1705.15 Mastic and Intumescent Fire-Resistant Coatings					
Perform inspections in accordance with AWCI 12-B and 1705.15		●	N	AWCI 12-B	1
1705.16 Exterior Insulation and Finish Systems (EIFS)					
Perform inspections in accordance with project specifications and 1705.16		●	N		1
1705.17 Fire-resistant Penetrations and Joints (section not applicable in the State of Virginia)					
Perform inspections in accordance with project specifications and 1705.17		●	N	1705.17.1, 1705.17.2	1, 2
1705.18 Smoke Control					
Perform testing in accordance with project specifications and 1705.18.1		●	N		1

Cold-Formed Steel Construction (Refer to AISI 240-15) - All tasks within this section by Agent 1			
Table D6.5-1 Material Verification Tasks Prior to Assembly or Installation		QC	QA
A	Verify compliance of cold-formed steel structural members: - Product identification (Section A5.5)	P	P
B	Verify compliance of connectors	P	P
C	Document acceptance or rejection of cold-formed steel structural members and connectors	--	P
Table D6.5-2 Material Verification Tasks After Assembly or Installation		QC	QA
A	Verify compliance of cold-formed steel structural members: - Product identification (Section A5.5)	P	P
B	Verify compliance of connectors	P	P
C	Document acceptance or rejection of cold-formed steel structural members and connectors	--	P
Table D6.6-1 Inspection or Execution Tasks Prior to Welding		QC	QA
A	Welding procedure specifications available	O	O
B	Manufacturer certifications for welding consumables available	O	O
C	Material identification (type/grade)	O	O
D	Check welding equipment	O	O
Table D6.6-2 Inspection or Execution Tasks During Welding		QC	QA
A	Use of qualified welders	O	O
B	Control and handling of welding consumables	O	O
C	Environmental conditions (wind speed, moisture, temperature)	O	O
D	Welding procedure specifications followed	O	O
Table D6.6-3 Inspection or Execution Tasks After Welding		QC	QA
A	Verify compliance of welds	P	P
B	Welds meet visual acceptance criteria	P	P
C	Verify repair activities	P	P
D	Document acceptance or rejection of welded connections	--	P
Table D6.7-1 Inspection or Execution Tasks Prior to Mechanical Fastening		QC	QA
A	Mechanical fastener manufacturer installation instructions available for mechanical fasteners	O	O
B	Proper tools available for mechanical fastener installation	O	O
C	Proper storage for mechanical fasteners	O	O
Table D6.7-2 Inspection or Execution Tasks During Mechanical Fastening		QC	QA
A	Mechanical fasteners are positioned as required	O	O
B	Mechanical fasteners are installed in accordance with manufacturer's instructions	O	O
Table D6.7-3 Inspection or Execution Tasks After Mechanical Fastening		QC	QA
A	Verify compliance of mechanical fasteners	P	P
B	Repair activities	P	P
C	Document acceptance or rejection of mechanically fastened connections	--	P
Table D6.8-1 Inspection or Execution Tasks After Installation of Cold-Formed Steel Light-Frame Construction		QC	QA
A	Verify compliance of cold-formed steel light-frame construction	P	P
B	Document acceptance or rejection of cold-formed steel light-frame construction	--	P
Table D6.9-1 Additional Inspection or Execution Tasks Prior to Installation of Cold-Formed Steel Lateral Force-Resisting Systems		QC	QA
A	Verify compliance of shear wall and diaphragm sheathing, diagonal strap bracing, and hold-downs	P	P
B	Document acceptance or rejection of shear wall and diaphragm sheathing, diagonal strap bracing, and hold-downs	--	P
Table D6.9-2 Additional Inspection or Execution Tasks Prior to Welding of Cold-Formed Steel Lateral Force-Resisting Systems		QC	QA
A	Welder identification system	O	O
B	Fit-up of welds (alignment, gaps, condition of steel surfaces)	P/O	O
Table D6.9-3 Additional Inspection or Execution Tasks Prior to Mechanical Fastening of Cold-Formed Steel Lateral Force-Resisting Systems		QC	QA
A	Proper fasteners selected	O	O
B	Proper installation procedure selected	O	O
C	Connecting elements meet applicable requirements	O	O
Table D6.9-4 Additional Inspection or Execution Tasks During Mechanical Fastening of Cold-Formed Steel Lateral Force-Resisting Systems		QC	QA
A	For screw connections, joint brought tight (e.g., clamped) to avoid gaps between plies	O	O
B	For screw connections, tool adjusted to avoid stripped and overdriven fasteners	O	O
C	For post-installed connections to concrete, installation in accordance with manufacture's instructions	P	P
Table D6.9-5 Additional Inspection or Execution Tasks After Installation of Cold-Formed Steel Lateral Force-Resisting Systems		QC	QA
A	Verify compliance of cold-formed steel lateral force-resisting system installation	P	P
B	Document acceptance or rejection of installation of cold-formed steel lateral force-resisting system	--	P

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

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DATE	DESCRIPTION

SPECIAL INSPECTION REPORTS - 2018 IBC

S0.0.2

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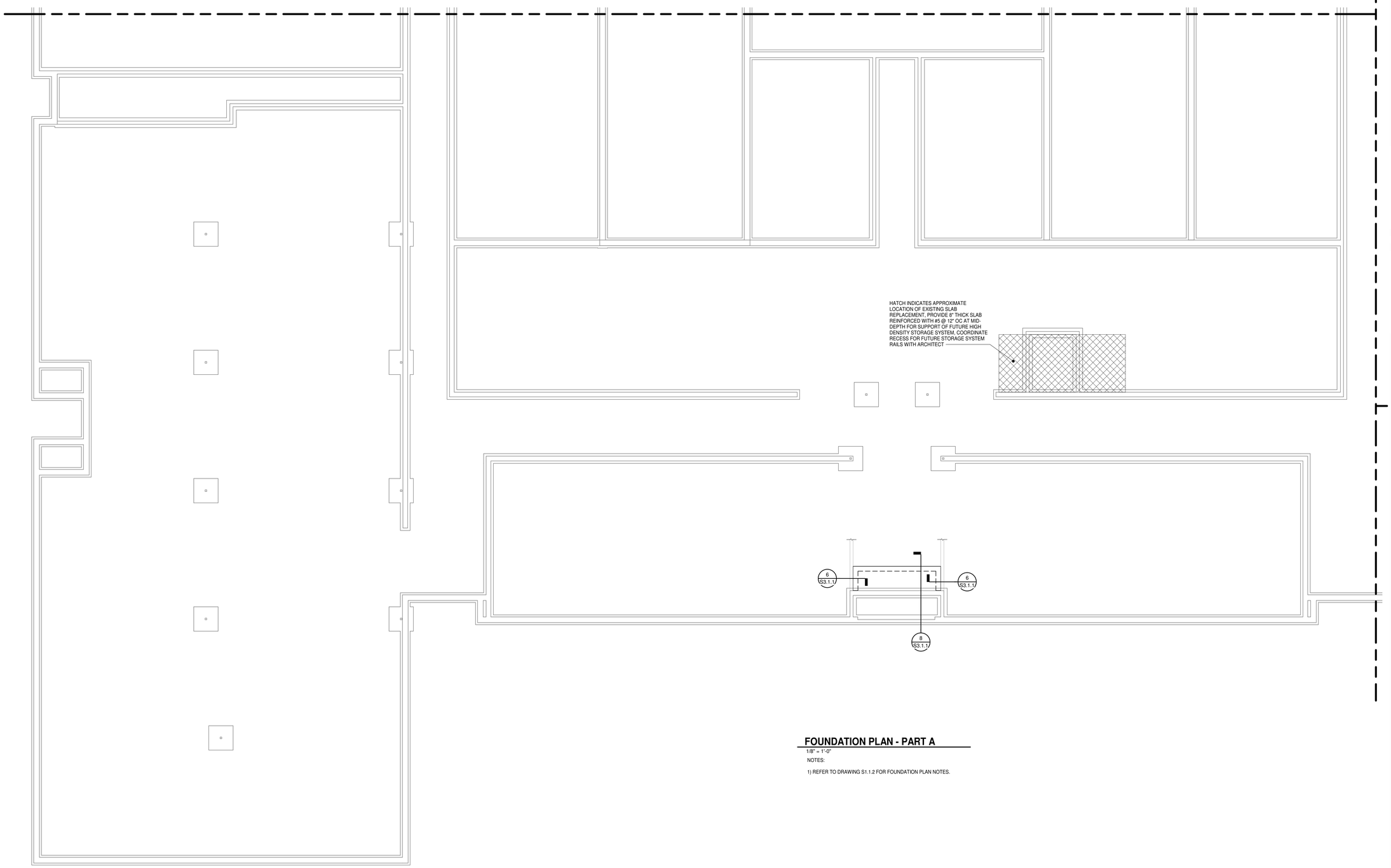

FOUNDATION PLAN - PART A

1/8" = 1'-0"

NOTES:

1) REFER TO DRAWING S1.1.2 FOR FOUNDATION PLAN NOTES.

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FOUNDATION PLAN - PART A

S1.1.1

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SHADING INDICATES EXTENT OF RAISED SLAB, FLOOR CONSTRUCTION SHALL BE 2 1/2" NORMAL WEIGHT CONCRETE SLAB ON 1 1/2" STEEL FLOOR DECK (DECK TYPE 2), (4" TOTAL SLAB THICKNESS), UNO. REINFORCE SLAB WITH 6x6-W2.9xW2.9 WWF AT MID-DEPTH. REFER TO DRAWING S4.0.1 FOR STEEL DECK SCHEDULE

INDICATES CFSF STUDWALL FOR SUPPORT OF RAISED FIRST FLOOR SLAB. (SPACED AT 6'-0" OC, MAXIMUM) CFSF TRACKS SHALL BE 600T125-43, CFSF STUDS SHALL BE 600S162-33 @ 16" OC, CONN TRACK TO EXIST SOG W/ (2) 0.157" DIAM (X-U) PAFS (1 1/2" EMBED) AT EA STUD, SPACED 3" APART

NOTE: CELLULAR CONCRETE FILL W/ 4" NORMAL WEIGHT CONCRETE SLAB MAY BE SUBSTITUTED FOR CFSF STUDWALLS AT SHADED AREA, REFER TO SECTION 9/S3.1.2

HATCH INDICATES 4" NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWF AT MID-DEPTH, OVER CELLULAR CONCRETE FILL

PLACE PIPE PRIOR TO FOOTINGS. REFER TO 'PIPE TRENCH FOOTING SLEEVE BACKFILL AT FOOTING' DETAIL ON DRAWING S3.0.1

ASSUMED TOP OF EXISTING FOOTING = (-5' - 4")

CONT OPEN BOT BOND BEAM, REINF W/ (2) #5 CONT (TOP OF BOND BEAM +3'-4")

(4) #5 VERT AT W8 BEARING ABOVE

(4) #5 @ 16" VERT UNDER WINDOW

(3) #5 @ 16" VERT

(3) #5 @ 16" VERT UNDER WINDOW

OPP HAND

#5 @ 16" EA FACE

#5 @ 24" AT CURTAINWALL

HSS8.625x0.625 BP-A (FB)

HSS6.6x1/4 BP-B

FOUNDATION PLAN - PART D

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 61.83' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH STEEL FIBER REINFORCING OVER VAPOR BARRIER OVER 4" VDOT NO. 57 STONE, UNO. REFER TO EARTHWORK SPECIFICATION FOR SUBGRADE DAMPENING REQUIREMENTS PRIOR TO FLOOR CONSTRUCTION.
3. TOP OF ALL INTERIOR FOOTINGS SHALL BE (-0'-8"), UNO. TOP OF ALL EXTERIOR FOOTINGS SHALL BE (-1'-4"), UNO.
4. ALL INTERIOR WALL FOOTINGS SHALL BE WF2.0, UNO. ALL EXTERIOR WALL FOOTINGS SHALL BE WF2.5", UNO.
5. REINFORCE ALL INTERIOR 8" AND 10" CMU WALLS ON FOOTINGS W/ #5 @ 48" OC, UNO. REINFORCE ALL EXTERIOR 8" CMU WALLS W/ #5 @ 48" OC, UNO.
5. COORDINATE FOOTING STEPS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
6. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
7. REFER TO DRAWINGS S3.0.1 AND S3.0.2 FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES.
8. REFER TO DRAWINGS A1.2.1, A1.2.2 AND MEP DRAWINGS FOR APPROXIMATE LOCATIONS OF EXISTING SLAB REMOVAL AND REPLACEMENT. ADDITIONAL SLAB REMOVAL AND REPLACEMENT IS REQUIRED FOR FOOTING INSTALLATION IN THE EXISTING BUILDING. PROVIDE 3/8" SLAB DEPRESSION FOR TERRAZZO FINISH, REFER TO ARCHITECTURE DRAWINGS. REFER TO TYPICAL 'SLAB INFILL DETAIL' ON DRAWING S3.0.1.

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FOUNDATION PLAN - PART D

S1.1.2

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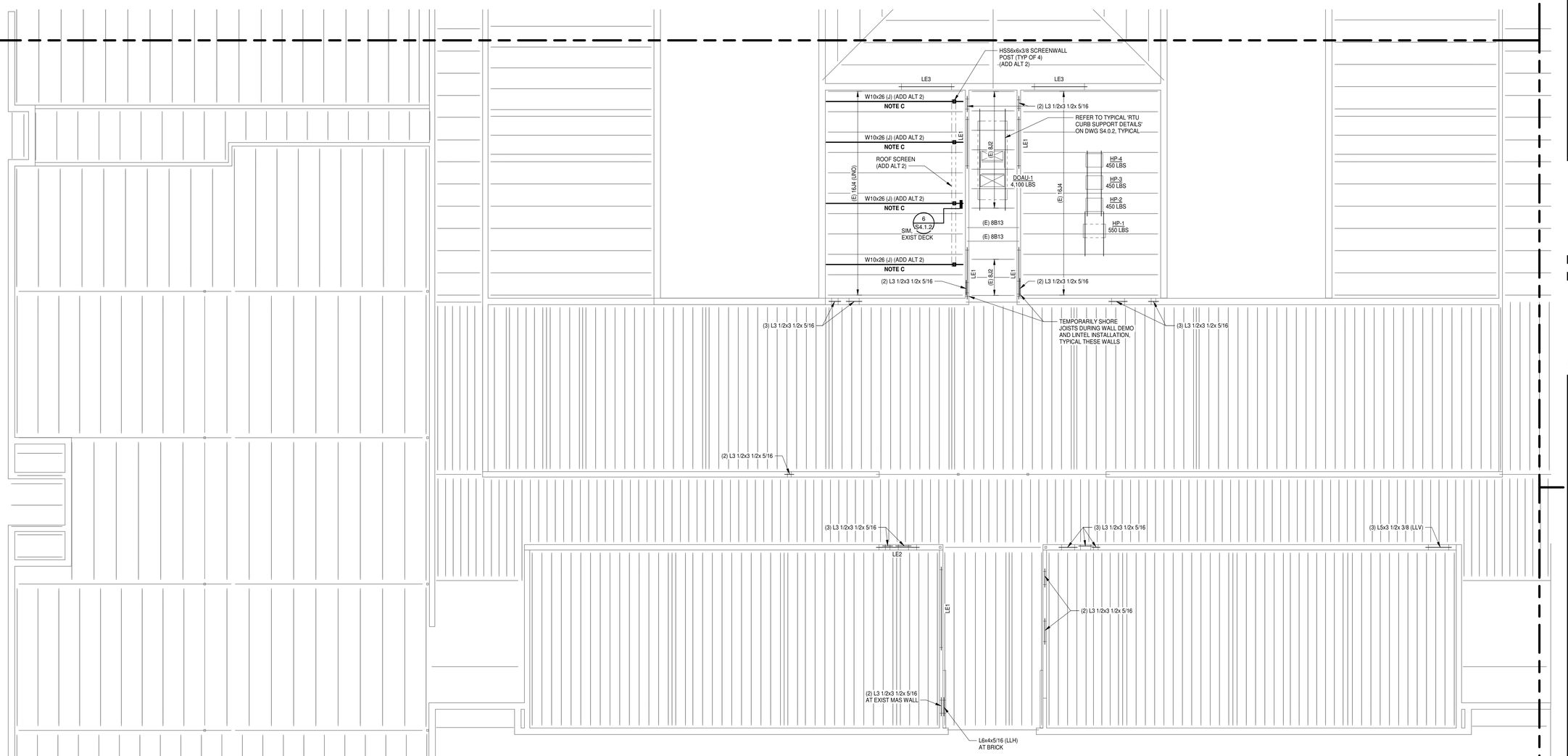

ROOF FRAMING PLAN - PART A

1/8" = 1'-0"

NOTES:

1) REFER TO DRAWING S2.1.2 FOR ROOF FRAMING PLAN NOTES.

NOTE C: BOLTED MOMENT CONNECTION OF BEAM IS ACCEPTABLE, REFER TO 'BEAM SPLICE CONNECTION' DETAIL ON DRAWING S4.0.2. CONNECT BEAM TO MASONRY WALL AT EACH END, REFER TO SECTION 12/S4.1.1.

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ROOF FRAMING PLAN - PART A

S2.1.1

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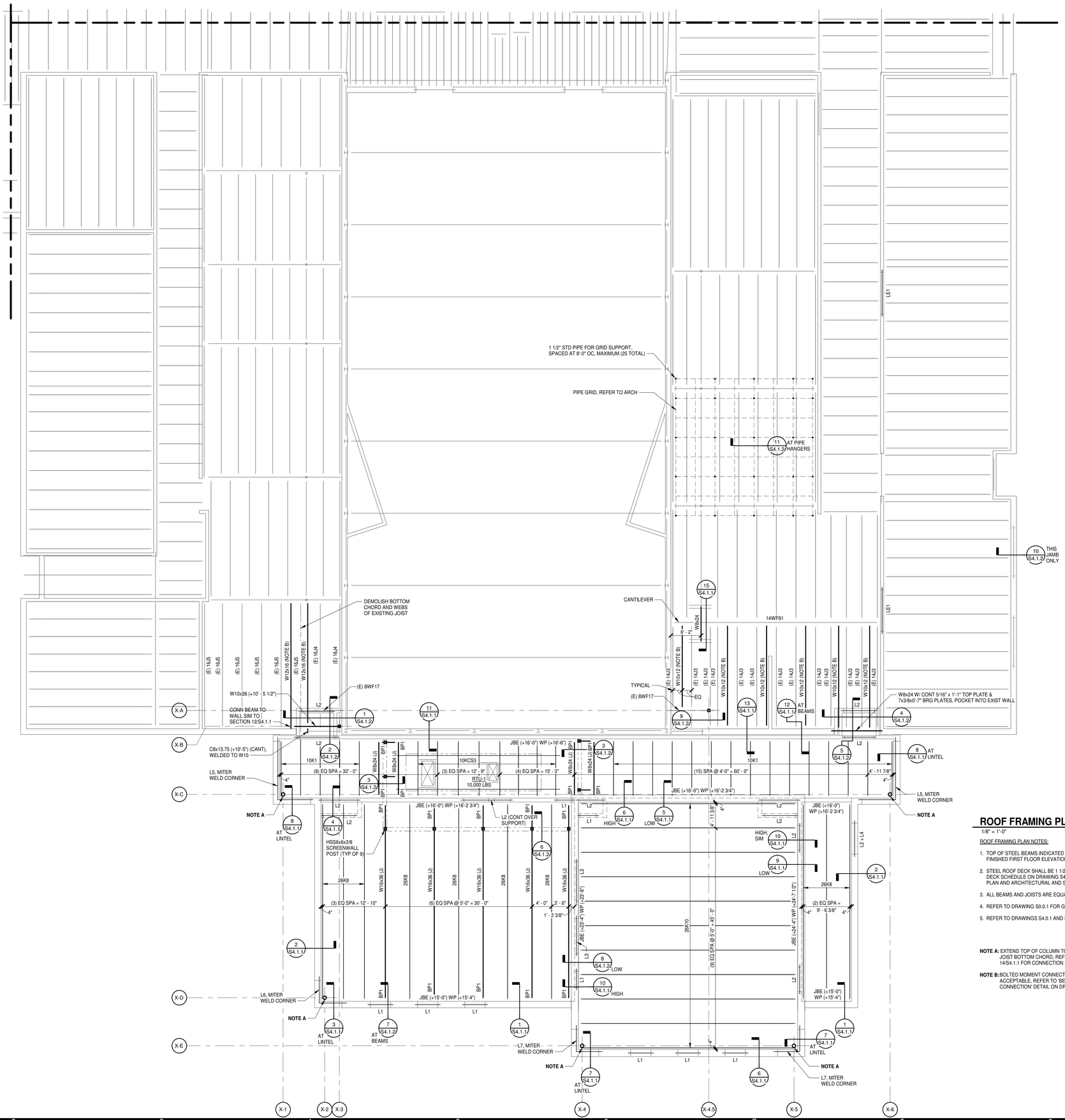

ROOF FRAMING PLAN - PART D

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S4.0.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
4. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
5. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.

NOTE A: EXTEND TOP OF COLUMN TO UNDERSIDE OF JOIST BOTTOM CHORD, REFER TO SECTION 14/S4.1.1 FOR CONNECTION DETAIL.

NOTE B: BOLTED MOMENT CONNECTION OF BEAM IS ACCEPTABLE, REFER TO 'BEAM SPLICE CONNECTION' DETAIL ON DRAWING S4.0.2.

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ROOF FRAMING PLAN - PART D

S2.1.2

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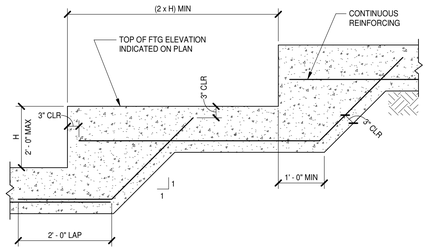
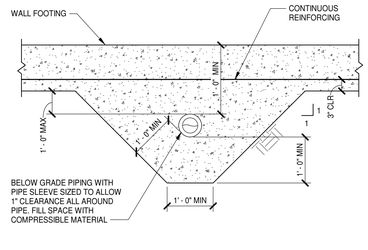
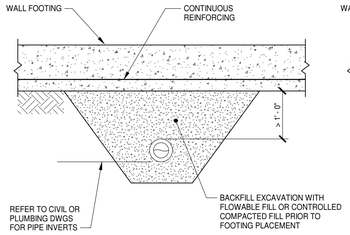


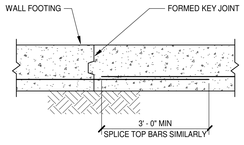
FOOTING STEP



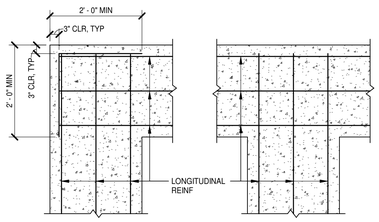
FOOTING SLEEVE



PIPE TRENCH BACKFILL AT FOOTING
(PIPE PLACED PRIOR TO FOOTING)



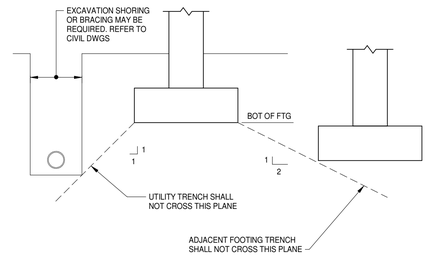
CONSTRUCTION JOINT



PLAN AT CORNER

PLAN AT INTERSECTION

WALL FOOTING DETAILS
NO SCALE



FOOTING EXCAVATION LIMITS
NO SCALE

LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 CHAPTER 25 AS INDICATED BELOW. TOP BAR LAPS (HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR) SHALL BE MODIFIED BY A MULTIPLICATION OF 1.3 TIMES THE LENGTHS LISTED IN THE TABLE BELOW. LENGTHS INDICATED IN INCHES.

NORMAL-WEIGHT (145 PCF)

f'c (psi)	LAP CLASS	#3	#4	#5	#6	#7	#8	#9
3000	A	16	22	27	33	48	55	62
	B	21	28	36	43	62	71	80
3500	A	15	20	25	30	44	51	57
	B	20	26	33	40	58	66	74
4000	A	14	19	24	28	42	47	53
	B	18	25	31	37	54	62	69
5000	A	13	17	21	25	37	42	48
	B	17	22	28	33	48	55	62

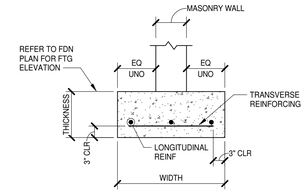
LIGHTWEIGHT (110 PCF)

f'c (psi)	LAP CLASS	#3	#4	#5	#6	#7	#8	#9
3000	A	22	29	37	44	64	73	82
	B	28	38	47	57	83	95	107
3500	A	20	27	34	41	59	68	76
	B	26	35	44	53	77	88	99
4000	A	19	25	32	38	55	63	71
	B	25	33	41	49	72	82	92
5000	A	17	23	28	34	49	57	64
	B	22	29	37	44	64	74	83

ACI 318 LAP LENGTHS

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING (BOT, UNO)	
			LONGITUDINAL	TRANSVERSE
WF2.0	2' - 0"	1' - 0"	(3) #5 CONT	#5 @ 48" OC
WF2.5*	2' - 6"	2' - 8"	(3) #5 CONT	#5 @ 48" OC

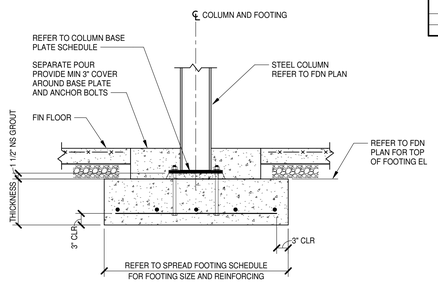


WITH BOT REINFORCING

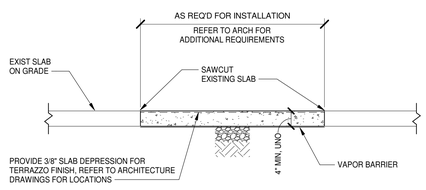
WALL FOOTING DETAILS
NO SCALE

SPREAD FOOTING SCHEDULE

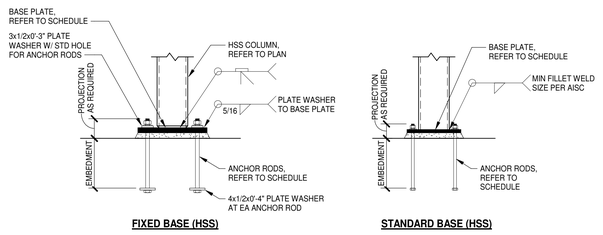
MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
3.0	3' - 0"	3' - 0"	1' - 0"	(4) #5 EA WAY BOT
4.0	4' - 0"	4' - 0"	2' - 8"	(4) #5 EA WAY BOT



STEEL COLUMN FOOTING DETAILS
NO SCALE

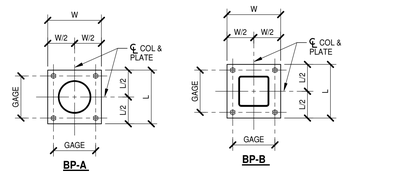


SLAB INFILL DETAIL
NO SCALE



COLUMN BASE PLATE SCHEDULE

MARK	BASE PLATE SIZE			HEADED ANCHOR RODS			BASE PLATE TYPE
	L	W	T	SIZE	EMBED	GAGE	
BP-A	1' - 2"	1' - 2"	0' - 1"	(4) 1" DIAM	12"	10"	FIXED BASE
BP-B	1' - 0"	1' - 0"	0' - 0 3/4"	(4) 3/4" DIAM	9"	9"	STANDARD BASE



COLUMN BASE PLATE DETAILS
NO SCALE

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TYPICAL FOUNDATION DETAILS

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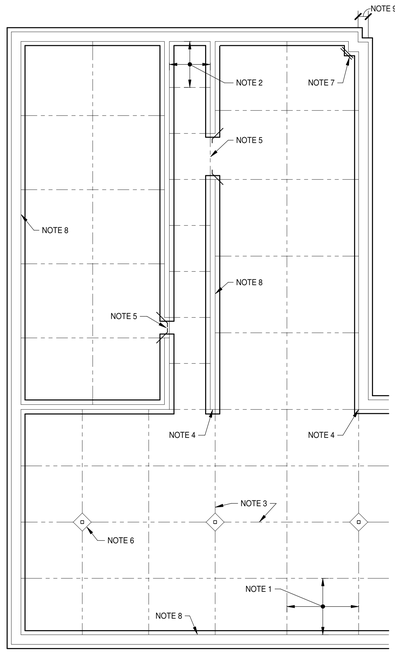
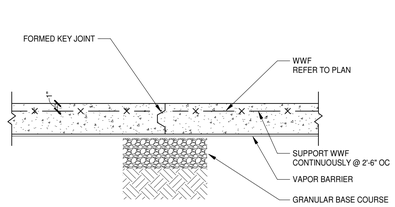


SLAB-ON-GRADE JOINT LAYOUT GUIDELINES

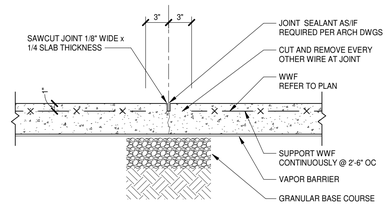
NO SCALE

NOTES:

1. PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION.
2. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.
3. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT COLUMN CENTERLINES.
4. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT RE-ENTRANT CORNERS.
5. LOCATE CONSTRUCTION JOINTS PER "PLAN DETAIL AT INTERIOR DOORS".
6. PROVIDE DIAMOND OR CIRCULAR BLOCKOUTS AT COLUMNS.
7. REINFORCE ALL RE-ENTRANT CORNERS OF SLAB PER "SLAB REINFORCING AT RE-ENTRANT CORNERS".
8. PROVIDE BOND BREAK WHERE FLOOR ABUTS CMU OR CONCRETE WALL UNLESS NOTED OTHERWISE.
9. CONTROL JOINT NOT REQUIRED IF DIMENSION AT RE-ENTRANT CORNER IS 2'-0" OR LESS. PROVIDE REINFORCING PER "SLAB REINFORCING AT RE-ENTRANT CORNER".
10. CONTROL JOINT / CONSTRUCTION JOINT PLANS SHALL BE SUBMITTED IF NOT SHOWN ON FOUNDATION PLANS.



CONSTRUCTION JOINT



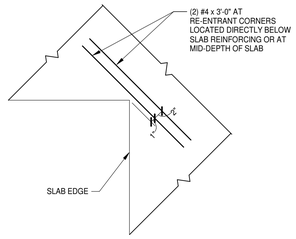
CONTROL JOINT

NOTES:

1. SAWCUT AS SOON AS CONCRETE WILL SUPPORT EQUIPMENT AND EARLY ENOUGH TO PREVENT CRACKING. DO NOT DISLODGE AGGREGATE.
2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.

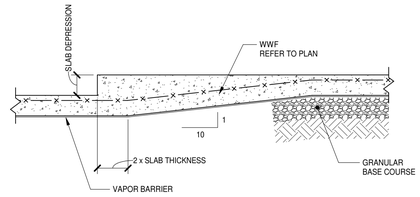
SLAB-ON-GRADE JOINT DETAILS

NO SCALE



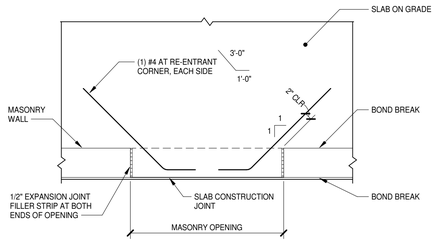
SLAB REINFORCING AT RE-ENTRANT CORNER

NO SCALE

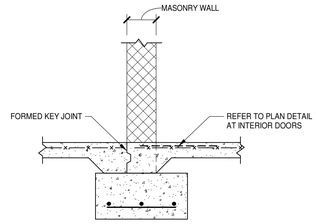


DETAIL AT SLAB DEPRESSION

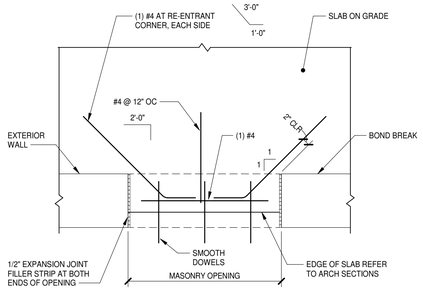
NO SCALE



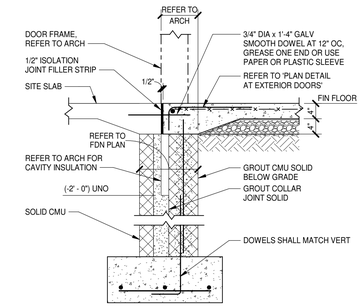
PLAN AT INTERIOR DOORS



SECTION AT INTERIOR DOORS



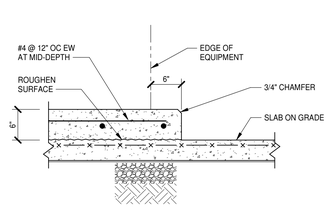
PLAN AT EXTERIOR DOORS



SECTION AT EXTERIOR DOORS

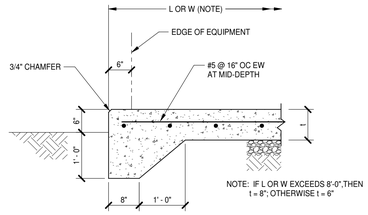
SLAB ON GRADE DETAILS AT DOORS

NO SCALE



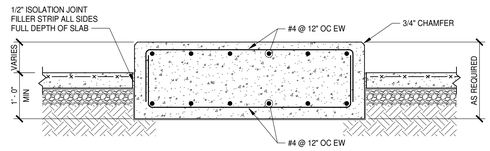
NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING HOUSEKEEPING PAD

HOUSEKEEPING PAD



NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING EXTERIOR PAD

EXTERIOR EQUIPMENT PAD



NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING CONCRETE PAD

HEAVY EQUIPMENT PAD

EQUIPMENT PAD DETAILS

NO SCALE

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7/1/22
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

TYPICAL SLAB DETAILS

S3.0.2

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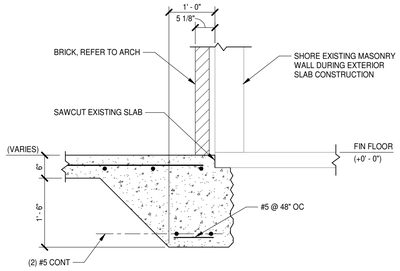
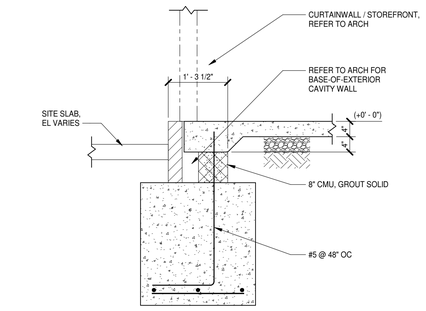


6 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"



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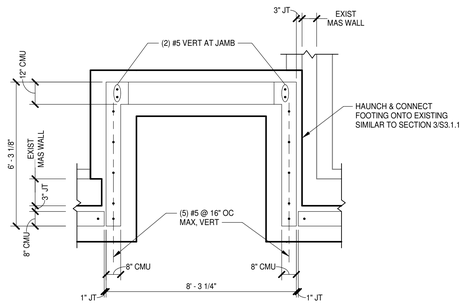
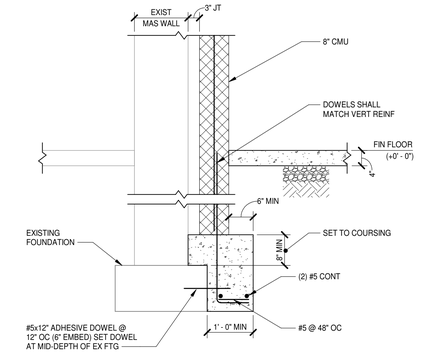


B PLAN DETAIL - PORTAL B S1.1.2 | S3.1.1 — 3/8" = 1'-0"



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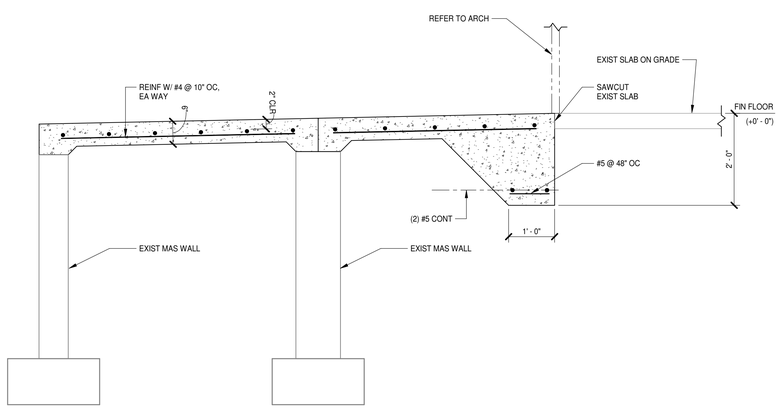
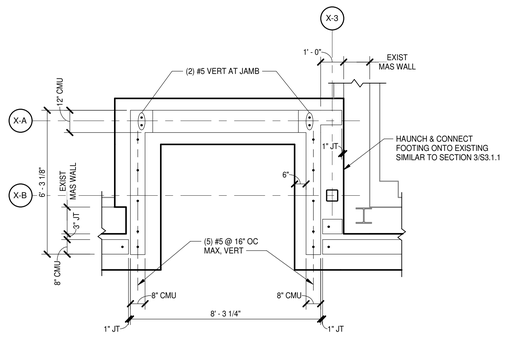
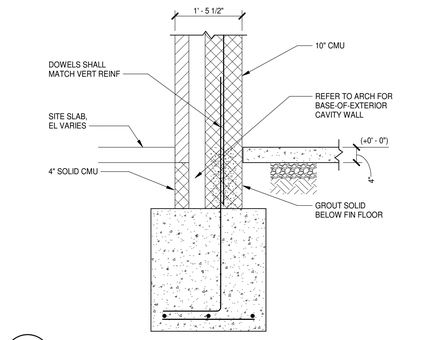


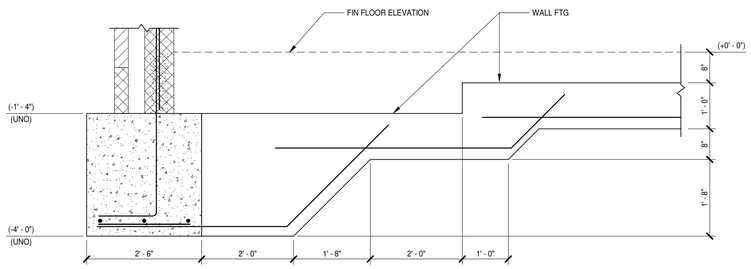
8 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"



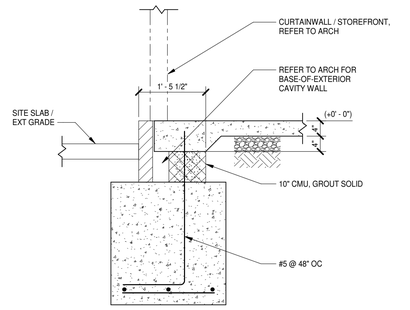
A PLAN DETAIL - PORTAL A S1.1.2 | S3.1.1 — 3/8" = 1'-0"



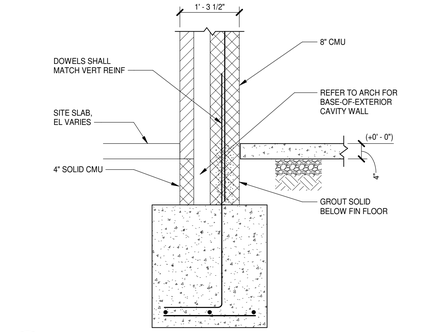
2 SECTION S1.1.2 | S3.1.1 — 3/4" = 1'-0"



7 SECTION S1.1.2 | S3.1.1 — 3/4" = 1'-0"



5 SECTION S1.1.2 | S3.1.1 — 3/4" = 1'-0"



1 SECTION S1.1.2 | S3.1.1 — 3/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
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FOUNDATION SECTIONS

S3.1.1

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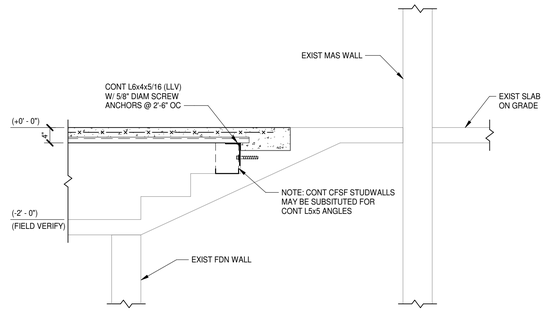
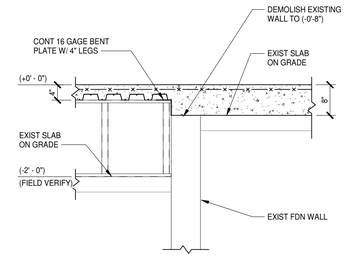
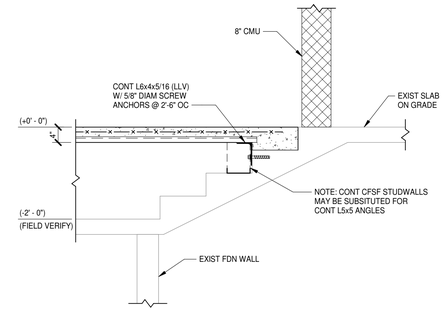


4 S1.1.2 S3.1.2 **SECTION**
3/4" = 1'-0"



7 S1.1.2 S3.1.2 **SECTION**
3/4" = 1'-0"



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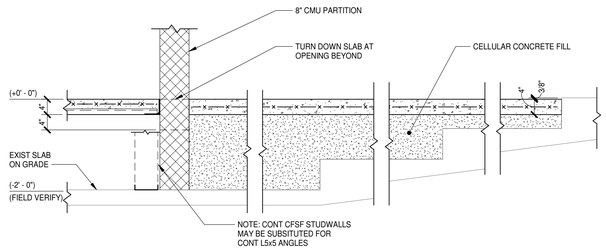

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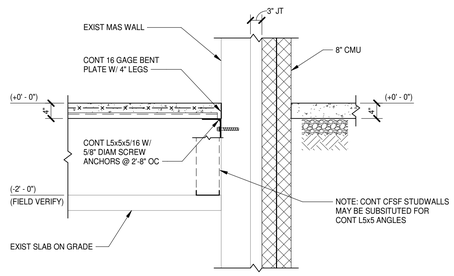
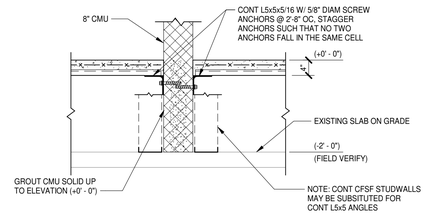
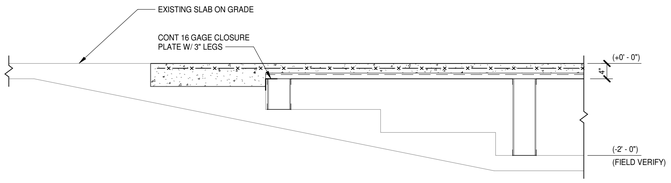
3/4" = 1'-0"



6 S1.1.2 S3.1.2 **SECTION**
3/4" = 1'-0"



2 S1.1.2 S3.1.2 **SECTION**
3/4" = 1'-0"



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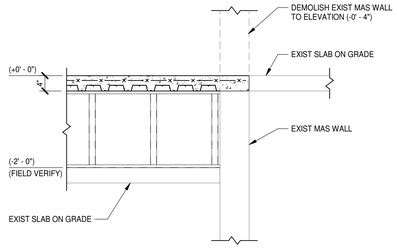
3/4" = 1'-0"



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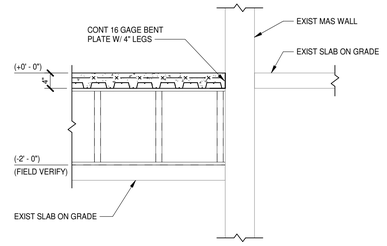
3/4" = 1'-0"



1 S1.1.2 S3.1.2 **SECTION**
3/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
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FOUNDATION SECTIONS

S3.1.2

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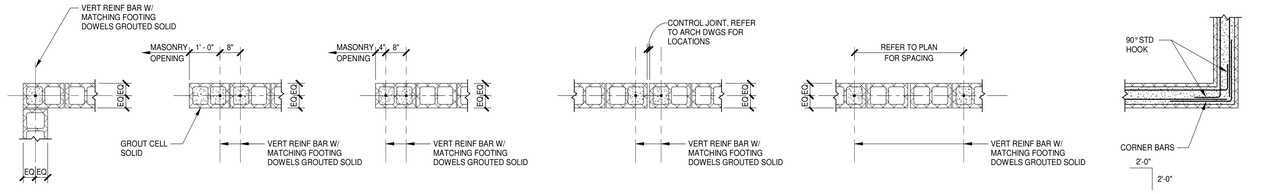


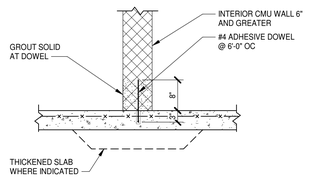
CORNER | **JAMB AT STEEL LINTEL** | **JAMB AT CMU BOND BEAM LINTEL** | **VERTICAL CONTROL JOINTS** | **TYPICAL REINFORCED WALL** | **BOND BEAM PLAN DETAIL AT CORNER**

NOTES:

1. REINFORCING BAR SIZE INDICATED ON FOUNDATION PLAN.
2. DETAILS ARE PROVIDED FOR VERTICAL REINFORCING STEEL PLACEMENT ONLY. REFER TO ARCHITECTS DRAWINGS FOR SPECIFIC MASONRY DETAILS.
3. DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.

CMU WALL REINFORCING DETAILS

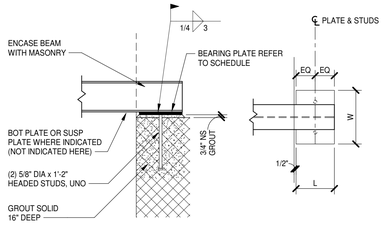
NO SCALE



SLAB-ON-GRADE

BASE ANCHORAGE OF UNREINFORCED CMU WALLS

NO SCALE



SECTION **PLAN**

BEAM ANCHORAGE DETAILS

NO SCALE

BEARING PLATE SCHEDULE

MARK	SIZE W	SIZE t	SIZE L	REMARKS
BP1	9"	3/4"	7"	
BP2	9"	3/4"	9"	
REFER TO BEAM ANCHORAGE DETAILS				

LINTEL SCHEDULE

MARK	DIAGRAM	BOND BEAM (W x H)	REINFORCING	STEEL	NOTES
L1		W x 8	(2) #5 CONT		W = CMU WALL WIDTH
L2		W x 16	(2) #5 CONT, EA COURSE		W = CMU WALL WIDTH
L3		W x 24	(2) #5 CONT, EA COURSE		W = CMU WALL WIDTH
L4				CONT 7"x7"x3/8" BENT PLATE AT L1 THRU L3	CONN TO CMU W/ 5/8" DIA SCREW ANCHORS AT 0'-8" OC, SET ANCHOR 2" FROM TOP OF VERT LEG
L5				W8x24 W/ 5/16" x 0'-9" BOTTOM PLATE	BP1 AT EACH END OFFSET (1) END AT D116 A&B
L6				W8x24 W/ 5/16" x 1'-2 1/2" BOTTOM PLATE	BP1 AT EACH END OFFSET (1) END AT CORNER WINDOWS
L7				W8x24 W/ 5/16" x 1'-4 1/2" BOTTOM PLATE	BP2 AT EACH END
LE1				W8x15 W/ 5/16" x 0'-7" BOTTOM PLATE	NO DOWELS ON TOP
LE2				W8x18 W/ 5/16" x 0'-11" BOTTOM PLATE	NO DOWELS ON TOP
LE3				W8x18 W/ 5/16" x 1'-1" BOTTOM PLATE	NO DOWELS ON TOP
LE4				(2) L4x3 1/2x5/16 (LLV)	

LINTEL NOTES

1. LINTELS FOR ARCHITECTURAL OPENINGS (WINDOWS, DOORS, LOUVERS) IN BEARING WALLS AND EXTERIOR WALLS ARE IDENTIFIED BY MARK NUMBER ON THE FRAMING PLAN(S) AND INCLUDED IN THE LINTEL SCHEDULE.
2. LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS AND OTHER WALLS WHICH ARE NOT INDICATED ON THE FRAMING PLAN(S) SHALL BE CONSTRUCTED PER NOTES A, B OR C BELOW.

   A. STEEL ANGLE LINTELS

   PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING	ANGLE SIZE
UP TO 5'-0"	L3 1/2x3 1/2x 5/16
5'-1" TO 6'-0"	L4x3 1/2x 5/16 (LLV)
6'-1" TO 7'-0"	L5x3 1/2x 3/8 (LLV)
OVER 7'-0"	AS DETAILED

   FOR OPENINGS IN 10" CMU, HORIZONTAL LEGS OF ANGLES SHALL BE A COMBINATION OF 5" AND 4".

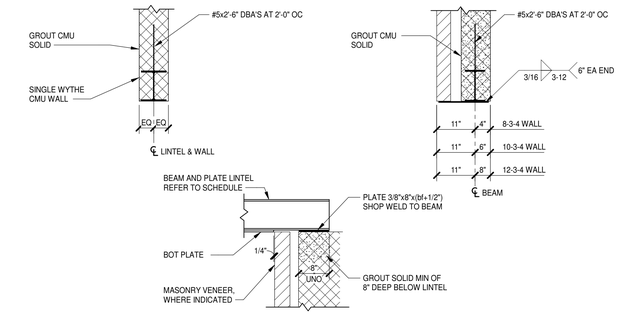
   FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, USE WT7x11 UP TO 7'-0" OPENING.

   B. REINFORCED BOND BEAM LINTELS

   LINTELS SHALL MATCH THICKNESS OF WALL. REINFORCE 8", 10" AND 12" BOND BEAM WITH (2) #5 BARS AT BOTTOM. REINFORCE 6" BOND BEAM WITH (1) #5 BAR AT BOTTOM. BOND BEAM SHALL BE 8" DEEP FOR OPENING WIDTH UP TO 5'-0", AND SHALL BEAR 8" ON SOLID MASONRY EACH END. BOND BEAM SHALL BE 16" DEEP FOR OPENING WIDTH UP TO 8'-0" AND SHALL BEAR 16" ON SOLID MASONRY EACH END WITH REINFORCING TOP AND BOTTOM. PLACE GROUT MONOLITHICALLY IN BOTH COURSES OF 16" DEEP BOND BEAM.

   C. PRECAST CONCRETE LINTELS

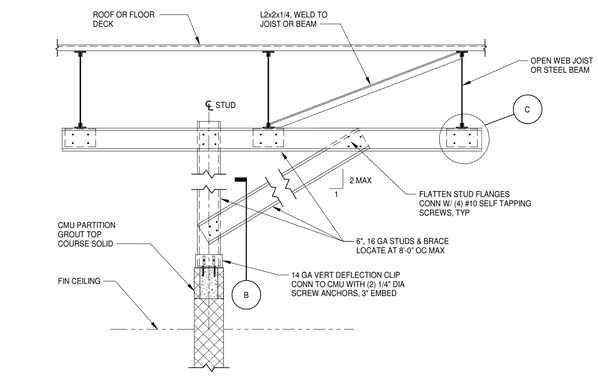
   PRECAST CONCRETE LINTELS SHALL BE 3 5/8" x 7 5/8" FOR EACH NOMINAL 4" THICKNESS OF WALL. REINFORCING SHALL BE (1) #4 TOP AND BOTTOM WITH 1 1/2" COVER. FOR OPENINGS IN 6" CMU, LINTEL SHALL BE 5 5/8" x 7 5/8", REINFORCED WITH (1) #5 TOP AND BOTTOM. MASONRY OPENING WIDTH SHALL BE 6'-0" OR LESS. DO NOT USE PRECAST CONCRETE LINTELS IN EXPOSED LOCATIONS.
3. LINTELS FOR MECHANICAL DUCTWORK PENETRATIONS NOT OTHERWISE DETAILED SHALL BE ONE OF THE ABOVE (NOTE 2A, 2B OR 2C).
4. LINTELS SHALL BEAR 8" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED.
5. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
6. LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
7. ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.



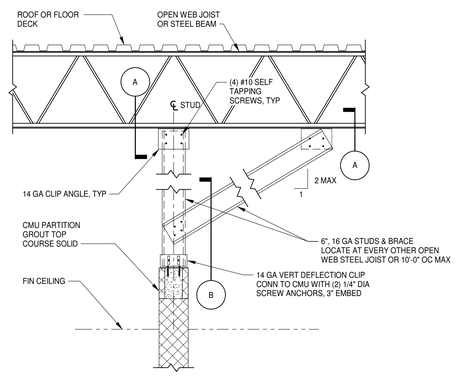
STEEL LINTEL DETAILS (CMU BACKUP)

STEEL DECK SCHEDULE

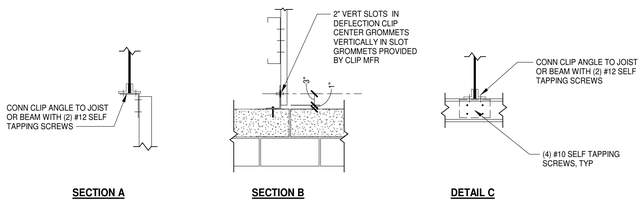
DECK TYPE 1	1 1/2" - 22 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT 36/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH #10 TEK SCREWS AT MID-SPAN AND NOT GREATER THAN 36" OC.
DECK TYPE 2	1 1/2" - 22 GAGE FORM DECK, GALVANIZED	FASTEN TO ALL SUPPORTS USING #10 TEK SCREWS AT 36/4 PATTERN, AND AT 6" OC AT ALL EDGES. FASTEN SIDELAPS WITH #10 TEK SCREWS AT MID-SPAN AND NOT GREATER THAN 36" OC.



LOW WALL PARALLEL TO JOIST OR BEAM



LOW WALL PERPENDICULAR TO JOIST OR BEAM



SECTION A **SECTION B** **DETAIL C**

BRACING DETAILS FOR NON-LOAD BEARING INTERIOR MASONRY PARTITIONS

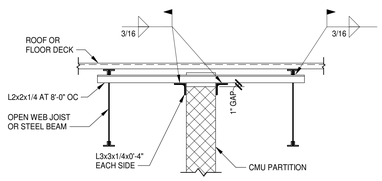
NO SCALE

NOTES:

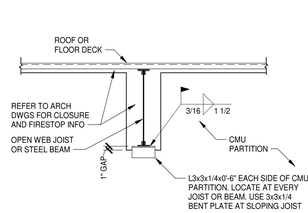
1. BRACE INTERIOR NON-LOAD BEARING MASONRY WALLS IN ACCORDANCE WITH THESE DETAILS UNLESS OTHERWISE INDICATED.
2. IN LIEU OF BRACING AT TOPS OF WALLS, BRACING MAY BE PROVIDED BY INTERSECTING MASONRY WALLS WHEN THE DISTANCE BETWEEN THE INTERSECTING WALLS DOES NOT EXCEED THE FOLLOWING:

NOMINAL THICKNESS OF BRACED WALLS	MAXIMUM SPACING BETWEEN INTERSECTING WALLS
4"	12'-0"
6"	16'-0"
8"	22'-0"
10"	26'-0"
12"	30'-0"

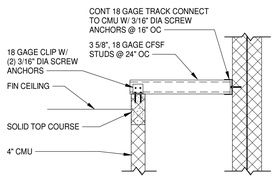
3. BRACING IS REQUIRED IN ACCORDANCE WITH THESE DETAILS IF A VERTICAL CONTROL JOINT OCCURS BETWEEN INTERSECTING WALLS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITION TYPES AND LOCATIONS.
5. INSTALL BRACING AFTER ALL ROOF DEAD LOAD IS IN PLACE.



WALL TO UNDERSIDE OF DECK PARALLEL TO JOISTS



WALL TO UNDERSIDE OF DECK PERPENDICULAR TO JOISTS



4" CMU TOP OF WALL BRACING

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7/1/22
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

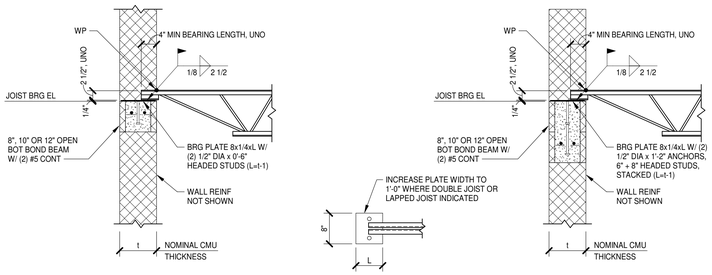
PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

TYPICAL MASONRY WALL AND LINTEL DETAILS

S4.0.1

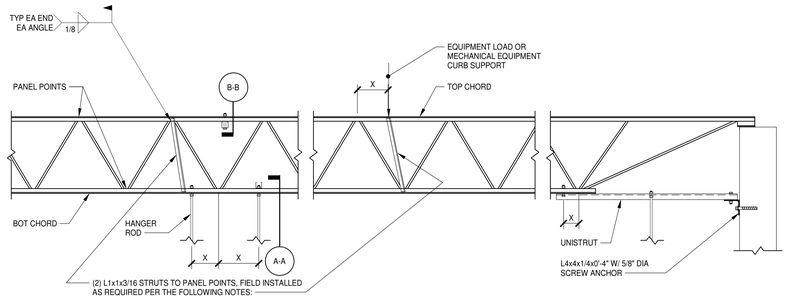
6/30/2022 2:23:45 PM



SECTION AT FLOOR **PLAN DETAIL** **SECTION AT ROOF**

TYPICAL K SERIES STEEL JOIST ANCHORAGE DETAILS AT CMU WALLS

NO SCALE



K-SERIES JOISTS:

1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 200 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 200 LBS.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 200 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 200 LBS.

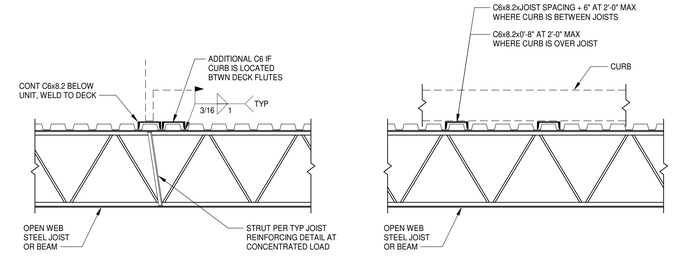
KCS AND LH-SERIES JOISTS:

1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 500 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 500 LBS, OR HANGER SHALL BE LOCATED AT EA JOIST.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 500 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 500 LBS.

GENERAL:

1. C-CLAMPS SHALL NOT BE USED WHERE HANGER LOAD EXCEEDS 50 LBS.
2. REFER TO DRAWING S0.0.1 FOR STEEL JOIST NOTES.

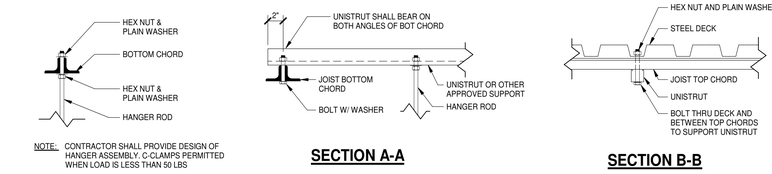
NOTE:
THE GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS FOR HANGER SPACING AND JOIST REINFORCING STRUTS WITH MECHANICAL, PLUMBING, AND FIRE PROTECTION TRADES IN ORDER TO ENSURE THAT THESE REQUIREMENTS ARE ACCOUNTED FOR IN THE BID PRICE AND IMPLEMENTED IN THE FIELD. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE REINFORCING STRUTS IN ALL CASES WHERE THE HANGER LOAD EXCEEDS THE MAXIMUM. IF HANGER LOCATIONS ARE COORDINATED TO COMPLY WITH THE MAXIMUM HANGER LOADS INDICATED IN THIS DETAIL, THE NUMBER OF JOIST REINFORCING STRUTS WILL BE MINIMIZED.



CURB PERPENDICULAR TO JOIST **CURB PARALLEL TO JOIST**

RTU CURB SUPPORT DETAILS

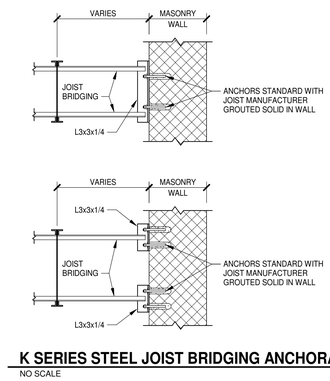
NO SCALE



SECTION A-A **SECTION B-B**

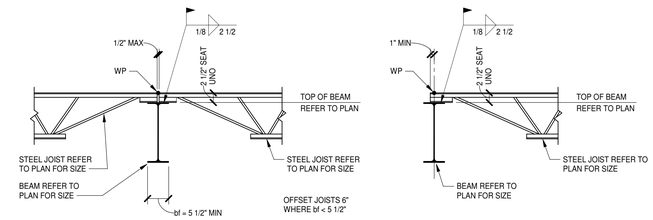
TYPICAL LOAD SUPPORTED FROM JOIST DETAIL

NO SCALE



K SERIES STEEL JOIST BRIDGING ANCHORAGE

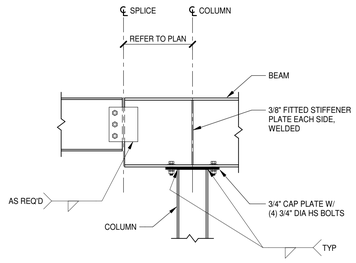
NO SCALE



CONNECTION OF K SERIES STEEL JOIST TO STEEL BEAM

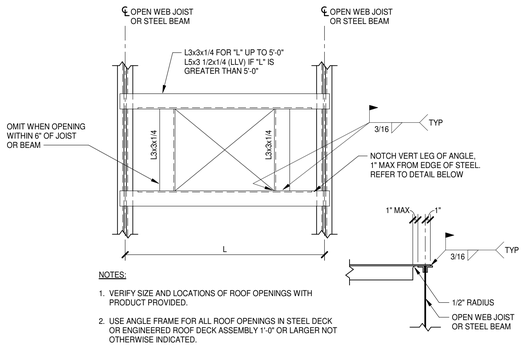
NO SCALE

K JOIST WELD TABLE	
JOIST SECTION	MINIMUM FILLET WELD
K1-12	2 - 1/8" x 2 1/2"
KCS	2 - 1/8" x 2 1/2"



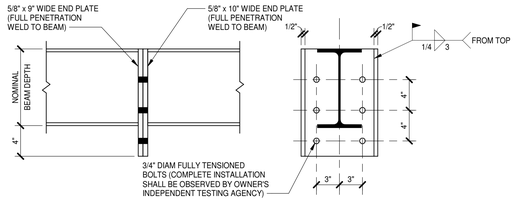
BEAM SPLICE OVER COLUMN

NO SCALE



ROOF OPENING SUPPORT DETAIL

NO SCALE



BEAM SPLICE CONNECTION

NO SCALE

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
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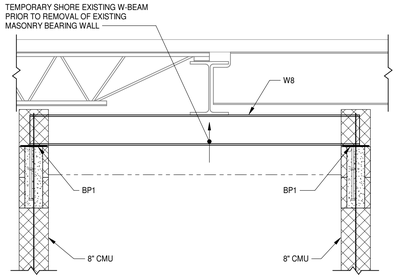
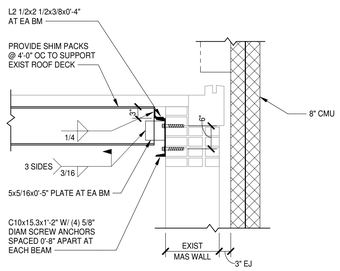
TYPICAL FRAMING DETAILS

S4.0.2

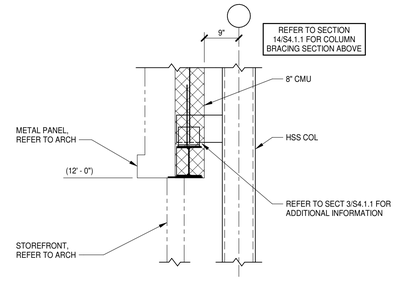
6/30/2022 2:23:47 PM



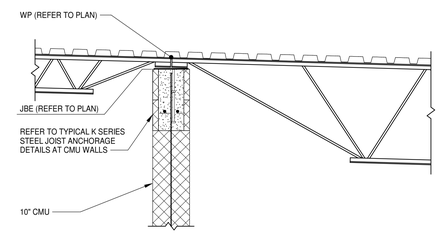
15 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



12 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



8 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



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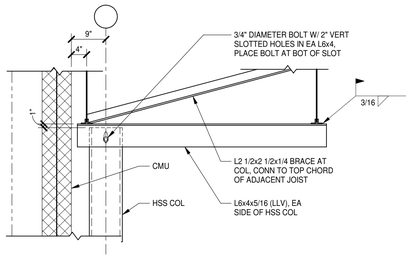

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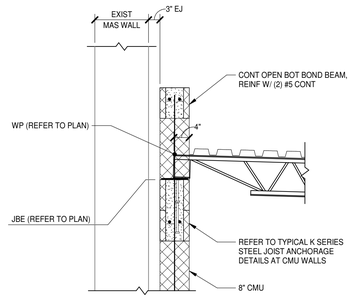
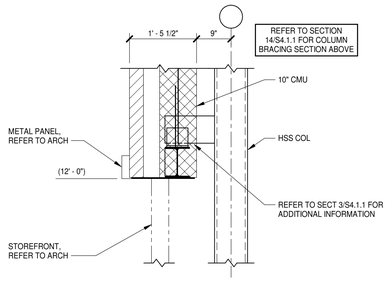
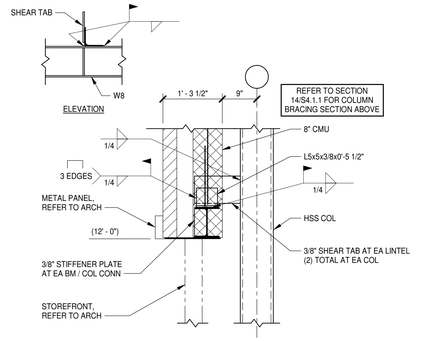


9 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



7 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



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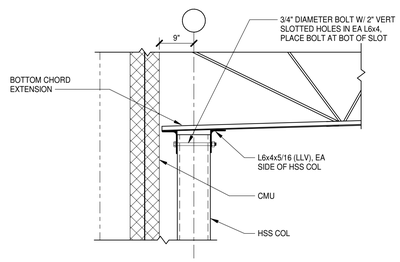
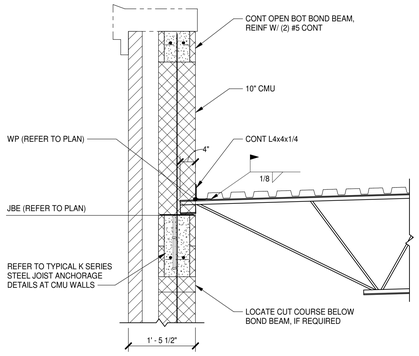


14 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



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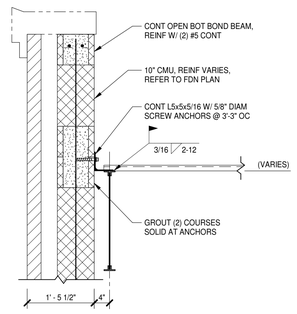

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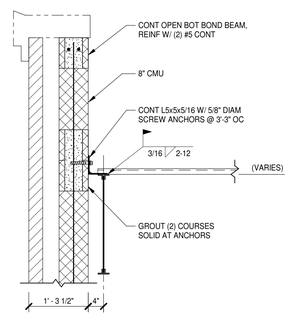
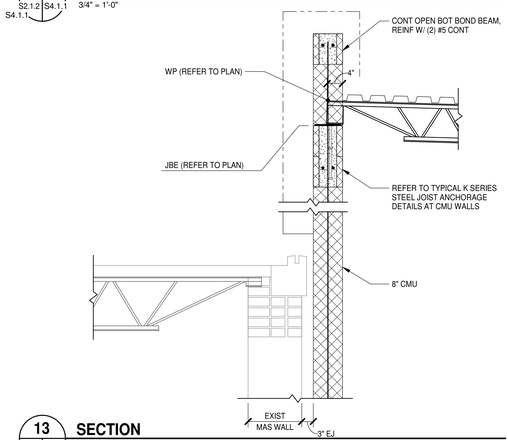


2 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"



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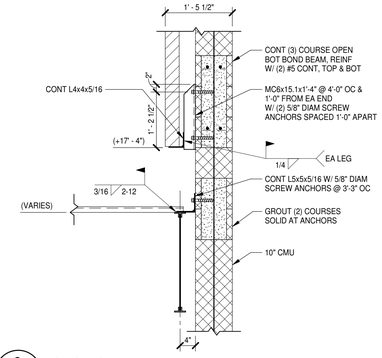

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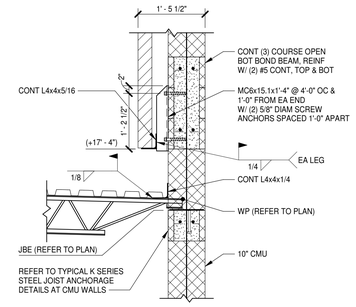

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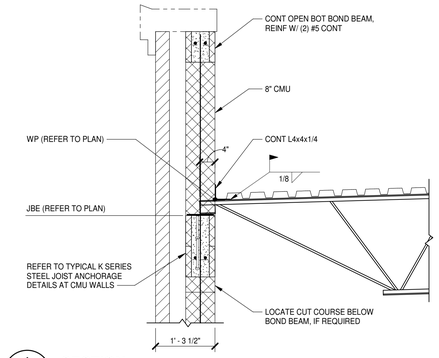

1 S2.1.2 S4.1.1 **SECTION** 3/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

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FRAMING SECTIONS

S4.1.1

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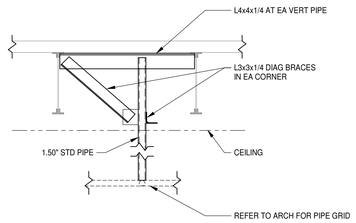
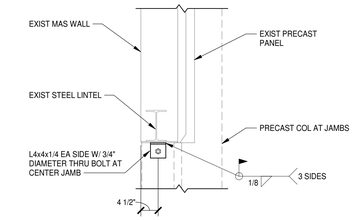


11 SECTION S2.1.1 | S4.1.2 — 3/4" = 1'-0"



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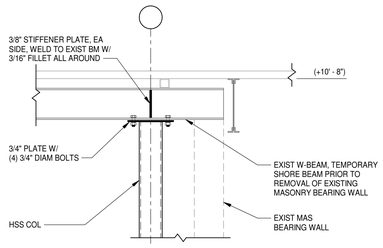

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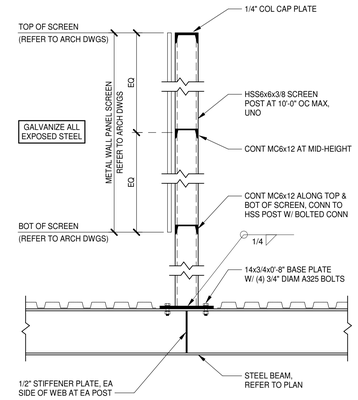
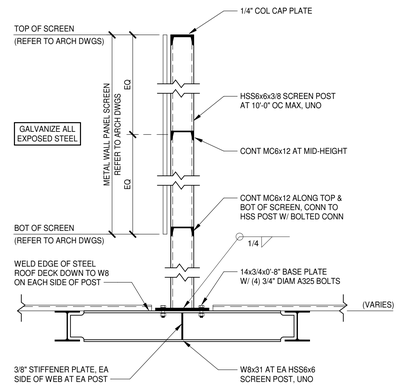


6 SECTION S2.1.1 | S4.1.2 | S2.1.2 — 3/4" = 1'-0"

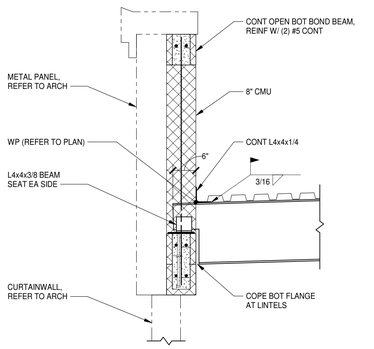


3 SECTION S2.1.2 | S4.1.2 — 3/4" = 1'-0"

8 SECTION S2.1.2 | S4.1.2 — 3/4" = 1'-0"

5 SECTION S2.1.2 | S4.1.2 — 3/4" = 1'-0"

2 SECTION S2.1.2 | S4.1.2 — 3/4" = 1'-0"



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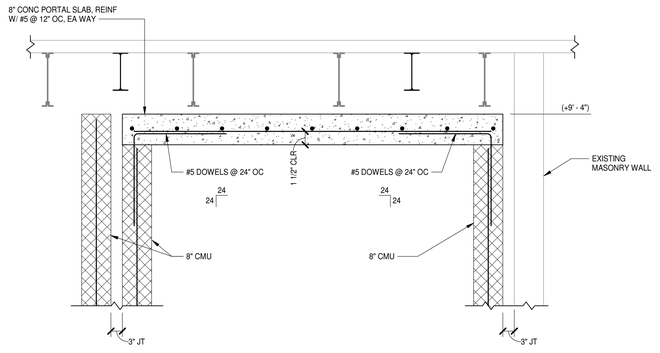

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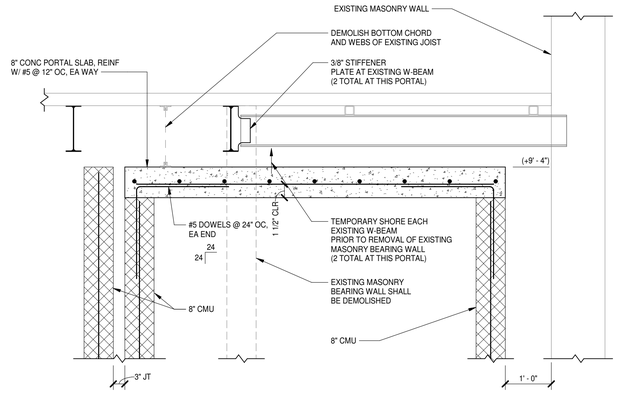

1 SECTION S2.1.2 | S4.1.2 — 3/4" = 1'-0"

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FRAMING SECTIONS

S4.1.2

6/30/2022 2:23:51 PM

ABBREVIATIONS

@	AT
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
ADJ	ADJUSTABLE
ADNL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPR	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AVG	AVERAGE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BO	BOTTOM OF
BOT	BOTTOM
BSMT	BASEMENT
BTWN	BETWEEN
CA	COMPRESSED AIR
CI	CAST IRON
CIP	CAST-IN-PLACE CONCRETE
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONDS	CONDENSATE
CONSTR	CONSTRUCT(ION)
CONT	CONTINUATION
CONTR	CONTRACT(-OR)
CORR	CORRIDOR
CP	CIRCULATING PUMP
CR	CLASSROOM
CT	COOLING TOWER
CU	COPPER
CU FT	CUBIC FEET
CU YD	CUBIC YARD
CW	COLD WATER
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH OR DEMOLITION
DF	DRINKING FOUNTAIN
DHR	DOMESTIC HOT WATER RETURN
DHR(140)	DOMESTIC HOT WATER RETURN (140°)
DHW	DOMESTIC HOT WATER
DHW(140)	DOMESTIC HOT WATER (140°)
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DS	DOWNSPOUT
DT	DRAIN TILE
DTL	DETAIL
DTW	DOMESTIC TEMPERED WATER
DWG	DRAWING
E	EAST
ELEC	ELECTRICAL
EPBD	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPANSION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION DRAIN
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FHVC	FIRE HOSE VALVE CABINET
FIX	FIXTURE
FLR	FLOOR
FLSHG	FLASHING
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FS	FLOOR SINK
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
G	NATURAL GAS
GWH	GAS WATER HEATER
HB	HOSE BIBB
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE OR INSULATION
INV	INVERT
JAN	JANITOR
KIT	KITCHEN
KW	KITCHEN WASTE
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LP	PROPANE
LPV	PROPANE VENT
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
N/A	NOT APPLICABLE/AVAILABLE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NGV	NATURAL GAS VENT
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. (#)	NUMBER
NOM	NOMINAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSD	OPEN SITE DRAIN
PC	PRECAST
PCF	POUNDS PER CUBIT FOOT
PD	PUMP DISCHARGE
PLUMB	PLUMBING
PLYWD	PLYWOOD
POLY	POLYETHYLENE
PPT	PRESSURE PRESERVATIVE TREATED
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PV	PROPANE VENT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RISER
RAD	RADIUS
RD	ROOF DRAIN (BOTTOM OUTLET)
RDS	ROOF DRAIN (SIDE OUTLET)
REF	REFERENCE
REQD	REQUIRED
REQMT	REQUIREMENTS
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	STORM DRAIN
SDN	STORM DRAIN NOZZLE
SHT	SHEET
SIM	SIMILAR
SLT	SEALANT
SOG	SLAB ON GRADE
SP	SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSD	SECONDARY STORM DRAIN
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
THK	THICK(-NESS)
TLT	TOILET
TOSL	TOP OF SLAB
TW	DOMESTIC TEMPERED WATER (90° F)
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VERT	VERTICAL
VTR	VENT THROUGH ROOF
W	WEST
W/	WITH
W/O	WITHOUT
WB	WATER HAMMER ARRESTER
WC	WATER CLOSET
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP

- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A — SECTION LETTER; P6.1 — DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 — ENLARGED PLAN NUMBER; P6.1 — DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 — DETAIL NUMBER; P6.1 — DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 — SANITARY RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 — DOMESTIC RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED

1 DETAIL TITLE
1/4"=1'-0"
P2.2 P6.2 P2.3 P2.4
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 SANITARY RISER DIAGRAM
1/4"=1'-0"
P2.2 P4.2 P2.3 P2.4
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 DOMESTIC RISER DIAGRAM
1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 FUEL GAS RISER DIAGRAM
1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS

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COMMONWEALTH OF VIRGINIA — DAVID T. WHATELY — Lic. No. 052209 — electronic PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS

DATE	DESCRIPTION

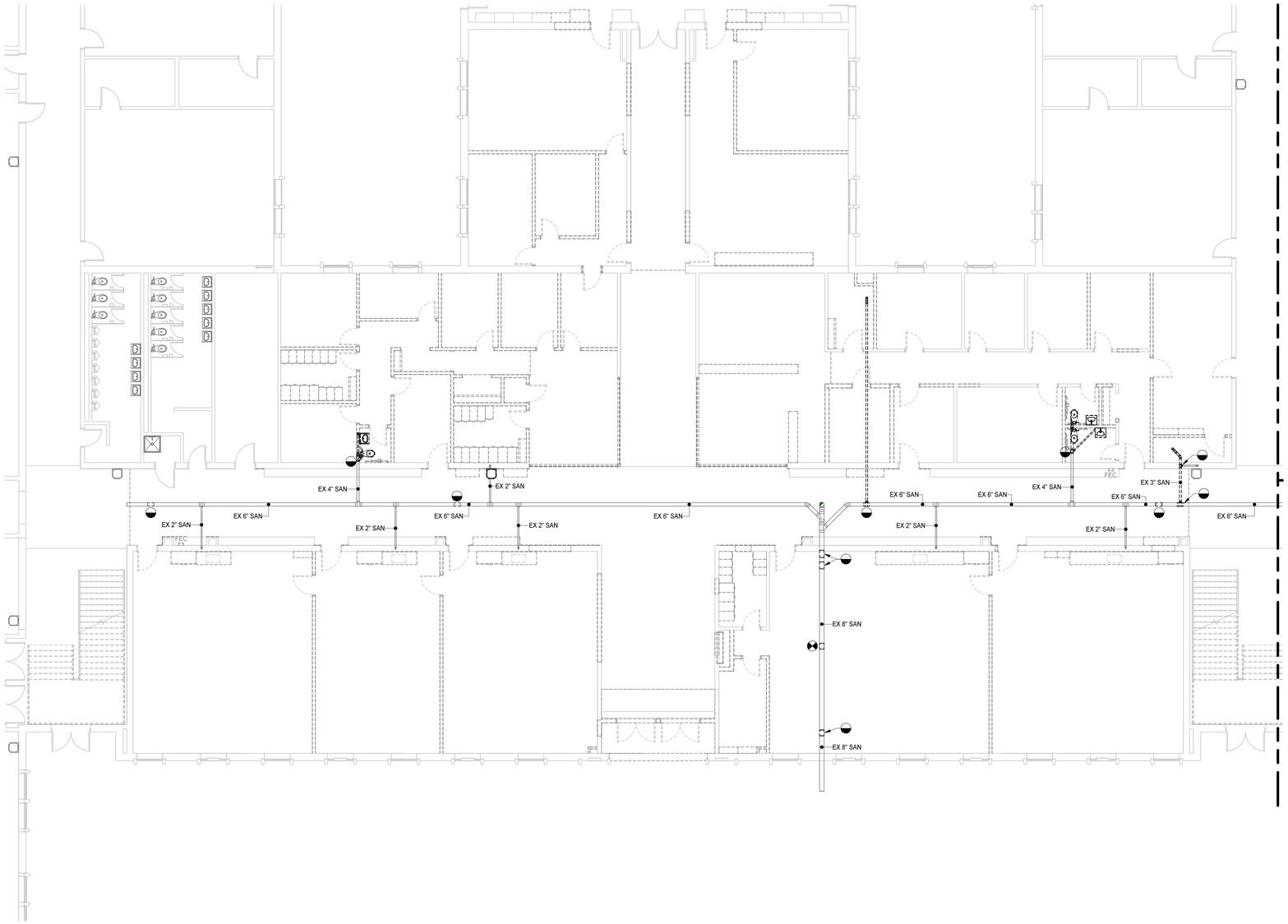
LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

6/30/2022 10:17:55 AM

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.
2. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE ANY SLAB CUTTING WITH FINISH FLOOR AREA PLANS.



FOUNDATION PLAN - DEMOLITION - PART A - PLUMBING

1/8" = 1'-0"

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N
KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
DATE: July 1, 2022

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FOUNDATION DEMOLITION PLAN - PART A - PLUMBING

P1.0.1

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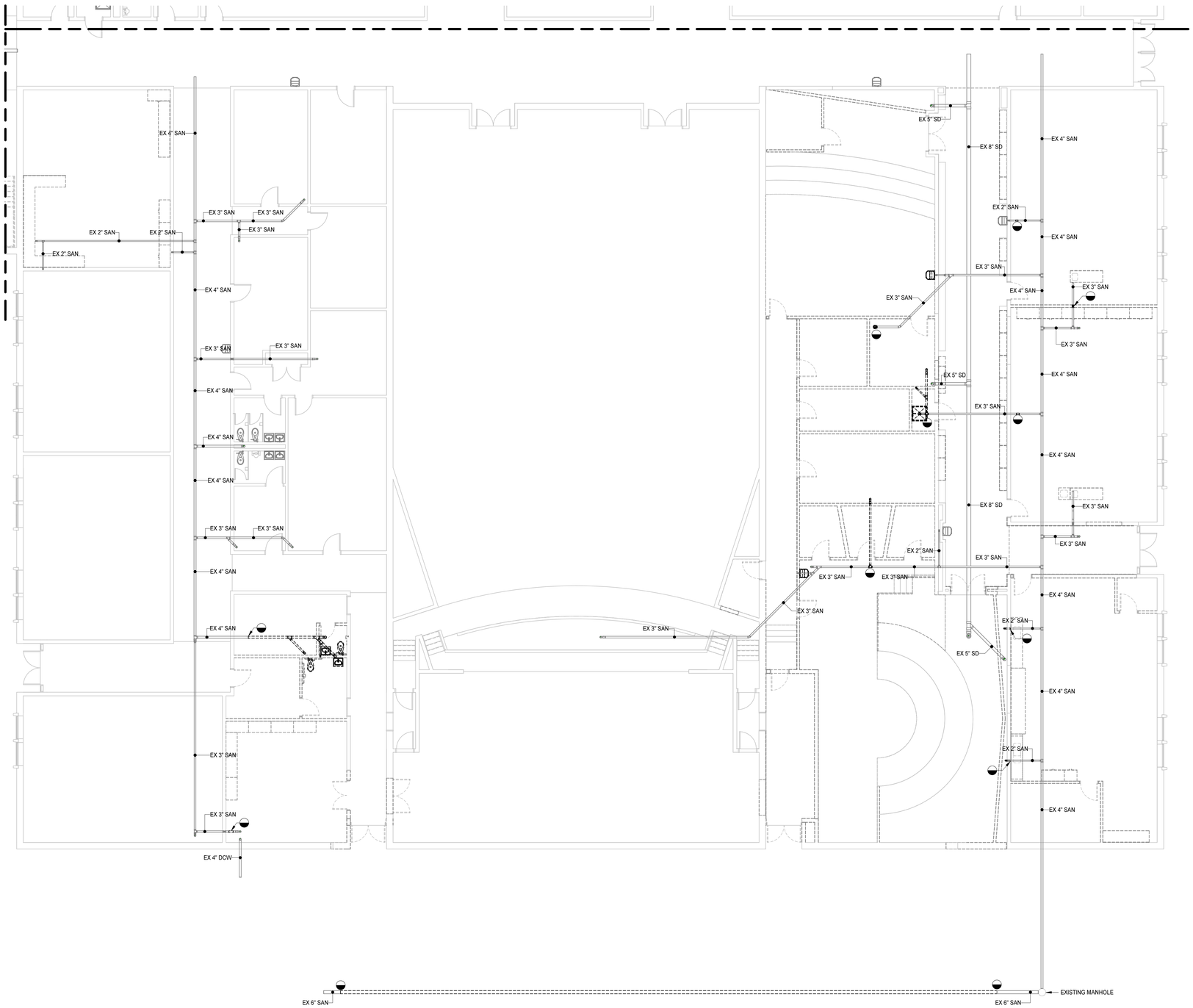
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.
2. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE ANY SLAB CUTTING WITH FINISH FLOOR AREA PLANS.



FOUNDATION PLAN - DEMOLITION - PART D - PLUMBING

1/8" = 1'-0"

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KEY PLAN

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FOUNDATION DEMOLITION PLAN - PART D - PLUMBING

P1.0.2

6/30/2022 10:17:57 AM

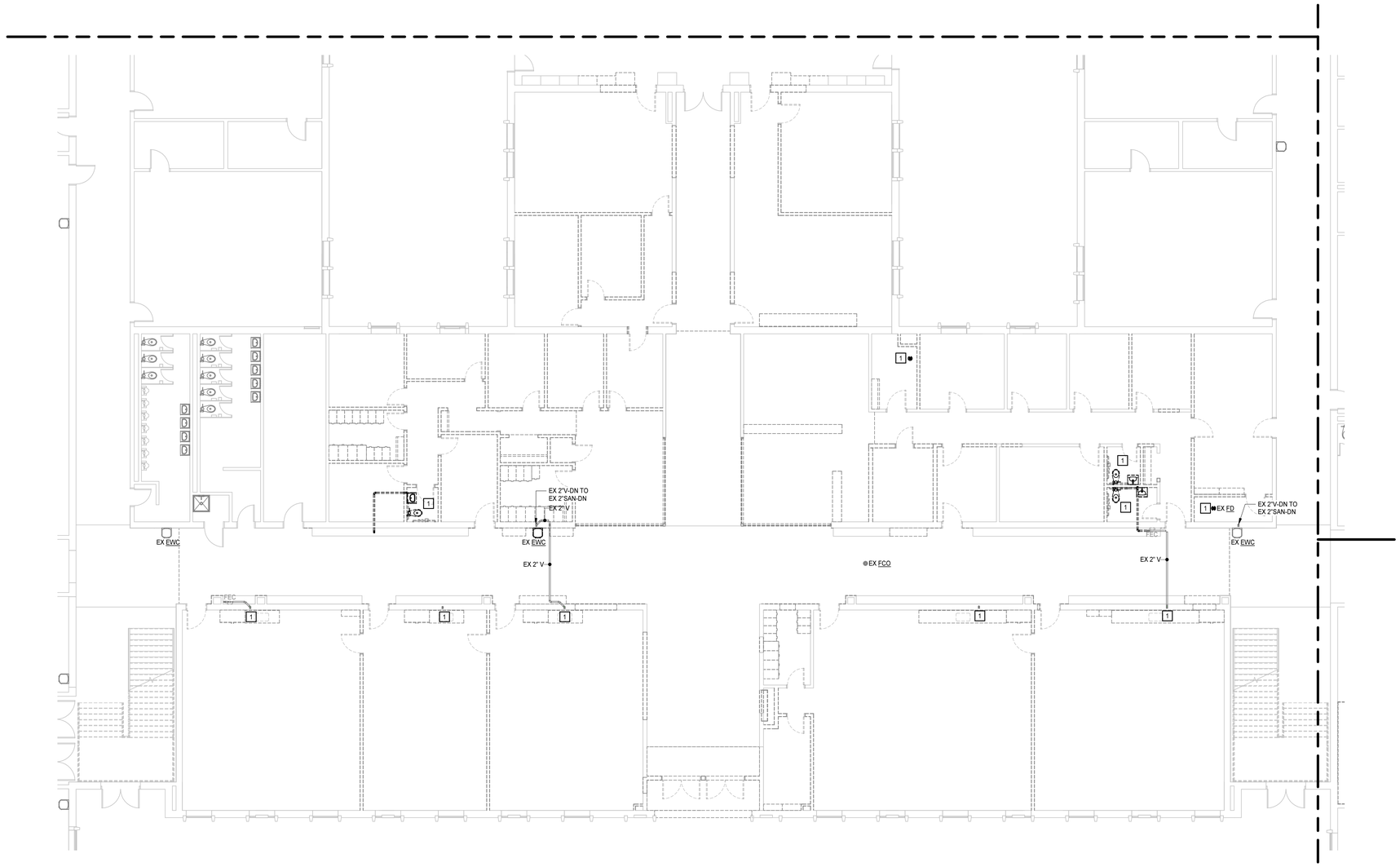
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P1.1.1
REPRESENTED BY: n

1. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPINGS, FITTINGS, AND ACCESSORIES COMPLETE WHERE APPLICABLE. PIPES BELOW THE FLOOR THAT ARE NOT BEING RE-USED AS PART OF THE RENOVATION EFFORT SHALL BE ABANDONDED IN PLACE AND CAPPED WITH WALL OR FLOOR CLEANOUT. REMOVE ALL DOMESTIC WATER, SANITARY, AND VENT PIPES BACK TO WALL OR FLOOR. VALVE AND CAP OR PREPARE FOR NEW CONNECTIONS AS NEEDED.



FIRST FLOOR PLAN - DEMOLITION - PART A - SANITARY
1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN - PART A - SANITARY

P1.1.1

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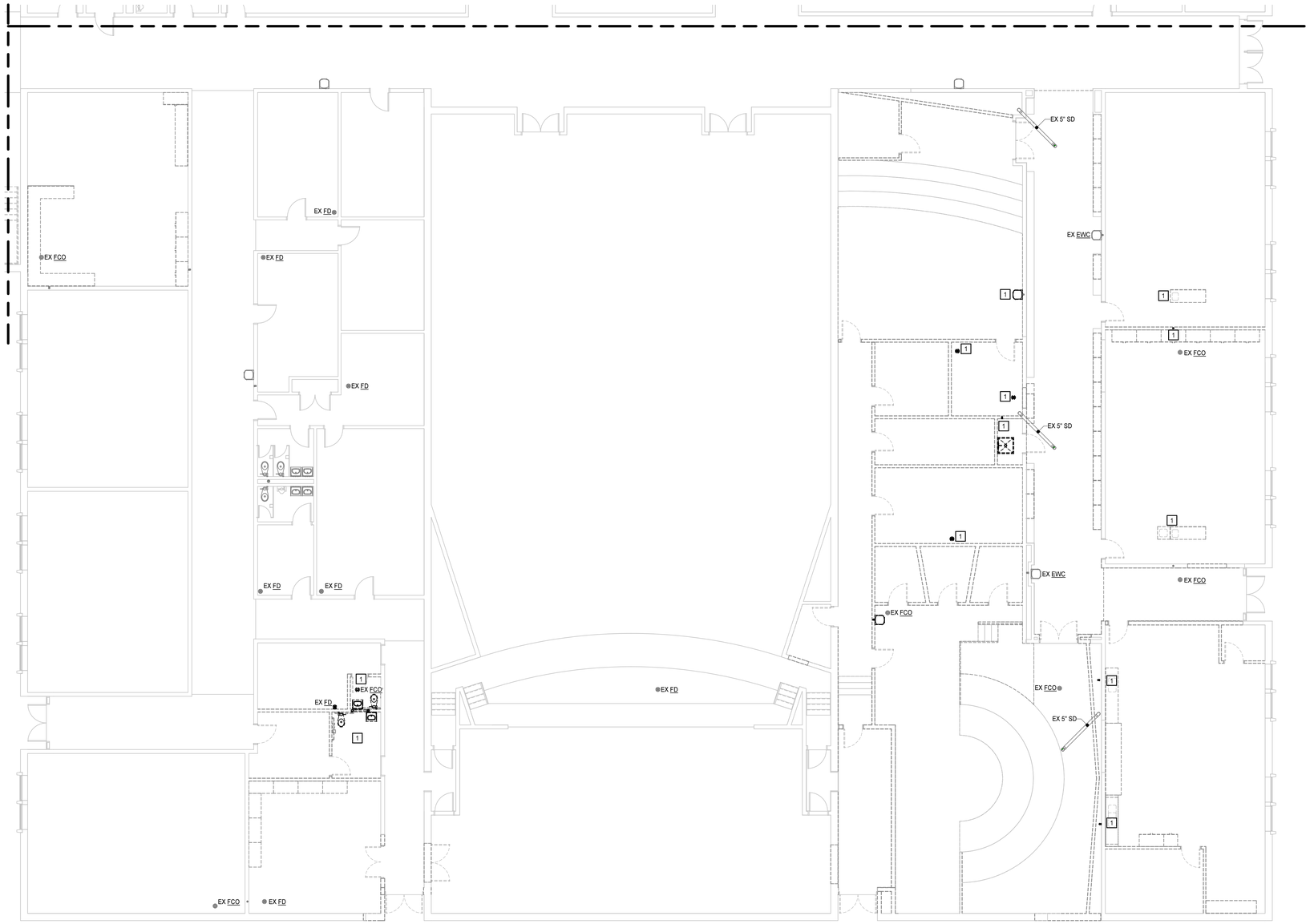
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P1.1.2
REPRESENTED BY n

1. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPINGS, FITTINGS, AND ACCESSORIES COMPLETE WHERE APPLICABLE. PIPES BELOW THE FLOOR THAT ARE NOT BEING RE-USED AS PART OF THE RENOVATION EFFORT SHALL BE ABANDONDED IN PLACE AND CAPPED WITH WALL OR FLOOR CLEANOUT. REMOVE ALL DOMESTIC WATER, SANITARY, AND VENT PIPES BACK TO WALL OR FLOOR. VALVE AND CAP OR PREPARE FOR NEW CONNECTIONS AS NEEDED.



FIRST FLOOR PLAN - DEMOLITION - PART D - SANITARY
1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN - PART D - SANITARY

P1.1.2

6/30/2022 10:18:00 AM

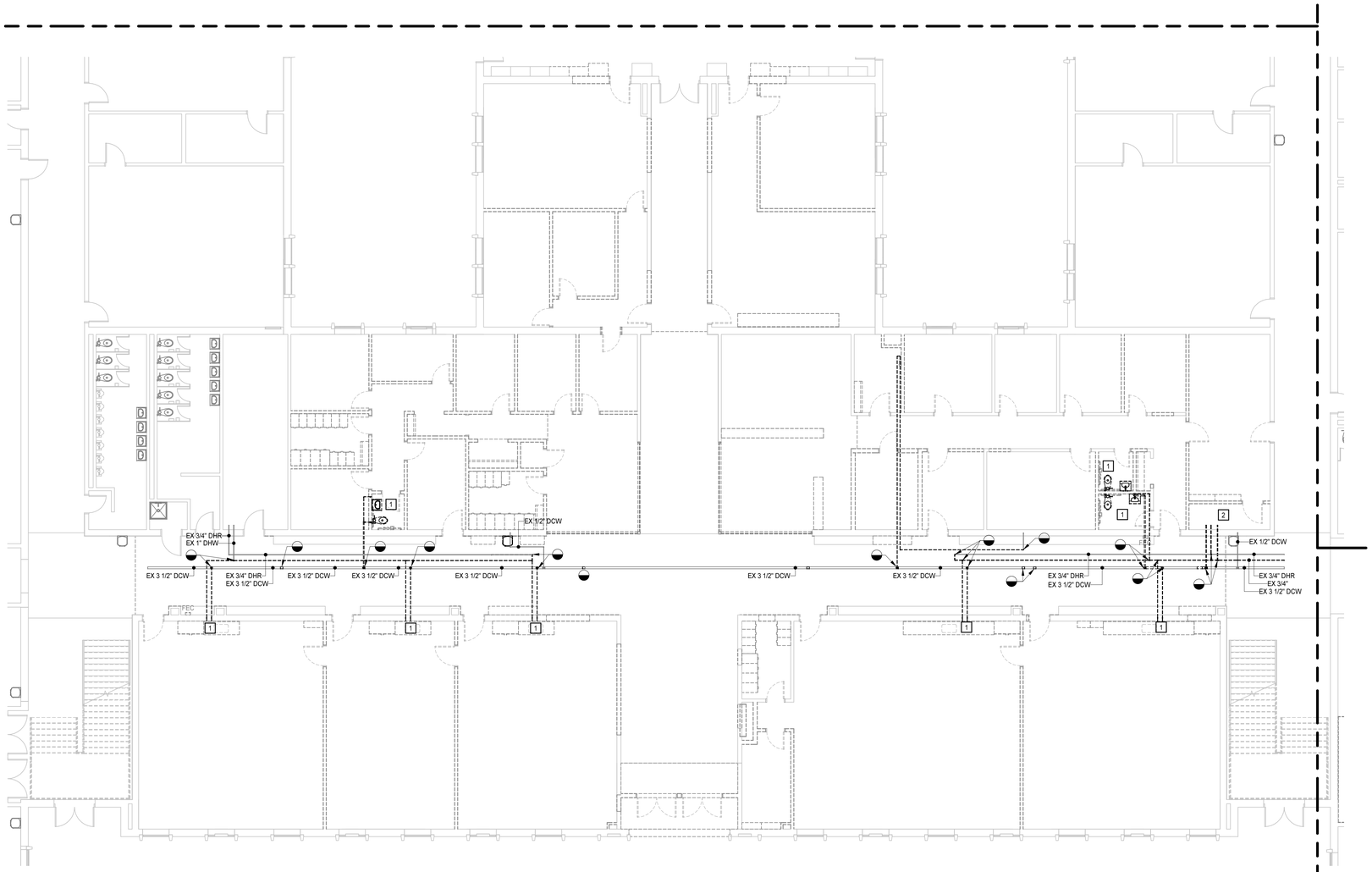
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P1.1.3
REPRESENTED BY n

1. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPINGS, FITTINGS, AND ACCESSORIES COMPLETE WHERE APPLICABLE. PIPES BELOW THE FLOOR THAT ARE NOT BEING RE-USED AS PART OF THE RENOVATION EFFORT SHALL BE REMOVED. REMOVE ALL DOMESTIC WATER, SANITARY, AND VENT PIPES BACK TO WALL OR FLOOR. VALVE AND CAP OR PREPARE FOR NEW CONNECTIONS AS NEEDED.
2. REMOVE EXISTING DOMESTIC WATER HEATER AND ACCESSORIES COMPLETE BACK TO WALL OR FLOOR AND PREPARE FOR DOMESTIC WATER HEATER RELOCATION AND NEW CONNECTIONS.



FIRST FLOOR PLAN - DEMOLITION - PART A - DOMESTIC
1/8" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
DATE: July 1, 2022

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DATE	DESCRIPTION

FIRST FLOOR DEMOLITION PLAN - PART A - DOMESTIC

P1.1.3

6/30/2022 10:18:01 AM

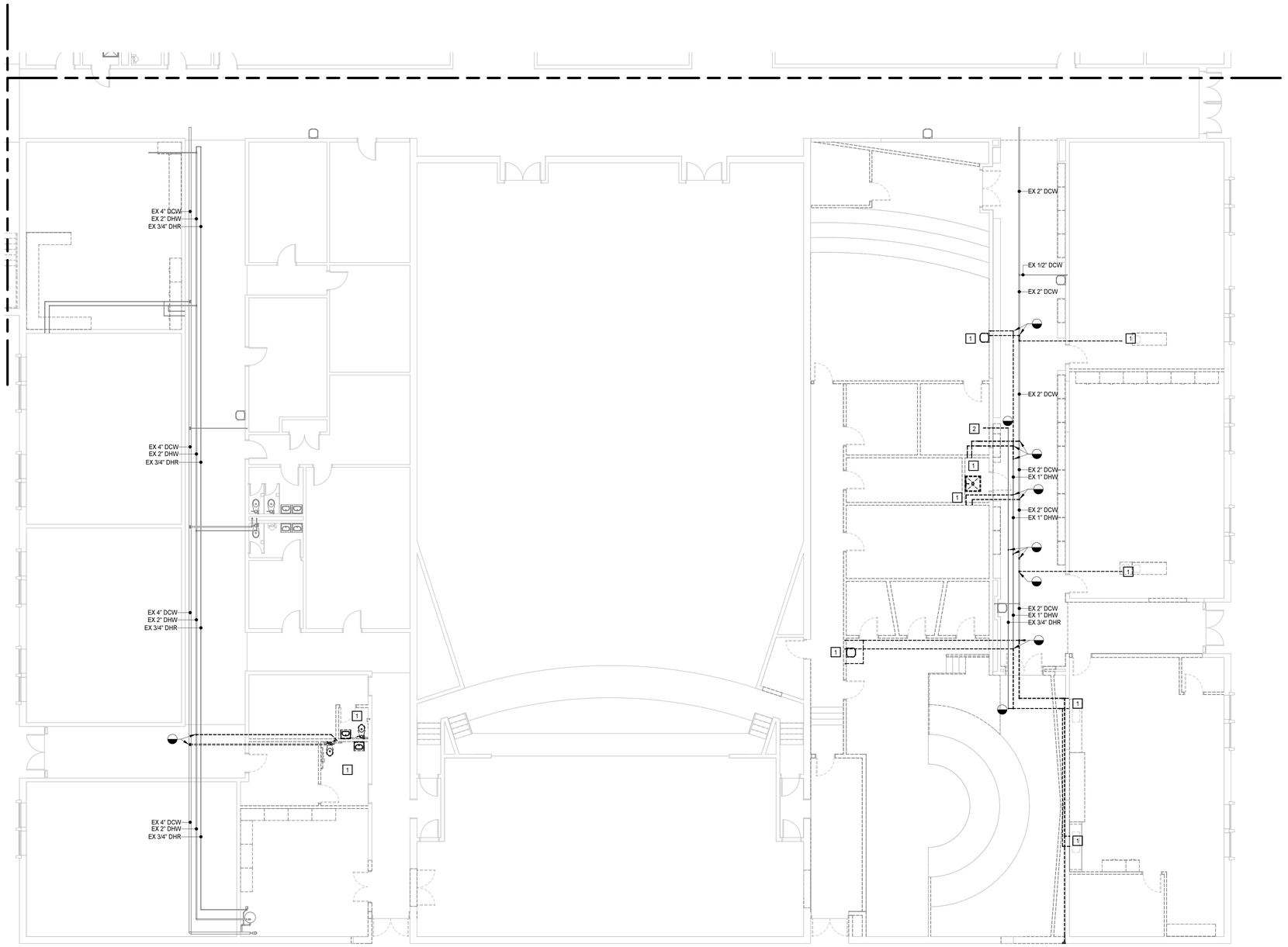
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P1.1.4
REPRESENTED BY n

1. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPINGS, FITTINGS, AND ACCESSORIES COMPLETE WHERE APPLICABLE. REMOVE ALL DOMESTIC WATER, SANITARY, AND VENT PIPES BACK TO WALL OR FLOOR. VALVE AND CAP OR PREPARE FOR NEW CONNECTIONS AS NEEDED.
2. REMOVE EXISTING DOMESTIC WATER HEATER AND ACCESSORIES COMPLETE BACK TO WALL OR FLOOR AND PREPARE FOR DOMESTIC WATER HEATER RELOCATION AND NEW CONNECTIONS.



FIRST FLOOR PLAN - DEMOLITION - PART D - DOMESTIC
1/8" = 1'-0"

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KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
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DATE	DESCRIPTION

FIRST FLOOR DEMOLITION PLAN - PART D - DOMESTIC

P1.1.4

6/30/2022 10:18:03 AM

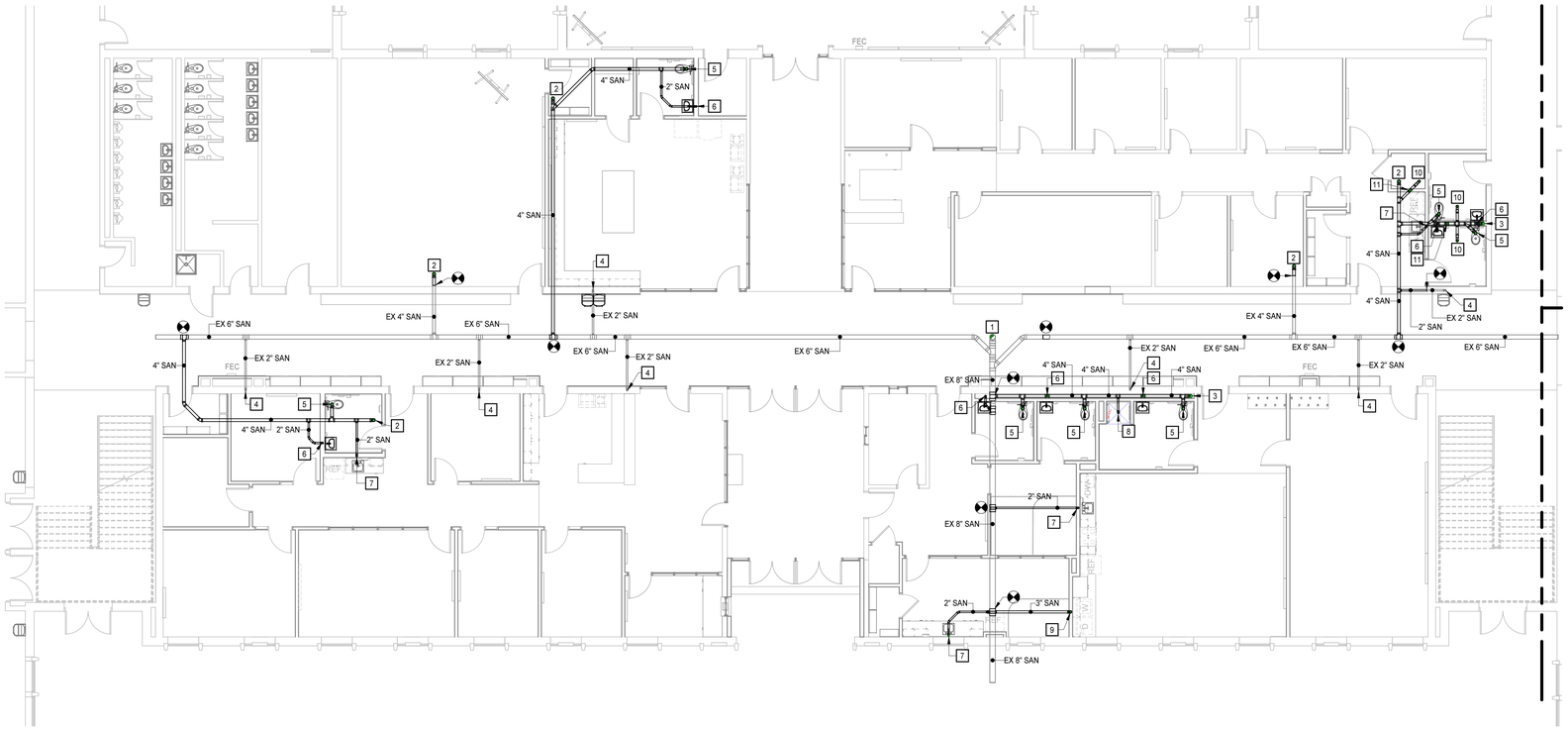
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.
2. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE ANY SLAB CUTTING WITH FINISH FLOOR AREA PLANS.

KEYNOTES

APPLIES TO DRAWINGS P2.0.1
REPRESENTED BY [n]

1. EX SAN-UP TO EX FLOOR CLEANOUT.
2. SAN-UP TO FLOOR CLEANOUT.
3. SAN-UP TO WALL CLEANOUT.
4. EX 2"SAN-UP.
5. 4"SAN-UP TO WATER CLOSET.
6. 2"SAN-UP TO LAVATORY.
7. 2"SAN-UP TO SINK.
8. 2"SAN PTRAP-UP TO SHOWER.
9. 3"SAN-UP TO WASHER BOX.
10. 3"SAN PTRAP-UP TO FLOOR DRAIN.
11. 2"V-UP



FOUNDATION PLAN - PART A - PLUMBING
1/8" = 1'-0"

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KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

FOUNDATION PLAN - PART A - PLUMBING

P2.0.1

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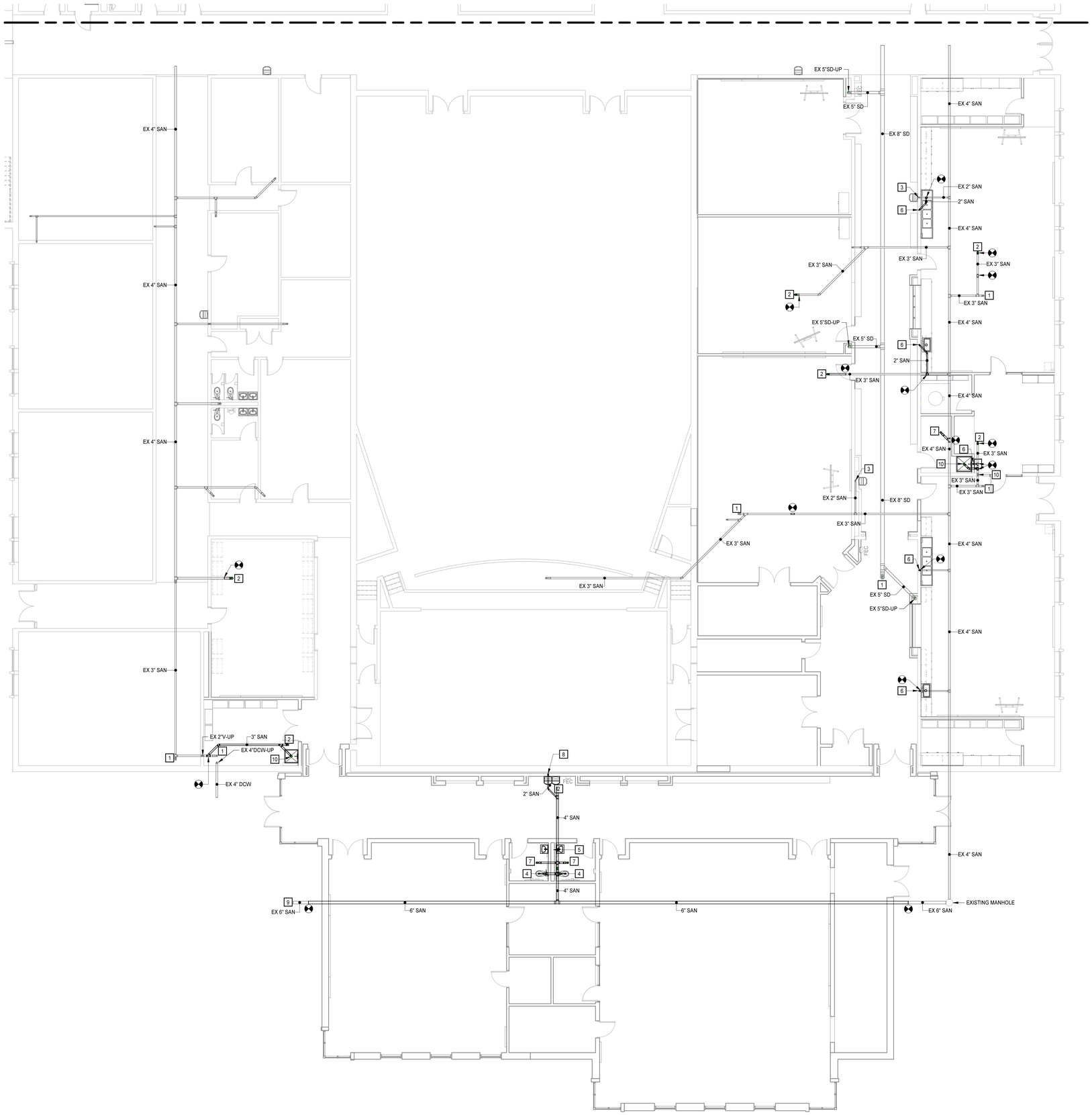

FOUNDATION PLAN - PART D - PLUMBING

1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.
2. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE ANY SLAB CUTTING WITH FINISH FLOOR AREA PLANS.

KEYNOTES

APPLIES TO DRAWINGS P2.0.2
REPRESENTED BY: n

1. EX SAN-UP TO EX FLOOR CLEANOUT.
2. SAN-UP TO FLOOR CLEANOUT.
3. EX 2"SAN-UP TO EX DRINKING FOUNTAIN.
4. 4"SAN-UP TO WATER CLOSET.
5. 2"SAN-UP TO LAVATORY.
6. 2"SAN-UP TO SINK.
7. 3"SAN PTRAP-UP TO FLOOR DRAIN.
8. 2"SAN-UP TO DRINKING FOUNTAIN.
9. EXISTING SANITARY MAIN. REFER TO CIVIL FOR CONTINUATION.
10. 3"SAN-UP TO MOP BASIN.
11. EXISTING 2"V-UP.

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KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
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FOUNDATION PLAN - PART D - PLUMBING

P2.0.2

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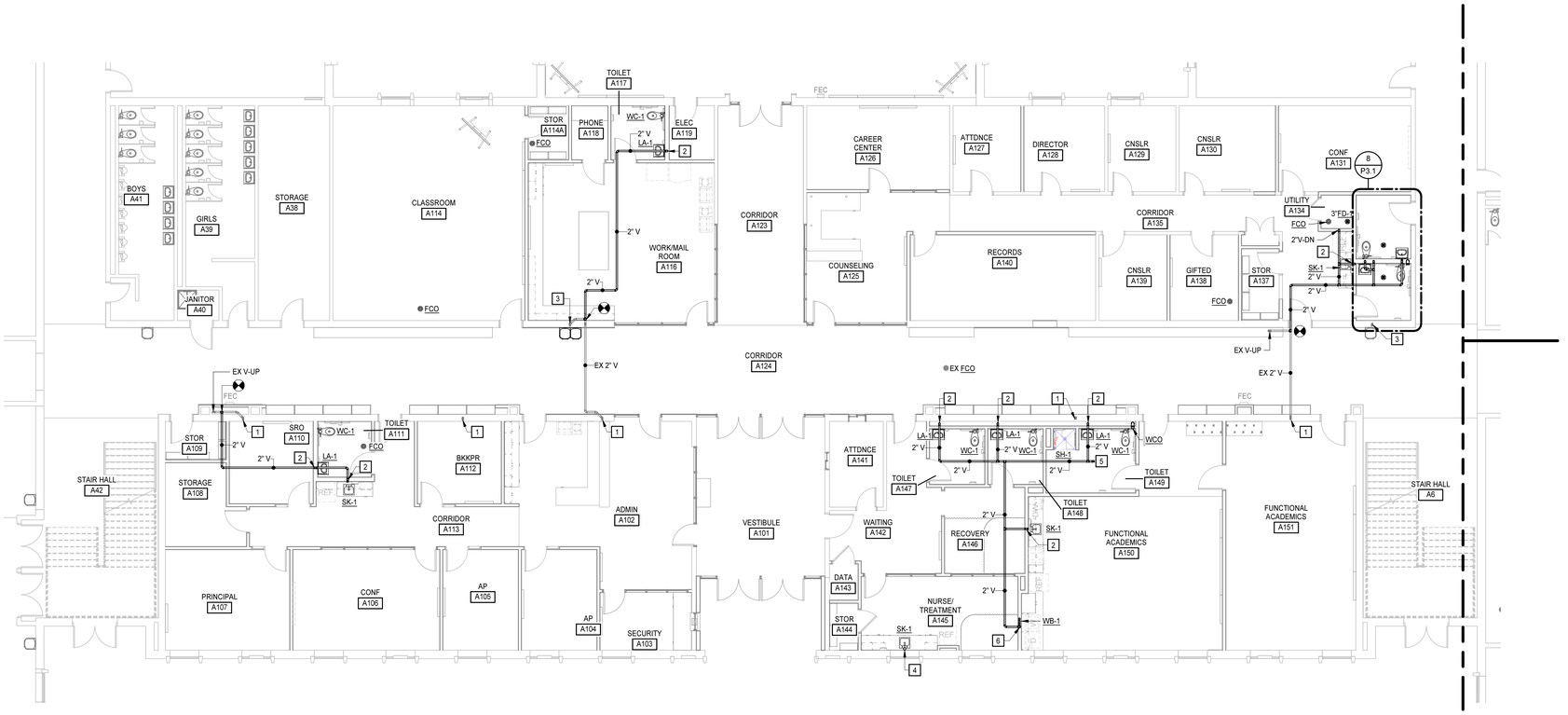
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P2.1.1
REPRESENTED BY n

1. EXISTING SINK TO BE REMOVED. EXISTING SANITARY AND VENT LINES TO REMAIN IN PLACE AND CAPPED WITH WALL CLEANOUT.
2. 2"V-DN TO 2"SAN-DN.
3. EXISTING 2"V-DN TO EX 2"SAN-DN.
4. 2"AIR ADMITTANCE VALVE-DN TO 2"V-DN.
5. 2"V-UP TO 2"VTR.
6. 2"V-DN TO 3"SAN-DN.



FIRST FLOOR PLAN - PART A - SANITARY
1/8" = 1'-0"

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DAVID T. WHATELY
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PROFESSIONAL ENGINEER

N
KEY PLAN

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
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FIRST FLOOR PLAN - PART A - SANITARY

P2.1.1

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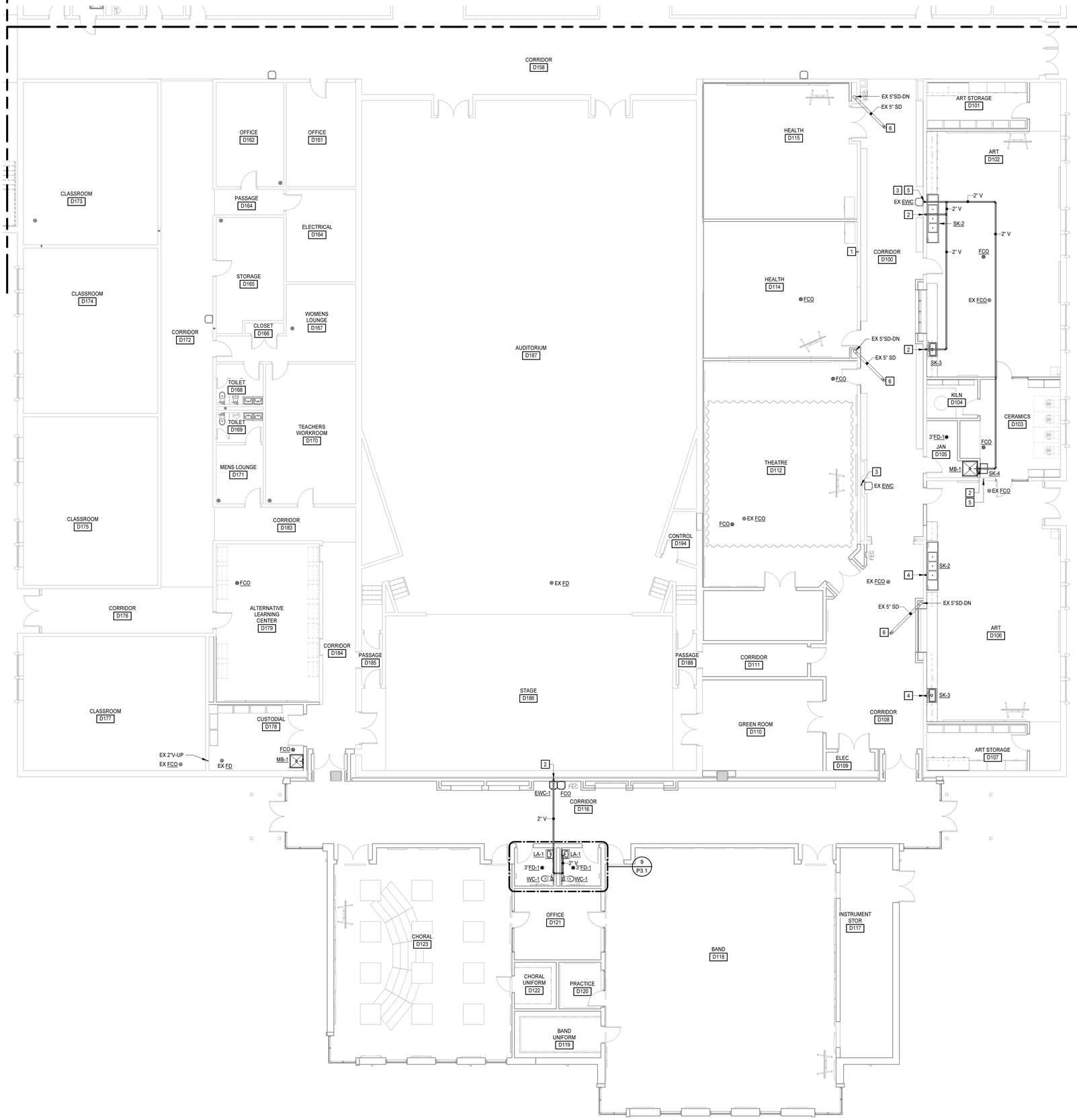

FIRST FLOOR PLAN - PART D - SANITARY

1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P2.1.2
REPRESENTED BY n

1. EXISTING SINK TO BE REMOVED. EXISTING SANITARY AND VENT LINES TO REMAIN IN PLACE AND CAPPED WITH WALL CLEANOUT.
2. 2"V-DN TO 2"SAN-DN.
3. EXISTING 2"V-DN TO EX 2"SAN-DN
4. 2"V-DN TO 2"SAN-DN. 2"V-UP TO 2"VTR.
5. EX 2"V-UP TO EX 2"VTR.
6. EX 5"SD-UP TO EXISTING ROOF DRAIN.

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FIRST FLOOR PLAN - PART D - SANITARY

P2.1.2

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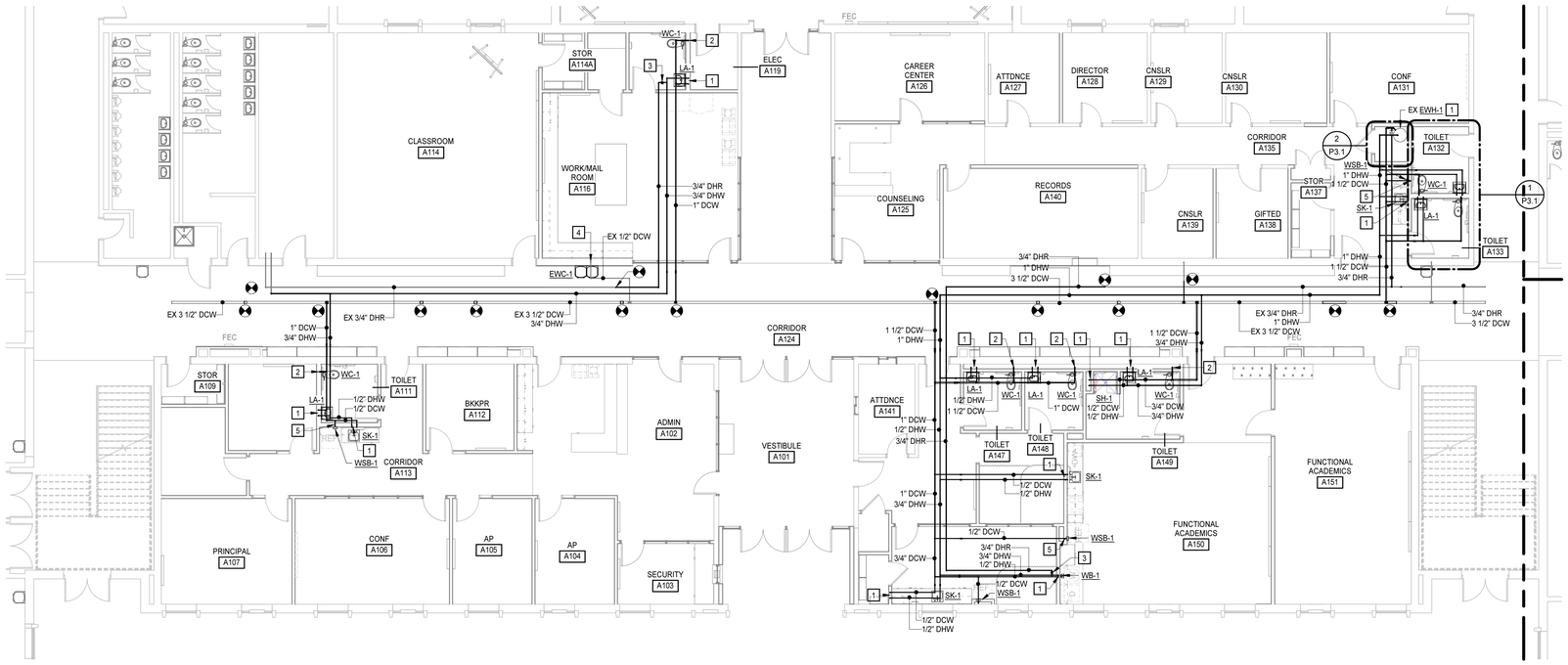
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P2.1.3
REPRESENTED BY n

1. 1/2"DCW & 1/2"DHW-DN.
2. 1"DCW-DN.
3. CALIBRATED BALANCING VALVE SET AT 0.50 GPM.
4. EX 1/2"DCW-DN.
5. 1/2"DCW-DN.



FIRST FLOOR PLAN - PART A - DOMESTIC
1/8" = 1'-0"

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FIRST FLOOR PLAN - PART A - DOMESTIC

P2.1.3

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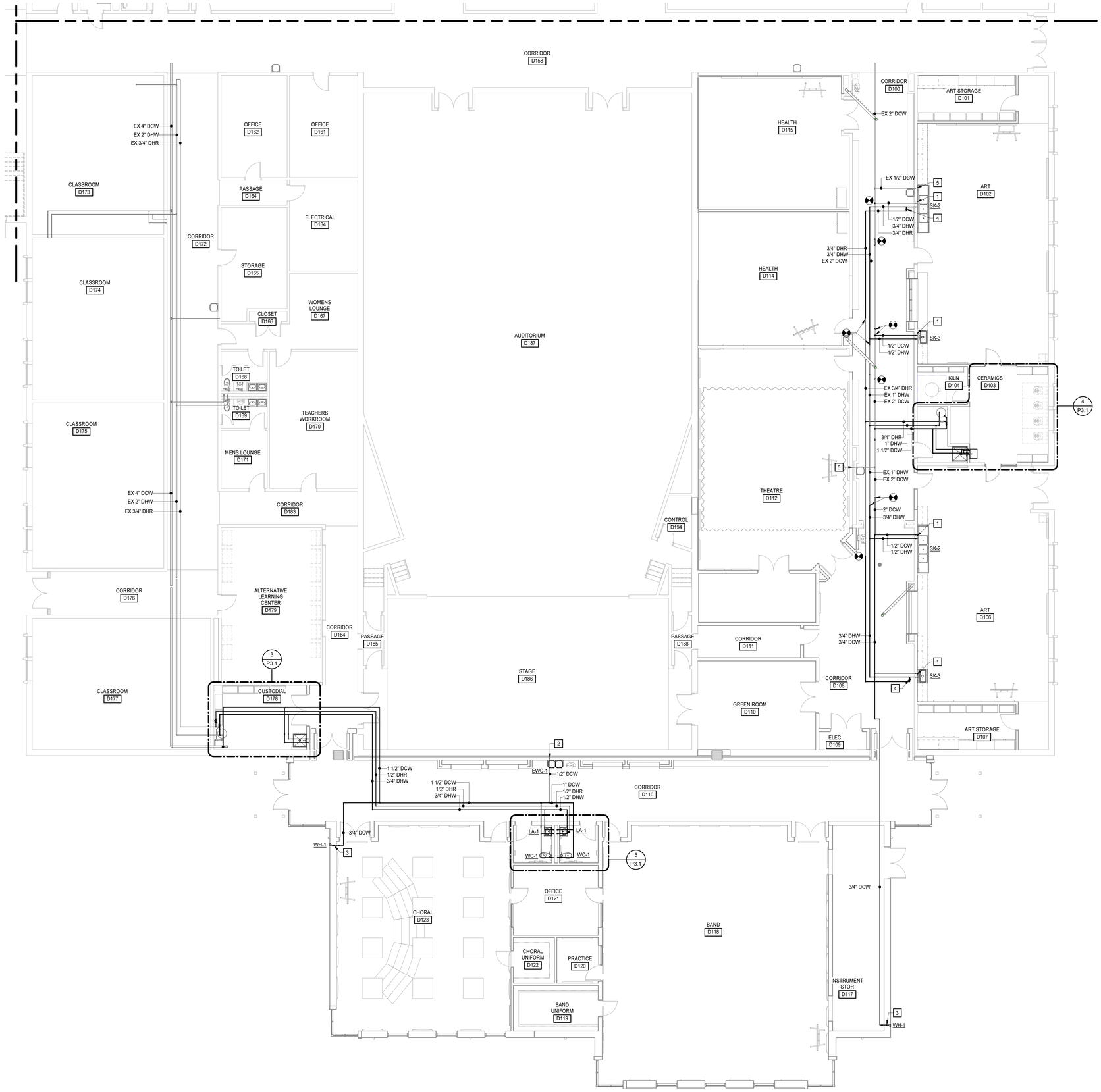

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING FIELD CONDITIONS PRIOR TO BEGINNING ANY DEMOLITION WORK. PROTECT ANY AND ALL EQUIPMENT, PIPING AND ACCESSORIES NOT BEING DEMOLISHED DURING DEMOLITION. PATCH AND REPAIR ANY DAMAGE TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO DEMOLITION.

KEYNOTES

APPLIES TO DRAWINGS P2.1.4
REPRESENTED BY n

1. 1/2"DCW & 1/2"DHW-DN.
2. 1/2"DCW-DN.
3. 3/4"DCW-DN.
4. CALIBRATED BALANCING VALVE SET AT 0.50 GPM.
5. EX 1/2"DCW-DN.

FIRST FLOOR PLAN - PART D - DOMESTIC
1/8" = 1'-0"

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FIRST FLOOR PLAN - PART D - DOMESTIC

P2.1.4

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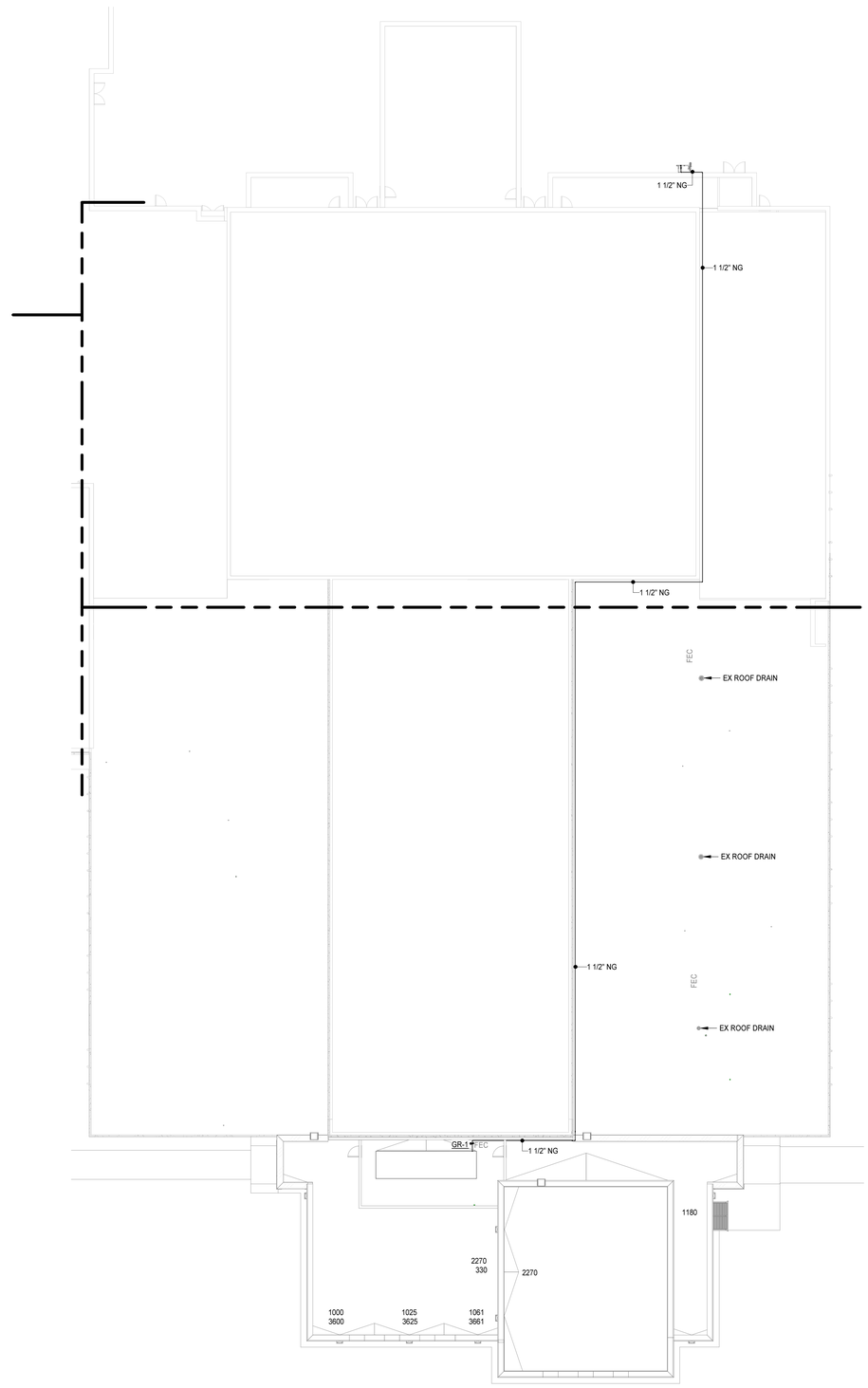

ROOF PLAN - PART C & D - PLUMBING

1/16" = 1'-0"

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KEY PLAN

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ROOF PLAN - PART C & D - PLUMBING

P2.2.1

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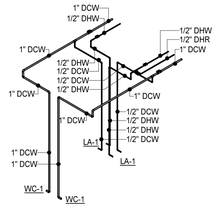
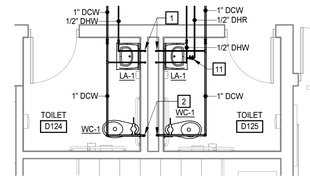


DOMESTIC RISER DIAGARM - BATHROOM GROUP - PART D

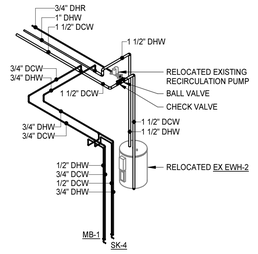


5 P2.1.4 P3.1 **ENLARGED BATHROOM GROUP - PART D - DOMESTIC**
1/4" = 1'-0"

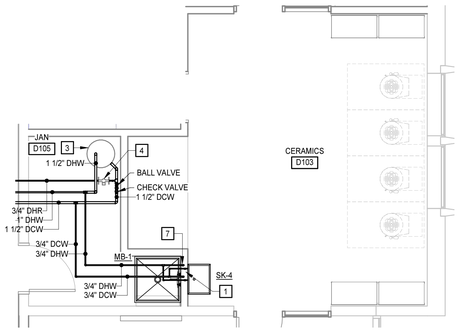
KEYNOTES

APPLIES TO DRAWINGS P3.1
REPRESENTED BY n

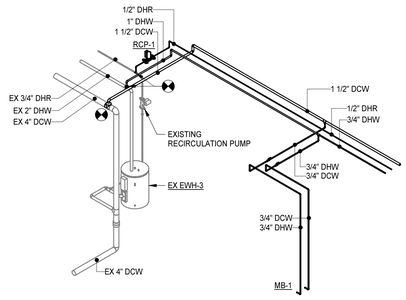
1. 1/2"DCW AND 1/2"DHW-DN.
2. 1"DCW-DN.
3. RELOCATED EXISTING WATER HEATER TO BE USED WITH NEW DOMESTIC WATER CONNECTIONS.
4. RELOCATED EXISTING RECIRCULATION PUMP TO BE USED WITH NEW DOMESTIC WATER CONNECTIONS.
5. 1"DHW-DN TO WATER HEATER.
6. 1"DCW-DN TO WATER HEATER.
7. 3/4"DCW-DN AND 3/4"DHW-DN TO MOP BASIN.
8. EXISTING WATER HEATER TO REMAIN.
9. EXISTING RECIULATION PUMP TO REMAIN.
10. EXISTING DOMESTIC WATER SERVICE ENTRANCE.
11. CALIBRATED BALANCING VALVE SET AT 0.50GPM.



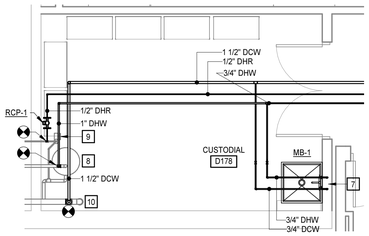
DOMESTIC RISER DIAGRAM - JAN D105 - PART D



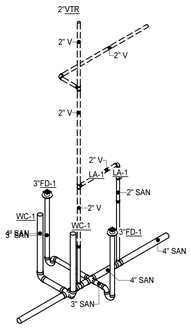
4 P2.1.4 P3.1 **ENLARGED JAN D105 - PART D - DOMESTIC**
1/4" = 1'-0"



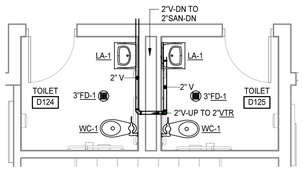
DOMESTIC RISER DIAGRAM - CUSTODIAL D178 - PART D



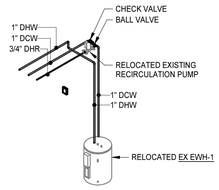
3 P2.1.4 P3.1 **ENLARGED CUSTODIAL D178 - PART D - DOMESTIC**
1/4" = 1'-0"



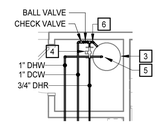
SANITARY RISER DIAGRAM - BATHROOM GROUP - PART D



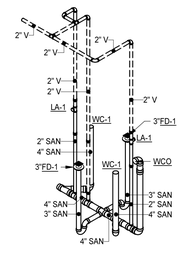
9 P2.1.2 P3.1 **ENLARGED BATHROOM GROUP - PART D - SANITARY**
1/4" = 1'-0"



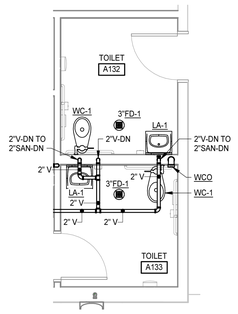
DOMESTIC RISER DIAGRAM - UTILITY ROOM - PART A



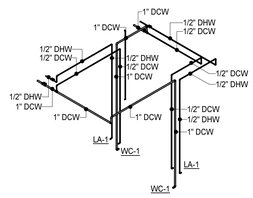
2 P2.1.3 P3.1 **ENLARGED UTILITY ROOM - PART A - DOMESTIC**
1/4" = 1'-0"



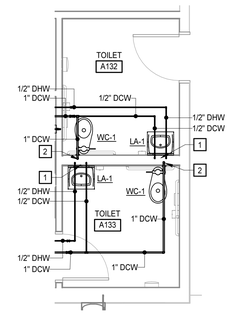
SANITARY RISER DIAGARM - BATHROOM GROUP - PART A



8 P2.1.1 P3.1 **ENLARGED BATHROOM GROUP - PART A - SANITARY**
1/4" = 1'-0"



DOMESTIC RISER DIAGRAM - BATHROOM GROUP - PART A



1 P2.1.3 P3.1 **ENLARGED BATHROOM GROUP - PART A - DOMESTIC**
1/4" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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ENLARGED PLANS & RISERS

P3.1

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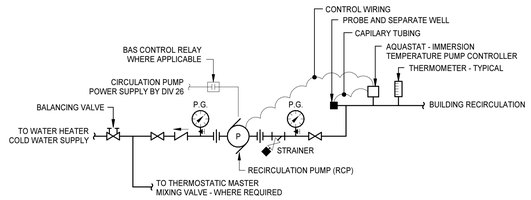
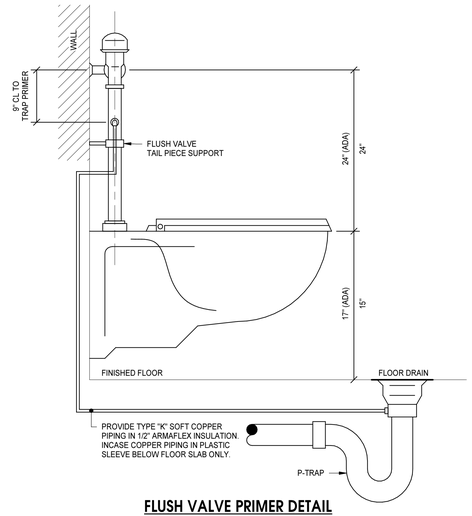
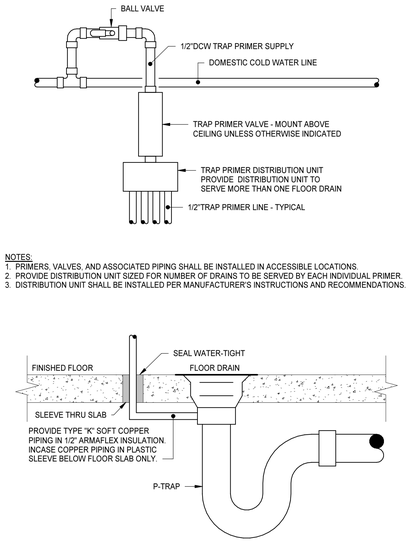


CIRCULATION PUMP DETAIL

12" = 1'-0"

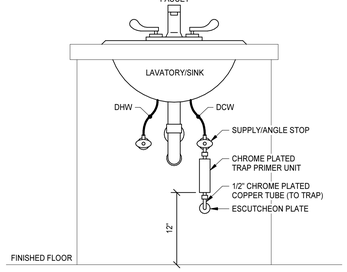


FLUSH VALVE PRIMER DETAIL

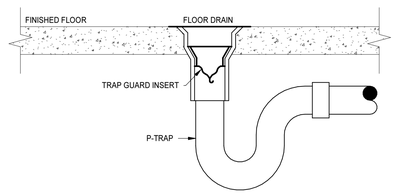


NOTES:
1. PRIMERS, VALVES, AND ASSOCIATED PIPING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
2. PROVIDE DISTRIBUTION UNIT SIZED FOR NUMBER OF DRAINS TO BE SERVED BY EACH INDIVIDUAL PRIMER.
3. DISTRIBUTION UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

MECHANICAL PRIMER DETAIL



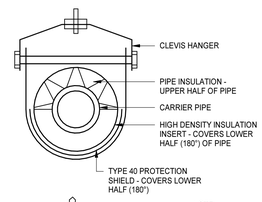
UNDER-LAV/SINK TRAP PRIMER DETAIL

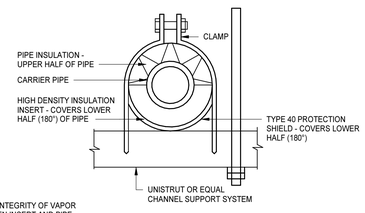


TRAP GUARD INSERT DETAIL

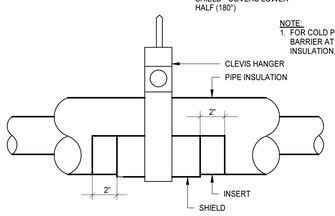
TRAP PRIMER ASSEMBLY DETAILS

NO SCALE

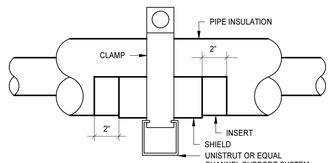




NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.



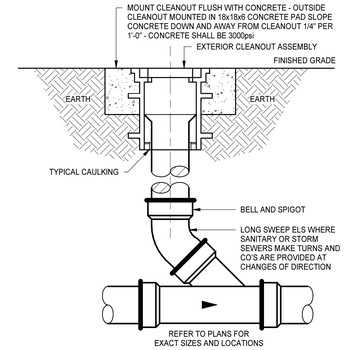
CLEVIS HANGER



TRAPEZE SYSTEM

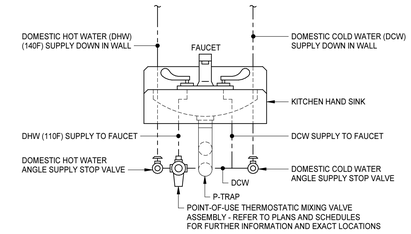
PIPE SUPPORT AND THERMAL SHIELD DETAILS

NO SCALE



EXTERIOR YARD CLEANOUT DETAIL

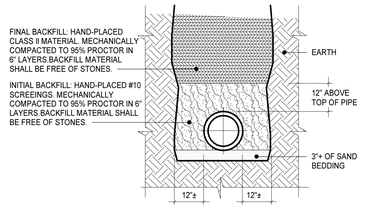
NO SCALE



FINISHED FLOOR

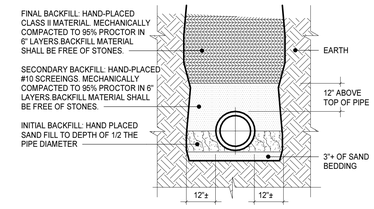
KITCHEN HAND SINK DETAIL

NO SCALE



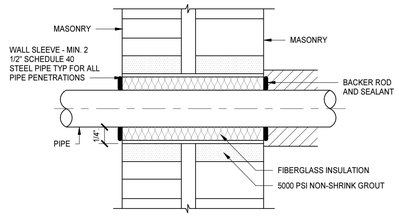
CAST IRON PIPE BEDDING DETAIL

NO SCALE



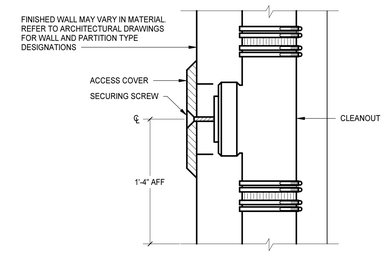
PVC PIPE BEDDING DETAIL

NO SCALE



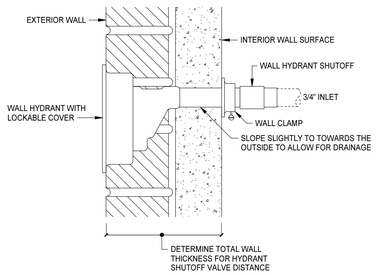
PIPE SLEEVE DETAIL

NO SCALE



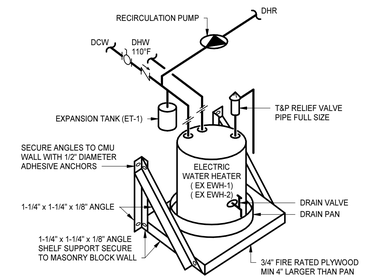
WALL CLEANOUT DETAIL

NO SCALE



EXTERIOR WALL HYDRANT DETAIL

NO SCALE



WALL MOUNTED ELECTRIC WATER HEATER DETAIL

NO SCALE

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE					NOTES
				COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	
EWC-1	BI-LEVEL WATER COOLER WITH BOTTLE FILLING STATION	TOP OF BUBBLER AT 39", LOWER AT 34"	FIXTURE: ELKAY LZSTL8WSSP	1/2"			1-1/2"	1-1/2"	1
LA-1	CARRIER-HUNG LAVATORY (ACCESSIBLE)	RIM AT 34"	FIXTURE: ZURN Z5310 FAUCET: ZURN 81101XL-G-HCT-25M	1/2"		1/2"	1-1/2"	1-1/2"	1, 3
HB-1	HOSE BIBB - LOOSE-KEY OPERATED	CENERLINE OF OUTLET AT 18"	FIXTURE: ZURN Z1333XL	3/4"					
MB-1	SERVICE BASIN (32"x32")	RIM AT 12"	FIXTURE: FIAT TSB3001 FAUCET: ZURN Z843M4-XL-CS-HCT	3/4"		3/4"	2"	3"	
SH-1	INDIVIDUAL SHOWER WITH SEAT (ACCESSIBLE)	CONTROLS AT 42" SHOWERHEAD AT 78"	ENCLOSURE: BEST BATH 4LSS3838FBST VALVE: ZURN Z7301-SS-MT-DV2P-HW-H9-S9	1/2"		1/2"	1-1/2"	1-1/2"	1, 4
SK-1	KITCHENETTE SINK (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ-221955 FAUCET: ZURN Z82300-XL-CP4-3M	1/2"		1/2"	1-1/2"	1-1/2"	1, 3, 5, 6
SK-2	THREE COMPARTMENT CLASSROOM SINK	RIM AT 36"	FIXTURE: ELKAY STURDIBILT SS8372LR FAUCET: ZURN Z812H2-XL-TWM	1/2"		1/2"	1-1/2"	1-1/2"	1, 3, 5, 6
SK-3	ART ROOM SINK (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ-221955 FAUCET: ZURN Z812C1-XL-HCT-3F	1/2"		1/2"	1-1/2"	1-1/2"	1, 3, 5, 6
SK-4	STAINLESS STEEL UTILITY SINK	RIM AT 36"	FIXTURE: ELKAY WNSF81302 FAUCET: ZURN Z842H-XL-HCT-3F	1/2"		1/2"	1-1/2"	1-1/2"	3, 6
WB-1	WASHER BOX CONNECTION	BOTTOM AT 42"	FIXTURE: GUYGRAY WB200HATM	1/2"		1/2"	2"	2"	
WC-1	FLOOR MOUNTED WATER CLOSET (ACCESSIBLE)	TOP OF SEAT 17"	FIXTURE: ZURN Z5665-BWL-AM VALVE: ZURN Z6000AV-HET SEAT: ZURN Z5950SS-EL-AM-STS	1"			2"	4"	1, 2
WH-1	WALL HYDRANT (FREEZE-RESISTANT)	CENTERLINE OF OUTLET AT 18"	FIXTURE: ZURN Z1320XL-CL-WC	3/4"					
WSB-1	WATER SUPPLY BOX	BOTTOM AT 8"	FIXTURE: GUYGRAY BIM875QTSAB	1/2"					

NOTES:

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE VUSBC AND ASAD 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.
3. PROVIDE ASSE 1070 CERTIFIED MIXING VALVE IN STAINLESS STEEL WALL CABINET ABOVE CEILING.
4. PROVIDE ASSE 1016 CERTIFIED MIXING VALVE.
5. PROVIDE DISHWASHER HOOKUP WHERE DISHWASHER IS PRESENT, CONNECT HW IN SINK BASE AND CONNECT SANITARY THROUGH AIR GAP FITTING INTO DISHWASHER TAIL PIECE SINK DRAIN.
6. PROVIDE PLASTER/SOLIDS INTERCEPTOR (SS-1) FOR ALL ART ROOMS. PROVIDE POP-UP DRAIN FOR ALL ART ROOMS.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
FD-1	ZURN	Z415B-P	6" ROUND	1, 2
FCO	ZURN	ZN1400	FLOOR	
GCO	ZURN	Z1474	GRADE	
WCO	ZURN	Z1446	WALL	

1. PROVIDE TRAP PRIMER CONNECTION AND EXTENSION SEE DETAIL.
2. PROVIDE FLUSH TUBE TRAP PRIMERS FOR ALL FLOOR DRAINS IN GROUP BATHROOMS.

ELECTRIC WATER HEATER SCHEDULE (EXISTING)

TAG	BASIS OF DESIGN		CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	THERMAL EFFICIENCY	ELECTRICAL DATA				TEMPERATURE SETTING (°F)	NOTES
	MANUFACTURER	MODEL					INPUT RATE	VOLTAGE	PHASE	HERTZ		
EX EWH-1	BRADFORD WHITE	RE230LN6	28	21	90	97%	6KW	208	1	60	120	1
EX EWH-2	STATE WATER HEATERS	PROLINE EN6-30-DORT 100	30	21	90	97%	6KW	208	1	60	120	1
EX EWH-3	RUUD	PE2S-30-2	30	21	90	97%	6KW	208	1	60	120	1

1. EXISTING WATER HEATER INFORMATION FOR REFERENCE PURPOSES ONLY.

PUMP SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA					ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FEET OF HEAD)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
RCP-1	GRUNDFOS	MAGNA3 40-80 F	CUSTODIAL D178	HOT WATER RECIRCULATION	CIRCULATION 110F	2.00	25.00	95%	0.40	3450	120	1	60	0.50	0.50	

INTERCEPTOR AND SEPARATOR SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	OPERATING DATA		CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL		TOTAL STORAGE VOLUME (GAL)	CONTAMINATE RETENTION VOLUME (GAL/LBS)	INLET (IN)	OUTLET (IN)	
SS-1	JOSAM	61000-1	AT FIXTURE (TRAP-STYLE)	N/A	N/A	1.50	1.50	2

1. PROVIDE TRAP-TYPE SOLIDS SEPARATORS/INTERCEPTORS AT ALL ART ROOM SINKS. COORDINATE INSTALLATION WITH ADA SINK PANEL.

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COMMONWEALTH OF VIRGINIA
DAVID T. WHATELY
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PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: July 1, 2022

REVISIONS	
DATE	DESCRIPTION

SCHEDULES

P6.1

7/1/2022 9:33:46 AM

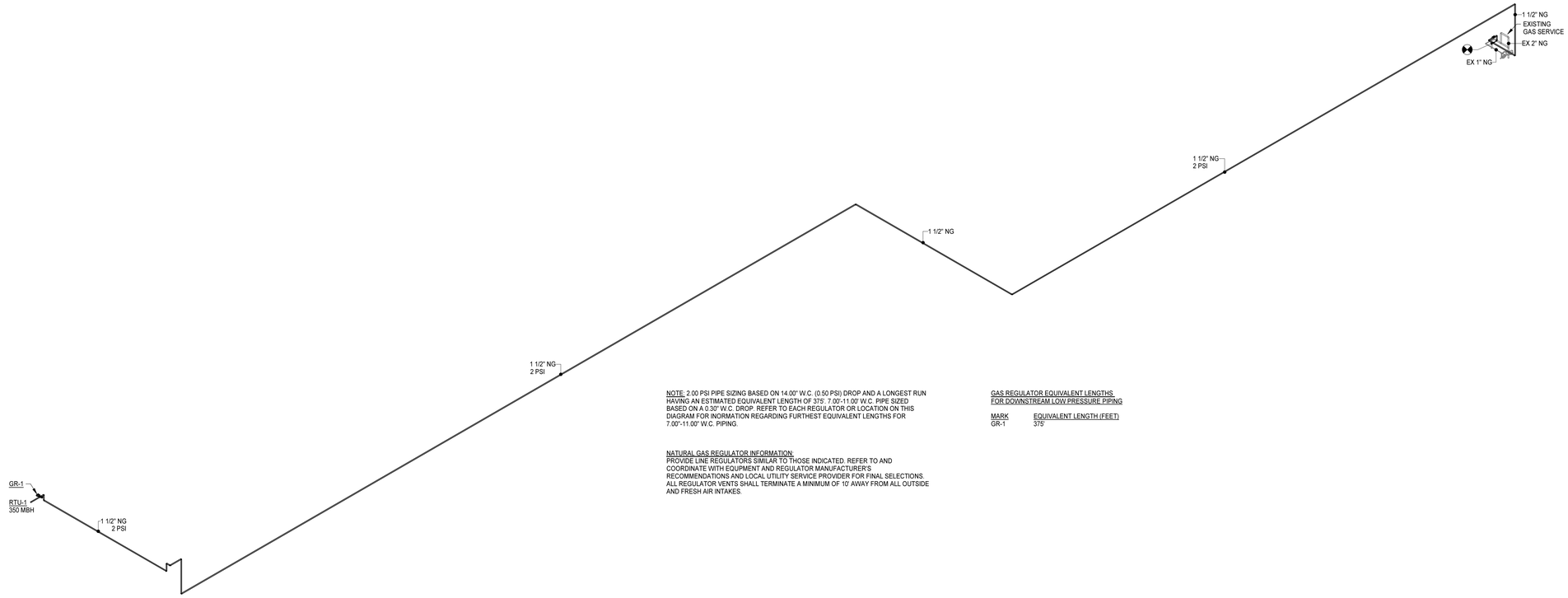
GAS REGULATOR SCHEDULE

TAG	BASIS OF DESIGN			LOAD		PRESSURE		ORFICE	ORFICE ANGLE	CONNECTION SIZE			NOTES
	MANUFACTURER	MODEL	SPRING	SERVICE	MBH	INLET	OUTLET			VENT (IN)	INLET (IN)	OUTLET (IN)	
GR-7	MAXITROL	325-7AL 1-1/2" x 1-1/2"	N/A	RTU-1	350	2 PSI	7" w.c.	N/A	N/A	N/A	1-1/2"	1-1/2"	1, 2

1. PROVIDE REGULATOR WITH VENT LIMITER DEVICE.
2. PROVIDE INCREASER AND DECREASER FITTINGS WHERE REQUIRED TO PROVIDE DESIRED INLET AND OUTLET CONNECTION SIZES TO VARYING REGULATOR BODY SIZES.

CONNECTED GAS LOAD SCHEDULE

TAG	DESCRIPTION	LOCATION	INPUT (BTUH)
RTU-1	ROOF TOP UNIT	ROOF	350,000
TOTAL CONNECTED LOAD			350,000



NOTE: 2.00 PSI PIPE SIZING BASED ON 14.00" W.C. (0.50 PSI) DROP AND A LONGEST RUN HAVING AN ESTIMATED EQUIVALENT LENGTH OF 375'. 7.00"-11.00' W.C. PIPE SIZED BASED ON A 0.30" W.C. DROP. REFER TO EACH REGULATOR OR LOCATION ON THIS DIAGRAM FOR INORMATION REGARDING FURTHEST EQUIVALENT LENGTHS FOR 7.00"-11.00" W.C. PIPING.

NATURAL GAS REGULATOR INFORMATION:
PROVIDE LINE REGULATORS SIMILAR TO THOSE INDICATED. REFER TO AND COORDINATE WITH EQUIPMENT AND REGULATOR MANUFACTURER'S RECOMMENDATIONS AND LOCAL UTILITY SERVICE PROVIDER FOR FINAL SELECTIONS. ALL REGULATOR VENTS SHALL TERMINATE A MINIMUM OF 10' AWAY FROM ALL OUTSIDE AND FRESH AIR INTAKES.

GAS REGULATOR EQUIVALENT LENGTHS FOR DOWNSTREAM LOW PRESSURE PIPING

MARK	EQUIVALENT LENGTH (FEET)
GR-1	375'

GAS RISER DIAGRAM

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

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GAS RISER DIAGRAM

P9.1

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EQUIPMENT IDENTIFICATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

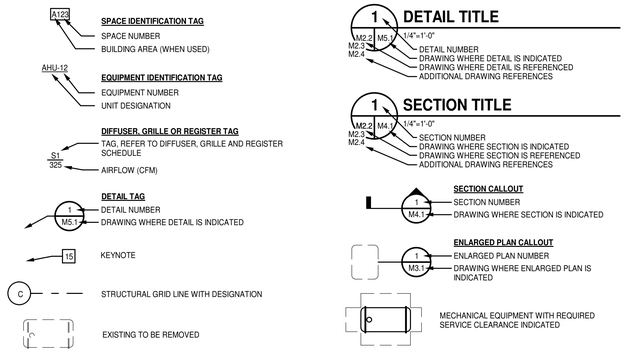
CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

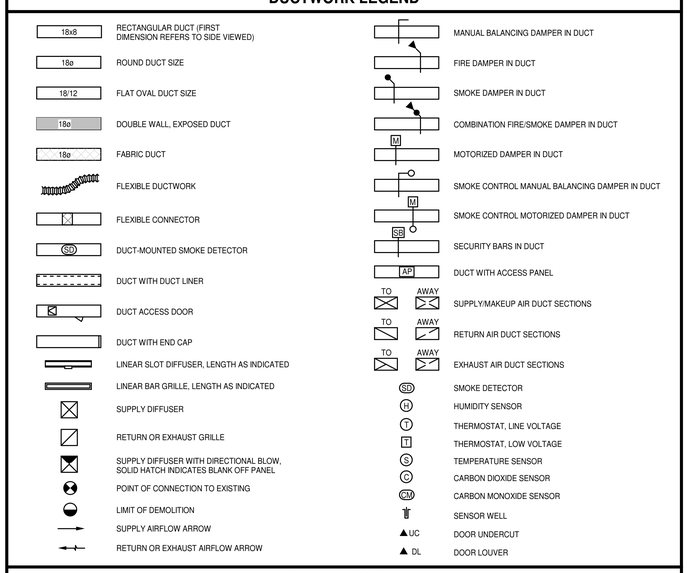
ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

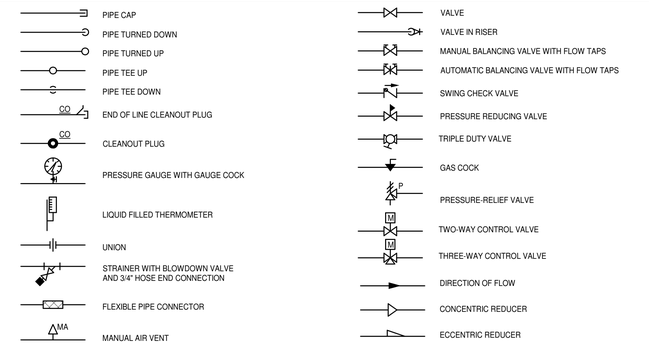
GRAPHICS SYMBOLS LEGEND



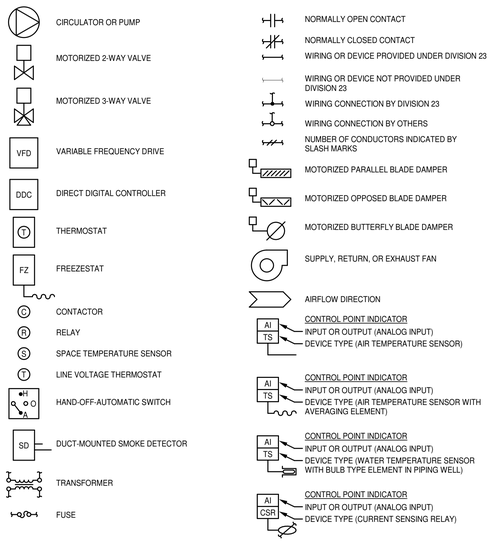
DUCTWORK LEGEND



PIPING LEGEND



CONTROL SYSTEM SYMBOLS



GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.

O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

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7/1/2022
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 1, 2022

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

M0.1

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PACKAGED VAV ROOFTOP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	SUPPLY FAN						OUTSIDE AIRFLOW (CFM)	RELIEF FAN						DX COOLING COIL					INDIRECT GAS BURNER						ELECTRICAL DATA						WEIGHT (LBS)
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL DIAMETER (IN)	FAN WHEEL TYPE	FAN WHEEL SPEED (RPM)	MOTOR SIZE (HP)		DESIGN AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL DIAMETER (IN)	FAN WHEEL TYPE	FAN WHEEL SPEED	MOTOR SIZE (HP)	GROSS TOTAL CAPACITY (BTUH)	GROSS SENSIBLE CAPACITY (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EER	INPUT CAPACITY (BTUH)	OUTPUT CAPACITY (BTUH)	EAT (°F)	LAT (°F)	MAX INLET GAS PRESSURE (IN WG)	MIN INLET GAS PRESSURE (IN WG)	FLA (A)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
RTU-1	TRANE	RF55	FINE ARTS WING	12,500	2.50	18.0	AF	2484	15	5,500	10,000	1.50	23	AF	1306	12	630,170	409,960	84.0	70.0	54.1	54.0	10.7	350,000	283,500	49.2	68.6	14.0	7.0	120	130.5	150.0	480	3	60	9,455

GENERAL NOTES:
A. PROVIDE NON-FUSED DISCONNECT BY DIV 23.
B. PROVIDE SINGLE POINT POWER CONNECTION.
C. PROVIDE WITH 2 SUPPLY FANS (EACH AT 7.5 HP) AND 2 RELIEF FANS (EACH AT 6 HP). SCHEDULED MOTOR SIZE IS THE TOTAL FOR ELECTRICAL COORDINATION PURPOSES ONLY.

DEDICATED OUTSIDE AIR UNIT SCHEDULE

TAG	MFR	MODEL NUMBER	SERVING	SUPPLY FAN			OUTSIDE AIR DEISGN AIRFLOW (CFM)	UNIT PRESSURIZATION DIFFERENTIAL (CFM)	EXHAUST FAN			ENTHALPY WHEEL												COOLING COIL				ELECTRIC HEATING COIL			ELECTRICAL DATA						WEIGHT (LBS)
												OUTDOOR AIR						EXHAUST AIR															SERVICE				
												SUMMER				WINTER		SUMMER				WINTER				EAT		LAT								
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	MOTOR SIZE (HP)			DESIGN AIRFLOW (CFM)	ESP (IN WC)	MOTOR SIZE (HP)	DESIGN AIRFLOW (CFM)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	EAT (°F DB)	LAT (°F WB)	DESIGN AIRFLOW (CFM)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	EAT (°F DB)	LAT (°F WB)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	CAPACITY (KW)	EAT (°F)	LAT (°F)	FLA (A)	MCA (A)	MOCP (A)	(V)	(PH)	(HZ)	
DOAU-1	TRANE	OADG015C3	ADMIN	3075	1.00	3	3075	1675	1400	1.00	2.0	3075	95.0	78.0	81.1	68.3	14.0	11.0	50.2	41.3	1400	75.0	62.5	89.8	74.1	68.0	53.0	27.5	24.7	172100	100500	81.1	68.2	46.5	46.1	24.0 kW	50.2	77.8	41.1	51.3	60	480	3	60	4065

GENERAL NOTES:
A. PROVIDE WITH NON-FUSED DISCONNECT BY DIV 23.
B. PROVIDE WITH SINGLE POINT POWER CONNECTION.

FAN POWERED TERMINAL UNIT SCHEDULE(EH)

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE				FAN				COIL					ELECTRICAL DATA						WEIGHT (LBS)
			INLET DIAMETER (IN)	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	APD AT MAXIMUM AIR FLOW (IN WC)	FAN SIZE	MOTOR (HP)	AIRFLOW (CFM)	ESP (IN WC)	DESIGN AIRFLOW (CFM)	CAPACITY (KW)	EAT (°F)	LAT (°F)	STAGES (NO)	FLA (A)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
TU1-2	TRANE	VPEF	12	1530	655	0.04	05SQ	1/2	875	0.50	2200	15.0	58.0	94.2	2	23.4	29.3	30	480	3	60	138
TU1-3	TRANE	VPEF	12	1600	620	0.03	04SQ	1/2	980	0.25	1600	12.0	58.0	89.0	2	17.9	22.4	25	480	3	60	138
TU1-4A	TRANE	VPEF	10	1350	565	0.06	03SQ	1/3	785	0.25	1350	10.0	58.0	88.3	2	15.0	18.0	20	480	3	60	96
TU1-4B	TRANE	VPEF	10	1200	500	0.05	03SQ	1/3	700	0.25	1200	10.0	58.0	91.2	2	15.0	18.0	20	480	3	60	96
TU1-12	TRANE	VSEF	10	950	635	0.34	04SQ	1/2	950	0.00	950	10.0	58.0	91.3	2	15.5	19.4	20	480	3	60	88
TU1-13	TRANE	VSEF	6	300	150	0.30	04SQ	1/3	300	0.00	300	3.0	58.0	90.0	2	13.2	16.5	20	277	1	60	88
TU1-14	TRANE	VSEF	10	1330	620	0.35	05SQ	1	1330	0.00	1330	11.0	58.0	90.0	2	18.6	23.3	25	480	3	60	88

TERMINAL UNIT SCHEDULE(EH)

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE				COIL				ELECTRICAL DATA						WEIGHT (LBS)
			INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN-WC)	DESIGN AIRFLOW (CFM)	CAPACITY (KW)	EAT (°F)	LAT (°F)	STAGES	FLA (A)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
TU1-1	TRANE	VCEF	6	400	245	0.14	245	2.5	58	87.1	2	6.9	8.7	15	208	3	60	63
TU1-5	TRANE	VCEF	4	130	50	0.01	100	1.0	58	86.5	2	2.8	3.5	15	208	3	60	63
TU1-6	TRANE	VCEF	5	310	110	0.02	110	1.0	58	86.5	2	2.8	3.5	15	208	3	60	63
TU1-7	TRANE	VCEF	5	250	100	0.02	100	1.0	58	86.5	2	2.8	3.5	15	208	3	60	63
TU1-8	TRANE	VCEF	5	250	100	0.02	100	1.0	58	86.5	2	2.8	3.5	15	208	3	60	63
TU1-9	TRANE	VCEF	8	800	415	0.08	415	4.5	58	89.1	2	12.5	15.6	20	208	3	60	63
TU1-10	TRANE	VCEF	8	640	430	0.06	430	4.0	58	86.8	2	11.1	13.9	15	208	3	60	63
TU1-11	TRANE	VCEF	8	640	430	0.06	430	4.0	58	86.8	2	11.1	13.9	15	208	3	60	63

VARIABLE REFRIGERANT FLOW SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	COOLING CAPACITY (BTUH)	AMBIENT AIR TEMPERATURE (°F)	HEATING CAPACITY (BTUH)	ELECTRICAL DATA					REFRIG	MAX REFRIG CHARGE (LB)	WEIGHT (LBS)
						MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)			
HP-1	MITSUBISHI ELECTRIC	PURY-P96TLMU-A	96,000	95.0	108,000	33	50	208	3	60	R-410A	43.0	532
HP-2	MITSUBISHI ELECTRIC	PURY-P72TLMU-A	72,000	95.0	80,000	24	40	208	3	60	R-410A	33.0	430
HP-3	MITSUBISHI ELECTRIC	PURY-P72TLMU-A	72,000	95.0	80,000	24	40	208	3	60	R-410A	33.0	430
HP-4	MITSUBISHI ELECTRIC	PURY-P72TLMU-A	72,000	95.0	80,000	24	40	208	3	60	R-410A	33.0	430

GENERAL NOTES:
A. PROVIDE WITH LOW AMBIENT KIT.
B. PROVIDE FACTORY DISCONNECT BY DIV 23.

VARIABLE REFRIGERANT FLOW BRANCH CIRCUIT CONTROLLER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	SERVING	REFRIGERANT	NUMBER OF BRANCHES	ELECTRICAL DATA					WEIGHT (LBS)	NOTES
						MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)		
BCC-1	MITSUBISHI ELECTRIC	CMB-P108NU-G	HP-1	R-410A	12	0.9	15	208	1	60	122	1
BCC-2	MITSUBISHI ELECTRIC	CMB-P108NU-G	HP-2	R-410A	8	0.9	15	208	1	60	122	1
BCC-3	MITSUBISHI ELECTRIC	CMB-P108NU-G	HP-3	R-410A	12	0.9	15	208	1	60	122	1
BCC-4	MITSUBISHI ELECTRIC	CMB-P108NU-G	HP-4	R-410A	12	0.9	15	208	1	60	122	1

GENERAL NOTES:
A. DISCONNECT PROVIDED BY DIV 26.
NOTES:
1. PROVIDE WITH CONDENSATE PUMP CAPABLE OF MINIMUM 6' HEAD.

VRF SPLIT SYSTEM HEAT PUMP INDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SUPPLY AIR (CFM)	COOLING				HEATING		ELECTRICAL DATA						WEIGHT (LBS)	NOTES
				TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	INDOOR EAT DB (°F)	INDOOR EAT WB (°F)	CAPACITY (BTUH)	INDOOR EAT DB (°F)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)			
SSI-7	MITSUBISHI ELECTRIC	PEFY-P08NMAU-E2	240	8000	6500	80.0	67.0	9000	70.0	1.1	15	208	1	60		49	1
SSI-9	MITSUBISHI ELECTRIC	PEFY-P08NMAU-E2	215	8000	6500	80.0	67.0	9000	70.0	1.1	15	208	1	60		49	1
SSI-11	MITSUBISHI ELECTRIC	PEFY-P12NMAU-E2	265	12000	8400	80.0	67.0	13500	70.0	1.2	15	208	1	60		49	1
SSI-13	MITSUBISHI ELECTRIC	PEFY-P08NMAU-E2	215	8000	6500	80.0	67.0	9000	70.0	1.1	15	208	1	60		49	1
SSI-14	MITSUBISHI ELECTRIC	PEFY-P12NMAU-E2	265	12000	8400	80.0	67.0	13500	70.0	1.2	15	208	1	60		49	1
SSI-A101	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A102-1	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A102-2	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A106	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A107	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A114-1	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A114-2	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A116	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A120-1	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A120-2	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A122-1	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A122-2	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A125	MITSUBISHI ELECTRIC	TPLFY-P005FM140A	280	5000	6600	80.0	67.0	5600	70.0	0.3	15	208	1	60		41	1
SSI-A126	MITSUBISHI ELECTRIC	TPLFY-P005FM140A	280	5000	6600	80.0	67.0	5600	70.0	0.3	15	208	1	60		41	1
SSI-A131	MITSUBISHI ELECTRIC	TPLFYP012FM140A	335	12000	8600	80.0	67.0	13500	70.0	0.4	15	208	1	60		41	1
SSI-A145	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A150-1	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A150-2	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A151-1	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1
SSI-A151-2	MITSUBISHI ELECTRIC	TPLFYP008FM140A	335	8000	6600	80.0	67.0	9000	70.0	0.3	15	208	1	60		41	1

GENERAL NOTES:
A. PROVIDE WITH BUILT-IN CONDENSATE DRAIN LIFT MECHANISM WITH MINIMUM 33" LIFT
B. DISCONNECT PROVIDED BY DIV 26.
NOTES:
1. PROVIDE CONDENSATE PUMP ACCESSORY CAPABLE OF MINIMUM 6' HEAD

FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	ELECTRICAL DATA				WEIGHT (LBS)	NOTES
											MOTOR (HP)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)		
F-1	GREENHECK	G-130-VG	ART D101/D102	ROOF MTD. CENTRIFUGAL	1,000	0.30	914	DIRECT	6.6	BAS SCHEDULE	1/4	120	1	60	43	1
F-2	GREENHECK	G-130-VG	ART D106/D107	ROOF MTD. CENTRIFUGAL	1,000	0.30	914	DIRECT	6.6	BAS SCHEDULE	1/4	120	1	60	43	1
F-3	GREENHECK	G-90-VG	CERAMICS D103/D105	ROOF MTD. CENTRIFUGAL	500	0.30	1131	DIRECT	4.7	BAS SCHEDULE	1/10	120	1	60	43	1
F-4	GREENHECK	G-70-VG	ELEC D109	ROOF MTD. CENTRIFUGAL	200	0.30	1451	DIRECT	3.7	LINE VOLTAGE T-STAT	1/15	120	1	60	43	1, 2
F-5	GREENHECK	G-70-VG	CUSTODIAL D178	ROOF MTD. CENTRIFUGAL	200	0.30	1451	DIRECT	3.7	BAS SCHEDULE	1/15	120	1	60	43	1
F-6	GREENHECK	G-70-VG	TOILETS D124/D125/D122	ROOF MTD. CENTRIFUGAL	200	0.30	1451	DIRECT	3.7	BAS SCHEDULE	1/15	120	1	60	43	1

GENERAL NOTES:
A. PROVIDE NON-FUSED DISCONNECT BY DIV 23.
NOTES:
1. PROVIDE MOTORIZED BACKDRAFT DAMPER AT FAN OUTLET.
2. PROVIDE WALL MOUNTED LINE VOLTAGE T-STAT AND POWER WIRE IN SERIES BY DIV 26.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	ASCDA	LAY-IN	6ø	24x24	30	-
S2	PRICE	ASCDA	LAY-IN	8ø	24x24	30	-
S4	PRICE	SDGE	DUCT-MOUNTED	N/A	12x6	30	-
S5	PRICE	SDBI-100-2	SURFACE	8ø	48x4	30	3
S6	PRICE	SDBI-100-3	SURFACE	10ø	48x4	30	3
R1	PRICE	500	LAY-IN	10x10	24x24	30	-
R2	PRICE	500	LAY-IN	22x22	24x24	30	-
R3	PRICE	500FF	LAY-IN	20x20	24x24	30	1
R4	PRICE	500FF	LAY-IN	10x10	24x24	30	1
E1	PRICE	630-F-L	SURFACE	6x6	12x12	30	-
E2	PRICE	630-F-L	SURFACE	8x8	12x12	30	-
E3	PRICE	630-F-L	SURFACE	22x10	24x12	30	-
E4	PRICE	80-FR	SURFACE	8x8	12x12	30	2
E5	PRICE	630-F-L	SURFACE	18x14	20x16	30	-
T1	PRICE	630-F-L	SURFACE	8x8	12x12	30	-

NOTES:
1. PROVIDE 2" THICK MERV 8 FILTER IN GRILLE.
2. PROVIDE FIRE RATED GRILLE.
3. PROVIDE AIR SCOOP.

GRAVITY VENTILATOR SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	FUNCTION	AIRFLOW (CFM)	PRESSURE DROP (IN WC)	ROOF OPENING SIZE (IN x IN)	WEIGHT (LBS)	NOTES
GV-1	GREENHECK	GRSR-18	PAINT BOOTH	RELIEF	3,000	0.321	21x21	19	1

NOTES:
1. PROVIDE GRAVITY BACKDRAFT VENTILATOR

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COMMONWEALTH OF VIRGINIA
DAVID T. WHATELY
Lic. No. 052209
7/1/2022
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 1, 2022

REVISIONS

DATE	DESCRIPTION

SCHEDULES

M0.2

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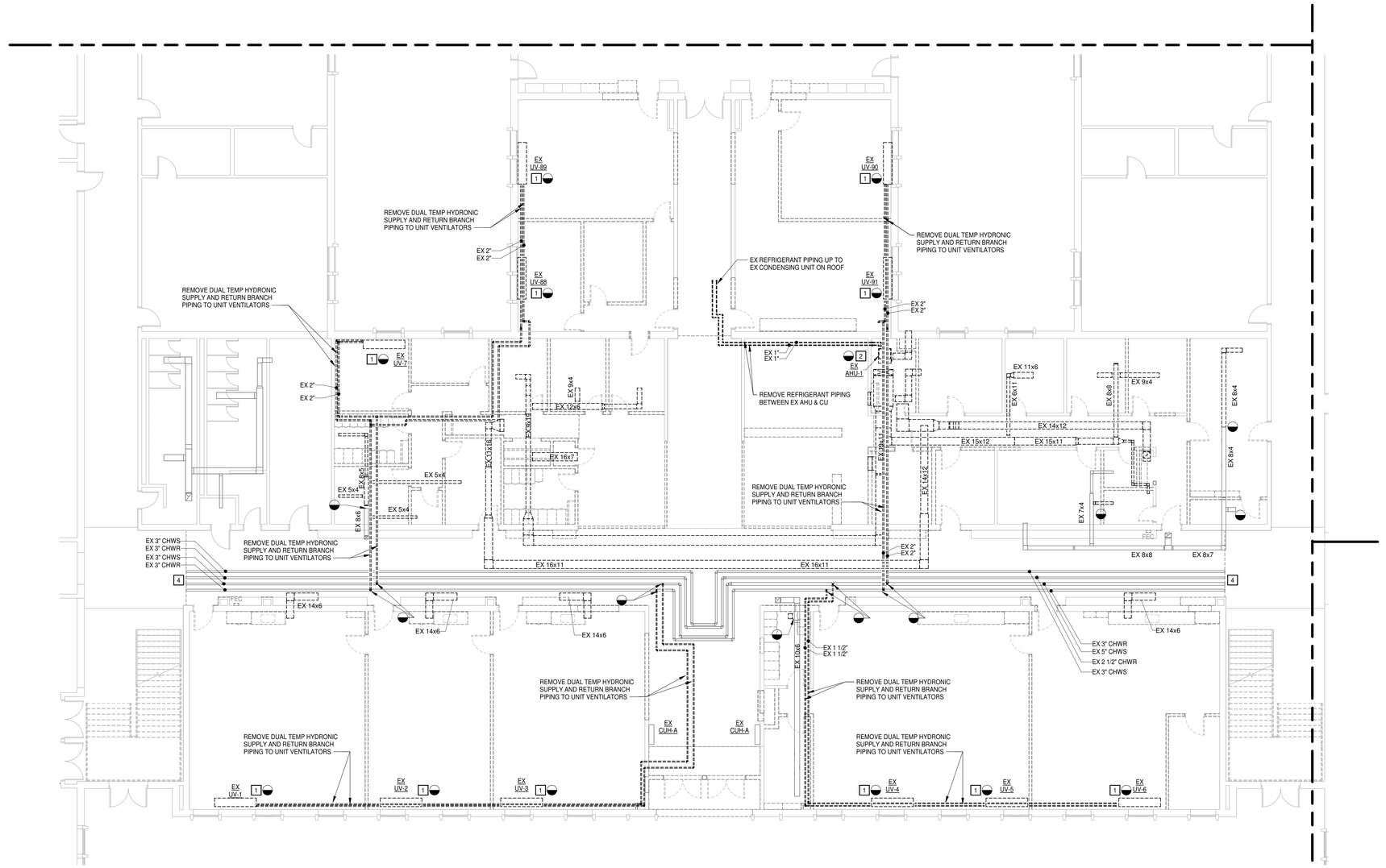
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY X

1. REMOVE EXISTING UNIT VENTILATOR, ASSOCIATED THERMOSTAT BRANCH PIPING AND CONDENSATE DRAIN PIPING, AND ASSOCIATED CONTROLS. SALVAGE EQUIPMENT, THERMOSTAT, AND ASSOCIATED CONTROLS AND RETURN TO OWNER FOR RE-USE.
2. REMOVE EXISTING AIR HANDLING UNIT, ALL ASSOCIATED PIPING, CONTROLS, AND CONDENSING UNIT ON ROOF. SALVAGE EQUIPMENT, SENSORS, AND ASSOCIATED CONTROLS AND RETURN TO OWNER FOR RE-USE.
3. CAP BRANCH PIPING IN THIS LOCATION AS CLOSE TO PIPING MAINS AS POSSIBLE. EXISTING HYDRONIC SYSTEMS TO BE TESTED, ADJUSTED, AND BALANCED PER SPECIFICATIONS IN SECTION 01450.
4. DUAL TEMP HYDRONIC PIPING SYSTEM CONTINUES, NOT SHOWN FOR CLARITY



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FIRST FLOOR PLAN - MECHANICAL DEMOLITION - PART A

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 1, 2022

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - MECHANICAL DEMOLITION - PART A

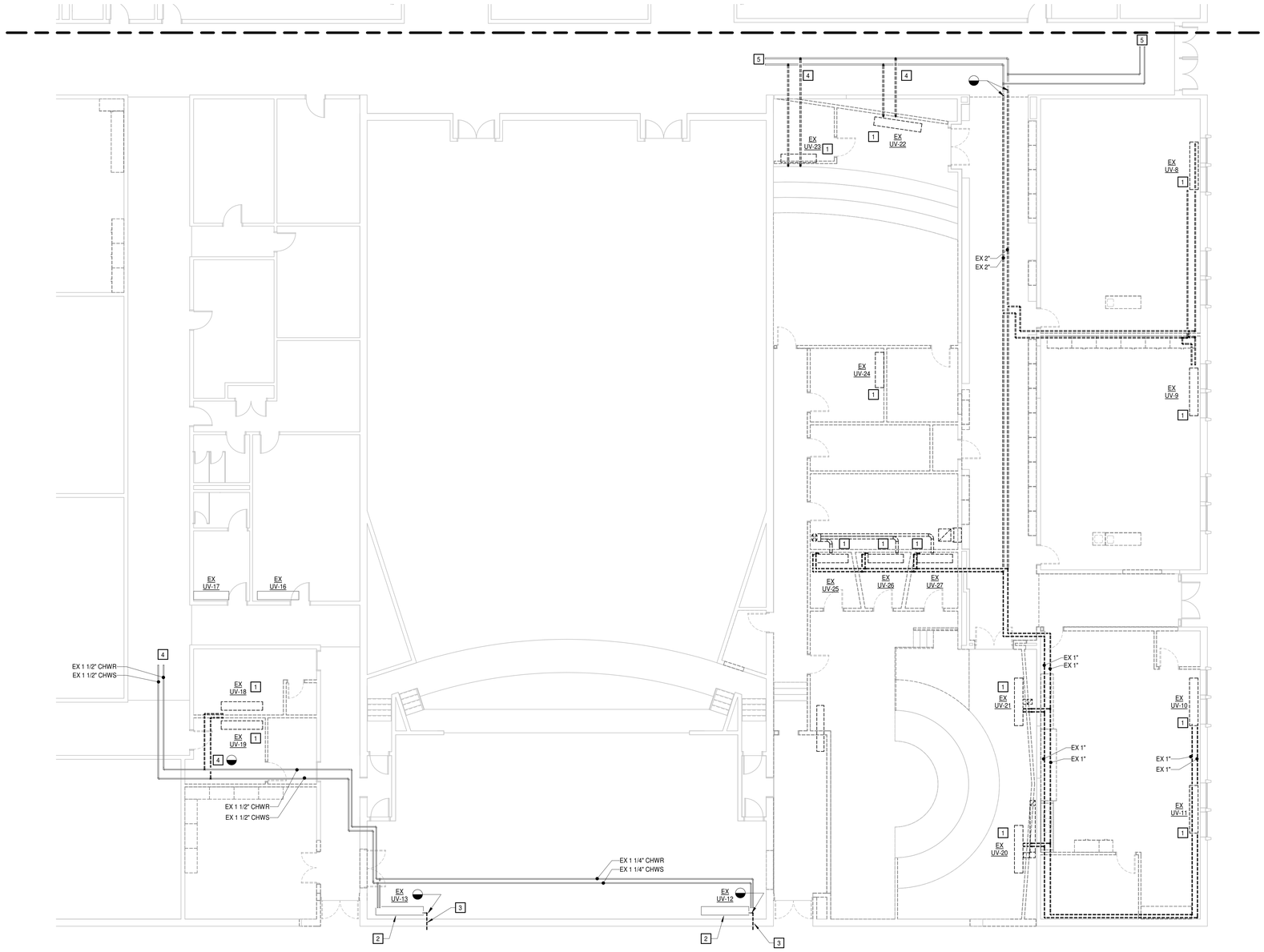
M1.1

7/1/2022 1:09:20 PM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY X

1. REMOVE EXISTING UNIT VENTILATOR, ASSOCIATED THERMOSTAT BRANCH PIPING AND CONDENSATE DRAIN PIPING, AND ASSOCIATED CONTROLS. SALVAGE EQUIPMENT, THERMOSTAT, AND ASSOCIATED CONTROLS AND RETURN TO OWNER FOR RE-USE.
2. REMOVE OUTSIDE AIR LOUVER AND CONNECTION TO UNIT VENTILATOR, BLANK OFF CONNECTION WITH SHEET METAL, INSULATE.
3. REMOVE CONDENSATE DRAIN THRU EX WALL, REFER TO SHEET M2.2.2 FOR CONTINUATION OF CONDENSATE DRAIN.
4. CAP BRANCH PIPING IN THIS LOCATION AS CLOSE TO PIPING MAINS AS POSSIBLE. EXISTING HYDRONIC SYSTEMS TO BE TESTED, ADJUSTED, AND BALANCED PER SPECIFICATIONS IN SECTION 014520.
5. DUAL TEMP HYDRONIC PIPING SYSTEM CONTINUES, NOT SHOWN FOR CLARITY



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FIRST FLOOR PLAN - MECHANICAL DEMOLITION - PART D
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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FIRST FLOOR PLAN - MECHANICAL DEMOLITION - PART D

M1.2

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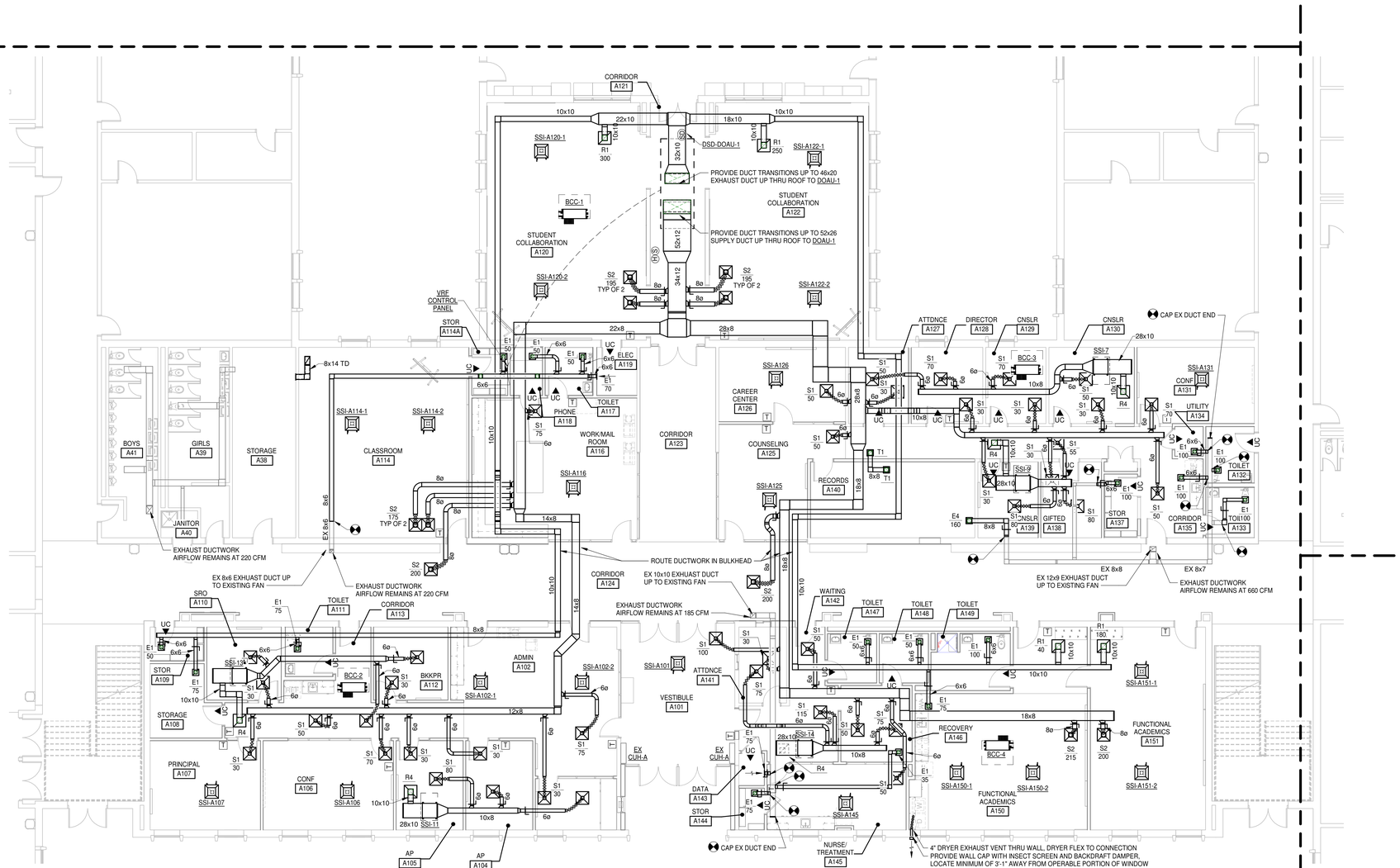

N

FIRST FLOOR PLAN - DUCTWORK - PART A

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DATE	DESCRIPTION

FIRST FLOOR PLAN - DUCTWORK - PART A

M2.1.1

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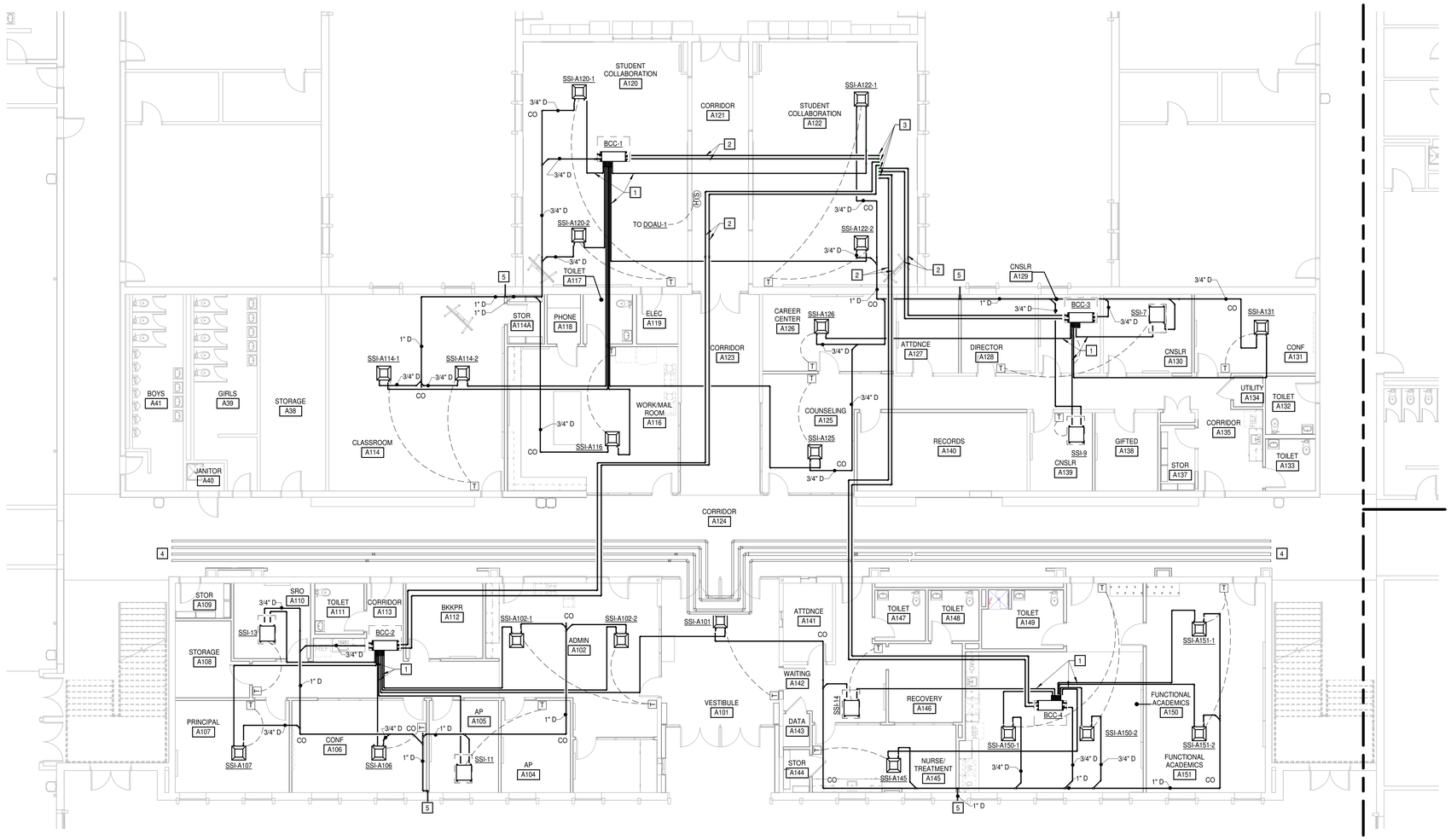
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY X

1. REFRIGERANT PIPING ROUTED FROM OUTDOOR UNIT TO BRANCH CONTROLLER REPRESENTS REFRIGERANT LIQUID AND REFRIGERANT GAS LINES, REFER TO VRF SCHEMATICS ON M6.1 THRU M6.3 FOR SIZES
2. REFRIGERANT PIPING ROUTED FROM BRANCH CONTROLLER TO INDOOR UNIT OR JOINT REPRESENTS REFRIGERANT LIQUID AND REFRIGERANT GAS LINES, REFER TO VRF SCHEMATICS ON M6.1 THRU M6.3 FOR SIZES
3. REFRIGERANT PIPING ROUTED UP THRU ROOF TO HEAT PUMPS
4. DUAL TEMP HYDRONIC PIPING SYSTEM CONTINUES, NOT SHOWN FOR CLARITY
5. 1" D DN AND THRU WALL, TERMINATE ABOVE SPLASH BLOCK



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FIRST FLOOR PLAN - PIPING - PART A

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DATE: JULY 1, 2022

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - PIPING - PART A

M2.1.2

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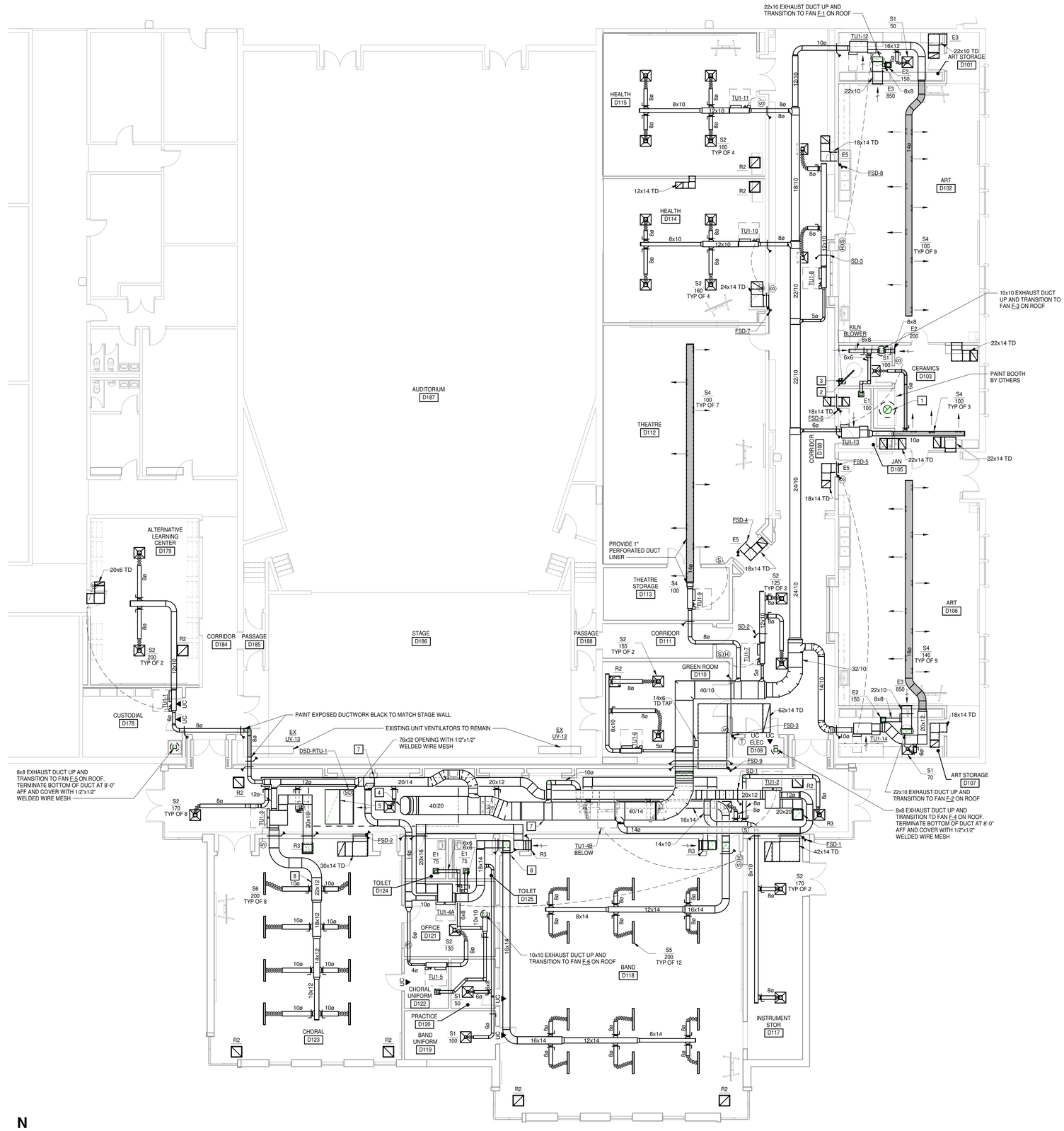

FIRST FLOOR PLAN - DUCTWORK - PART D

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY X

1. 18a EXHAUST DUCT CONNECT TO PAINT BOOTH FAN EXHAUST COLLAR. FAN PROVIDED BY PAINT BOOTH MFR. ROUTE 18a EXHAUST DUCT UP THRU EXISTING ROOF TO GRAVITY VENTILATOR GV-1.
2. TRANSITION FROM 3a CONNECTION ON KILN BLOWER DISCHARGE TO 4a CPVC UP TO ROOF, DO NOT ROUTE IN PLENUM.
3. KILN EXHAUST BLOWER AND FLEX DUCT TO BOTTOM CONNECTION OF KILN BOTH PROVIDED BY KILN MANUFACTURER. MOUNT BLOWER ON WALL AND POWER WITH PLUG RECEPTACLE, INTERLOCK FAN CONTROLS WITH KILN. KILN VENT SHALL BE SKUTT KILNS ENVIRO-VENT DUAL INTAKE KIT.
4. 40x20 SUPPLY DUCT UP TO RTU-1. TRANSITION IN VERTICAL TO FULL SIZE SUPPLY CONNECTION OF UNIT
5. 76x32 RETURN DUCT UP TO RTU-1.
6. OPEN END DUCT, COVER END WITH 1/2"x1/2" WELDED WIRE MESH. BALANCE BRANCH TO 100 CFM.
7. PROVIDE SUPPLY DUCT LINER FROM RTU DISCHARGE TO THIS POINT.
8. PROVIDE SUPPLY DUCT LINER FROM VAV BOX DISCHARGE TO THIS POINT.

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DAVID T. WHATELY
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7/1/2022
PROFESSIONAL ENGINEER

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 1, 2022

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR PLAN - DUCTWORK - PART D

M2.2.1

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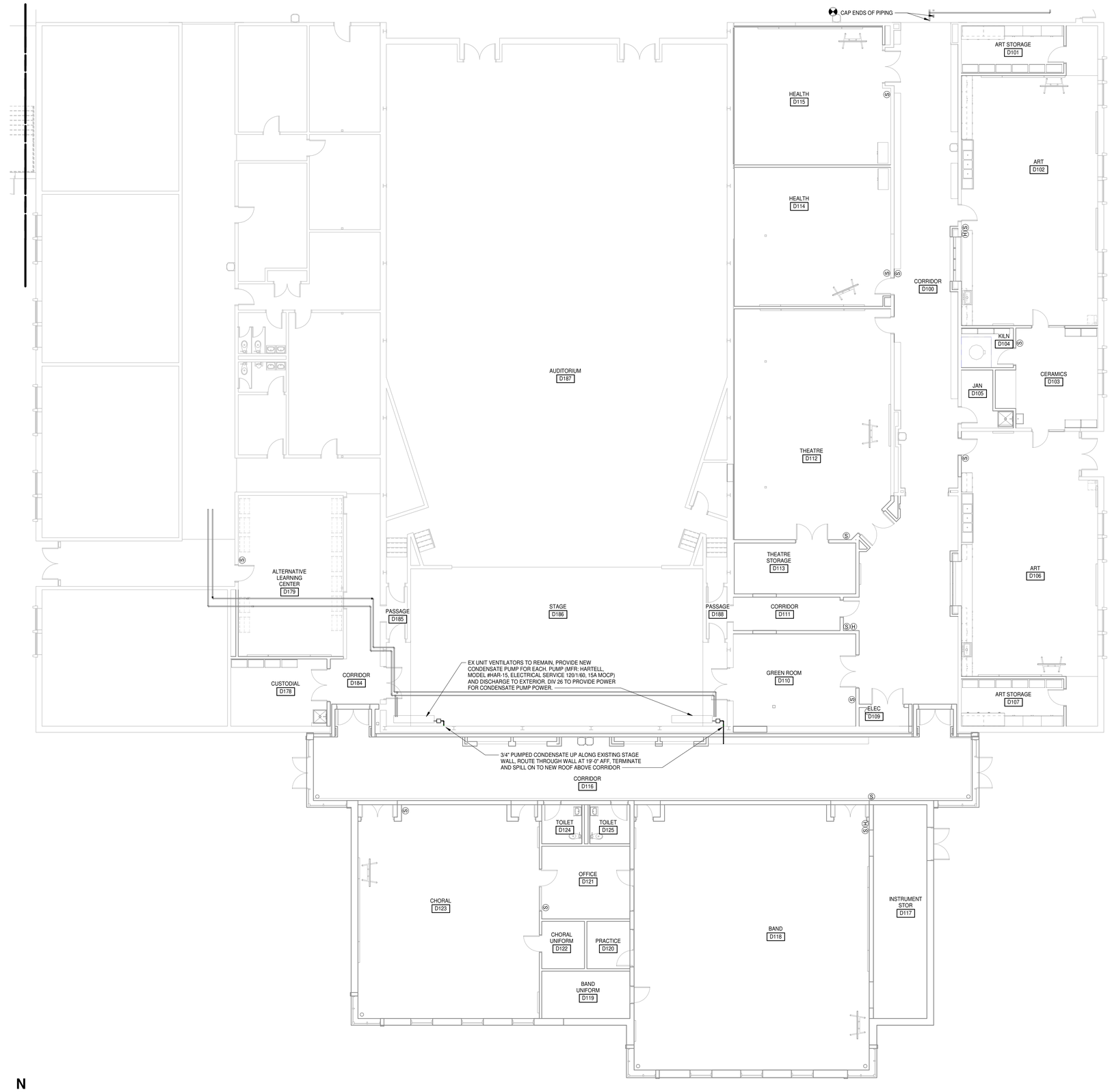

N

FIRST FLOOR PLAN - PIPING - PART D

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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FIRST FLOOR PLAN - PIPING - PART D

M2.2.2

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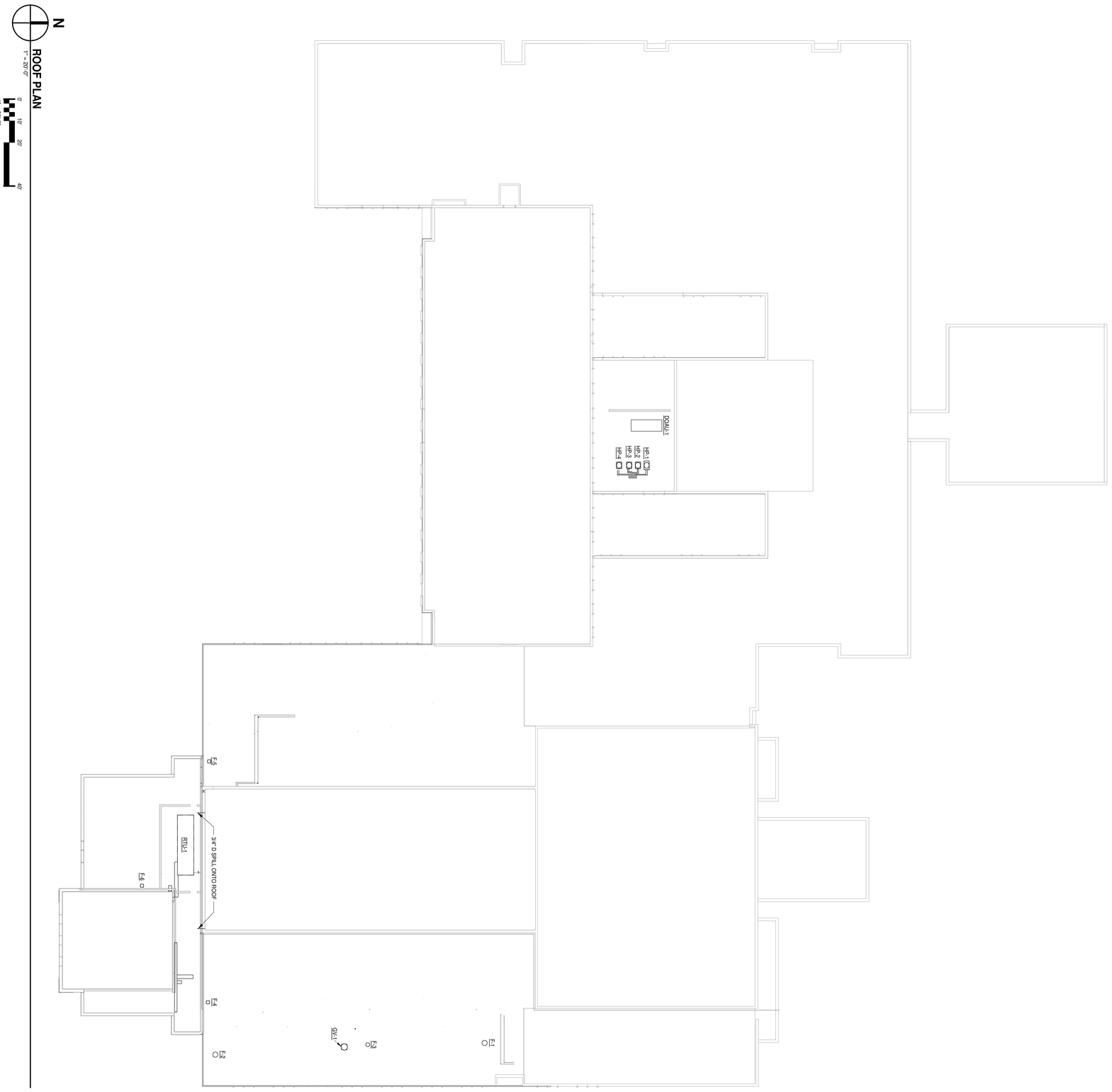

COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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ROOF PLAN

M2.3

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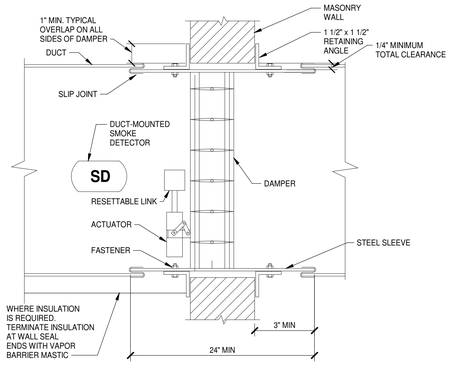
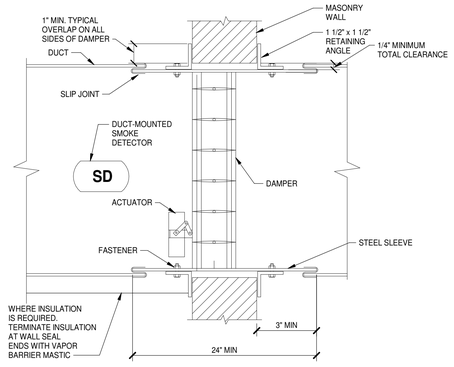


NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FSD-331. ALL COMBINATION FIRE-SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

COMBINATION FIRE-SMOKE DAMPER INSTALLATION DETAIL

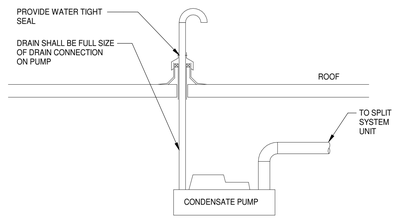
NO SCALE



NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL SMD-301. ALL SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

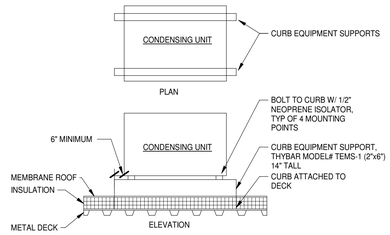
SMOKE DAMPER INSTALLATION DETAIL

NO SCALE



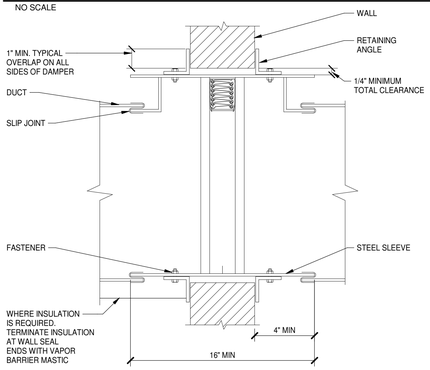
CONDENSATE DRAIN DETAIL TO ROOF

NO SCALE



CONDENSING UNIT MOUNTING DETAIL

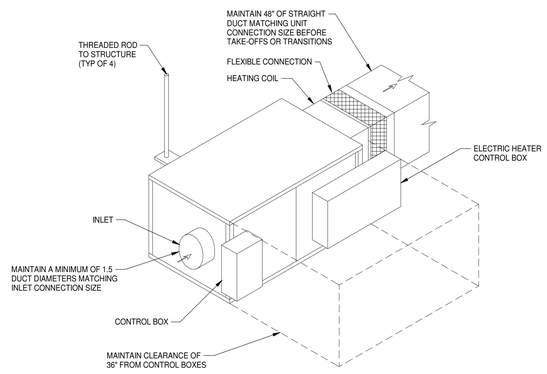
NO SCALE



NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FD150. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

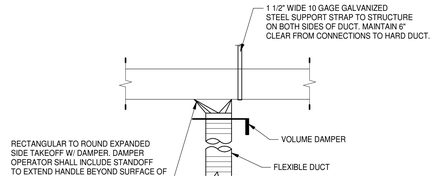
FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)

NO SCALE



VAV TERMINAL UNIT DETAIL

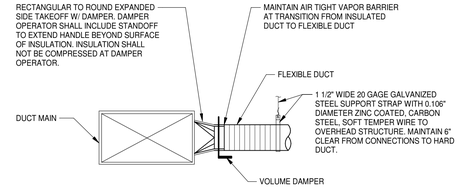
NO SCALE



NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

BRANCH TAKEOFF TO DIFFUSER-BOTTOM

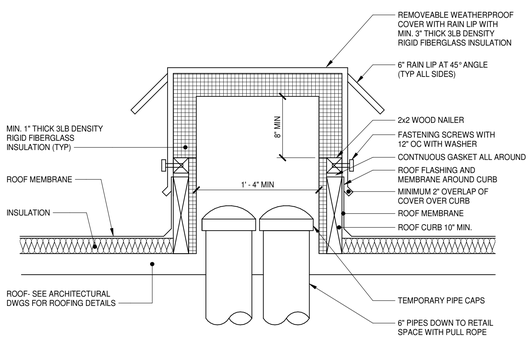
NO SCALE



NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

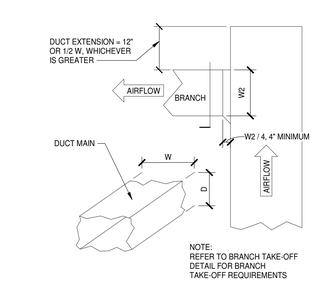
BRANCH TAKEOFF TO DIFFUSER-SIDE

NO SCALE



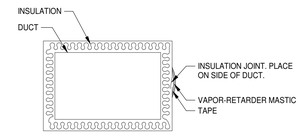
RETAIL PIPE PENETRATION DETAIL

NO SCALE



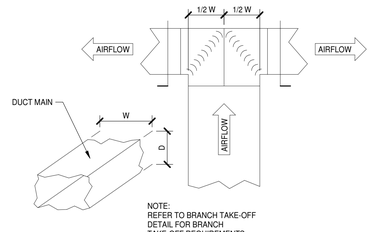
NOTE:
REFER TO BRANCH TAKE-OFF DETAIL FOR BRANCH TAKE-OFF REQUIREMENTS

DUCT END OF MAIN DETAIL



REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL



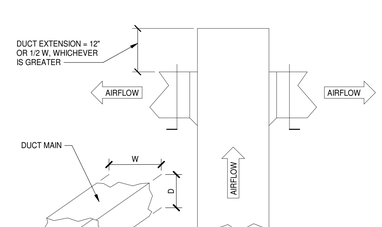
NOTE:
REFER TO BRANCH TAKE-OFF DETAIL FOR BRANCH TAKE-OFF REQUIREMENTS

DESIGNER NOTES:

USE WHERE "W" EXCEEDS 24" OR WHEN AIR FLOW IS IN EXCESS OF 1500 CFM.

MAY BE PROPORTIONAL

DUCT SPLIT WITH VANES DETAIL

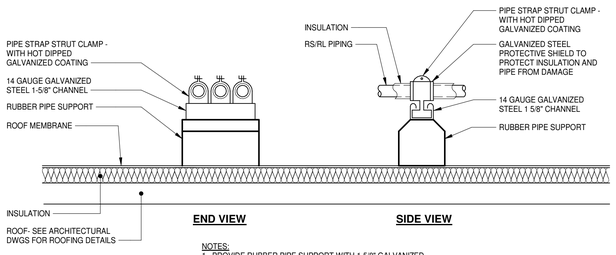


NOTE:
REFER TO BRANCH TAKE-OFF DETAIL FOR BRANCH TAKE-OFF REQUIREMENTS

DESIGNER NOTES:

USE WHERE "W" IS LESS THAN 24", WHEN YOU HAVE ROUND DUCT BRANCHES TO DIFFUSERS, OR WHEN AIR FLOW IS EQUAL TO OR LESS THAN 1500 CFM.

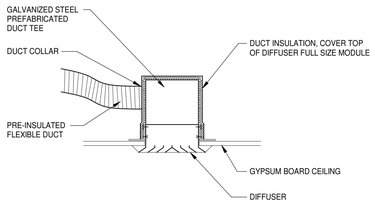
DUCT SPLIT WITHOUT VANES DETAIL



NOTES:
1. PROVIDE RUBBER PIPE SUPPORT WITH 1-5/8" GALVANIZED STEEL CHANNEL EQUAL TO MIFAB C6 SERIES.
2. PROVIDE PIPE SUPPORT LENGTH AS REQUIRED FOR NUMBER OF PIPES AND LINE SETS.

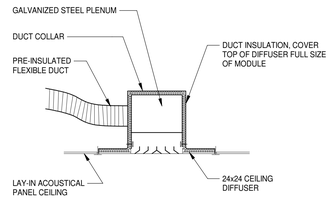
REFRIGERANT ROOF PIPE SUPPORT DETAIL

NO SCALE

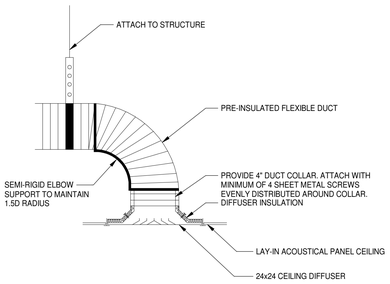


NOTE: THE DIFFUSER ASSEMBLY MAY BE SUPPORTED FROM THE CEILING FRAMING SYSTEM. THE DIFFUSER SHALL BE INSTALLED LEVEL AND TIGHT TO THE UNDERSIDE OF THE CEILING.

SUPPLY DIFFUSER CONNECTION GYP



SUPPLY DIFFUSER CONNECTION LAYIN



SUPPLY DIFFUSER CONNECTION LAYIN-COLLAR

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3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
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DETAILS

M5.1

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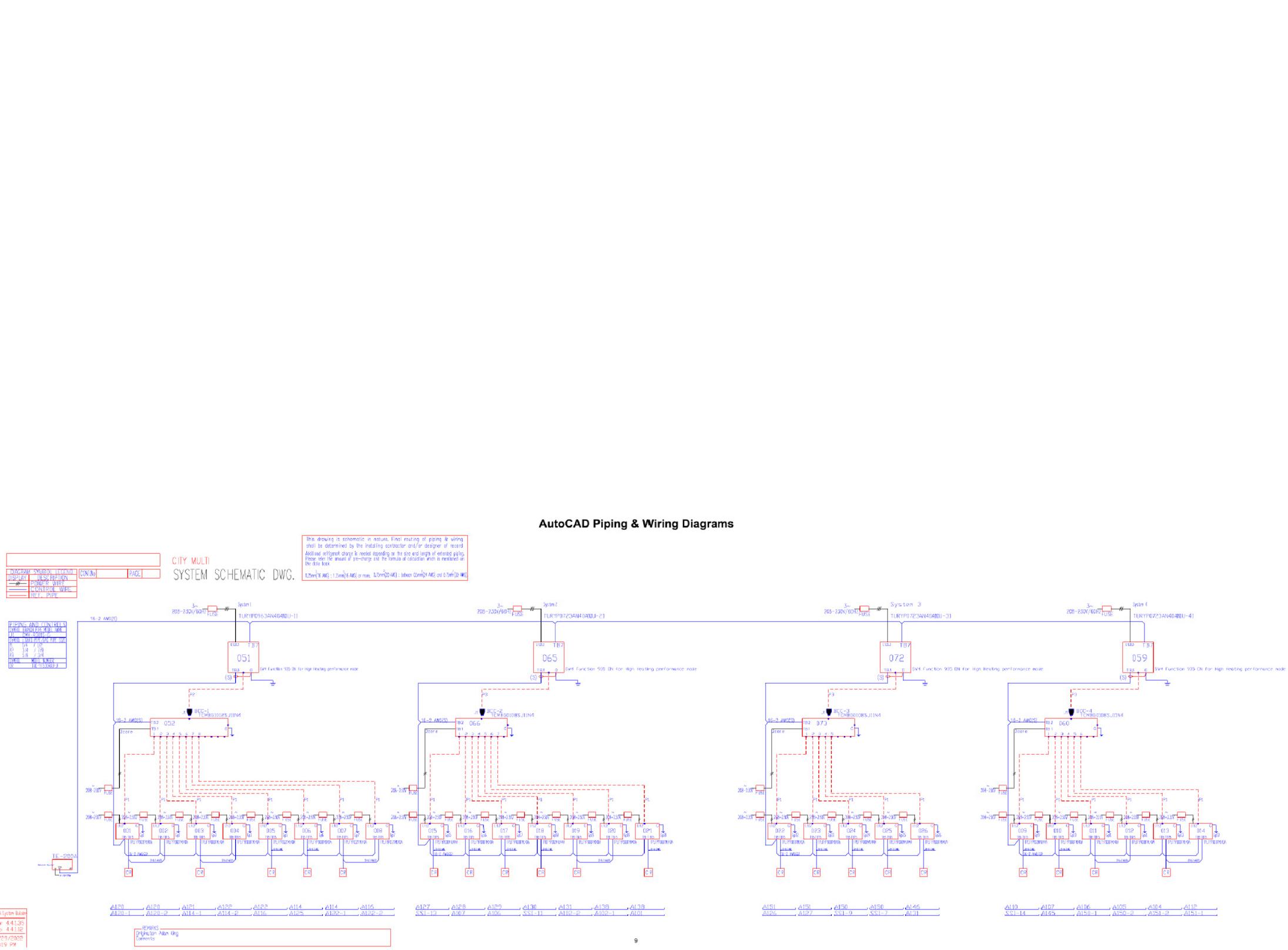
VRF SCHEMATICS

M6.1

AutoCAD Piping & Wiring Diagrams



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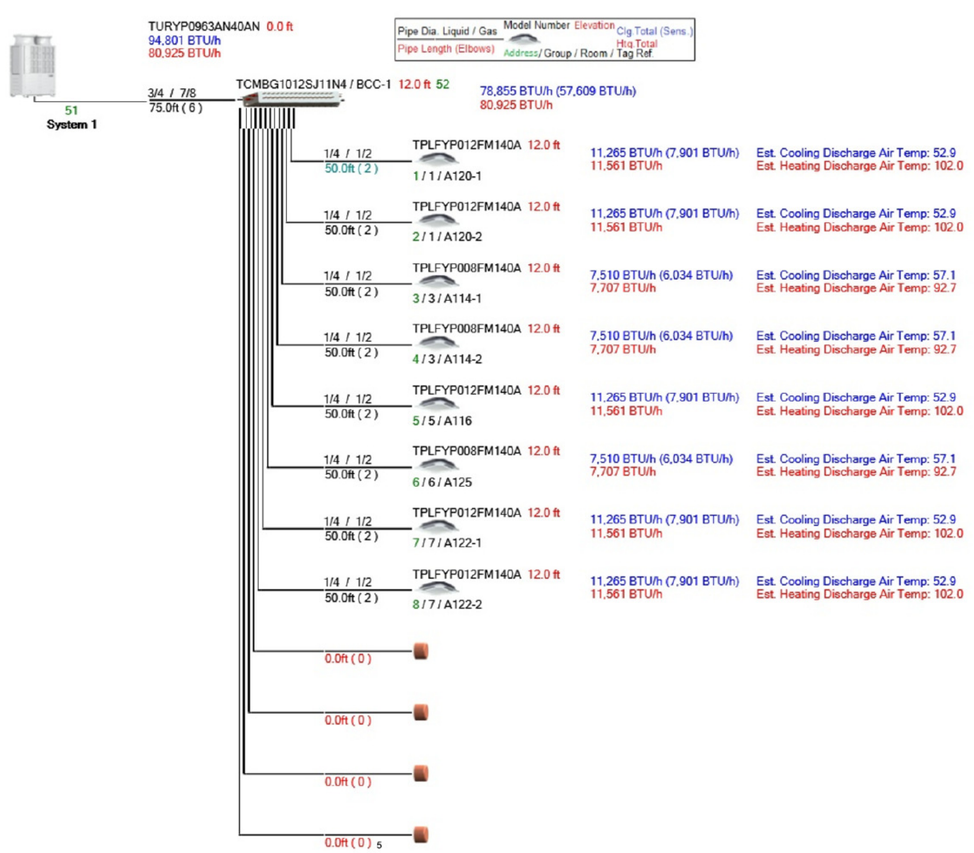
Design View Piping Diagrams

Indoor Units:	8 / 1 to 24	
Capacity:	84 / 48 to 144	(87.5%)
* Connectable capacity is not actual capacity.		
Total Pipe Length:	505.4 / 1696.9	feet
Furthest Actual:	125.0 / 541.0	feet
Furthest Equiv.:	136.0 / 623.0	feet
Furthest IU from BC Actual:	50.0 / 197.0	feet
Furthest IU from BC Equiv.:	52.8 / 197.0	feet
Furthest IU from BC Thru Sub BC Actual:	0.0 / 0.0	feet
Furthest IU from BC Thru Sub BC Equiv.:	0.0 / 0.0	feet
Correction Factors		
Outdoor Unit Capacity:	1.00	1.00
Temperature:	1.00	0.81
Piping Length:	0.99	0.98
Defrosting:	-	0.95
User Derate:	1.00	1.00
Total Derate:	0.99	0.75
Additional Refrigerant:	22.8	lb
Total Refrigerant Amount:	40.4	lb

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 51.8% Indoor WB 63.0
Outdoor DB 95.0

Heating
Indoor DB 70.0
Outdoor DB 14.0 Humidity 72.8% Outdoor WB 12.7

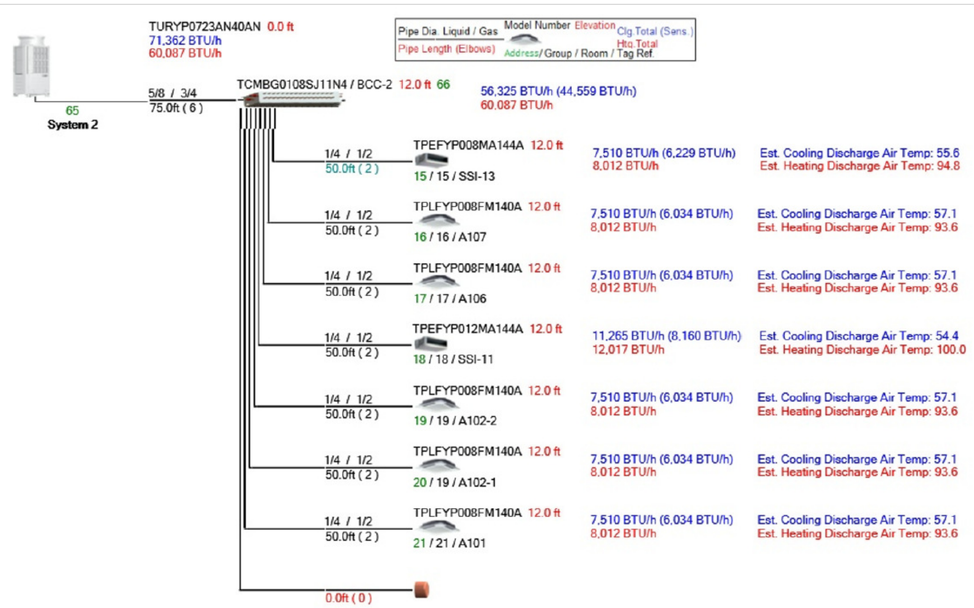


Indoor Units:	7 / 1 to 18	
Capacity:	60 / 36 to 108	(83.3%)
* Connectable capacity is not actual capacity.		
Total Pipe Length:	448.0 / 1696.9	feet
Furthest Actual:	125.0 / 541.0	feet
Furthest Equiv.:	134.2 / 623.0	feet
Furthest IU from BC Actual:	50.0 / 197.0	feet
Furthest IU from BC Equiv.:	52.3 / 197.0	feet
Furthest IU from BC Thru Sub BC Actual:	0.0 / 0.0	feet
Furthest IU from BC Thru Sub BC Equiv.:	0.0 / 0.0	feet
Correction Factors		
Outdoor Unit Capacity:	1.00	1.00
Temperature:	1.00	0.81
Piping Length:	0.99	0.98
Defrosting:	-	0.95
User Derate:	1.00	1.00
Total Derate:	0.99	0.75
Additional Refrigerant:	20.0	lb
Total Refrigerant Amount:	31.5	lb

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 51.8% Indoor WB 63.0
Outdoor DB 95.0

Heating
Indoor DB 70.0
Outdoor DB 14.0 Humidity 72.8% Outdoor WB 12.7



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VRF SCHEMATICS

M6.2

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Indoor Units:	5 / 1 to 18	
Capacity:	40 / 36 to 108	(55.6%)
* Connectable capacity is not actual capacity.		
Total Pipe Length:	343.4 / 1696.9	feet
Furthest Actual:	125.0 / 541.0	feet
Furthest Equiv.:	134.2 / 623.0	feet
Furthest IU from BC Actual:	50.0 / 197.0	feet
Furthest IU from BC Equiv.:	52.3 / 197.0	feet
Furthest IU from BC Thru Sub BC Actual:	0.0 / 0.0	feet
Furthest IU from BC Thru Sub BC Equiv.:	0.0 / 0.0	feet

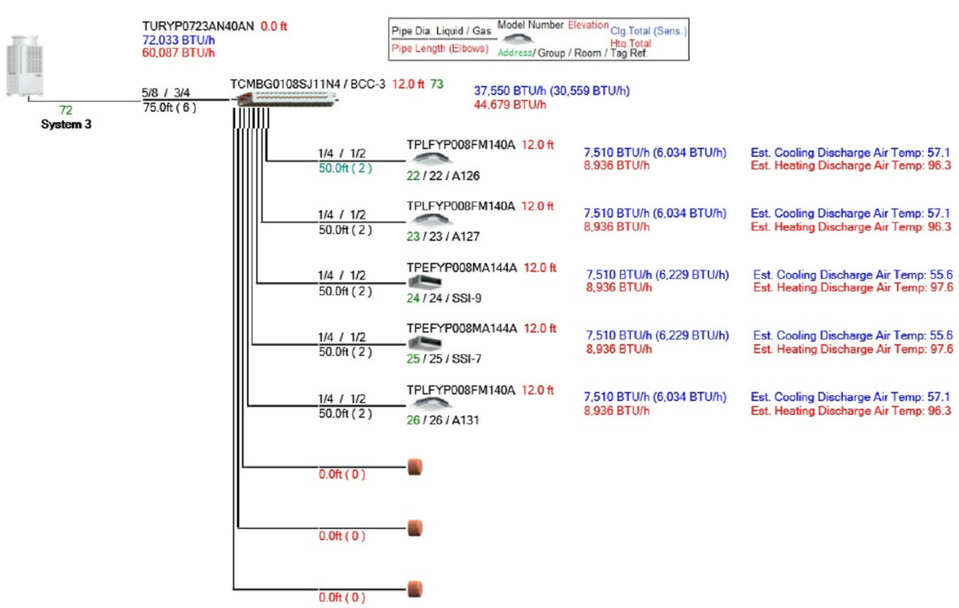
Correction Factors

Outdoor Unit Capacity:	1.00	1.00
Temperature:	1.00	0.81
Piping Length:	1.00	0.98
Defrosting:	-	0.95
User Derate:	1.00	1.00
Total Derate:	1.00	0.75
Additional Refrigerant:	17.5	lb
Total Refrigerant Amount:	29.0	lb

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 51.8% Indoor WB 63.0
Outdoor DB 95.0

Heating
Indoor DB 70.0
Outdoor DB 14.0 Humidity 72.8% Outdoor WB 12.7



Indoor Units:	6 / 1 to 18	
Capacity:	52 / 36 to 108	(72.2%)
* Connectable capacity is not actual capacity.		
Total Pipe Length:	395.7 / 1696.9	feet
Furthest Actual:	125.0 / 541.0	feet
Furthest Equiv.:	134.2 / 623.0	feet
Furthest IU from BC Actual:	50.0 / 197.0	feet
Furthest IU from BC Equiv.:	52.3 / 197.0	feet
Furthest IU from BC Thru Sub BC Actual:	0.0 / 0.0	feet
Furthest IU from BC Thru Sub BC Equiv.:	0.0 / 0.0	feet

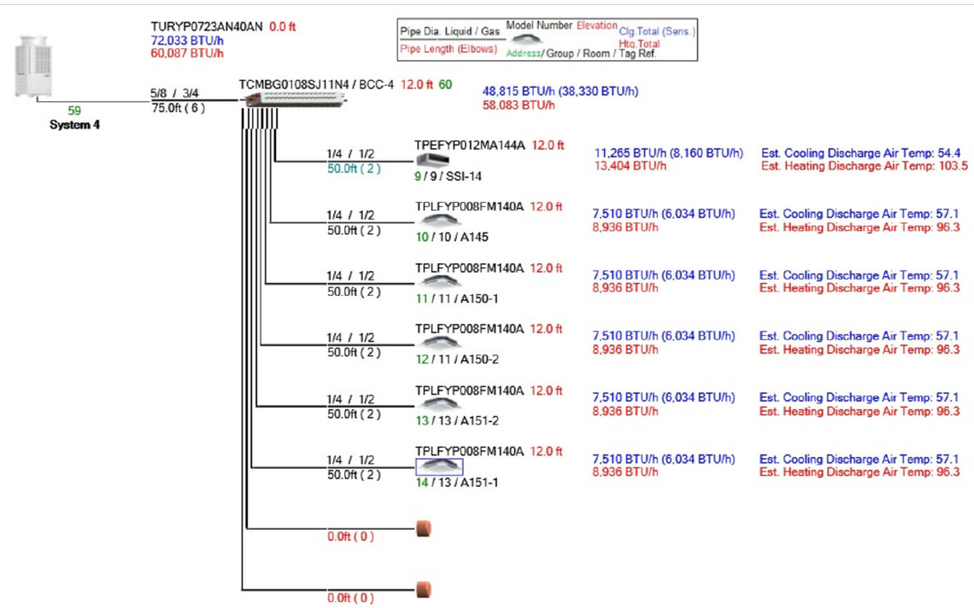
Correction Factors

Outdoor Unit Capacity:	1.00	1.00
Temperature:	1.00	0.81
Piping Length:	1.00	0.98
Defrosting:	-	0.95
User Derate:	1.00	1.00
Total Derate:	1.00	0.75
Additional Refrigerant:	18.2	lb
Total Refrigerant Amount:	29.7	lb

Conditions (°F)

Cooling
Indoor DB 75.0 Humidity 51.8% Indoor WB 63.0
Outdoor DB 95.0

Heating
Indoor DB 70.0
Outdoor DB 14.0 Humidity 72.8% Outdoor WB 12.7



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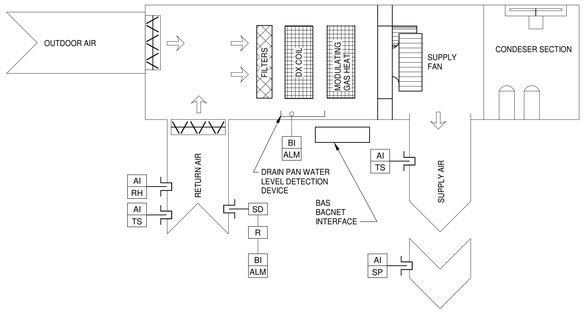
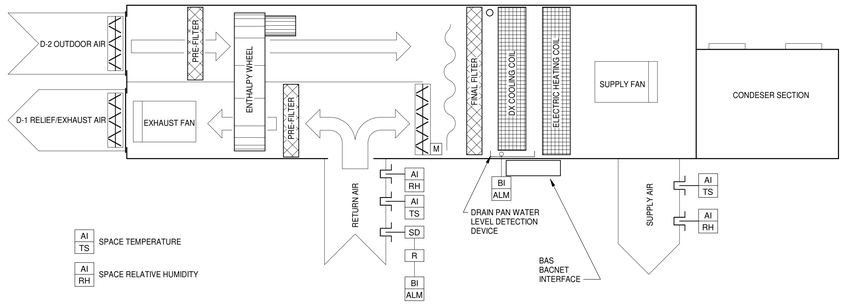


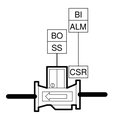
RTU-1 CONTROLS DIAGRAM - VARIABLE AIR VOLUME RTU SERVING TERMINAL UNITS WITH PACKAGED DX COOLING AND MODULATING GAS HEAT

NO SCALE



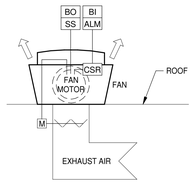
DOAU-1 CONTROLS DIAGRAM - DEDICATED OUTSIDE AIR UNIT WITH ENERGY RECOVERY, PACKAGED DX COOLING, ELECTRIC HEAT

NO SCALE



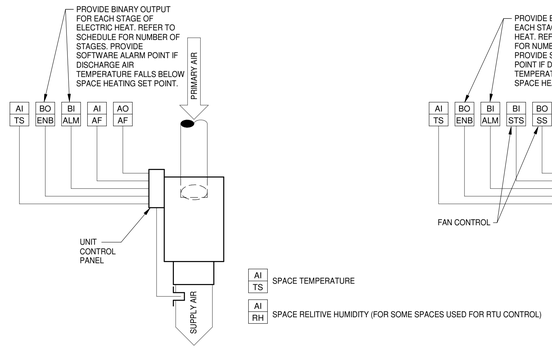
DOMESTIC HOT WATER PUMP

NO SCALE



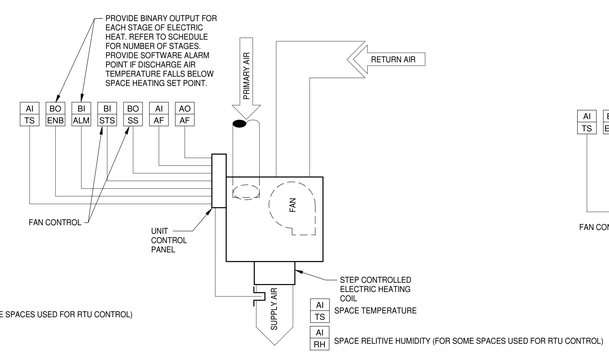
EXHAUST FAN CONTROL

NO SCALE



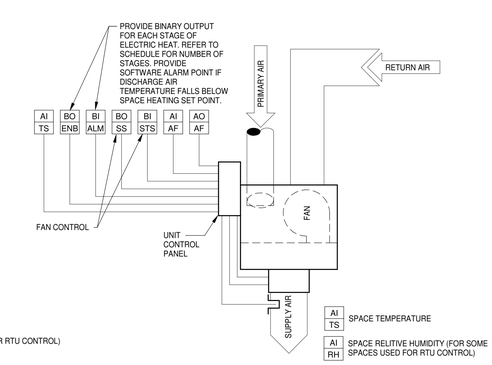
TERMINAL UNIT WITH STEP CONTROLLED ELECTRIC HEAT

NO SCALE



PARALLEL FAN POWERED TERMINAL UNIT WITH STEP CONTROLLED ELECTRIC HEAT

NO SCALE



SERIES FAN POWERED TERMINAL UNIT WITH STEP CONTROLLED ELECTRIC HEAT

NO SCALE

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7/7/2022
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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 1, 2022

REVISIONS	
DATE	DESCRIPTION

CONTROLS

M7.1

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SECURITY LEGEND

SYMBOL	DESCRIPTION
	DIRECTIONAL SECURITY MOTION DETECTOR, WALL MOUNT 6" BFC.
	OMNI-DIRECTIONAL SECURITY MOTION DETECTOR.
	CCTV MOUNTING LOCATION, CEILING MOUNT.
	CCTV MOUNTING LOCATION, WALL MOUNT.
DPS	DOOR POSITION SWITCH.
C	STATUS CONTACT.
CR	CARD READER LOCATION, MOUNT AT 3'-10" AFF.
CK	CARD READER WITH KEYPAD LOCATION, MOUNT AT 3'-10" AFF.
KP	SECURITY KEYPAD LOCATION, MOUNT AT 3'-10" AFF.
K	REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF.
DS	ELECTRIC DOOR STRIKE.
EL	ELECTRIC DOOR LOCK.
PL	PNEUMATIC DOOR LOCK.
	TALK THROUGH COMMUNICATOR.
	DURESS ALARM PUSHBUTTON LOCATION

LIGHTING LEGEND

SYMBOL	DESCRIPTION
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
	3 INDICATES 3-WAY LIGHT SWITCH
	4 INDICATES 4-WAY LIGHT SWITCH
	D INDICATES DIMMER SWITCH
	P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
	K INDICATES KEY OPERATED LIGHT SWITCH
	OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	OD_{Δ} INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	OS^{2} INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING
	LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE WITH BATTERY PACK, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE WITH BATTERY PACK.
	WALL WASHER LIGHTING FIXTURE.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EXIT SIGN WITH BATTERY PACK, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN WITH BATTERY PACK, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	TRACK LIGHTS.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
F	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
FK	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
S	SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
H	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PV	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
R	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF.
M	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION. MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

ONE LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
XXX	FEEDER DESIGNATION
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER

POWER LEGEND

SYMBOL	DESCRIPTION
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF.
RF	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	PUSHBUTTON CONTROLLER.
	PUSHBUTTON.
	CORD REEL OUTLET, CEILING MOUNT.
	[NON-] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6"AFF, UNO.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
UJ	JUNCTION BOX, UNDER FLOOR MOUNT.
CB	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT + 4'-6"AFF, UNO.
E	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
M	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
EL	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
ES	POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLOGY.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
	PANELBOARD.
T	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
R	RELAY, N/O OR N/C AS INDICATED.
	RELAY, NORMALLY OPEN.
	RELAY, NORMALLY CLOSED.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
	TELECOMMUNICATIONS JUNCTION BOX, PRIVIDE 1.25" CONDUIT BUSHING TO ABOVE CEILING, MOUNT AT +5'-6"AFF.
	TELECOMMUNICATIONS JUNCTION , PRIVIDE 1.25" CONDUIT BUSHING TO ABOVE CEILING, MOUNT AT +1'-6"AFF.
	INTERCOM CALL SWITCH LOCATION , MOUNT AT +4'-6"AFF.
M	MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT.
A	SOUND SYSTEM CONSUMER DEVICE INPUT OUTLET AT 1'-6"AFF.
S	INTERCOM SOUND SYSTEM SPEAKER LOCATION, RECESS WALL MOUNT AT +8'-0"AFF.
S	INTERCOM SOUND SYSTEM SPEAKER LOCATION, RECESS CEILING MOUNT.
S_{SS}	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +8'-0"AFF UNO.
S_{SS}	SOUND SYSTEM SPEAKER, SUSPENDED AT +8'-0" AFF UNO.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
WA	WIRELESS ACCESS POINT JUNCTION BOX
	TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
TGB	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
	DEVICES ARE EXISTING TO REMAIN.

GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.

D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.

E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.

F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.

G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.

H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.

I. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, LINO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.

J. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.

K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.

L. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.

M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR. REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TR	TAMPER RESISTANT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 01, 2022

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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INTERIOR LIGHT FIXTURE SCHEDULE

	FIXTURE						LAMP		MOUNTING	OPTIONS		REFERENCE NOTE	COMMENTS
TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	WATTAGE	LUMENS	COLOR	TYPE	COLOR TEMP.		DIMMING	BATTERY PACK *		
A1	2x4 LED VOLUMETRIC TROFFER	METALUX	24CZ2-60HE-UNV-L840	39	6000 lm	WHITE	LED	4000 K	RECESSED	X			
A1A	2x4 LED VOLUMETRIC TROFFER	METALUX	24CZ2-65HE-UNV-L840	42	6500 lm	WHITE	LED	4000 K	RECESSED	X			
A1AE	2x4 LED VOLUMETRIC TROFFER EMERGENCY	METALUX	24CZ2-65HE-UNV-L840-EL14W	42	6500 lm	WHITE	LED	4000 K	RECESSED	X	X		
A1E	2x4 LED VOLUMETRIC TROFFER EMERGENCY	METALUX	24CZ2-60HE-UNV-L840-EL14W	39	6000 lm	WHITE	LED	4000 K	RECESSED	X	X		
A3	2x4 LED FLAT PANEL	METALUX	24GR4840D	35	4800 lm	WHITE	LED	4000 K	RECESSED	X			
A4	2x4 LED VOLUMETRIC TROFFER VIVID TUNE	METALUX	24CZ2-60HE-UNV-L82765-CD1-U	39	6000 lm	WHITE	LED	4000 K	RECESSED	X			VIVID TUNE
A4A	2x4 LED VOLUMETRIC TROFFER VIVID TUNE	METALUX	24CZ2-65HE-UNV-L82765-CD1-U	39	6000 lm	WHITE	LED	4000 K	RECESSED	X			VIVID TUNE
A4AE	2x4 LED VOLUMETRIC TROFFER VIVID TUNE WITH EMERGENCY	METALUX	24CZ2-65HE-UNV-L82765-CD1-U-EL14W	42	6500 lm	WHITE	LED	4000 K	RECESSED	X	X		VIVID TUNE
A4E	2x4 LED VOLUMETRIC TROFFER VIVID TUNE WITH EMERGENCY	METALUX	24CZ2-60HE-UNV-L82765-CD1-U-EL14W	39	6000 lm	WHITE	LED	4000 K	RECESSED	X	X		VIVID TUNE
A5	2x4 LED VOLUMETRIC TROFFER	METALUX	24CZ2-60HE-UNV-L840-DF-24W-U	39	6000 lm	WHITE	LED	4000 K	SURFACE	X			SURFACE MOUNT
B1	2x2 LED VOLUMETRIC TROFFER	METALUX	22CZ2-60HE-UNV-L840	44	6000 lm	WHITE	LED	4000 K	RECESSED	X			
B1E	2x2 LED VOLUMETRIC TROFFER EMERGENCY	METALUX	22CZ2-60HE-UNV-L840-EL14W	44	6000 lm	WHITE	LED	4000 K	RECESSED	X	X		
B3	2x2 LED FLAT PANEL	METALUX	22GR3240D	28	3200 lm	WHITE	LED	4000 K	RECESSED	X			
B4	2x2 LED FLAT PANEL VIVID TUNE	METALUX	22CZ2-60HE-UNV-L82765-CD1-U	44	6000 lm	WHITE	LED	4000 K	RECESSED	X			
C1	6' LED' CAN LIGHT	HALO	RL6-06-9S40	15	1783 lm	WHITE	LED	4000 K	RECESSED	X			
C2	4" WATER RESISTANT CAN LIGHT	HALO	951PS	15	1783 lm	WHITE	LED	4000 K	RECESSED	X		3	
C3	8" EXTERIOR CAN LIGHT	GREEN CREATIVE	SLFT-8-840-DIM010UNV-BATTERY PACK	15	1783 lm	WHITE	LED	4000 K	RECESSED	X	X	3	
L1	4'x8'-0" LED LINEAR	METALUX	8RCG-4-78D-L840	53	6200 lm	WHITE	LED	4000 K	RECESSED	X			
L1A	4'x8'-0" LED LINEAR	METALUX	8RCG-4-100D-L840	70	8000 lm	WHITE	LED	4000 K	RECESSED	X			
L1AE	4'x8'-0" LED LINEAR EMERGENCY	METALUX	8RCG-4-100D-L840-EL14W	70	8000 lm	WHITE	LED	4000 K	RECESSED	X	X		
L1E	4'x8'-0" LED LINEAR EMERGENCY	METALUX	8RCG-4-78D-L840-EL14W	53	6200 lm	WHITE	LED	4000 K	RECESSED	X	X		
L2	0'-4"x4'-0" LED LINEAR	METALUX	4RCG-4-78D-L840	26	3100 lm	WHITE	LED	4000 K	RECESSED	X			
L2E	0'-4"x4'-0" LED LINEAR	METALUX	4RCG-4-78D-L840-EL14W	26	3100 lm	WHITE	LED	4000 K	RECESSED	X	X		
P1	6" CYLINDER DOWN LIGHT	HALO	HC6S-20-D010-MV	21	2000 lm	BLACK	LED	4000 K	PENDANT	X			
P2	0'-4"x 8'-0" LINEAR PENDANT	METALUX	8RBSURF6--SL1-L8SCT3-4000K-MID	62	6000 lm	WHITE	LED	4000 K	PENDANT	X			+8'-8" AFF
P2A	0'-4"x 8'-0" LINEAR PENDANT	METALUX	8RBSURF6--SL1-L8SCT3-4000K-MID	62	6000 lm	BLACK	LED	4000 K	PENDANT	X			+8'-0" AFF
P2AE	0'-4"x 8'-0" LINEAR PENDANT EMERGENCY	METALUX	8RBSURF6--SL1-L8SCT3-4000K-MID	62	6000 lm	BLACK	LED	4000 K	PENDANT	X	X		+8'-0" AFF
P2E	0'-4"x 8'-0" LINEAR PENDANT EMERGENCY	METALUX	8RBSURF6--SL1-L8SCT3-4000K-MID	62	6000 lm	WHITE	LED	4000 K	PENDANT	X	X		+8'-8" AFF
P3	1x4 PENDANT	METALUX	4VT3-LD5-6-G-UNV-L840-CD1-U	25	3000 lm	WHITE	LED	4000 K	PENDANT				
T1	TRACK LIGHT	ILLUMINATION	TRA22D-M-34C-8040-M-B-B	26	3057 lm	BLACK	LED	4000 K	SURFACE	X			
W1E	LED TRAPEZOIDAL WALL PACK WITH INTEGRAL PHOTOCELL	LUMARK	PRV-P-C15-UNV-SM-EBP -OA/RA1016	27	1380 lm	BLACK	LED	4000 K	WALL		X	3	+8'-0" AFF
X1	WALL MOUNTED EXIT SIGN	ATLITE	RXD-N-S-R-1	5		WHITE	LED		WALL		X	1	
X2	SINGLE FACE EXIT SIGN	ATLITE	TS-W-1-8-WH-HS1	5		WHITE	LED		RECESSED		X	1	
X3	DOUBLE FACE EXIT SIGN	ATLITE	TS-W-2-8-WH-HS2	5		WHITE	LED		SURFACE		X	1	

GENERAL NOTES:

A. ALL FIXTURES SHALL BE CAPABLE OF 120V AND 277V INPUT (MVOLT), UNO.
B. REFER TO LIGHTING PLANS AND SPECIFICATIONS FOR ADDITIONAL FIXTURE INFORMATION.
C. "X" IN THE SCHEDULE INDICATES ITEM IS REQUIRED.
D. ALL LENS SHALL BE A MINIMUM 0.125" THICKNESS, UNO.

* PROVIDE BATTERY PACK WHERE INDICATED ON DRAWINGS. WIRE BATTERY LEADS AHEAD OF SWITCH FOR THE CIRCUIT IN THE SPACE TO MAINTAIN PROPER OPERATION IN CASE OF POWER LOSS.

REFERENCE NOTES:

1. NUMBER OF FACES AND DIRECTIONAL CHEVRONS AS INDICATED ON DWGS.
2. NOT USED
3. FIXTURE SHALL BE SUITABLE FOR WET LOCATIONS.

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COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 01, 2022

REVISIONS	
DATE	DESCRIPTION

LIGHT FIXTURE SCHEDULE

E0.2

6/30/2022 1:35:11 PM

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. EXISTING INFORMATION ON THE DRAWING PER FIELD OBSERVATION AND EXISTING DRAWINGS. VERIFY THE INFORMATION IN FIELD.

C. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR ADDITIONAL INFORMATION.

D. ALL SYMBOLS WITH DASH LINE TO BE REMOVED UNO.

E. ALL SYMBOLS WITH LIGHT LINE TO REMAIN UNO.

F. MAINTAIN ANY CIRCUITS INCLUDING LOW VOLTAGE SYSTEMS TO ANY EQUIPMENT/DEVICES REQUIRED TO SERVE EXISTING-TO-REMAIN SPACES.

KEYNOTES

APPLIES TO DRAWINGS E1.1
REPRESENTED BY: n

1. REMOVE ALL EXISTING ELECTRICAL SYSTEMS INCLUDING POWER, MECHANICAL POWER, LIGHTING, & LOW VOLTAGE SYSTEMS IN THIS ROOM/SPACE UNO.
2. ALL EXISTING ELECTRICAL SYSTEM INCLUDING LOW VOLTAGE SYSTEMS IN THIS ROOM/SPACE SHALL REMAIN UNO.
3. EXISTING TELECOM EQUIPMENT AND ACCESSORIES SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
4. EXISTING DURESS ALARM PUSHBUTTON SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
5. EXISTING DURESS PANEL SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
6. EXISTING AIPHONE SYSTEM SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
7. EXISTING ALERT PANEL SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
8. EXISTING INDEX PHONE SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
9. EXISTING FACP AND NAC SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
10. EXISTING FAAP AND PULL STATION SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATIONS. COORDINATE THIS WITH THE OWNER.
11. EXISTING IT RACK SHALL BE RELOCATED. REFER TO E2.3.2 FOR NEW LOCATION. COORDINATE THIS WITH THE OWNER.
12. ALL CEILING AND WALL MOUNT LIGHT FIXTURES WITHIN THE SOLID LINE SHALL BE REMOVED AND RETURNED BACK TO THE OWNER .
13. EXISTING CAMERA SHALL BE RELOCATED. REFER TO E2.3.1 FOR NEW LOCATION.
14. ALL CEILING MOUNT SPEAKERS, CAMERAS, SMOKE DETECTORS, AND OTHERS(NOT SHOWN ON THE PLAN) WITHIN THE SOLID LINE ARE RELOCATED UNO.REFER TO LIGHT PLANS,COMMUNICATIONS PLANS FOR NEW LOCATIONS.
15. ALL WALL MOUNT ELECTRICAL DEVICES INCLUDING LOW VOLTAGE SYSTEM DEVICES WITHIN THE SOLID LINE SHALL REMAIN UNO.
16. NO ELECTRICAL WORK IN THIS ROOM EXCEPT THAT EXISTING LIGHT SWITCH SHALL BE RELOCATED. REFER TO E2.1.2 FOR NEW LOCATION.
17. EXISTING PANEL FP SHALL BE RELOCATED. REFER TO E3.1 FOR NEW LOCATION.
18. EXISTING BUS DUCT SHALL BE REMOVED. REFER TO E5.1 FOR ADDITIONAL INFORMATION.

N

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/16" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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PROJECT NO: 611565
DATE: JULY 01, 2022

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DATE	DESCRIPTION

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

E1.1

6/30/2022 1:35:15 PM

GENERAL NOTES

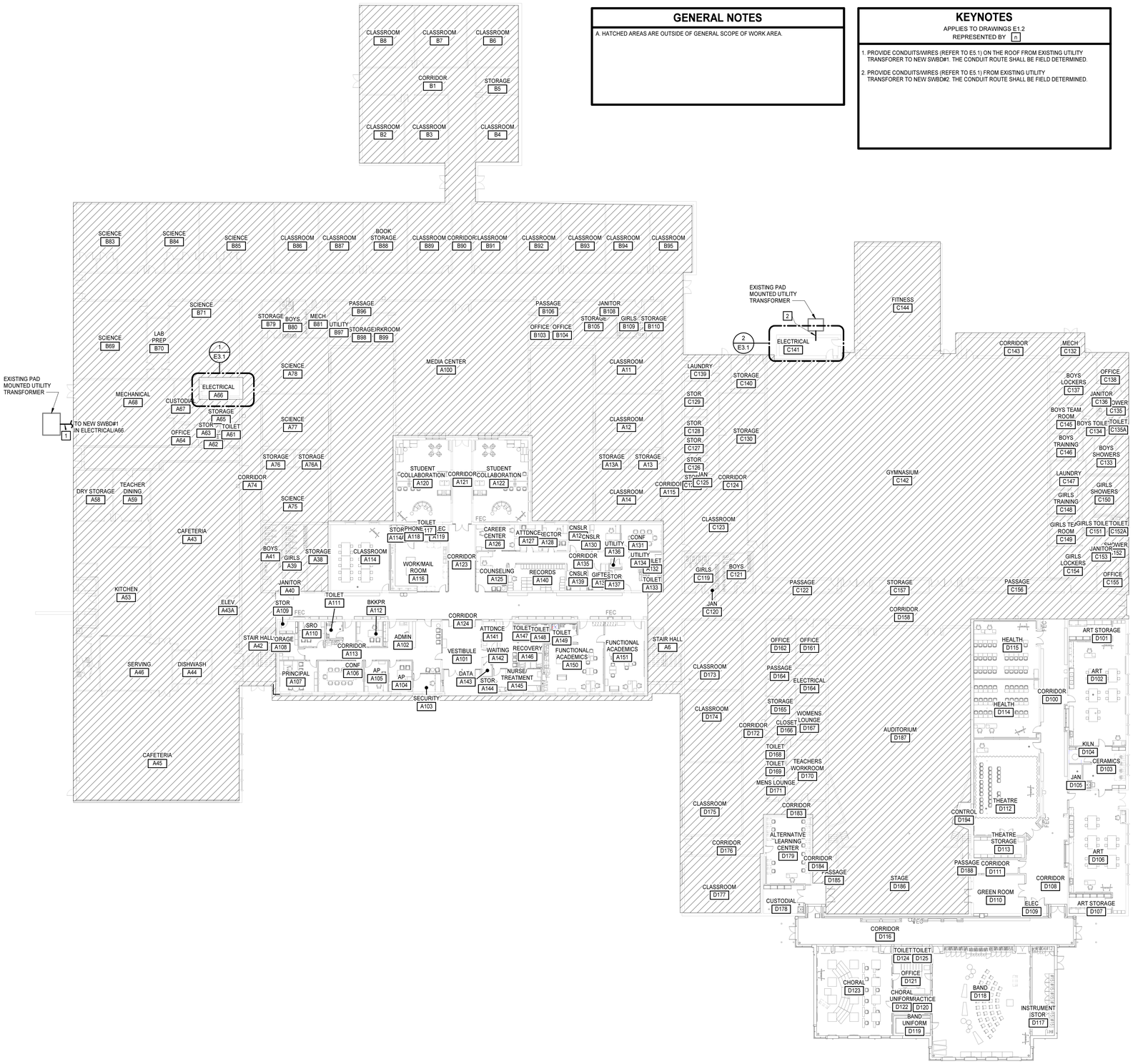
A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

KEYNOTES

APPLIES TO DRAWINGS E1.2
REPRESENTED BY [n]

1. PROVIDE CONDUITS/WIRES (REFER TO E5.1) ON THE ROOF FROM EXISTING UTILITY TRANSFORER TO NEW SWBD#1. THE CONDUIT ROUTE SHALL BE FIELD DETERMINED.

2. PROVIDE CONDUITS/WIRES (REFER TO E5.1) FROM EXISTING UTILITY TRANSFORER TO NEW SWBD#2. THE CONDUIT ROUTE SHALL BE FIELD DETERMINED.



N

FIRST FLOOR PLAN - OVERALL

1" = 20'-0"

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3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
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DATE	DESCRIPTION

FIRST FLOOR PLAN - OVERALL

E1.2

6/30/2022 1:35:21 PM

GENERAL NOTES

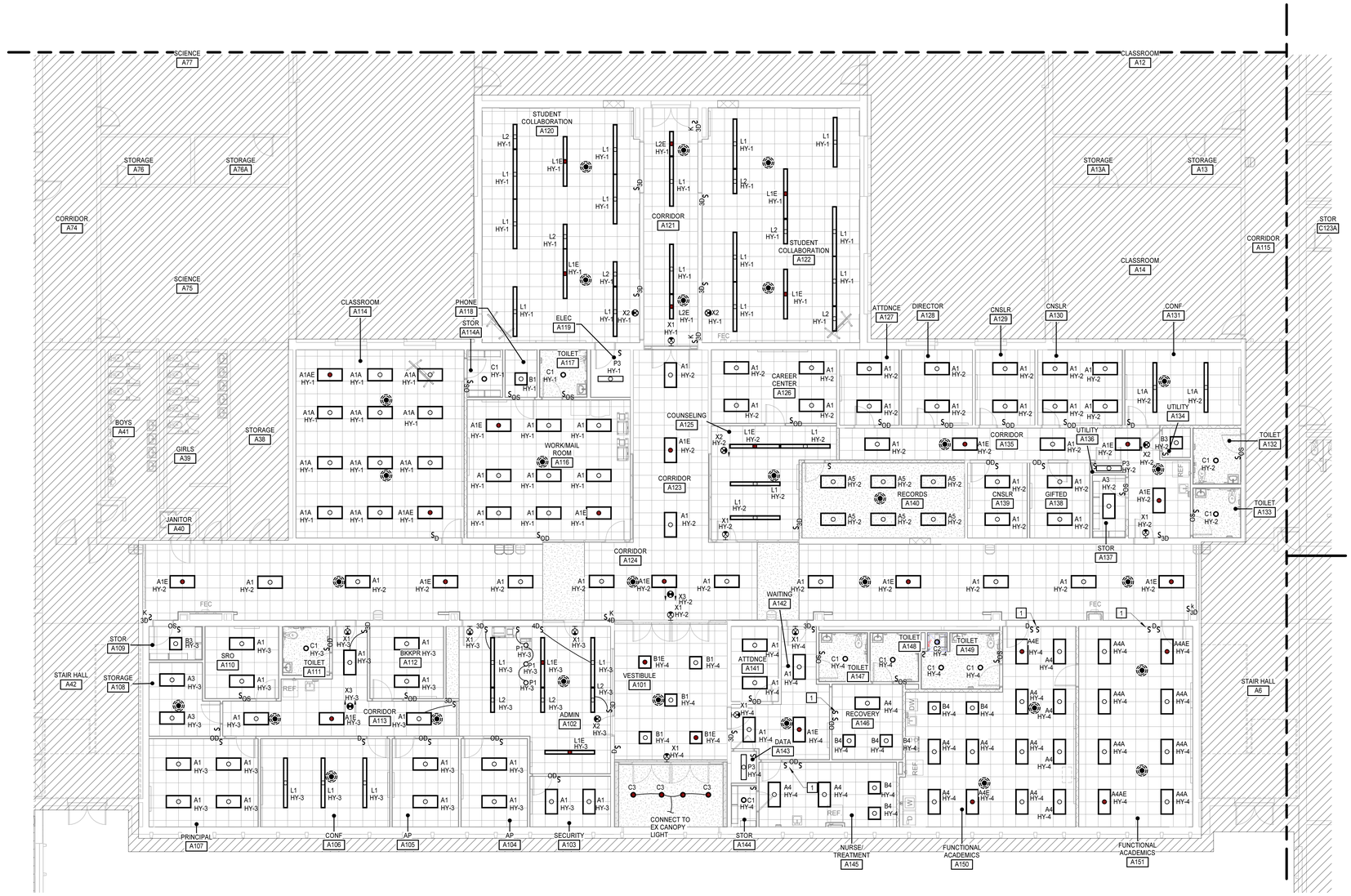
A. HATCHED AREAS ARE NOT OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. CONNECT ALL EGRESS LIGHTING AND EXIT SIGNS TO LIGHTING CIRCUIT SERVING THE AREA. ALL EGRESS LIGHTING AND EXIT SIGN SHALL BE UNSTITCHED.

KEYNOTES

APPLIES TO DRAWINGS E2.1.1
REPRESENTED BY n

1. PROVIDE SWITCH MODEL WBSD-010-CCT FROM MANUFACTURE GREENGATE FOR THE COLOR TUNING ABILITY.



N

FIRST FLOOR PLAN - LIGHTING - PART A
1/8" = 1'-0"

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FIRST FLOOR PLAN - LIGHTING - PART A

E2.1.1

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FIRST FLOOR PLAN - LIGHTING - PART D

1/8" = 1'-0"

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA..

B. CONNECT ALL EGRESS LIGHTING AND EXIT SIGNS TO LIGHTING CIRCUIT SERVING THE AREA . ALL EGRESS LIGHTING AND EXIT SIGN SHALL BE UNSWITCHED.

KEYNOTES

APPLIES TO DRAWINGS E2.1.2
REPRESENTED BY n

1. CONNECT TO EXSITING EXTERIOR LIGHTING CIRCUITS.
2. NEW LOCATION OF EXISTING LIGHT SWITCH. REFER TO KEY NOTE #16 ON E1.1 FOR ADDITIONAL INFORMATION.

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FIRST FLOOR PLAN - LIGHTING - PART D

E2.1.2

6/30/2022 1:35:33 PM

GENERAL NOTES

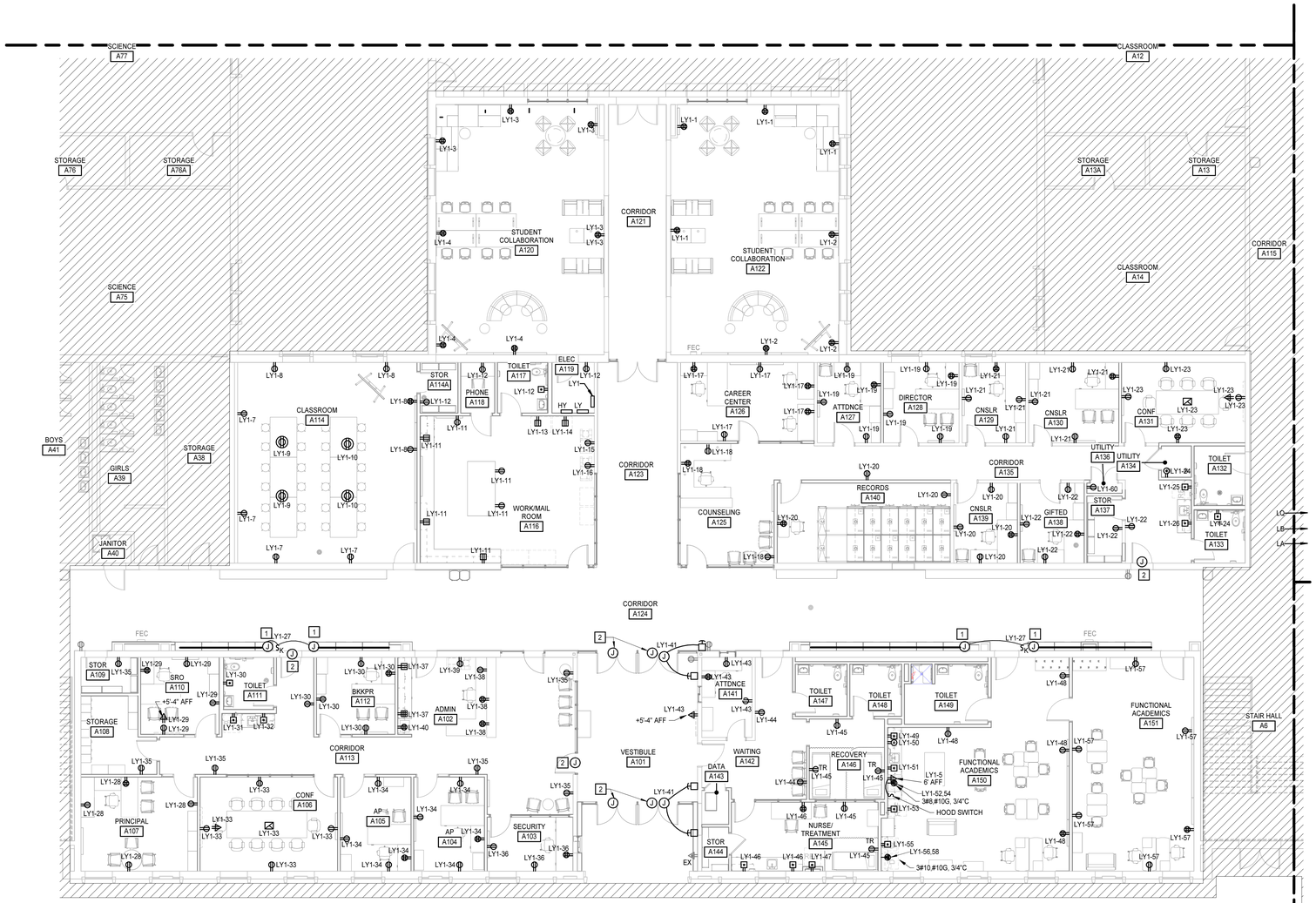
A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. RECEPTACLES AND DATA PORTS(REFER TO COMMUNICATION PLAN) LOCATED ON EXISTING WALLS SHALL BE SURFACE MOUNTED. COORDINATE CIRCUITRY PATHS TO AVOID OTHER WALL MOUNTED ITEMS, INCLUDING TACKBOARDS, MARKERBOARDS, ACOUSTICAL PANELS, ETC. WHERE MULTIPLE SURFACE MOUNTED ELECTRICAL DEVICES OCCUR ALONG ONE WALL, GROUP CIRCUITRY AND ROUTE RACEWAY DOWN FROM CEILING IN CORNER AND THEN HORIZONTALLY TO DEVICES.

KEYNOTES

APPLIES TO DRAWINGS E2.2.1
REPRESENTED BY n

1. PROVIDE DISPLAY CASE LIGHT (FLEXFIRELEDS/UB-AS-35K90C-12V, (1) NON-DIMMABLE HARDWIRE DRIVER) TO REPLACE EXISTING CASE LIGHTS. DRIVER LOCATION CAN BE FIELD DETERMINED.
2. PROVIDE CIRCUIT LY1-42 FOR DOOR CONTROL.



N

FIRST FLOOR PLAN - POWER - PART A
1/8" = 1'-0"

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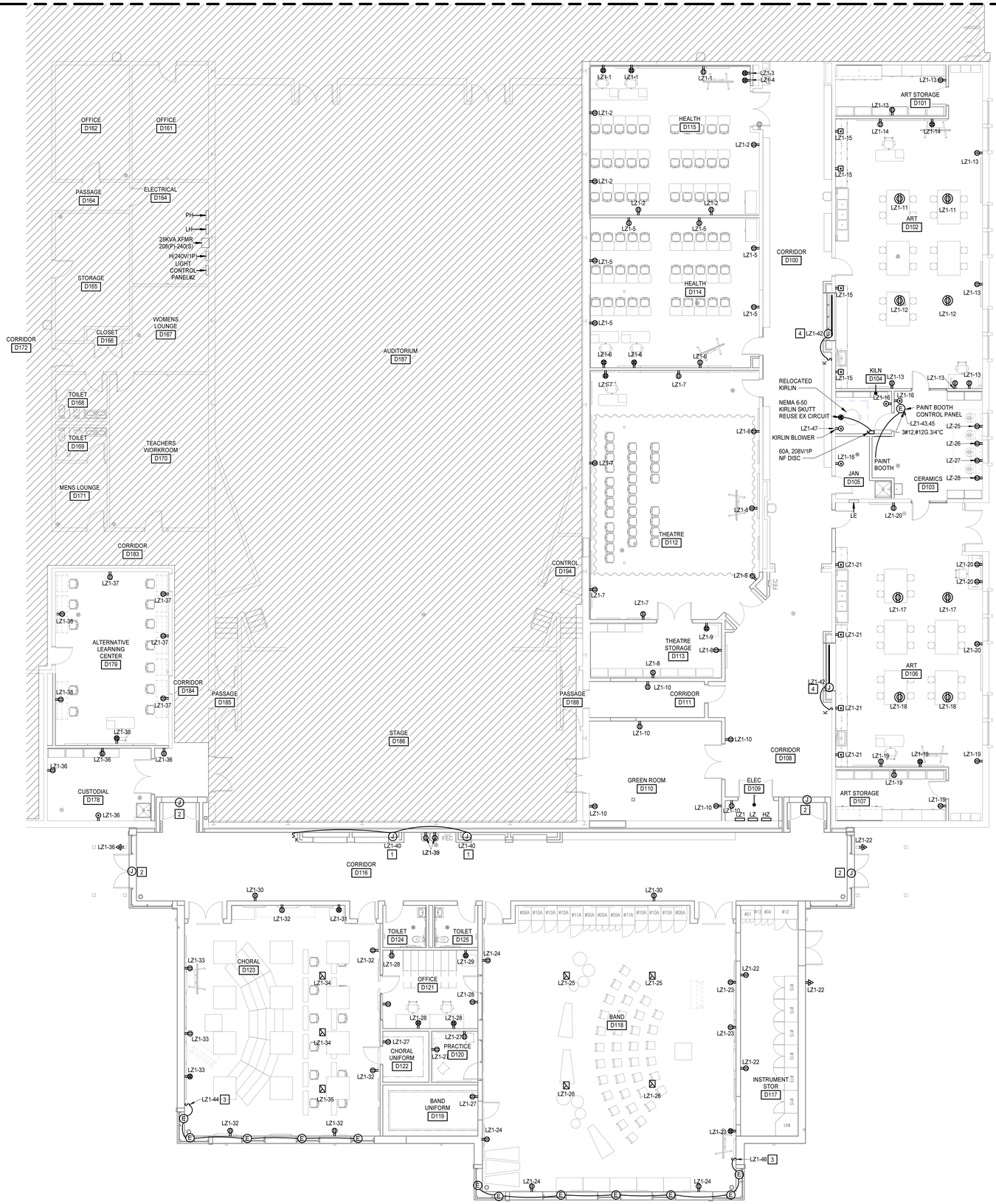
DATE	DESCRIPTION

FIRST FLOOR PLAN - POWER - PART A

E2.2.1

6/30/2022 1:35:36 PM



N

FIRST FLOOR PLAN - POWER - PART D

1/8" = 1'-0"

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. RECEPTACLES AND DATA PORTS(REFER TO COMMUNICATION PLAN) LOCATED ON EXISTING WALLS SHALL BE SURFACE MOUNTED. COORDINATE CIRCUITRY PATHS TO AVOID OTHER WALL MOUNTED ITEMS, INCLUDING TACKBOARDS, MARKERBOARDS, ACOUSTICAL PANELS, ETC. WHERE MULTIPLE SURFACE MOUNTED ELECTRICAL DEVICES OCCUR ALONG ONE WALL, GROUP CIRCUITRY AND ROUTE RACEWAY DOWN FROM CEILING IN CORNER AND THEN HORIZONTALLY TO DEVICES.

KEYNOTES

APPLIES TO DRAWINGS E2.2.2
REPRESENTED BY n

1. COORDINATE DISPLAY LIGHT WITH DISPLAY CASE VENDOR FOR ADDITIONAL INFORMATION.
2. PROVIDE CIRCUIT LZ1-41 FOR DOOR CONTROL.
3. MOTORIZED SHADES CONTROL SWITCH SHALL BE PROVIDED BY THE SHADE MANUFACTURER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
4. PROVIDE DISPLAY CASE LIGHT (FLEXFIRELEDS/UB-AS-35K90C-12V, (1) NON-DIMMABLE HARDWIRE DRIVER). DRIVER LOCATION CAN BE FIELD DETERMINED.

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FIRST FLOOR PLAN - POWER - PART D

E2.2.2

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GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA..

B. CONDUITS/JUNCTION BOXES OF SECURITY SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL CABLES, DEVICES, AND EQUIPMENTS OF SECURITY SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

C. CONDUITS/JUNCTION BOXES/WIRES (CAT6E) OF DATA/TELE /WIFI SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL DEVICES AND EQUIPMENTS OF DATA/TELE/WIFI SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

D. CONDUITS/JUNCTION BOXES/WIRES (MATCH EXISTING WIRES) OF INTERCOM SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL DEVICES AND EQUIPMENTS OF INTERCOM SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

E. TIME CLOCK SYSTEM INCLUDING TIME CLOCKS AND LOCATIONS SHALL BE PROVIDED/DETERMINED BY THE OWNER.

F. FIRE ALARM DEVICES SHALL BE CONNECTED TO EXITING FIRE ALARM SYSTEM.

G. RECEPTACLES (REFER TO POWER PLAN) AND DATA PORTS LOCATED ON EXISTING WALLS SHALL BE SURFACE MOUNTED. COORDINATE CIRCUITRY PATHS TO AVOID OTHER WALL MOUNTED ITEMS, INCLUDING TACKBOARDS, MARKERBOARDS, ACOUSTICAL PANELS, ETC. WHERE MULTIPLE SURFACE MOUNTED ELECTRICAL DEVICES OCCUR ALONG ONE WALL, GROUP CIRCUITRY AND ROUTE RACEWAY DOWN FROM CEILING IN CORNER AND THEN HORIZONTALLY TO DEVICES.

H. COORDINATE FIRE ALARM SUBCONTRACTOR WITH THE OWNER.

KEYNOTES

APPLIES TO DRAWINGS E2.3.1
REPRESENTED BY n

1. NEW LOCATION OF EXISTING INTERCOM EQUIPMENT AND ACCESSORIES. REFER TO KEYNOTE #3 ON E1.1 FOR ADDITIONAL INFORMATION.
2. NEW LOCATION OF EXISTING DURESS ALARM PUSHBUTTON. REFER TO KEYNOTE #4 ON E1.1 FOR ADDITIONAL INFORMATION.
3. NEW LOCATION OF EXISTING DURESS PANEL. REFER TO KEY NOTE #5 ON E1.1 FOR ADDITIONAL INFORMATION.
4. NEW LOCATION OF EXISTING AIPHONE SYSTEM. REFER TO KEY NOTE #6 ON E1.1 FOR ADDITIONAL INFORMATION.
5. NEW LOCATION OF EXISTING ALERT DEVICE. REFER TO KEY NOTE #7 ON E1.1 FOR ADDITIONAL INFORMATION.
6. NEW LOCATION OF EXISTING INDEX PHONE. REFER TO KEY NOTE #8 ON E1.1 FOR ADDITIONAL INFORMATION.
7. NEW LOCATION OF EXISTING FACP AND NAC. REFER TO KEYNOTE #9 ON E1.1 FOR ADDITIONAL INFORMATION.
8. NEW LOCATION OF EXISTING FAAP AND PULL STATION. REFER TO KEYNOTE #10 ON E1.1 FOR ADDITIONAL INFORMATION.
9. NEW LOCATION OF EXISTING CAMERA. REFER TO KEY NOTE #11 ON E1.1 FOR ADDITIONAL INFORMATION.
10. NEW LOCATION OF EXISTING CAMERA, SMOKE DETECTOR, SPEAKERS. REFER TO KEY NOTE #14 ON E1.1 FOR ADDITIONAL INFORMATION.
11. PROVIDE CONDUITS AND JUCTION BOXES FOR DOOR CONTROL. COORDINATE LOCATION WITH OWNER.

N

FIRST FLOOR PLAN - COMMUNICATIONS - PART A
1/8" = 1'-0"

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FIRST FLOOR PLAN - COMMUNICATIONS- PART A

E2.3.1

6/30/2022 1:35:43 PM

N

FIRST FLOOR PLAN - COMMUNICATIONS - PART D

1/8" = 1'-0"

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. CONDUITS/JUNCTION BOXES OF SECURITY SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL CABLES, DEVICES, AND EQUIPMENTS OF SECURITY SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

C. CONDUITS/JUNCTION BOXES/WIRES (CAT6E) OF DATA/TELE /WIFI SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL DEVICES AND EQUIPMENTS OF DATA/TELE/WIFI SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

D. CONDUITS/JUNCTION BOXES/WIRES (MATCH EXISTING WIRES) OF INTERCOM SYSTEM SHALL BE PROVIDED BY CONTRACTOR. ALL DEVICES AND EQUIPMENTS OF INTERCOM SYSTEM SHALL BE PROVIDED BY THE OWNER. COORDINATE THESE WITH THE OWNER.

E. TIME CLOCK SYSTEM INCLUDING TIME CLOCKS AND LOCATIONS SHALL BE PROVIDED/DETERMINED BY THE OWNER.

F. FIRE ALARM DEVICES SHALL BE CONNECTED TO EXITING FIRE ALARM SYSTEM.

G. RECEPTACLES (REFER TO POWER PLAN) AND DATA PORTS LOCATED ON EXISTING WALLS SHALL BE SURFACE MOUNTED. COORDINATE CIRCUITRY PATHS TO AVOID OTHER WALL MOUNTED ITEMS, INCLUDING TACKBOARDS, MARKERBOARDS, ACOUSTICAL PANELS, ETC. WHERE MULTIPLE SURFACE MOUNTED ELECTRICAL DEVICES OCCUR ALONG ONE WALL, GROUP CIRCUITRY AND ROUTE RACEWAY DOWN FROM CEILING IN CORNER AND THEN HORIZONTALLY TO DEVICES.

H. COORDINATE FIRE ALARM SUBCONTRACTOR WITH THE OWNER.

KEYNOTES

APPLIES TO DRAWINGS E2.3.2
REPRESENTED BY n

1. NEW LOCATION OF EXISTING IT RACK. REFER TO KEY NOTE #11 ON E1.1 FOR ADDITIONAL INFORMATION.

2. NEW LOCATION OF EXISTING CAMERA, SMOKER DETECTOR, SPEAKERS. REFER TO KEY NOTE #14 ON E1.1 FOR ADDITIONAL INFORMATION.

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DATE	DESCRIPTION

FIRST FLOOR PLAN - COMMUNICATIONS- PART D

E2.3.2

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DIV. 22 & 23 EQUIPMENT ELECTRICAL SCHEDULE - E2.4.1

NAME	VOLTAGE	PHASE	P/BD	CKT	DISCONNECTING MEANS	FEEDER SIZE	NOTES
BCC-1	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
BCC-2	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
BCC-3	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
BCC-4	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-7	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-9	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-11	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-13	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-14	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A101	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-A102-1	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-A102-2	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A106	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-A107	208 V	1	LY	17,19	NOTE 1	3#12,#12G, 3/4"C	
SSI-A114-1	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A114-2	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A116	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A120-1	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A120-2	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A122-1	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A122-2	208 V	1	LY	13,15	NOTE 1	3#12,#12G, 3/4"C	
SSI-A125	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-A126	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-A127	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-A131	208 V	1	LY	14,16	NOTE 1	3#12,#12G, 3/4"C	
SSI-A145	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A150-1	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A150-2	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A151-1	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
SSI-A151-2	208 V	1	LY	18,20	NOTE 1	3#12,#12G, 3/4"C	
VRF CONTROL PANEL	120 V		LY	22	NOTE 2	3#12,#12G, 3/4"C	

NOTES:
1. PROVIDE A 208V/1P, 30A, NEMA 1, 15A-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT MAINTAINING 4 FEET CLEARANCE IN FRONT OF DISCONNECT AND WITHOUT BLOCKING ANY SERVICE DOORS OR COVERS. LOCATION SHALL BE FIELD DETERMINED.

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS, & ELECTRICAL CONNECTIONS WITH MECHANICAL.

KEYNOTES

APPLIES TO DRAWINGS E2.4.1
REPRESENTED BY n

1. EXTEND EXISTING CIRCUITS TO RELOCATED EXISTING WATER HEATER AND CIRCULATOR PUMP.

N

FIRST FLOOR PLAN - MECH POWER - PART A
1/8" = 1'-0"

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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DATE	DESCRIPTION

FIRST FLOOR PLAN - MECH POWER - PART A

E2.4.1

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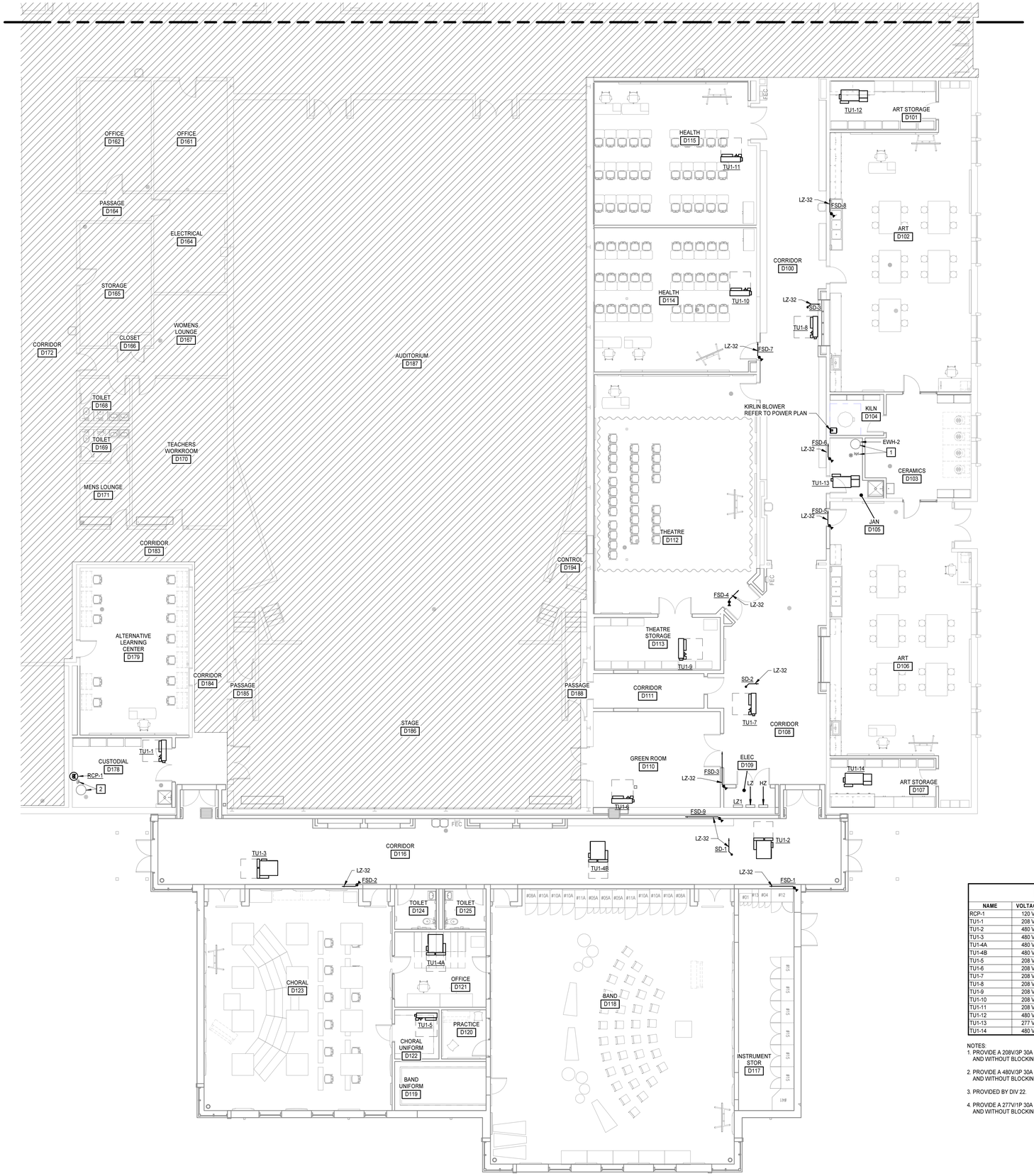

N

FIRST FLOOR PLAN - MECH POWER - PART D

1/8" = 1'-0"

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS, & ELECTRICAL CONNECTIONS WITH MECHANICAL.

KEYNOTES

APPLIES TO DRAWINGS E2.4.2
REPRESENTED BY [n]

1. EXTEND EXISTING CIRCUITS TO RELOCATED EXISTING WATER HEATER AND CIRCULATOR PUMP.
2. CIRCUITS FOR EXISTING WATER HEATER AND CIRCULATOR PUMP SHALL REMAIN.

DIV. 22 & 23 EQUIPMENT ELECTRICAL SCHEDULE - E2.4.2

NAME	VOLTAGE	PHASE	P/BD	CKT	DISCONNECTING MEANS	FEEDER SIZE	NOTES
RCP-1	120 V	1	LZ	35	NOTE 3	3#12,#12G, 3/4"C	
TU1-1	208 V	3	LZ	1,3,5	NOTE 1	4#12,#12G, 3/4"C	
TU1-2	480 V	3	HZ	6,8,10	NOTE 2	4#10,#10G, 3/4"C	
TU1-3	480 V	3	HZ	11,13,15	NOTE 2	4#10,#10G, 3/4"C	
TU1-4A	480 V	3	HZ	12,14,16	NOTE 2	4#12,#12G, 3/4"C	
TU1-4B	480 V	3	HZ	17,19,21	NOTE 2	4#12,#12G, 3/4"C	
TU1-5	208 V	3	LZ	2,4,6	NOTE 1	4#12,#12G, 3/4"C	
TU1-6	208 V	3	LZ	7,9,11	NOTE 1	4#12,#12G, 3/4"C	
TU1-7	208 V	3	LZ	8,10,12	NOTE 1	4#12,#12G, 3/4"C	
TU1-8	208 V	3	LZ	34,36,38	NOTE 1	4#12,#12G, 3/4"C	
TU1-9	208 V	3	LZ	13,15,17	NOTE 1	4#12,#12G, 3/4"C	
TU1-10	208 V	3	LZ	14,16,18	NOTE 1	4#12,#12G, 3/4"C	
TU1-11	208 V	3	LZ	19,21,23	NOTE 1	4#12,#12G, 3/4"C	
TU1-12	480 V	3	HZ	23,25,27	NOTE 2	4#12,#12G, 3/4"C	
TU1-13	277 V	1	HZ	24	NOTE 4	2#12,#12G, 3/4"C	
TU1-14	480 V	3	HZ	18,20,22	NOTE 2	4#10,#10G, 3/4"C	

NOTES:
1. PROVIDE A 208V/3P 30A NEMA 1 NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT MAINTAINING 4 FEET CLEARANCE IN FRONT OF DISCONNECT AND WITHOUT BLOCKING ANY SERVICE DOORS OR COVERS. LOCATION SHALL BE FIELD DETERMINED.
2. PROVIDE A 480V/3P 30A NEMA 1 NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT MAINTAINING 4 FEET CLEARANCE IN FRONT OF DISCONNECT AND WITHOUT BLOCKING ANY SERVICE DOORS OR COVERS. LOCATION SHALL BE FIELD DETERMINED.
3. PROVIDED BY DIV 22.
4. PROVIDE A 277V/1P 30A NEMA 1 NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT MAINTAINING 4 FEET CLEARANCE IN FRONT OF DISCONNECT AND WITHOUT BLOCKING ANY SERVICE DOORS OR COVERS. LOCATION SHALL BE FIELD DETERMINED.

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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

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FIRST FLOOR PLAN - MECH POWER - PART D

E2.4.2

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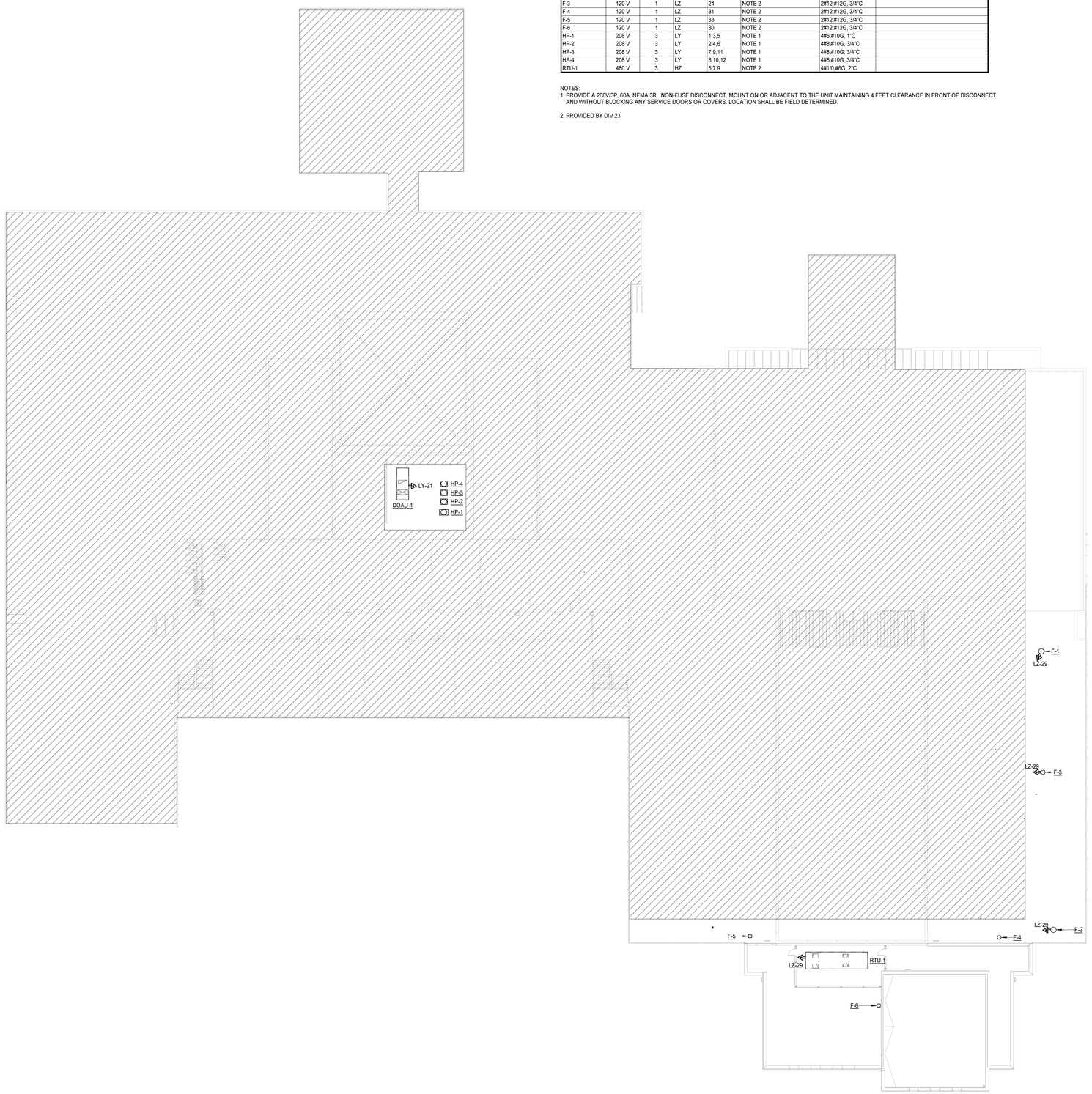
DIV. 22 & 23 EQUIPMENT ELECTRICAL SCHEDULE - E2.5

NAME	VOLTAGE	PHASE	P/BD	CKT	DISCONNECTING MEANS	FEEDER SIZE	NOTES
DOAU-1	480 V	3	HY	5,7,9	NOTE 2	4#4,#10G, 1"C	
F-1	120 V	1	LZ	20	NOTE 2	2#12,#12G, 3/4"C	
F-2	120 V	1	LZ	22	NOTE 2	2#12,#12G, 3/4"C	
F-3	120 V	1	LZ	24	NOTE 2	2#12,#12G, 3/4"C	
F-4	120 V	1	LZ	31	NOTE 2	2#12,#12G, 3/4"C	
F-5	120 V	1	LZ	33	NOTE 2	2#12,#12G, 3/4"C	
F-6	120 V	1	LZ	30	NOTE 2	2#12,#12G, 3/4"C	
HP-1	208 V	3	LY	1,3,5	NOTE 1	4#6,#10G, 1"C	
HP-2	208 V	3	LY	2,4,6	NOTE 1	4#8,#10G, 3/4"C	
HP-3	208 V	3	LY	7,9,11	NOTE 1	4#8,#10G, 3/4"C	
HP-4	208 V	3	LY	8,10,12	NOTE 1	4#8,#10G, 3/4"C	
RTU-1	480 V	3	HZ	5,7,9	NOTE 2	4#1/0,#6G, 2"C	

NOTES:
1. PROVIDE A 208V/3P, 60A, NEMA 3R, NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT MAINTAINING 4 FEET CLEARANCE IN FRONT OF DISCONNECT AND WITHOUT BLOCKING ANY SERVICE DOORS OR COVERS. LOCATION SHALL BE FIELD DETERMINED.

2. PROVIDED BY DIV 23.



N

ROOF PLAN - ELECTRTICAL
1" = 20'-0"

0' 10' 20' 40'
1" = 20'-0"

GENERAL NOTES

A. HATCHED AREAS ARE OUTSIDE OF GENERAL SCOPE OF WORK AREA.

B. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS, & ELECTRICAL CONNECTIONS WITH MECHANICAL.

KEYNOTES

APPLIES TO DRAWINGS E2.5
REPRESENTED BY n

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ROOF PLAN - ELECTRICAL

E2.5

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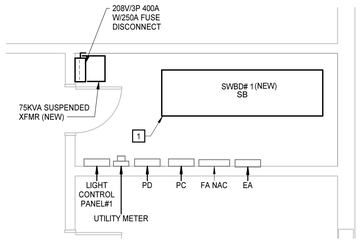
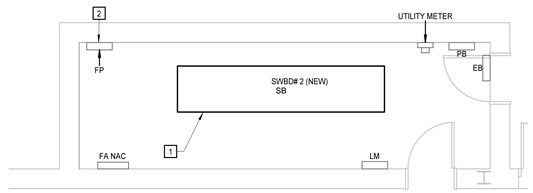


1 E1.2 | E3.1 **ENLARGED PLAN - ELECTRICAL / A66**

1/4" = 1'-0"



2 E1.2 | E3.1 **ENLARGED PLAN - ELECTRICAL / C141**

1/4" = 1'-0"

KEYNOTES

APPLIES TO DRAWINGS E3.1
REPRESENTED BY n

1. REFER TO POWER ONE-LINE DIAGRAMS ON E5.1 AND DEMOLITION PLAN E1.1 FOR ADDITIONAL INFORMATION.
2. NEW LOCATION OF EXISTING PANEL FP. REFER TO KEYNOTE 17 ON E1.1 FOR ADDITIONAL INFORMATION.

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ENLARGED FLOOR PLANS

E3.1

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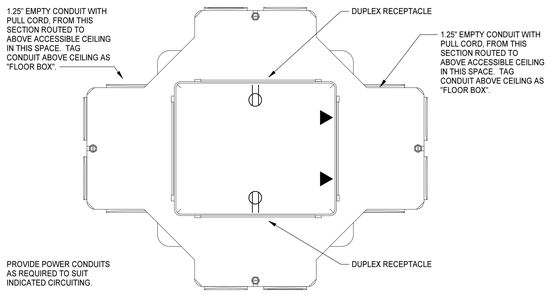
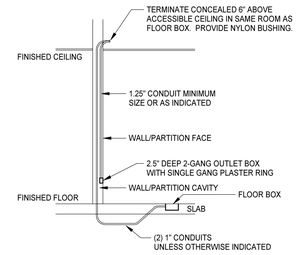
PROVIDDE CAST IRON BOXES WITH BRASS ACTIVATION KITS.



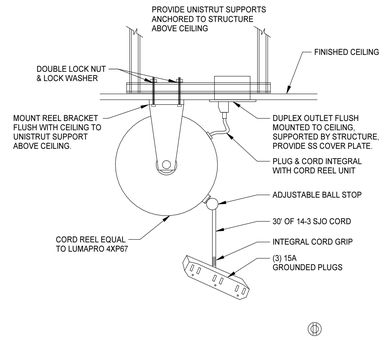
RECESSED FLOOR BOX DETAIL - TYPE 1

NO SCALE



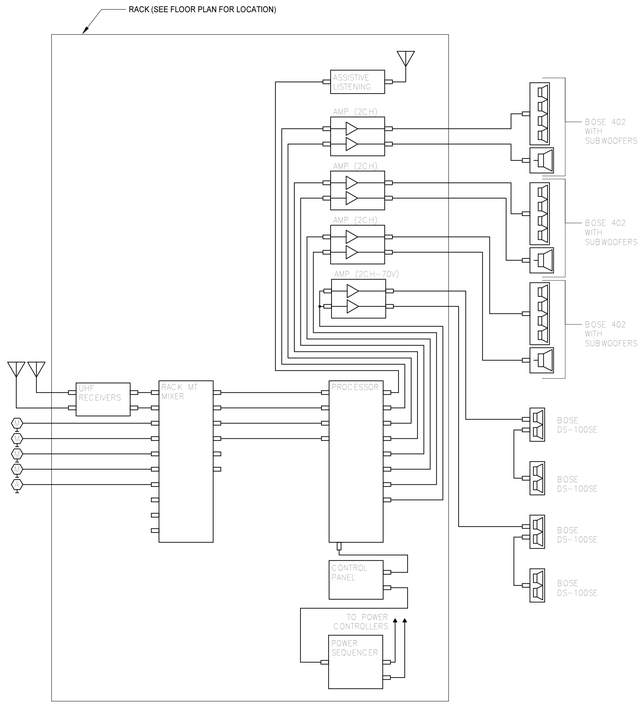
TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - FLOOR BOX

NO SCALE



CORD REEL ASSEMBLY DETAIL

NO SCALE



THEATRE, CHORAL & BAND ROOM SOUND SYSTEM DIAGRAM

NO SCALE

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ELECTRICAL DETAILS

E4.1

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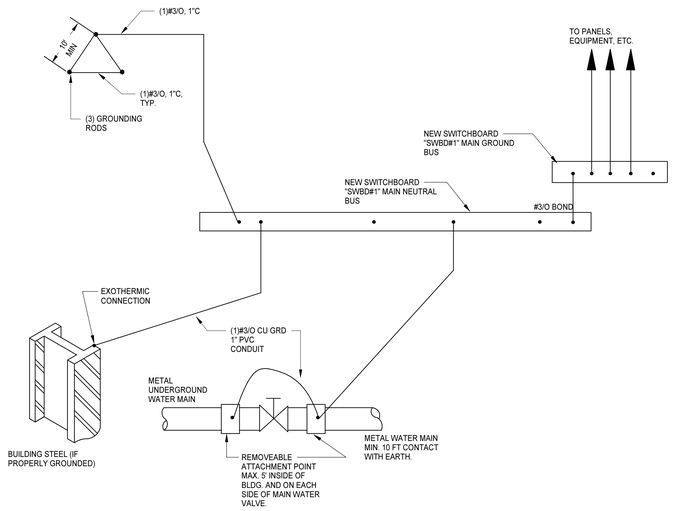
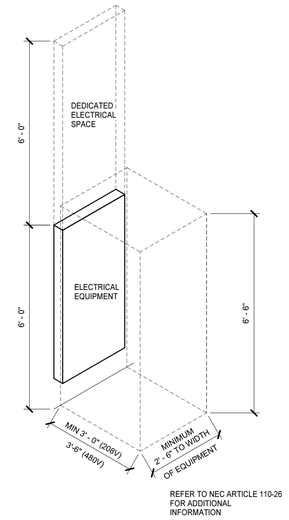


GROUNDING SYSTEM DIAGRAM - SWBD#1

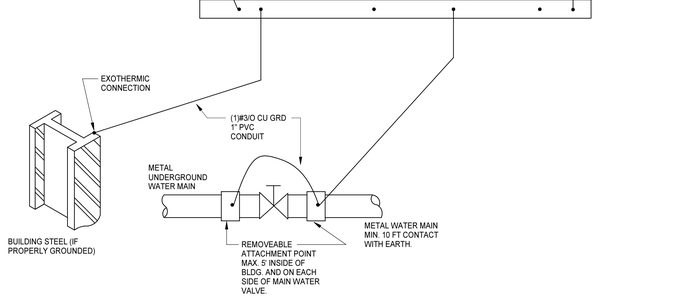
NO SCALE



REFER TO NEC ARTICLE 110-26 FOR ADDITIONAL INFORMATION

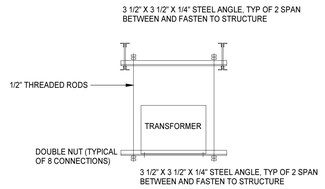
EQUIPMENT CLEARANCES

NO SCALE



GROUNDING SYSTEM DIAGRAM - SWBD#2

NO SCALE



TRANSFORMER MOUNTING DETAIL

1/8" = 1'-0"

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ELECTRICAL DETAILS

E4.2

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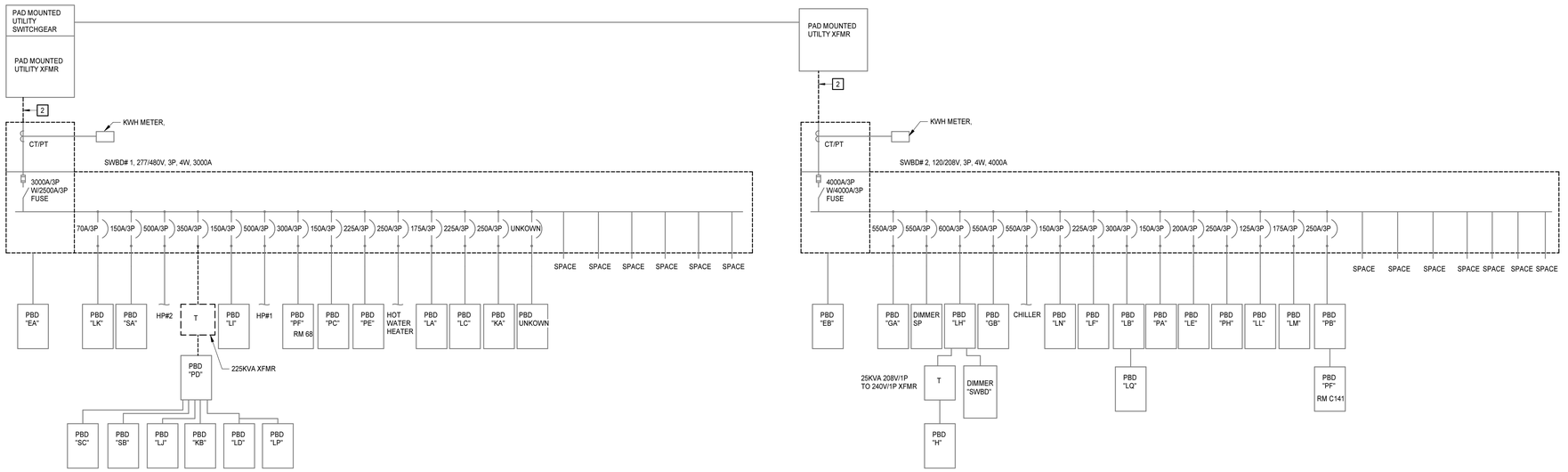
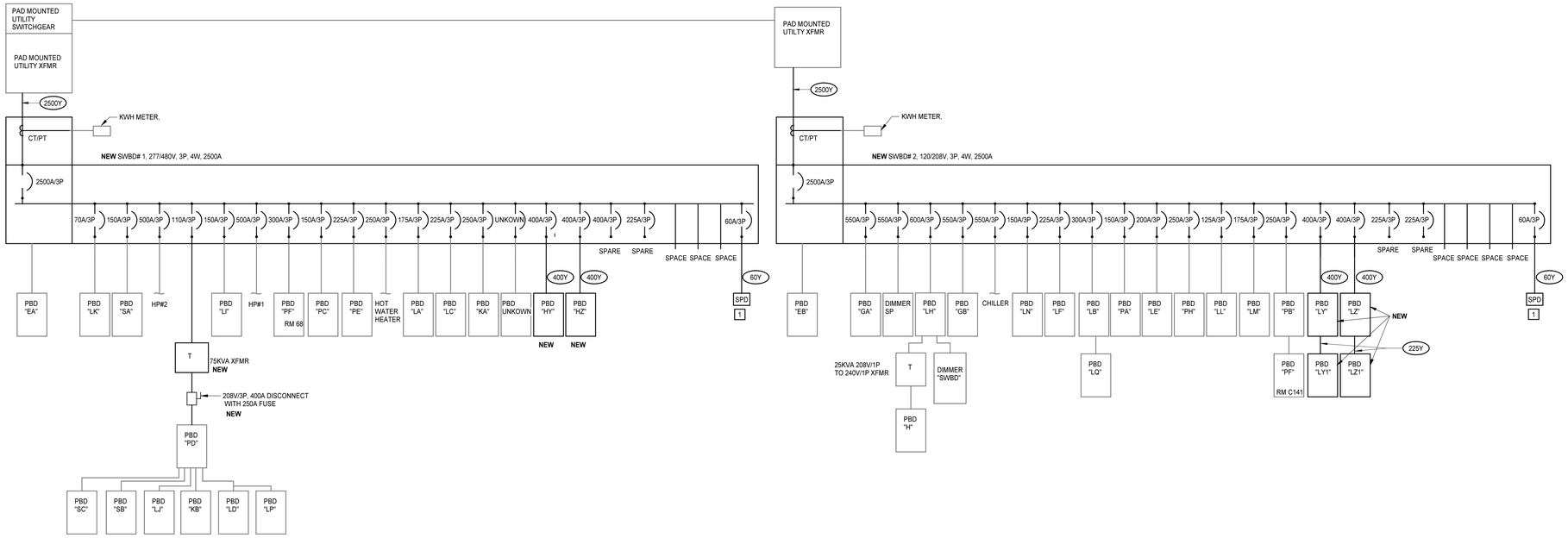


POWER ONE-LINE DIAGRAM - EXISTING

NO SCALE



POWER ONE-LINE DIAGRAM - UPDATED

NO SCALE

COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	150Y	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	175Y	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	200Y	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	225Y	1	4#4/0,#4 G	2 1/2"
250	1	3-250kCM,#4 G	2 1/2"	250Y	1	4-250kCM,#4 G	2 1/2"
300	1	3-350kCM,#4 G	2 1/2"	300Y	1	4-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	2"	350Y	2	4#2/0,#3 G	2"
400	2	3#3/0,#3 G	2"	400Y	2	4#3/0,#3 G	2"
450	2	3#4/0,#2 G	2 1/2"	450Y	2	4#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"	500Y	2	4-250kCM,#2 G	2 1/2"
600	2	3-350kCM,#1 G	3"	600Y	2	4-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"	700Y	2	4-500kCM,#1/0 G	4"
800	3	3-350kCM,#1/0 G	3"	800Y	3	4-350kCM,#1/0 G	3"
1000	3	3-500kCM,#2/0 G	4"	1000Y	3	4-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"	1200Y	4	4-350kCM,#3/0 G	3"
1600	5	3-500kCM,#4/0 G	4"	1600Y	5	4-500kCM,#4/0 G	4"
2000	6	3-500kCM,#250 G	4"	2000Y	6	4-500kCM,#250 G	4"
2500	7	3-500kCM,#350 G	4"	2500Y	7	4-500kCM,#350 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

TRANSFORMER SCHEDULE

KVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#1/0, #6 G, 2" C.	#6
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250kCM, #2 G, 2-1/2" C.	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#2/0, #6 G, 2" C.	(2 SETS) 4-3/0, #2 G, 2-1/2" C.	#2
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#4/0, #4 G, 2-1/2" C.	(2 SETS) 4-250kCM, #2/0 G, 2-1/2" C.	#2/0
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#2/0, #3 G, 2" C.	(3 SETS) 4-350kCM, #2/0 G, 3" C.	#2/0
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#4/0, #2 G, 2-1/2" C.	(4 SETS) 4-350kCM, #4/0 G, 4" C.	#3/0
500 kVA	LINEAR	480V-3Ø	208Y/120V	(3 SETS) 3-350kCM, #1/0 G, 4" C.	(6 SETS) 4-350kCM, 300kCM G, 4" C.	#3/0

GENERAL NOTES

A. EXISTING SWBD#1 & #2 SHALL BE REPLACED WITH NEW SWBD#1 & #2. DISCONNECT UTILITY FEEDERS, UTILITY METERS, AND ALL EXISTING PANEL/EQUIPMENT FEEDERS FROM THE EXISTING SWBD#1 & #2 AND RECONNECT THEM TO THE NEW SWBD#1 & #2.

B. INFORMATION INDICATED ON EXISTING POWER ONE-LINE DIAGRAM ARE BASED ON FIELD OBSERVATION AND POWER ONE-LINE DIAGRAM & PANEL SCHEDULES SHOWN ON EXISTING DRAWINGS.

C. VERIFY INFORMATION INDICATED ON EXISTING POWER ONE-LINE DIAGRAM IN FIELD.

KEYNOTES

APPLIES TO DRAWINGS E5.1
REPRESENTED BY n

1. COORDINATE WITH SPD MANUFACTURER FOR SPD BREAKER SIZE.
2. REMOVE EXISTING BUSES AND BUS DUCT.

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COMMONWEALTH OF VIRGINIA
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07-01-22
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COLONIAL HEIGHTS HIGH SCHOOL RENOVATION/ADDITION

3600 Conduit Rd, Colonial Heights, VA 23834

PROJECT NO: 611565
DATE: JULY 01, 2022

REVISIONS	
DATE	DESCRIPTION

POWER ONE-LINE DIAGRAM

E5.1

6/30/2022 1:36:00 PM

PANELBOARD SCHEDULE HY

LOCATION: ELEC A119 — FED FROM: SWBD#1

400 A MLO | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 18 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	LIGHTING	2.1	2.2					LIGHTING	1	20 A	2
3	20 A	1	LIGHTING			1.3	1.7			LIGHTING	1	20 A	4
5								11.4	--	SPACE ONLY	1	--	6
7	60 A	3	DOAU-1	11.4	--					SPACE ONLY	1	--	8
9						11.4	--			SPACE ONLY	1	--	10
11	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	12
13	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	14
15	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	16
17	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	18
19	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	20
21	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	22
23	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	24
25	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	26
27	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	28
29	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	30
31	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	32
33	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	34
35	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	36
37	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	38
39	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	40
41	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	42
				16 kVA		14 kVA		11 kVA					
				59 A		54 A		41 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	7388 VA	125.00%	9210 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	34168 VA	100.00%	34168 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 41.6 kVA
Total Est. Demand: 43.4 kVA
Total Conn. Current: 50 A
Total Est. Demand... 52 A

PANELBOARD SCHEDULE HZ

LOCATION: ELEC D109 — FED FROM: SWBD#1

400 A MLO | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 18 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	LIGHTING	2.4	2.2					LIGHTING	1	20 A	2
3	20 A	1	LIGHTING			2.3	1.6			LIGHTING	1	20 A	4
5								33.3	6.5				6
7	150 A	3	RTU-1	33.3	6.5					TU1-2	3	30 A	8
9						33.3	6.5						10
11								5.0	4.2				12
13	25 A	3	TU1-3	5.0	4.2					TU1-4	3	20 A	14
15						5.0	4.2						16
17								4.2	5.2				18
19	20 A	3	TU1-4B	4.2	5.2					TU1-14	3	25 A	20
21						4.2	5.2						22
23								4.3	3.7	TU1-13	1	20 A	24
25	20 A	3	TU1-12	4.3	--					SPACE ONLY	1	--	26
27						4.3	--			SPACE ONLY	1	--	28
29	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	30
31	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	32
33	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	34
35	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	36
37	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	38
39	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	40
41	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	42
				67 kVA		66 kVA		66 kVA					
				242 A		240 A		239 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	8368 VA	125.00%	10460 VA
EXTERIOR LIGHTING	135 VA	125.00%	169 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	178206 VA	100.00%	178206 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	12911 VA	100.00%	12911 VA

Panel Totals

Total Conn. Load: 199.7 kVA
Total Est. Demand: 201.8 kVA
Total Conn. Current: 240 A
Total Est. Demand... 243 A

PANELBOARD SCHEDULE LY

LOCATION: ELEC A119 — FED FROM: SWBD#2

400 A MLO | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				4.0	2.9								2
3	50 A	3	HP-1			4.0	2.9			HP-2	3	40 A	4
5								4.0	2.9				6
7				2.9	2.9								8
9	40 A	3	HP-3			2.9	2.9			HP-4	3	40 A	10
11								2.9	2.9				12
13	20 A	2	SSI & BCC-1	0.3	0.4					SSI & BCC-3	2	20 A	14
15						0.3	0.4						16
17	20 A	2	SSI & BCC-2					0.5	0.4	SSI & BCC-4	2	20 A	18
19				0.5	0.4								20
21	20 A	1	REC- ROOF			0.2	0.2			VRF CONTROL PANEL - RM...	1	20 A	22
23	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	24
25	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	26
27	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	28
29	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	30
31	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	32
33	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	34
35	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	36
37	--	1	SPACE ONLY	--	23.6								38
39	--	1	SPACE ONLY			--	22.9			LY1	3	225 A	40
41	--	1	SPACE ONLY					--	18.5				42
				38 kVA		37 kVA		32 kVA					
				321 A		312 A		267 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	36180 VA	63.82%	23090 VA
AC / HEAT PUMP	40707 VA	100.00%	40707 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	28806 VA	100.00%	28806 VA

Panel Totals

Total Conn. Load: 106.6 kVA
Total Est. Demand: 93.5 kVA
Total Conn. Current: 296 A
Total Est. Demand... 260 A

PANELBOARD SCHEDULE LZ

LOCATION: ELEC D109 — FED FROM: SWBD#2

400 A MLO | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				1.0	0.4								2
3	15 A	3	TU1-1			1.0	0.4			TU1-5	3	15 A	4
5								1.0	0.4				6
7				0.4	0.4								8
9	15 A	3	TU1-6			0.4	0.4			TU1-7	3	15 A	10
11								0.4	0.4				12
13				1.9	1.7								14
15	20 A	3	TU1-9			1.9	1.7			TU1-10	3	15 A	16
17								1.9	1.7				18
19				1.7	0.7					F-1	1	20 A	20
21	15 A	3	TU1-11			1.7	0.7			F-2	1	20 A	22
23								1.7	0.2	F-3	1	15 A	24
25	20 A	1	* POTTERY WHEEL- RM D103	1.2	1.2					* POTTERY WHEEL- RM D103	1	20 A	26
27	20 A	1	* POTTERY WHEEL- RM D103			1.2	1.2			* POTTERY WHEEL- RM D103	1	20 A	28
29	20 A	1	REC- ROOF					0.7	0.2	F-6	1	15 A	30
31	15 A	1	F-4	0.2	0.6					FIRE/SMOKE DAMPERS	1	20 A	32
33	15 A	1	F-5			0.2	0.4						34
35	15 A	1	RCP-1 - RM D178					1.2	0.4	TU1-8	3	15 A	36
37	--	1	SPACE ONLY	--	0.4								38
39	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	40
41	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	42
43	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	44
45	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	46
47	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	48
49	--	1	SPACE ONLY	--	13.7								50
51	--	1	SPACE ONLY			--	12.8			LZ1	3	225 A	52
53	--	1	SPACE ONLY					--	9.7				54
				25 kVA		24 kVA		20 kVA					
				217 A		205 A		166 A					

*PROVIDE A GFI CIRCUIT BREAKER AS INDICATED.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	26820 VA	68.64%	18410 VA
AC / HEAT PUMP	24930 VA	100.00%	24930 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	17622 VA	100.00%	17622 VA

Panel Totals

Total Conn. Load: 69.4 kVA
Total Est. Demand: 61.0 kVA
Total Conn. Current: 193 A
Total Est. Demand... 169 A

ELEC D109

PANELBOARD SCHEDULE LY1

LOCATION: ELEC A119 — FED FROM: LY

225 A MLO | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECS - RM A122	1.4	1.1					RECS - RM A122	1	20 A	2
3	20 A	1	RECS - RM A120			1.4	1.1			RECS - RM A120	1	20 A	4
5	20 A	1	HOOD - RM 150					0.2	0.0	SPARE	1	20 A	6
7	20 A	1	RECS - RM A114	0.7	0.9					RECS - RM A114	1	20 A	8
9	20 A	1	* CORD REELS - RM A114			0.7	0.7			* CORD REELS - RM A114	1	20 A	10
11	20 A	1	RECS - RM A116					1.1	0.7	RECS - RM 89,A119,A118	1	20 A	12
13	20 A	1	* VENDING MACHINE - RM A116	1.4	1.4					* VENDING MACHINE - RM A116	1	20 A	14
15	20 A	1	PLOTTER - RM A116			0.7	0.7			PLOTTER - RM A116	1	20 A	16
17	20 A	1	RECS - RM A126					1.4	0.7	RECS - RM A125	1	20 A	18
19	20 A	1	RECS - RM A127, A128	1.8	1.6					RECS - RM A139, A140, A135	1	20 A	20
21	20 A	1	RECS - RM A129, A130			1.8	1.3			RECS - RM A138, A135, A137	1	20 A	22
23	20 A	1	RECS - RM A131					1.4	0.4	RECS - RM A132, A133, A134	1	20 A	24
25	20 A	1	REFRIG. - RM A135	1.2	1.2					MICRO - RM A135	1	20 A	26
27	20 A	1	DISPLAY CASE LIGHT - RM A124			0.4	0.9			RECS - RM A107	1	20 A	28
29	20 A	1	RECS - RM A110					1.1	1.3	RECS - RM A112, A111, A113	1	20 A	30
31	20 A	1	REFRIG - RM A113	1.2	1.4					MICRO. - RM A113	1	20 A	32
33	20 A	1	RECS - RM A106			1.3	1.8			RECS - RM A104, A105	1	20 A	34
35	20 A	1	RECS - RM A108,A109,A113					1.1	0.7	RECS - RM A103	1	20 A	36
37	20 A	1	RECS - RM A102	0.5	0.9					RECS - RM A102	1	20 A	38
39	20 A	1	PLOTTER - RM A102			0.2	0.4			TELECOM EQUIP. - RM A102	1	20 A	40
41	20 A	1	AUTO DOORS - RM A101					1.0	0.3	DOOR CONTROL	1	20 A	42
43	20 A	1	RECS - RM A141, A101	0.9	0.4					RECS - RM A147, A148, A149,...	1	20 A	44
45	20 A	1	RECS - RM A145, A146			0.9	0.7			RECS - RM A145	1	20 A	46
47	20 A	1	REFRIG. - RM A145					1.4	1.1	RECS - RM A150	1	20 A	48
49	20 A	1	MICRO. - RM A150	1.4	0.5					DISHWASHER - RM A150	1	20 A	50
51	20 A	1	REC - RM A150			1.2	3.3			OVEN - RM A150	2	40 A	52
53	20 A	1	REFRIG. - RM A150					1.2	3.3				54
55	20 A	1	WASHER - RM A150	1.4	2.2					DRYER - RM	2	30 A	56
57	20 A	1	RECS - RM A151			1.3	2.2						58
59	20 A	1	SPARE					0.0	0.2	REC - RM A134	1	20 A	60
61	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	62
63	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	64
65	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	66
67	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	68
69	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	70
71	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	72
73	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	74
75	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	76
77	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	78
79	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	80
81	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	82
83	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	84
				24 kVA		23 kVA		19 kVA					
				202 A		197 A		154 A					

* PROVIDE A GFI CIRCUIT BREAKER AS INDICATED.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	36000 VA	63.89%	23000 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	28806 VA	100.00%	28806 VA

Panel Totals

Total Conn. Load: 65.0 kVA
Total Est. Demand: 52.0 kVA
Total Conn. Current: 180 A
Total Est. Demand... 144 A

PANELBOARD SCHEDULE LZ1

LOCATION: — FED FROM: LZ

225 A MLO | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECS- RM D115	0.9	0.9					RECS- RM D115	1	20 A	2
3	20 A	1	RECS- RM D115			0.7	0.7			RECS- RM D115	1	20 A	4
5	20 A	1	RECS- RM D114					1.1	0.9	RECS- RM D114	1	20 A	6
7	20 A	1	RECS- RM D112	1.1	0.9					RECS- RM D112, D113	1	20 A	8
9	20 A	1	SOUND EQUIP. - RM D113			0.7	1.1			RECS- RM D110, D111, D109,...	1	20 A	10
11	20 A	1	CORD REELS - RM D102					0.7	0.7	CORD REELS - RM D102	1	20 A	12
13	20 A	1	RECS- RM D102, D101	1.3	0.5					RECS- RM D102	1	20 A	14
15	20 A	1	RECS- RM D102			0.7	0.5			RECS- RM D105, D103, D104	1	20 A	16
17	20 A	1	CORD REELS - RM D106					0.7	0.7	CORD REELS - RM D106	1	20 A	18
19	20 A	1	RECS- RM D106, D107	1.1	0.7					RECS- RM D106	1	20 A	20
21	20 A	1	RECS- RM D106			0.7	0.7			RECS- RM D117 & EXTERIOR	1	20 A	22
23	20 A	1	RECS- RM D118					0.7	0.7	RECS- RM D118	1	20 A	24
25	20 A	1	RECS- RM D118	0.7	0.7					RECS- RM D118	1	20 A	26
27	20 A	1	RECS- RM D120, D122, D119			0.7	1.1			RECS- RM D121	1	20 A	28
29	20 A	1	SOUND EQUIP. - RM D121					0.7	0.4	RECS- RM D116, D124, D125	1	20 A	30
31	20 A	1	SOUND EQUIP. - RM D123	0.7	0.9					RECS- RM D123	1	20 A	32
33	20 A	1	RECS- RM D123			0.7	0.7			RECS- RM D123	1	20 A	34
35	20 A	1	RECS- RM D123					0.4	0.9	RECS- RM D184, D178 &...	1	20 A	36
37	20 A	1	RECS- RM D179	0.7	0.7					RECS- RM D179	1	20 A	38
39	20 A	1	* EWC- CORRIDOR D116			1.0	0.4			DISPLAY LIGHTS	1	20 A	40
41	20 A	1	DOOR CONTROL					0.2	0.4	DISPLAY LIGHTS	1	20 A	42
43	20 A	2	PAINT BOOTH - RM D103	0.8	1.0					MOTORIZED SHADES - RM D123	1	20 A	44
45						0.8	1.4			MOTORIZED SHADES - RM D118	1	20 A	46
47	20 A	1	KIRLIN BLOWER -RM D104					0.5	0.0	SPARE	1	20 A	48
49	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	50
51	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	52
53	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	54
55	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	56
57	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	58
59	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	60
61	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	62
63	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	64
65	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	66
67	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	68
69	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	70
71	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	72
73	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	74
75	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	76
77	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	78
79	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	80
81	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	82
83	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	84
				14 kVA		13 kVA		10 kVA					
				118 A		110 A		81 A					

* PROVIDE A GFI CIRCUIT BREAKER AS INDICATED.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	26100 VA	69.16%	18050 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	10080 VA	100.00%	10080 VA

Panel Totals

Total Conn. Load: 36.2 kVA
Total Est. Demand: 28.1 kVA
Total Conn. Current: 100 A
Total Est. Demand... 78 A

HY	HZ	--
LY	LZ	--
LY1	LZ1	--

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COLONIAL HEIGHTS HIGH SCHOOL
RENOVATION/ADDITION
3600 Conduit Rd, Colonial Heights, VA 23834

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PANELBOARD SCHEDULES

E5.2

6/30/2022 1:36:01 PM