WRC Decentralization Phase 4 & Fire Alarm & Fire Suppression Phase 3 (#9279.40 & #9279.41) Bid Issuance #4
Iowa Department of Administrative Services

1251 334th St, Woodward, IA 50276

SHEET INDEX

CERTIFICATIONS

ARCHITECT

LICENSED ARCHITECT — CAMERON L. MANLEY — 06716 — IOWA

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE — DATE: 03-30-2026

PRINTED OR TYPED NAME: Cameron L. Manley

LICENSE NUMBER: 06716

MY LICENSE RENEWAL DATE IS JUNE 30: 2027

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: A SHEETS

MECHANICAL ENGINEER

LICENSED PROFESSIONAL ENGINEER — JOHN D. BAUMHOVER — P25737 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE — DATE: 03-30-2026

PRINTED OR TYPED NAME: John D. Baumhover

LICENSE NUMBER: P25737

MY LICENSE RENEWAL DATE IS DECEMBER 31: 2026

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ELECTRICAL ENGINEER

LICENSED PROFESSIONAL ENGINEER — KEVIN J. BRUXVOORT — 19927 — IOWA

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SIGNATURE — DATE: 03-30-2026

PRINTED OR TYPED NAME: Kevin J. Bruxvoort

LICENSE NUMBER: 19927

MY LICENSE RENEWAL DATE IS DECEMBER 31: 2027

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STRUCTURAL ENGINEER

LICENSED PROFESSIONAL ENGINEER — CHRISTOPHER R. MARVIN — P27417 — IOWA

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SIGNATURE — DATE: 03-30-2026

PRINTED OR TYPED NAME: Christopher R. Marvin

LICENSE NUMBER: P27417

MY LICENSE RENEWAL DATE IS DECEMBER 31: 2027

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CIVIL ENGINEER

LICENSED PROFESSIONAL ENGINEER — KYLE A. LAWSON — P26414 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE — DATE: 03-30-2026

PRINTED OR TYPED NAME: Kyle A. Lawson

LICENSE NUMBER: 26414

MY LICENSE RENEWAL DATE IS DECEMBER 31: 2027

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SHIVEHATTERY
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515.223.8164 | SHIVE-HATTERY.COM

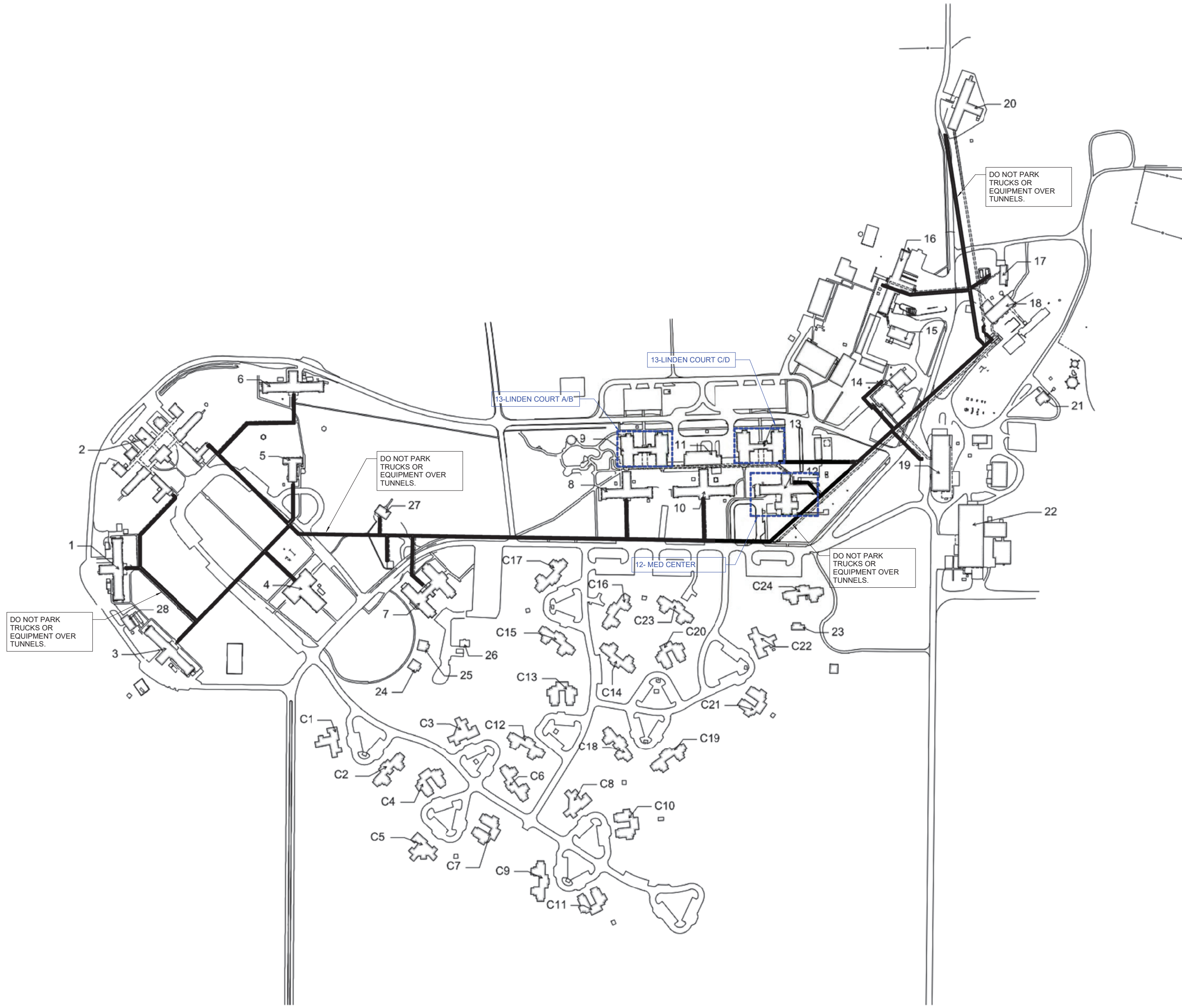
WRC Decentralization Phase 4 & Fire Alarm & Fire Suppression Phase 3 (#9279.40 & #9279.41) Bid Issuance #4

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

CONSTRUCTION DOCUMENTS
ISSUE DATE: 03-27-2026

PROJECT NUMBER: 2240007040

00-G000



LEGEND

Buildings
1. WESTWOOD
2. ADMINISTRATION
3. LARCHES
4. MYERS HALL
5. CHAPEL
6. HEMLOCK
7. EMPLOYEE HOME
8. MAPLE LODGE
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10. ELMCREST
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22. DISTRIBUTION
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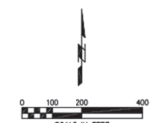
C18. 101 CHERRY
C19. 103 CHERRY
C20. 104 CHERRY
C21. 105 CHERRY
C22. 107 CHERRY
C23. 103 CEDAR
C24. 201 CEDAR



1 SITE MAP PH4
NOT TO SCALE

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DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

CAMPUS MAP

00-G001

Autodesk Revit 2022

2024 IEBC CODE SUMMARY

ORIGINAL PROJECT SUMMARY:

AS PART OF A LARGER, PHASED PROJECT TO DECENTRALIZE THE WOODWARD RESOURCE CENTER CAMPUS, THE ORIGINAL PROJECT SCOPE AT LINDEN COURT WAS TO REMOVE THE CENTRALIZED STEAM HEAT AND CHILLED WATER COOLING AND TO DESIGN NEW DECENTRALIZED HEATING AND COOLING SYSTEMS, AS WELL AS REPLACE THE FIRE ALARM SYSTEM IN THE BUILDINGS. THE ARCHITECTURAL SCOPE WAS MINIMAL AND INCLUDED INFILL OF EXTERIOR OPENINGS, CONSTRUCTION OF SMALL FURNACE ROOMS IN THE BASEMENT OF EACH BUILDING WING, AND LIMITED CEILING REPLACEMENT.

CHAPTER 3 PROVISIONS FOR ALL COMPLIANCE METHODS

301.1 APPLICABILITY: THE REPAIR, ALTERATION, CHANGE OF OCCUPANCY, ADDITION OR RELOCATION OF ALL EXISTING BUILDINGS SHALL COMPLY WITH SECTION 301.2, 301.3 OR 301.4. THE PROVISIONS OF SECTIONS 302 THROUGH 309 SHALL APPLY TO ALL ALTERATIONS, REPAIRS, ADDITIONS, RELOCATION OF STRUCTURES AND CHANGES OF OCCUPANCY REGARDLESS OF COMPLIANCE METHOD.

301.2 REPAIRS: REPAIRS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 4.

301.3 ALTERATION, ADDITION OR CHANGE OF OCCUPANCY: THE ALTERATION, ADDITION OR CHANGE OF OCCUPANCY OF ALL EXISTING BUILDINGS SHALL COMPLY WITH ONE OF THE METHODS LISTED IN SECTION 301.3.1, 301.3.2 OR 301.3.3 AS SELECTED BY THE APPLICANT. SECTIONS 301.3.1 THROUGH 301.3.3 SHALL NOT BE APPLIED IN COMBINATION WITH EACH OTHER.

301.3.2 WORK AREA COMPLIANCE METHOD: ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH THE APPLICABLE REQUIREMENTS OF CHAPTERS 6 THROUGH 12 OF THIS CODE SHALL BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.

306.1 SCOPE: THE PROVISIONS OF SECTIONS 306.1 THROUGH 306.7.16 APPLY TO MAINTENANCE AND REPAIR, CHANGE OF OCCUPANCY, ADDITIONS AND ALTERATIONS TO EXISTING BUILDINGS, INCLUDING THOSE IDENTIFIED AS HISTORIC BUILDINGS.

306.7.2 ACCESSIBLE MEANS OF EGRESS: ACCESSIBLE MEANS OF EGRESS REQUIRED BY CHAPTER 10 OF THE INTERNATIONAL BUILDING CODE ARE NOT REQUIRED TO BE ADDED IN EXISTING FACILITIES.

CHAPTER 6 CLASSIFICATION OF WORK

603.1 SCOPE: LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK AREA IS EQUAL TO OR LESS THAN 50 PERCENT OF THE BUILDING AREA.

EXCEPTION: THE MOVEMENT OR ADDITION OF NONFIXED AND MOVABLE FIXTURES, CASES, RACKS, COUNTERS AND PARTITIONS NOT OVER 5 FEET 9 INCHES (1753 MM) IN HEIGHT SHALL NOT BE CONSIDERED A LEVEL 2 ALTERATION.

603.2 APPLICATION: LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 FOR LEVEL 1 ALTERATIONS AS WELL AS THE PROVISIONS OF CHAPTER 8.

CHAPTER 7 ALTERATIONS LEVEL 1

701.1 SCOPE: LEVEL 1 ALTERATIONS AS DESCRIBED IN SECTION 602 SHALL COMPLY WITH THE REQUIREMENTS OF THIS CHAPTER. LEVEL 1 ALTERATIONS TO HISTORIC BUILDINGS SHALL COMPLY WITH THIS CHAPTER, EXCEPT AS MODIFIED IN CHAPTER 12.

701.2 CONFORMANCE: AN EXISTING BUILDING OR PORTION THEREOF SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION.
EXCEPTION: WHERE THE CURRENT LEVEL OF SAFETY OR SANITATION IS PROPOSED TO BE REDUCED, THE PORTION ALTERED SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

702.1 INTERIOR FINISHES: NEWLY INSTALLED INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.

702.7 MATERIALS AND METHODS: NEW WORK SHALL COMPLY WITH THE MATERIALS AND METHODS REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE , INTERNATIONAL ENERGY CONSERVATION CODE, INTERNATIONAL MECHANICAL CODE AND INTERNATIONAL PLUMBING CODE, AS APPLICABLE, THAT SPECIFY MATERIAL STANDARDS, DETAIL OF INSTALLATION AND CONNECTION, JOINTS, PENETRATIONS AND CONTINUITY OF ANY ELEMENT, COMPONENT OR SYSTEM IN THE BUILDING.

703.1 GENERAL: ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.

704.1 GENERAL: ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED FOR THE MEANS OF EGRESS.

CHAPTER 8 ALTERATIONS LEVEL 2

801.1 SCOPE: LEVEL 2 ALTERATIONS AS DESCRIBED IN SECTION 603 SHALL COMPLY WITH THE REQUIREMENTS OF THIS CHAPTER.
EXCEPTION: BUILDINGS IN WHICH THE RECONFIGURATION IS EXCLUSIVELY THE RESULT OF COMPLIANCE WITH THE ACCESSIBILITY REQUIREMENTS OF SECTION 306.7.1 SHALL BE PERMITTED TO COMPLY WITH CHAPTER 7.

801.2 ALTERATION LEVEL 1 COMPLIANCE: IN ADDITION TO THE REQUIREMENTS OF THIS CHAPTER, ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 7.

801.3 SYSTEM INSTALLATIONS: REQUIREMENTS RELATED TO WORK AREA ARE NOT APPLICABLE WHERE THE LEVEL 2 ALTERATIONS ARE LIMITED SOLELY TO ONE OR MORE OF THE FOLLOWING:

1. MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, FIRE PROTECTION SYSTEMS AND ABATEMENT OF HAZARDOUS MATERIALS.
2. WINDOWS, HARDWARE, OPERATING CONTROLS, ELECTRICAL OUTLETS AND SIGNS.
3. ALTERATIONS UNDERTAKEN FOR THE PRIMARY PURPOSE OF INCREASING THE ACCESSIBILITY OF A FACILITY.

801.4 COMPLIANCE: NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

EXCEPTIONS:

1. WHERE WINDOWS ARE ADDED THEY ARE NOT REQUIRED TO COMPLY WITH THE LIGHT AND VENTILATION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
2. NEWLY INSTALLED ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 806.
3. THE LENGTH OF DEAD-END CORRIDORS IN NEWLY CONSTRUCTED SPACES SHALL ONLY BE REQUIRED TO COMPLY WITH THE PROVISIONS OF SECTION 804.8.
4. THE MINIMUM CEILING HEIGHT OF THE NEWLY CREATED HABITABLE AND OCCUPIABLE SPACES AND CORRIDORS SHALL BE 7 FEET (2134 MM).
5. WHERE PROVIDED IN BELOW-GRADE TRANSPORTATION STATIONS, EXISTING AND NEW ESCALATORS SHALL BE PERMITTED TO HAVE A CLEAR WIDTH OF LESS THAN 32 INCHES (815 MM).
6. NEW STRUCTURAL MEMBERS AND CONNECTIONS SHALL BE PERMITTED TO COMPLY WITH ALTERNATIVE DESIGN CRITERIA IN ACCORDANCE WITH SECTION 302.

802.1 SCOPE: THE REQUIREMENTS OF THIS SECTION ARE LIMITED TO WORK AREAS IN WHICH LEVEL 2 ALTERATIONS ARE BEING PERFORMED AND SHALL APPLY BEYOND THE WORK AREA WHERE SPECIFIED.

802.2 VERTICAL OPENINGS: EXISTING VERTICAL OPENINGS SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 802.2.1, 802.2.2 AND 802.2.3.

802.2.1 EXISTING VERTICAL OPENINGS: EXISTING INTERIOR VERTICAL OPENINGS CONNECTING TWO OR MORE FLOORS SHALL BE ENCLOSED WITH APPROVED ASSEMBLIES HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR WITH APPROVED OPENING PROTECTIVES.
EXCEPTIONS:

1. WHERE VERTICAL OPENING ENCLOSURE IS NOT REQUIRED BY THE INTERNATIONAL BUILDING CODE OR THE INTERNATIONAL FIRE CODE.
2. INTERIOR VERTICAL OPENINGS OTHER THAN STAIRWAYS MAY BE BLOCKED AT THE FLOOR AND CEILING OF THE WORK AREA BY INSTALLATION OF NOT LESS THAN 2 INCHES (51 MM) OF SOLID WOOD OR EQUIVALENT CONSTRUCTION.
3. THE ENCLOSURE SHALL NOT BE REQUIRED WHERE:
   - 3.2. ALL OF THE FOLLOWING CONDITIONS ARE MET:
     - 3.2.1.THE COMMUNICATING AREA HAS A LOW-HAZARD OCCUPANCY OR HAS A MODERATE-HAZARD OCCUPANCY THAT IS PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM.
     - 3.2.2. THE LOWEST OR NEXT-TO-THE-LOWEST LEVEL IS A STREET FLOOR.
     - 3.2.3.THE ENTIRE AREA IS OPEN AND UNOBSTRUCTED IN A MANNER SUCH THAT IT IS REASONABLE TO ASSUME THAT A FIRE IN ANY PART OF THE INTERCONNECTED SPACES WILL BE READILY OBVIOUS TO ALL OF THE OCCUPANTS.
     - 3.2.4. EXIT CAPACITY IS SUFFICIENT TO PROVIDE EGRESS SIMULTANEOUSLY FOR ALL OCCUPANTS OF ALL LEVELS BY CONSIDERING ALL AREAS TO BE A SINGLE FLOOR AREA FOR THE DETERMINATION OF REQUIRED EXIT CAPACITY.
     - 3.2.5.EACH FLOOR LEVEL, CONSIDERED SEPARATELY, HAS NOT LESS THAN ONE-HALF OF ITS INDIVIDUAL REQUIRED EXIT CAPACITY PROVIDED BY AN EXIT OR EXITS LEADING DIRECTLY OUT OF THAT LEVEL WITHOUT HAVING TO TRAVERSE ANOTHER COMMUNICATING FLOOR LEVEL OR BE EXPOSED TO THE SMOKE OR FIRE SPREADING FROM ANOTHER COMMUNICATING FLOOR LEVEL.

5. IN GROUP B OCCUPANCIES, A MINIMUM 30-MINUTE ENCLOSURE SHALL BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS NOT EXCEEDING THREE STORIES. THIS ENCLOSURE, OR THE ENCLOSURE SPECIFIED IN SECTION 802.2.1, SHALL NOT BE REQUIRED IN THE FOLLOWING LOCATIONS:
   - 5.1. BUILDINGS NOT EXCEEDING 3,000 SQUARE FEET (279 M2) PER FLOOR.
   - 5.2. BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM.

11. IN GROUP R-2 OCCUPANCIES, A MINIMUM 30-MINUTE ENCLOSURE SHALL BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS NOT EXCEEDING THREE STORIES. THIS ENCLOSURE, OR THE ENCLOSURE SPECIFIED IN SECTION 802.2.1, SHALL NOT BE REQUIRED IN THE FOLLOWING LOCATIONS:
    - VERTICAL OPENINGS NOT EXCEEDING TWO STORIES WITH NOT MORE THAN FOUR DWELLING UNITS PER FLOOR.
    - BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM.
    - BUILDINGS WITH NOT MORE THAN FOUR DWELLING UNITS PER FLOOR WHERE EVERY SLEEPING ROOM ABOVE THE SECOND FLOOR IS PROVIDED WITH DIRECT ACCESS TO A FIRE ESCAPE OR OTHER APPROVED SECOND EXIT BY MEANS OF AN APPROVED EXTERIOR DOOR OR WINDOW HAVING A SILL HEIGHT OF NOT GREATER THAN 44 INCHES (1118 MM) AND THE BUILDING IS PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE ALARM SYSTEM COMPLYING WITH SECTION 803.4.

803.1 SCOPE: THE REQUIREMENTS OF THIS SECTION SHALL BE LIMITED TO WORK AREAS IN WHICH LEVEL 2 ALTERATIONS ARE BEING PERFORMED, AND WHERE SPECIFIED THEY SHALL APPLY THROUGHOUT THE FLOOR ON WHICH THE WORK AREAS ARE LOCATED OR OTHERWISE BEYOND THE WORK AREA.

803.2 AUTOMATIC SPRINKLER SYSTEMS: AUTOMATIC SPRINKLER SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 803.2.1 THROUGH 803.2.6. INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

803.2.2 GROUPS A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 AND S-2: IN BUILDINGS WITH OCCUPANCIES IN GROUPS A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 AND S-2, WORK AREAS THAT HAVE EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT OR THAT HAVE EXITS OR CORRIDORS SERVING AN OCCUPANT LOAD GREATER THAN 30 SHALL BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION WHERE BOTH OF THE FOLLOWING CONDITIONS OCCUR:

1 THE WORK AREA IS REQUIRED TO BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AS APPLICABLE TO NEW CONSTRUCTION.
2 THE WORK AREA EXCEEDS 50 PERCENT OF THE FLOOR AREA.

[WORK AREA OF THE DECENTRALIZATION/FIRE ALARM PROJECT DOES NOT EXCEED 50 PERCENT OF THE FLOOR AREA.]

803.2.2.1 MIXED USES: IN WORK AREAS CONTAINING MIXED USES, ONE OR MORE OF WHICH REQUIRES AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH SECTION 803.2.2, SUCH PROTECTION SHALL NOT BE REQUIRED THROUGHOUT THE WORK AREA PROVIDED THAT THE USES REQUIRING SUCH PROTECTION ARE SEPARATED FROM THOSE NOT REQUIRING PROTECTION BY FIRE-RESISTANCE-RATED CONSTRUCTION HAVING A MINIMUM 2-HOUR RATING FOR GROUP H AND A MINIMUM 1-HOUR RATING FOR ALL OTHER OCCUPANCY GROUPS.

803.4 FIRE ALARM AND DETECTION: AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 803.4.1 THROUGH 803.4.3. WHERE AUTOMATIC SPRINKLER PROTECTION IS PROVIDED IN ACCORDANCE WITH SECTION 803.2 AND IS CONNECTED TO THE BUILDING FIRE ALARM SYSTEM, AUTOMATIC HEAT DETECTION SHALL NOT BE REQUIRED.

803.4.1.6 GROUP R-2: A FIRE ALARM SYSTEM SHALL BE INSTALLED IN WORK AREAS OF GROUP R-2 APARTMENT BUILDINGS AS REQUIRED BY THE INTERNATIONAL FIRE CODE FOR EXISTING GROUP R-2 OCCUPANCIES.

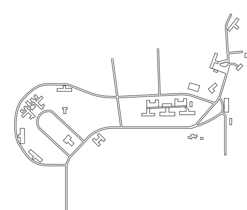
804.11 STAIRWAYS: AN EXISTING STAIRWAY SHALL NOT BE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF SECTION 1011 OF THE INTERNATIONAL BUILDING CODE WHERE THE EXISTING SPACE AND CONSTRUCTION DOES NOT ALLOW A REDUCTION IN PITCH OR SLOPE.

807.2 ALTERED EXISTING SYSTEMS: IN MECHANICALLY VENTILATED SPACES, EXISTING MECHANICAL VENTILATION SYSTEMS THAT ARE ALTERED, RECONFIGURED OR EXTENDED SHALL PROVIDE NOT LESS THAN 5 CUBIC FEET PER MINUTE (CFM) (0.0024 M3/S) PER PERSON OF OUTDOOR AIR AND NOT LESS THAN 15 CFM (0.0071 M3/S) OF VENTILATION AIR PER PERSON, OR NOT LESS THAN THE AMOUNT OF VENTILATION AIR DETERMINED BY THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1.

BASED ON REVIEW OF THE PROJECT UNDER THE 2024 IEBC, SHIVE-HATTERY'S INTERPRETATION IS THAT THE SCOPE OF WORK, WHICH IS PRIMARILY SYSTEMS UPGRADES IN NATURE, DOES NOT TRIGGER COMPONENTS OF THE 2024 IBC PER REQUIREMENTS FROM THE 2024 IEBC.

REFERENCES TO THE 2024 IBC WHICH EXCEED THE REQUIREMENTS OF THE 2024 IEBC ARE PER DIRECTION FROM THE AUTHORITY HAVING JURISDICTION IN 3/4/2025 EMAIL WHICH NOTED THAT ANY PART OF THE BUILDING WHERE OCCUPANTS SLEEP MUST BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM AND BE CLEARLY SEPARATED FROM OTHER AREAS OF THE BUILDING.

THE SUBSEQUENT "09-G100" AND "13-G100" SHEETS PROVIDED WITH THESE DOCUMENTS ARE SUPPLEMENTARY TO SUPPORT THE DIRECTION FROM THE AUTHORITY HAVING JURISDICTION AND THE ADDITIONAL REQUIREMENTS THE DIRECTIVES MAY HAVE.



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IA DAS
Woodward, IA 50276

CODE SUMMARY

DRAWN BY	Author
APPROVED BY	Approver
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

00-G101

GENERAL NOTES

1. THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THE DRAWINGS ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC. AND NOT SHOWN ON THE DRAWINGS. THE VERIFICATION OF EXISTENCE OF AND THE DETERMINATION OF THE EXACT LOCATION OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
3. THE FACILITY WILL COMPLETE PRIVATE UTILITY LOCATES OF KNOWN FACILITY UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL LOCATES AND CONFIRM THEY ARE COMPLETED PRIOR TO THE START OF CONSTRUCTION.
4. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL BY CALLING 811 OR 1-800-292-8989 NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
5. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
6. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS).
7. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS/CODES AND OSHA STANDARDS.
8. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
9. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
10. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
11. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
12. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. DRIVES, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.
13. ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
14. REPAIR OR REPLACE DAMAGED SITE FEATURES (WALLS, PAVEMENT, UTILITIES, FENCES, ETC.) TO REMAIN AT NO ADDITIONAL EXPENSE TO THE STATE.
15. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION TO BE ALLOWED FOR THE COMPLETION OF THIS WORK.
16. WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER AS REQUIRED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNER'S REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT WRITTEN AUTHORIZATION WILL NOT BE PAID FOR.
17. THE CONTRACTOR SHALL MATCH EXISTING GRADES AT THE CONSTRUCTION LIMITS.
18. NO PONDING OF WATER WILL BE ACCEPTED ON ANY NEW PAVEMENT OR OVERLAY AREAS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY AREAS OF EXISTING OR PROPOSED PAVEMENTS THAT HAVE THE POTENTIAL TO POND WATER AND MAKE ANY ADJUSTMENTS NECESSARY TO ENSURE THAT WATER WILL POSITIVELY DRAIN ACROSS THE PAVING.
19. STAGING LOCATIONS AND CONSTRUCTION ACCESS ROUTES FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY THE FACILITY AND CONSTRUCTION MANAGER.
20. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES NECESSARY TO PROTECT AGAINST SILTATION, EROSION AND DUST POLLUTION ON THE PROJECT SITE AND ANY OFF-SITE BORROW OR DISPOSAL AREAS USED FOR THIS PROJECT. COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF IOWA CODE, FEDERAL REGULATIONS AND LOCAL ORDINANCES.
21. ALL AREAS DISTURBED BY CONSTRUCTION NOT DESIGNATED AS PLANTED SHALL BE SEEDED PER SPECIFICATIONS. 6" OF TOPSOIL SHALL BE PROVIDED PER SPECIFICATIONS.
22. CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
23. CONTRACTOR TO COORDINATE ANY SITE, UTILITY OR GRADE ADJUSTMENTS WITH THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
24. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL THEIR SUBCONTRACTOR(S) INVOLVED ON THE PROJECT.

CONSTRUCTION STAGING NOTES

1. CONTRACTOR SHALL COORDINATE ALL STAGING AREAS WITH THE FACILITY AND CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL REPLACE ALL PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES AT THE END OF CONSTRUCTION. CONTRACTOR TO PROVIDE PHOTO DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
3. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS NOT TO BE PAVED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION. ALL DISTURBED AREAS SHALL BE SCARIFIED, TILLED AND SEEDED. CONTRACTOR TO PROVIDE PHOTO DOCUMENTATION PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL PROVIDE BARRICADES, FENCING OR OTHER DEVICES TO KEEP UNAUTHORIZED PERSONNEL OUT OF PROJECT SITE.

TRAFFIC AND PEDESTRIAN CONTROL NOTES

1. CONTRACTOR IS ALLOWED TO CLOSE DOWN PARKING AND DRIVES DURING CONSTRUCTION WITH PRIOR APPROVAL FROM CONSTRUCTION MANAGER AND FACILITY. ACCESS TO ADJACENT BUILDINGS, DRIVES, PARKING AND SIDEWALKS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION. PHASING OF UTILITY CONSTRUCTION AND ROAD PATCHING WILL BE REQUIRED TO MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC TO ALL BUILDINGS AND SHALL BE COORDINATED WITH SCHEDULES OF OTHER TRADES, CONTRACTORS AND UTILITY COMPANIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL TRAFFIC DURING CONSTRUCTION AND PROVIDE ADEQUATE TRAFFIC AND PEDESTRIAN CONTROL AND SIGNAGE. AT A MINIMUM, CONTRACTOR TO PROVIDE TYPE III BARRICADES AT EACH END OF CLOSED ROADS AND DRIVES.
3. CONTRACTOR TO INSTALL AND MAINTAIN CONSTRUCTION FENCE AROUND ALL AREAS OF ACTIVE CONSTRUCTION. CONTRACTOR SHALL ASSUME PEDESTRIAN TRAFFIC WILL BE IN THE AREA THROUGHOUT THE PROJECT DURATION.
4. PEDESTRIAN ACCESS MUST BE MAINTAINED TO ALL BUILDINGS THROUGHOUT CONSTRUCTION. COORDINATE WITH FACILITY AND CONSTRUCTION MANAGER ON PHASING AND SHUT DOWN OF ALL DRIVES AND SIDEWALKS. TEMPORARY GRANULAR PATCHES WILL BE REQUIRED FOR ANY DRIVES AND SIDEWALKS WHICH ARE NOT PATCHED WITH CONCRETE IN A TIMELY MANNER TO LIMIT DISRUPTIONS TO CAMPUS TRAFFIC AND PEDESTRIAN FLOW.
5. CONTRACTOR TO COORDINATE CONSTRUCTION ACCESS, STAGING AND PARKING AREAS WITH FACILITY AND CONSTRUCTION MANAGER AND MINIMIZE IMPACTS TO FACILITY'S OPERATIONS.

DEMOLITION NOTES

1. REMOVAL REQUIREMENTS SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUM REMOVAL AND REPLACEMENT REQUIREMENTS. CONTRACTORS SHALL ADJUST REMOVAL LIMITS AND DIMENSIONS AS REQUIRED BY CONSTRUCTION MEANS AND METHODS AND ACTUAL SITE CONDITIONS. CONTRACTORS SHOULD FACTOR ADDITIONAL ANTICIPATED REMOVAL AND REPLACEMENT REQUIREMENTS INTO THEIR BIDS AS ADDITIONAL COMPENSATION REQUESTS FOR ADJUSTED OR EXPANDED REMOVAL LIMITS WILL NOT BE APPROVED.
2. CONTRACTOR SHALL REPLACE AT NO COST TO THE STATE ALL DAMAGED STREETS, DRIVES, SIDEWALKS, CURB AND GUTTER, SIGNS, PAVEMENT MARKINGS, LIGHTS, FENCES AND ALL OTHER SURFACE STRUCTURES NOT SCHEDULED TO BE REMOVED DURING THE COURSE OF THE WORK.
3. ALL LANDSCAPING, INCLUDING TREES, SHRUBS AND PERENNIALS NOT CALLED OUT TO BE REMOVED OR APPROVED FOR REMOVAL BY CONSTRUCTION MANAGER, SHALL BE PROTECTED AND REPLACED AT NO COST TO THE STATE IF DAMAGED DURING CONSTRUCTION. REPLACE TREES WITH (1) EQUIVALENT TREE UP TO 6" CALIPER AND (1) ADDITIONAL TREE FOR EVERY 6" CALIPER BEYOND THAT. ALL PLANTS THAT ARE DESTROYED OR DAMAGED SHALL BE REPLACED WITH NEW PLANTS OF THE EQUIVALENT TYPE.
4. WHERE A SECTION OF PAVEMENT, CURB AND GUTTER OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS AND GUTTERS AND SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT A MINIMUM OF TWO FEET BEYOND THE EDGE OF ALL EXCAVATIONS. CONTRACTOR SHALL DOCUMENT (OR PHOTOGRAPH) ALL CRACKED PCC PAVEMENT OR DAMAGED HMA PAVEMENT PRIOR TO CONSTRUCTION. IF NEW CRACKS IN PCC PAVEMENT DEVELOP OR HMA PAVEMENT IS DAMAGED DUE TO CONSTRUCTION TRAFFIC (EXTENDS BEYOND CONSTRUCTION LIMITS), THE CONTRACTOR SHALL REPLACE THE DAMAGED AREA AT NO ADDITIONAL COST TO STATE.
5. FIRE PROTECTION ACCESS AND FIRE HYDRANTS SHALL BE MAINTAINED THROUGHOUT THE PROJECT. ALL EXISTING FIRE HYDRANTS WHICH ARE NOT CALLED OUT TO BE REMOVED SHALL BE PROTECTED AND MAINTAINED.
6. THE CONTRACTOR SHALL COORDINATE ANY DISRUPTION OF EXISTING UTILITIES SERVING THE FACILITY WITH THE FACILITY AND CONSTRUCTION MANAGER.

EXCAVATION NOTES

1. EXCAVATE TRENCH AND PROVIDE PIPE BEDDING AND BACKFILL MATERIAL PER IOWA SUDAS SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS.
2. STRIP, STOCKPILE AND RESPREAD A MINIMUM OF 6" OF TOPSOIL IN ALL SEEDING OR SODDING AREAS DISTURBED BY CONSTRUCTION. DISTURBED AREAS SHALL BE LEFT IN SMOOTH CONDITION READY FOR FINAL SEEDBED PREPARATION. GRADE ALL DISTURBED ARES TO DRAIN, AS PONDING OF WATER WILL NOT BE ACCEPTABLE.
3. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH AND FILL SETTLEMENT FOR THE PROJECT'S ONE YEAR WARRANTY PERIOD. CONTRACTOR SHALL PROVIDE ADDITIONAL FILL MATERIAL AND IS RESPONSIBLE FOR RESEEDING OF ALL SETTLEMENT AREAS AFTER SITE RESTORATION HAS BEEN COMPLETED.

GRADING AND EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL AND STATE REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER'S REPRESENTATIVE.
2. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
3. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
4. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
5. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
6. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SEEDED OR SODDED. AREAS TO BE SODDED SHALL NOT BE INSTALLED BETWEEN THE DATES OF JUNE 15 AND AUGUST 15, UNLESS APPROVED BY THE JURISDICTIONAL ENGINEER. SOD SHALL NOT BE INSTALLED ON FROZEN SOIL NOR WITH IMMINENT FREEZING CONDITIONS WITHIN 24 HOURS. DO NOT LAY DORMANT OR FROZEN SOD. AREAS TO BE SEEDED SHALL BE SEEDED BETWEEN APRIL15 - JUNE 15 OR BETWEEN AUGUST 10 - OCTOBER 15. DORMANT SEEDING SHALL TAKE PLACE BETWEEN NOVEMBER-FEBRUARY.
7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
8. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
9. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, WATTLES, INLET PROTECTION, ETC.) TO PREVENT EROSION.
11. ALL STORM SEWER INTAKES THAT RECEIVE STORMWATER RUNOFF FROM DISTURBED AREAS SHALL BE PROVIDED WITH INLET PROTECTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PERIODIC CHECKING AND REINSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES.
13. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE IOWA DNR, US EPA REGULATIONS DEALING WITH STORMWATER RUNOFF AND EROSION CONTROL.
14. THE DISTURBED CONSTRUCTION AREA IS LESS THAN 1 ACRE, SO AN NPDES GENERAL PERMIT NO. 2 AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ARE NOT REQUIRED. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL THROUGHOUT CONSTRUCTION.

UTILITY NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATIONS AND DEPTHS OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES AND WHETHER ADDITIONAL UTILITIES EXIST.
2. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR PROTECTION REQUIREMENTS AND SPECIFICATIONS. PROVIDE TEMPORARY SUPPORT OF EXISTING UTILITIES AS REQUIRED FOR CONSTRUCTION.
3. ALL EXISTING AND PROPOSED UTILITY CROSSINGS/CONFLICTS SHALL MEET OR EXCEED IOWA SUDAS HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS.
4. ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
5. WATER TO BE INSTALLED WITH A MINIMUM COVER OF 5.5 FEET DEEP OR LOWER TO ACCOMMODATE UTILITY CROSSINGS.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA SUDAS STANDARD SPECIFICATIONS AND IOWA DOT SPECIFICATIONS, STANDARD ROAD PLANS AND ROAD DESIGN DETAILS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.
8. CONTRACTOR TO IMPLEMENT TEMPORARY SHORING OR SUPPORT AT ALL UTILITY CROSSINGS AS REQUIRED BY CONTRACTOR'S MEANS AND METHODS. ALL DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE STATE.

PAVEMENT GENERAL NOTES

1. ALL PROPOSED PAVEMENT PATCHES ARE APPROXIMATE ONLY AND SHOULD BE CONSIDERED MINIMUM REMOVAL EXTENTS. EXTEND AND ADJUST PAVEMENT PATCHES AS REQUIRED WITH PRIOR APPROVAL BY ENGINEER.
2. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. ANY PONDING ON PAVEMENT PATCHES OR ADJACENT PATCHES WILL BE CONSIDERED UNACCEPTABLE AND SHALL BE REPLACED.
3. SALVAGE ALL SIGNS WITHIN THE CONSTRUCTION LIMITS AND REINSTALL IN THE SAME LOCATION AND CONDITION AFTER CONSTRUCTION. ANY STREET SIGNS OR POLES DAMAGED DURING THE COURSE OF WORK TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE STATE.
4. USE TYPE "A" COMPACTION PER IOWA DOT STANDARD SPECIFICATIONS ON SUBGRADE AND SUBBASE.

SPECIFICATIONS

THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) SHALL APPLY TO ALL SITE WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.

A. CONCRETE PAVING

CONCRETE: MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT.

FLY ASH (CONTRACTOR'S OPTION): ASTM C618, TYPE C, NOT TO EXCEED 15% OF CEMENTITIOUS MATERIAL.

COARSE AGGREGATE: DURABILITY SHALL BE CLASS III, 3/4" MAX.

COMPRESSIVE STRENGTH: 2800 PSI @ 7 DAYS AND 4000 PSI @ 28 DAYS
SLUMP: 3" ± 1" or 8" MAXIMUM WITH SUPER PLASTICIZER
AIR CONTENT: 7.0% ± 1.0%
WATER/CEMENT RATIO: NOT TO EXCEED 0.53
FINISH: HEAVY BROOM FINISH

TESTING: ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 CY, OR PORTION THEREOF, OF CONCRETE POURED PER WORK LOCATION. CONCRETE TESTING TO BE DONE AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER.

SURFACE CURING: CONTRACTOR SHALL APPLY WHITE PIGMENT LIQUID CURING COMPOUND IN A FINE SPRAY TO FORM CONTINUOUS UNIFORM FILM AFTER FINISHING AND SURFACE MOISTURE HAS DISAPPEARED OR WITHIN 30 MINUTES AFTER FORMS ARE REMOVED.

SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.

COLD WEATHER CONCRETE: WHEN THE ATMOSPHERIC AIR TEMPERATURE MAY BE EXPECTED TO DROP BELOW 40°F AT THE TIME CONCRETE IS DELIVERED TO THE WORK SITE, DURING PLACEMENT OR AT ANY TIME DURING CURING PERIOD, CONCRETE SHALL BE MIXED, PLACED AND PROTECTED IN ACCORDANCE WITH ACI STANDARD 306, "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING." IT IS THE OWNER'S PREFERENCE TO AVOID COLD WEATHER CONCRETE AND PROVIDE TEMPORARY GRANULAR SURFACING FOR SIDEWALK AND PAVING AS REQUIRED.

B. EXPANSION JOINT FILLER

CLOSED CELL POLYETHYLENE WITH STRIP-OFF CAP FOR SEALANT.

C. JOINT SEALANT

PAVING JOINTS SHALL BE SEALED PER IOWA DOT SPECIFICATIONS. BACKER ROD SHALL NOT BE USED FOR JOINT SEALING.

D. PAVEMENT REINFORCING STEEL

PAVING REINFORCEMENT SHALL BE ASTM C615 GRADE 60 AND SHALL HAVE A PROTECTIVE EPOXY COATING APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.

E. PAVEMENT JOINTING

PROVIDE IDOT TYPE 'C' JOINTS FOR TRANSVERSE JOINTS. PROVIDE JOINTS AT A MAXIMUM SPACING OF 12 FEET FOR PAVING OR SQUARE PANELS FOR SIDEWALKS.

PROVIDE IDOT TYPE 'L' JOINTS FOR LONGITUDINAL JOINTS.

PROVIDE IDOT TYPE 'RD' OR TYPE 'BT' JOINTS TO TIE INTO EXISTING PAVING.

PROVIDE IDOT TYPE 'DW' JOINTS FOR END OF DAY PAVING.

SAW CUTTING TO BE COMPLETED A MAXIMUM OF 24 HOURS FROM CONCRETE PLACEMENT. RANDOM CRACKING CAUSED BY DELAYED SAW CUTTING MAY REQUIRE REMOVAL AND REPLACEMENT.

CONTRACTOR TO PROVIDE OWNER'S REPRESENTATIVE WITH A POURING SEQUENCE AND JOINTING PLAN FOR APPROVAL PRIOR TO PAVING.

F. TRENCH EXCAVATION AND BACKFILL

BEDDING AND BACKFILL MATERIAL: SHALL COMPLY WITH IOWA SUDAS SECTION 3010.

BACKFILL COMPACTION REQUIREMENTS:
1. AREAS UNDER AND WITHIN FIVE (5) FEET OF PAVEMENT, SIDEWALKS, GRANULAR SURFACING OR OTHER SURFACE IMPROVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY.
2. AREAS UNDER LANDSCAPING AND LAWN AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM STANDARD PROCTOR DENSITY.
3. COMPACTION TESTING SHALL BE COMPLETED ON A FREQUENCY OF ONE TEST PER 100 LINEAR FEET AT APPROXIMATELY EVERY OTHER 8" LIFT OR AT ALTERNATIVE LOCATIONS AND FREQUENCIES AS RECOMMENDED BY TESTING AGENCY. COMPACTION TESTING TO BE DONE BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER.

CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING, WHICH MAY BE REQUIRED INCIDENTAL TO THE PIPE INSTALLATION.

G. TOPSOIL

STRIP, STOCKPILE AND RESPREAD EXISTING TOPSOIL IN ALL AREAS TO BE SEEDED. THE DEPTH OF TOPSOIL SHALL BE A MINIMUM OF 6" AFTER NATURAL SETTLEMENT AND SHALL CONFORM SMOOTHLY TO THE ADJACENT LINES, GRADES AND ELEVATIONS. PROVIDE ADDITIONAL TOPSOIL IF EXISTING TOPSOIL IS NOT PROPERLY HANDLED AND PROTECTED.

H. SITE RESTORATION

HYDRAULIC SEEDING: ALL DISTURBED AREAS ON THE SITE NOT TO BE PAVED OR LANDSCAPED SHALL RECEIVE HYDRAULIC SEEDING. HYDRAULIC SEEDING MATERIALS AND INSTALLATION SHALL MEET SUDAS SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PREPARING SEEDBED, APPLYING HYDRAULIC SEEDING AND FIRST AND SECOND APPLICATIONS OF FERTILIZER.

SEED MIXTURE: SUDAS TYPE 1 SEED MIXTURE (PERMANENT LAWN MIXTURE) OR APPROVED EQUAL.

K. CHAINLINK FENCING AND GATES

PROVIDE FENCING MATERIAL AND INSTAL ACCORDING TO IOWA SUDAS REQUIREMENTS UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.

PROVIDE SUBMITTALS FOR ALL GATE AND FENCE MATERIALS

L. GRANULAR SURFACING

MATERIALS AND INSTALLATION TO MEET IDOT SPECIFICATION 4120, CLASS A ROADSTONE OR APPROVED EQUAL

M. WEED BARRIER

PROVIDE A COMMERCIAL GRADE WEED BARRIER FABRIC THAT ALLOWS WATER, AIR AND NUTRIENTS TO PASS THROUGH

LEGEND

UTILITIES - PROPOSED

PLAN MARK	DESCRIPTION
W	WATER IRRIGATION VALVE
	UTILITY POLE W/TRANSFORMER
	WATER SHUTOFF VALVE
	GUY ANCHOR
	FIRE HYDRANT
	FLARED END SECTION
	UTILITY END CAP
	VALVE
PIV	POST INDICATOR VALVE
C	CABLE TV PEDESTAL
	CLEANOUT
J	JUNCTION BOX
MH	MANHOLE
D	STORM MANHOLE
E	ELECTRICAL MANHOLE
S	SANITARY MANHOLE
T	TELEPHONE MANHOLE
T	TELEPHONE PEDESTAL
V	VAULT BOX
W	WELL
W	WATER MANHOLE
HH	HANDHOLE
S	SIGNAL BOX
G	GAS METER
E	ELECTRIC METER
	TRANSFORMER
W	WATER METER
A	AIR CONDITIONER
	CURB INLET
	INTAKE - CIRCLE
	INTAKE - RECTANGLE
	INTAKE - SQUARE

LEGEND

GENERAL SITE - PROPOSED

PLAN MARK	DESCRIPTION
	STRUCTURE
	GUARD POST/ BOLLARD
MB	MAILBOX
PM	PARKING METER
	HANDICAPPED PARKING
	SHRUB
	DECIDUOUS TREE
	CONIFEROUS TREE
	SINGLE POLE SIGN
	DOUBLE POLE SIGN
	TRAFFIC SIGNAL WITH ARM
X	WIRE FENCE
	WOOD FENCE
	CHAINLINK FENCE
	RAILROAD
	GUARD RAIL
	TREE LINE
621	MINOR CONTOUR
620	MAJOR CONTOUR

LEGEND

PAVEMENT HATCHING

PLAN MARK	DESCRIPTION
	5" PCC SIDEWALK PAVING
	6" PCC PAVING

LEGEND

SURVEY

PLAN MARK	DESCRIPTION
BM	BENCH MARK
	BOUND
	IRON ROD - FOUND
	IRON ROD - SET
	MONUMENT FOUND
	MONUMENT SET
	X CUT FOUND
	X CUT SET
	RIGHT OF WAY MARKER
	DRILL HOLE
	STATION MARKER
	SOIL BORING
	PROPERTY CORNER
1000 736.45 TOP	SURVEY POINT ELEVATION

LEGEND

GENERAL SITE DESIGN

PLAN MARK	DESCRIPTION
625.00	SPOT ELEVATION
TC GU	TOP OF CURB AND GUTTER ELEVATION
TC=GU 625.00	TOP OF CURB EQUALS GUTTER ELEVATION
625.00 ME	MATCH EXISTING ELEVATION
2%	SLOPE ARROW
	FLOW ARROW
	TRAFFIC FLOW
	SILT FENCE
	LIMITS

LEGEND

UTILITY LINES

EXISTING LINE TYPE	DESCRIPTION	PROPOSED LINE TYPE
OE	ELECTRIC - OVERHEAD	OE
E	ELECTRIC - UNDERGROUND	E
G	GAS MAIN	G
W	WATER MAIN	W
	SANITARY SEWER	
FM)) FM))	SANITARY FORCE MAIN	FM)) FM))
	STORM SEWER	
OT	TELEPHONE - OVERHEAD	OT
T	TELEPHONE - UNDERGROUND	T
OC	CABLE LINE - OVERHEAD	OC
C	CABLE LINE - UNDERGROUND	C
FO	FIBER OPTICS	FO
	PROCESS/HEATING STEAM	

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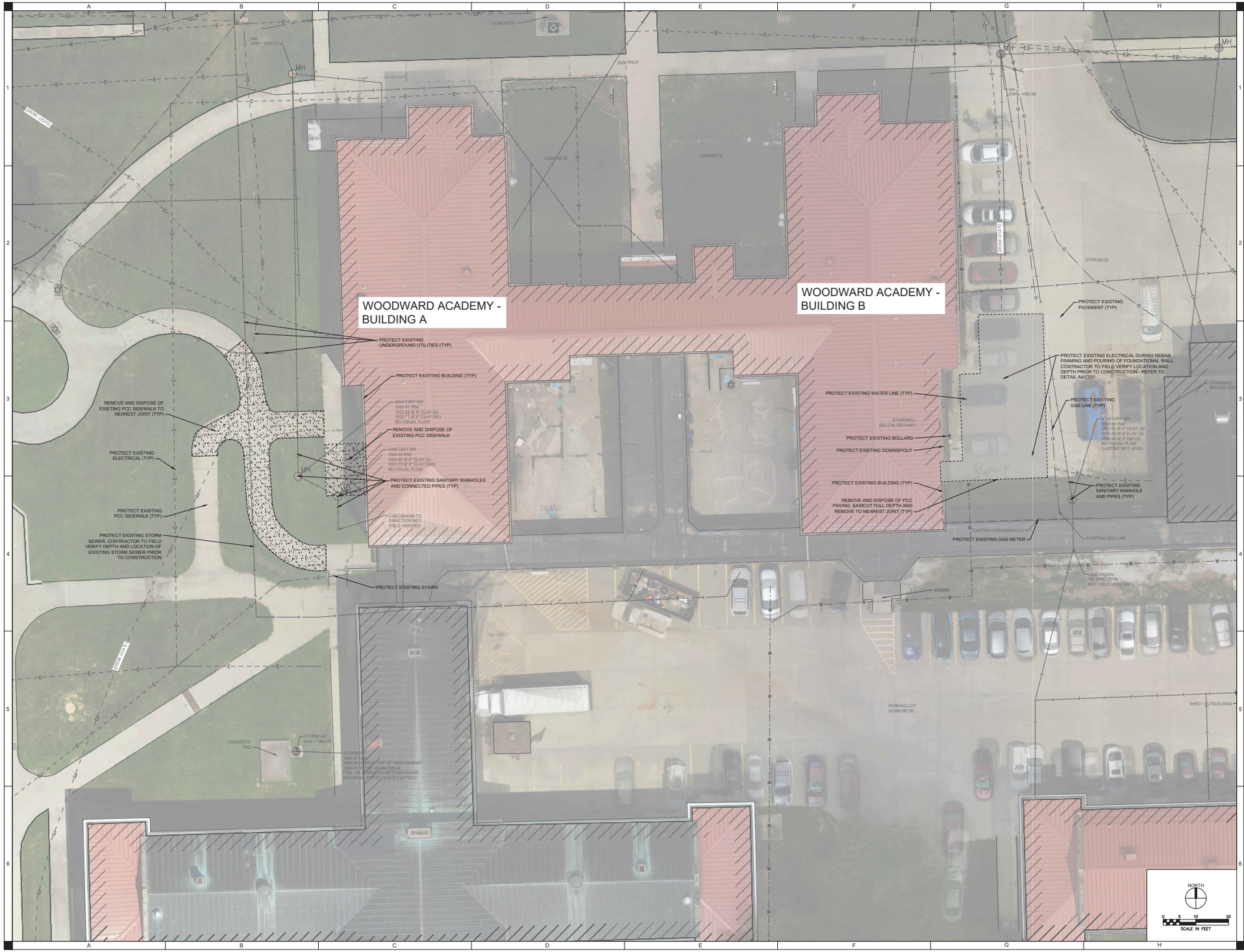
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

DRAWN BY	BDD
APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK:	---

GENERAL NOTES

00-C001



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PROJECT NUMBER	2260071040
FIELD BOOK	—

EXISTING CONDITIONS AND DEMOLITION PLAN

C00-CD01

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EXISTING CONDITIONS AND DEMOLITION PLAN

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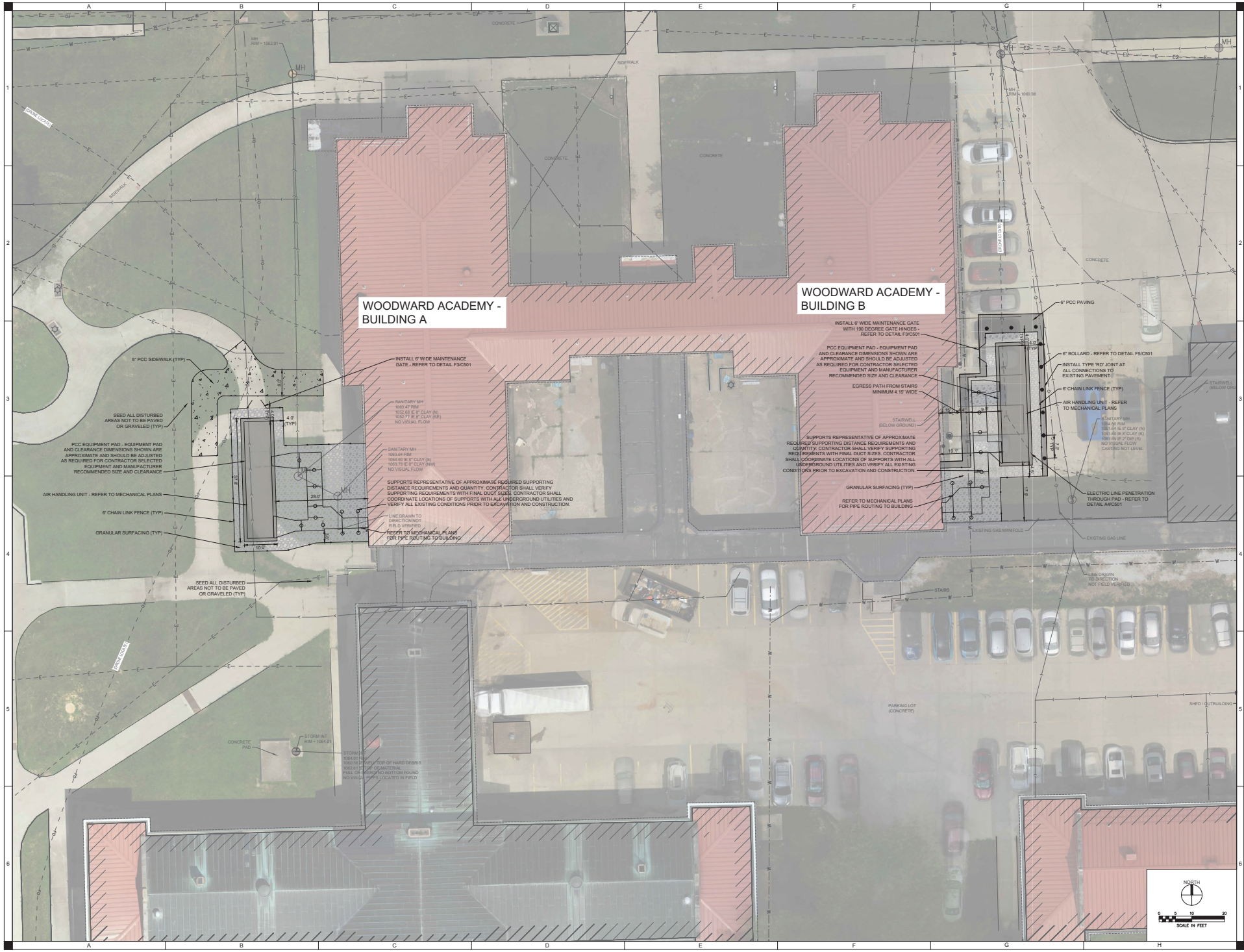

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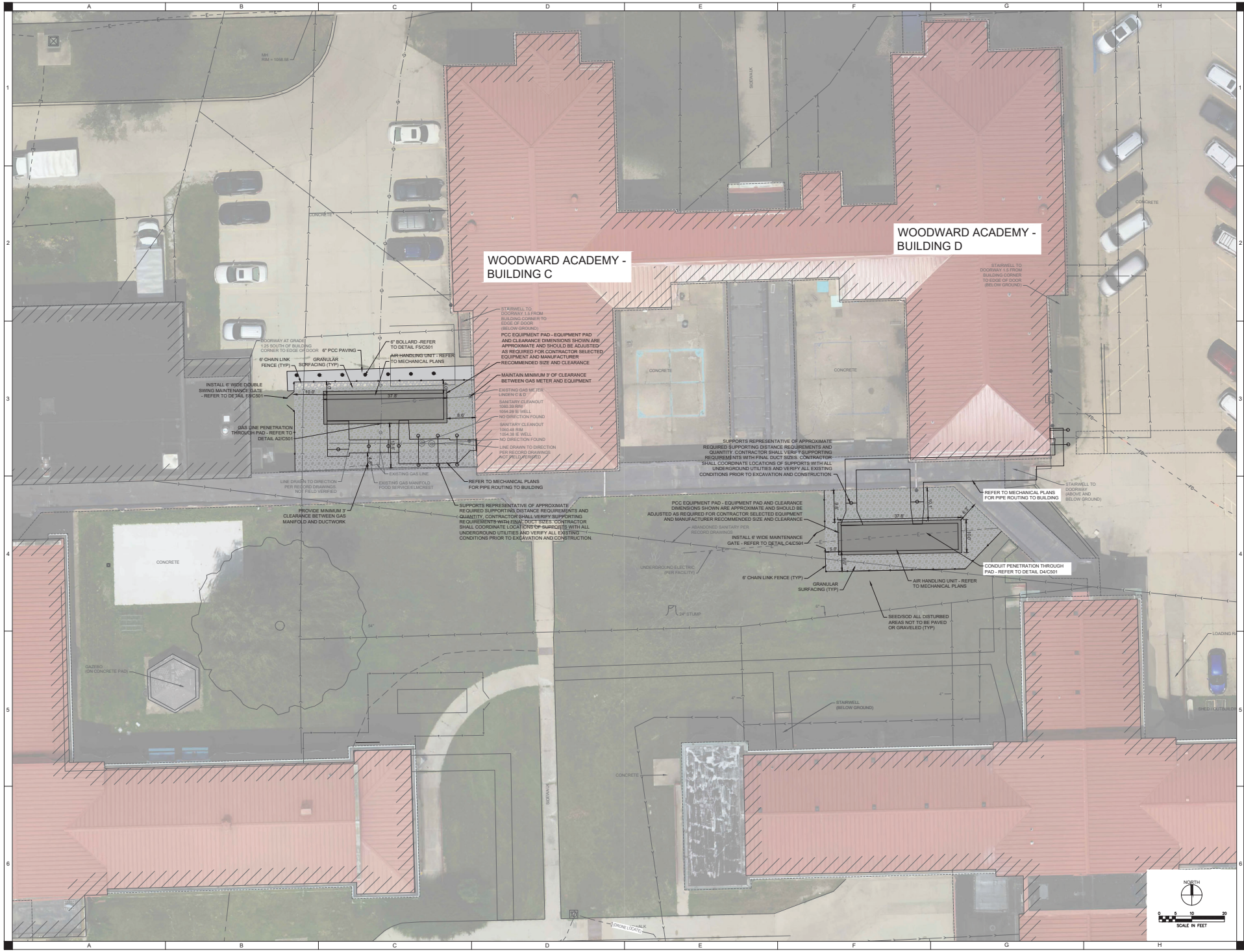
FIELD BOOK	—

SITE PLAN

00-C101



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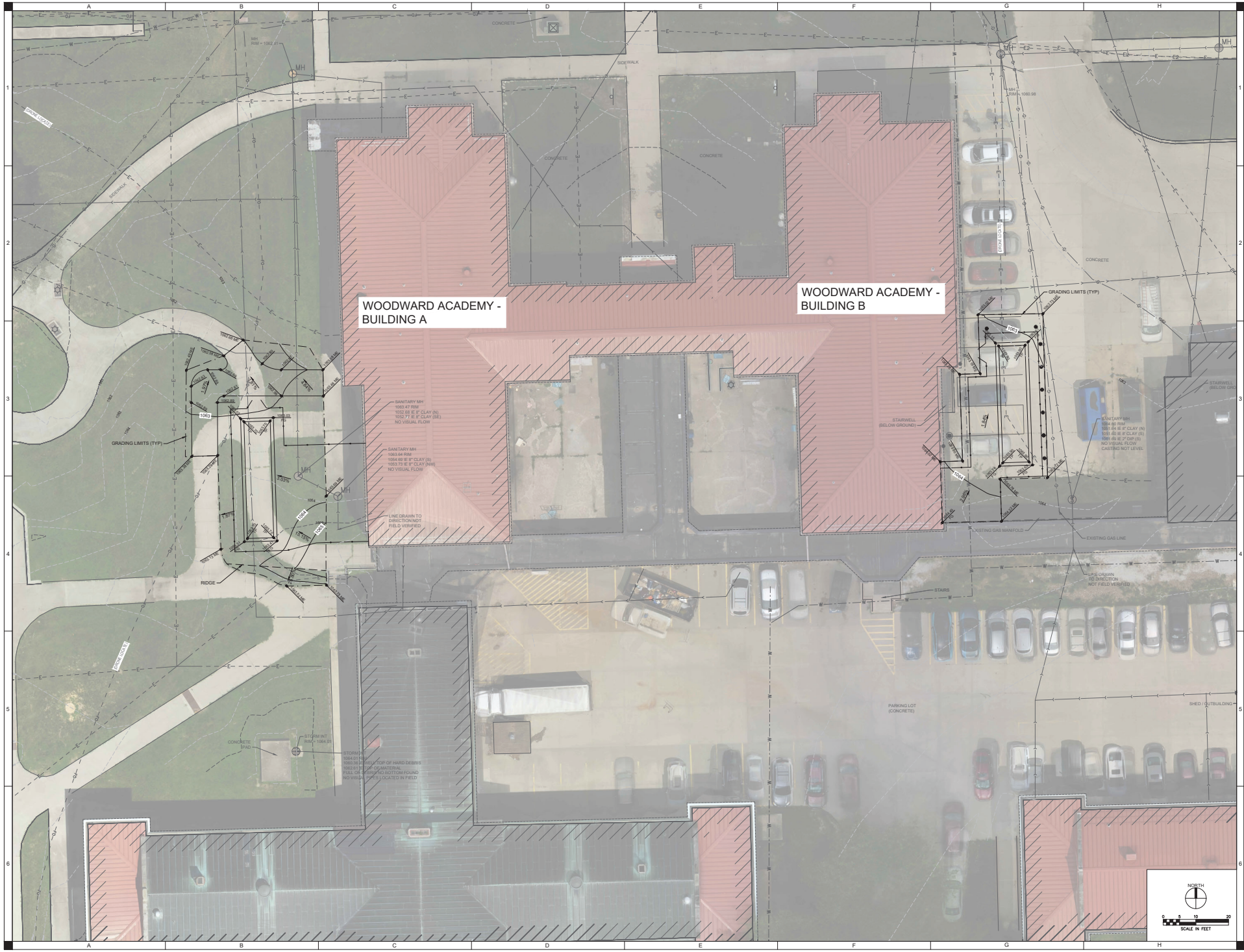
FIELD BOOK	—

SITE PLAN

00-C102



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GRADING PLAN

00-C201

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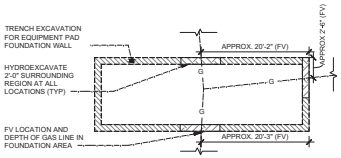
GRADING PLAN

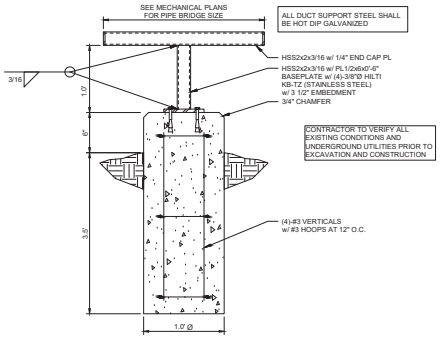
00-C202



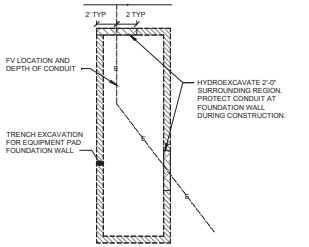
GAS LINE CONFLICT AT EQUIPMENT PAD FOUNDATION WALL
HYDROEXCAVATE 2'-0" REGION IN EACH DIRECTION AROUND GAS LINE. PROTECT GAS LINE DURING REBAR FRAMING AND POURING OF CONCRETE.

EXACT CONFLICT LOCATIONS ARE UNKNOWN, FIELD VERIFY LOCATION OF CONDUIT. FOUNDATION DIMENSIONS NOT TO SCALE - SEE PLAN.

A2 GAS CROSSING AT FOUNDATION WALL - LC ACADEMY C
NTS



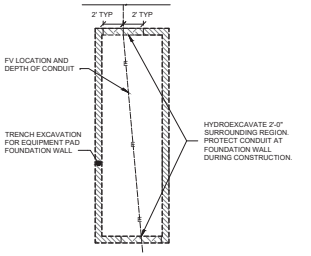
C2 DUCT SUPPORT DETAIL
NOT TO SCALE



ELECTRICAL CONDUIT CONFLICT AT EQUIPMENT PAD FOUNDATION WALL
HYDROEXCAVATE 2'-0" REGION IN EACH DIRECTION AROUND CONDUIT. PROTECT CONDUIT DURING REBAR FRAMING AND POURING OF CONCRETE. USE A PROTECTIVE SLEEVE TO PREVENT DAMAGE.

EXACT CONFLICT LOCATIONS ARE UNKNOWN, FIELD VERIFY LOCATION OF CONDUIT.

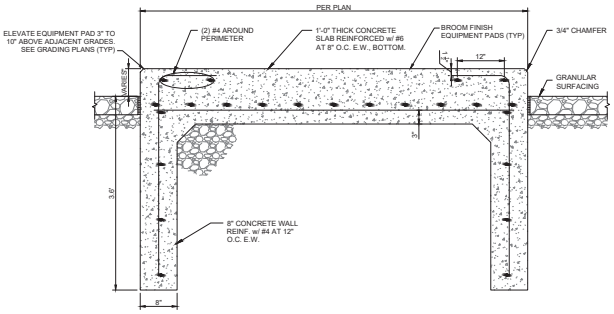
A4 CONDUIT CROSSING AT FOUNDATION WALL - LC ACADEMY B
NTS



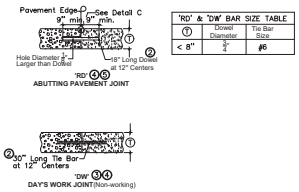
ELECTRICAL CONDUIT CONFLICT AT EQUIPMENT PAD FOUNDATION WALL
HYDROEXCAVATE 2'-0" REGION IN EACH DIRECTION AROUND CONDUIT. PROTECT CONDUIT DURING REBAR FRAMING AND POURING OF CONCRETE. USE A PROTECTIVE SLEEVE TO PREVENT DAMAGE.

EXACT CONFLICT LOCATIONS ARE UNKNOWN, FIELD VERIFY LOCATION OF CONDUIT.

C4 CONDUIT CROSSING AT FOUNDATION WALL - LC ACADEMY D
NTS

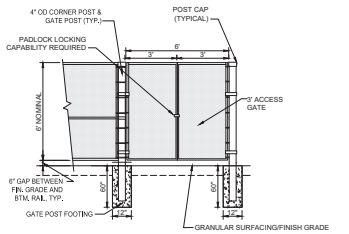


A6 PCC EQUIPMENT PAD
NTS

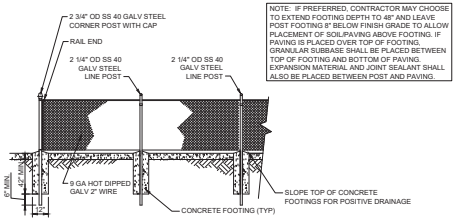


'RD' & 'DW' BAR SIZE TABLE		
1	Dowel Diameter	Tie Bar Size
< 8"	5/8"	#5

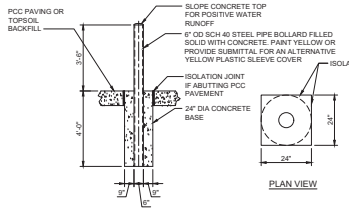
B4 JOINTING DETAILS
NOT TO SCALE



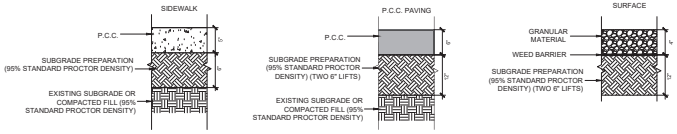
F3 6' WIDE DOUBLE SWING CHAIN LINK MAINTENANCE GATE
NOT TO SCALE



F4 TYPICAL 6' CHAIN LINK FENCE
NOT TO SCALE



F5 6" BOLLARD
NOT TO SCALE



F6 CROSS SECTIONS
NTS

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
800.798.6313 | SHIVE-HATTERY.COM

WRC DECENTRALIZATION PHASE 4 & FIRE ALARM
PHASE 3 (9279.40)
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES

DRAWN BY	BDD
APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	05-27-2026
PROJECT NUMBER	2240001940
FIELD BOOK	---

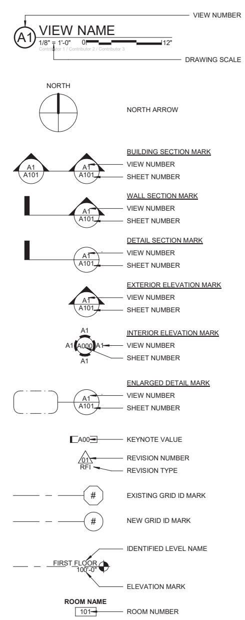
CONSTRUCTION DETAILS

00-C501

PROJECT GENERAL INFORMATION

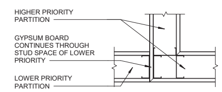
1. COLOR HAS BEEN USED ON THESE DRAWINGS TO ENHANCE UNDERSTANDING. PRINTING IN COLOR IS RECOMMENDED TO ENSURE CLARITY.
2. ANY DAMAGE TO AREAS INSIDE OR OUTSIDE OF THE PROJECT AREA SHALL BE REPAIRED TO THE STATUS PRIOR TO CONSTRUCTION AT NO COST TO OWNER.
3. CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ALL CUTTING, SUPPORTING, AND PATCHING IF NOT COVERED BY A SPECIFIC TRADE.
4. EACH TRADE SHALL PROVIDE TESTED FIRESTOPPING ASSEMBLIES FOR PENETRATIONS OF THEIR WORK THROUGH FIRE-RATED WALLS AND FLOOR/CEILING ASSEMBLIES. FIRESTOPPING ASSEMBLIES ARE TO BE OF DESIGNS THAT PROVIDE THE SCHEDULED FIRE RATINGS WHEN TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, OR UL 1479, AND ARE TO BE INSTALLED BY INDIVIDUALS TRAINED AND EXPERIENCED WITH INSTALLATION OF SUCH ASSEMBLIES. PROVIDE SUBMITTALS TO LOCAL AUTHORITIES AS REQUESTED.
5. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
6. ABATEMENT WORK WILL BE UNDER SEPARATE CONTRACT. OBTAIN AND MAINTAIN ON SITE A COMPLETE SET OF ABATEMENT DOCUMENTS, INCLUDING ADDENDA AND CHANGES AFTER START OF CONSTRUCTION, FOR REFERENCE AND COORDINATION BY ALL TRADES. COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH THE ABATEMENT CONTRACTOR.
7. THE INDICATION OF TYPE AND LOCATION OF EXISTING CONDITIONS AND MATERIALS IN THE DRAWINGS IS NOT INTENDED AS EXACT DOCUMENTATION OF IN-PLACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS BEFORE SUBMISSION OF BIDS. EXISTING CONDITIONS VARYING FROM THOSE SHOWN IN THE DRAWINGS WILL NOT BE JUSTIFICATION FOR ADDITIONAL ALLOWANCE TO THE CONTRACTOR. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS CONFLICT WITH THE DRAWINGS.
8. PROTECT ALL BUILDING SYSTEMS, NEW AND EXISTING. COVER SUPPLY, RETURN, AND EXHAUST AIR GRILLES, AND PROTECT OTHER SENSITIVE EQUIPMENT FROM ALL ACTIVITIES RELATED TO THIS CONTRACT. REMOVE PROTECTION AT END OF CONSTRUCTION.
9. ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
10. ALL CODE-REQUIRED LABELS SUCH AS "UL", "FACTORY MUTUAL", OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME, OR NOMENCLATURE PLATES SHALL REMAIN READABLE AND NOT PAINTED OR COVERED BY OTHER CONSTRUCTION.
11. STRUCTURAL INFORMATION ON ARCHITECTURAL DRAWINGS IS FOR REFERENCE ONLY.
12. ARCHITECTURAL DIMENSIONS AND DESIGN INTENT ARE INDICATED ON ARCHITECTURAL DRAWINGS. IF THE INSTALLATION OF EQUIPMENT FROM OTHER TRADES INTERFERES WITH COMPLIANCE OF THE DESIGN INTENT, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
13. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN LOCATION OF BUILDING ELEMENTS. IF DIMENSIONS ARE NOT AVAILABLE, CONTACT THE ARCHITECT.
14. WHEN DIMENSIONS ON SMALL SCALE DRAWINGS CONFLICT WITH THOSE ON LARGE SCALE DRAWINGS, THE LARGE SCALE DRAWINGS GOVERN.

GENERAL SYMBOLS LEGEND



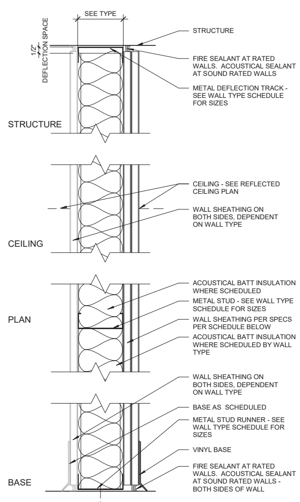
ABBREVIATIONS

	SYMBOLS
&	AND
@	AT
#	NUMBER or POUND
	A
A/E	ARCHITECT / ENGINEER
ACP	ACOUSTICAL CEILING PANEL
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
ADD	ADDENDUM
ADJ	ADJUSTABLE or ADJACENT
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL or ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE (LY)
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AUTO	AUTOMATIC (DOOR OPERATOR)
AVE	AVENUE
AVG	AVERAGE
	B
B/O	BOTTOM OF
BLDG	BUILDING
BLVD	BOULEVARD
BRG	BEARING
	C
CCTV	CLOSED CIRCUIT TELEVISION
CG	CORNER GUARD
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLR	CLEAR (ANCE)
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
CTRL	CONTROL
CF	CUBIC FEET
CW	COLD WATER
	D
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION/ DEMOLISH
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DTL	DETAIL
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWGS	DRAWINGS
	E
EA	EACH
EF	EPOXY FLOORING or EXHAUST FAN
EJ	EXPANSION JOINT
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EL	ELEVATOR
ENGR	ENGINEER
EP	EPOXY PAINT
EPXY	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
	F
FDN or FNDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH (ED) FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FL	FLOOR
FLR	FLOOR (ING)
FM	FM GLOBAL
FRP	FIBERGLASS REINFORCED PANEL
FT	FOOT (FEET)
FTG	FOOTING
FURN	FURNITURE
	G
GA	GAGE or GAUGE
GAL	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GWB	GYPSUM WALLBOARD
	H
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
	I
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	IDENTIFICATION or INSIDE DIAMETER
IN	INCHES
INCL	INCLUDE
INFO	INFORMATION
	J
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST (S)
JT	JOINT
	K
KO	KNOCKOUT
	L
LAV	LAVATORY
LF	LINEAR FOOT
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
	M
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFRG	MANUFACTURING
MFR	MANUFACTURER
MIC	MICROPHONE
MIN	MINIMUM or MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
	N
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NTS	NOT TO SCALE
	O
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
OHD	OVERHEAD DOOR
	P
P	PAINT
PERP	PERPENDICULAR
PKWY	PARKWAY
PL	PLATE or PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE (ATION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
	R
R	RAD or RADIUS
RCI	ROOF CONSULTANTS INSTITUTE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
RESIL	RESILIENT
RF	RADIO FREQUENCY
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RO	ROUGH OPENING
VTR	VENT THROUGH ROOF
	S
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET REFERRING TO PAGES
SIM	SIMILAR
SH	SHIVE-HATTERY
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SQ IN	SQUARE INCH
SS	SOLID SURFACE or STAINLESS STEEL
ST	STREET or STONE
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STRUC	STRUCTURE (AL)
SYM	SYMMETRICAL
	T
T/O	TOP OF
T&G	TONGUE AND GROOVE
TAN	TANGENT
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPORARY
THRU	THROUGH
TV	TELEVISION
TYP	TYPICAL
	U
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
	V
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
	W
W	WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET or WALL COVERING
WT	WALL TILE or WEIGHT
WTR	WATER



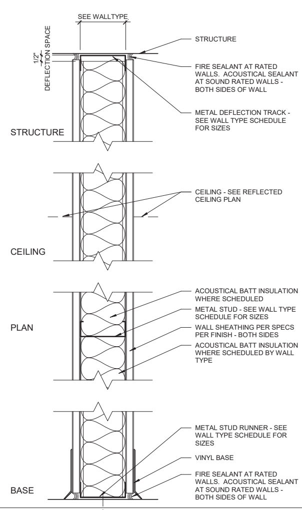
PARTITION FIRE RATING	PRIORITY
3-HOUR	1
2-HOUR	2
1-HOUR	3
SMOKE PARTITION	4
NON-RATED PARTITION	5

D4 PARTITION PRIORITY DIAGRAM
1 1/2" = 1'-0"



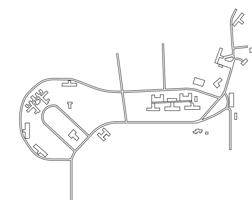
S3A-F#2 WALL TYPES					
TYPE	DESCRIPTION	WIDTH	FIRE RATING	UL NO	STC RATING
S3A-F02	3 5/8" METAL STUD TO UNDERSIDE OF STRUCTURE W/ 2 LAYERS 5/8" GYP ON ONE SIDE	4 7/8"	1 HR	V497	
S3A-F12	3 5/8" METAL STUD TO UNDERSIDE OF STRUCTURE W/ 2 LAYERS 5/8" GYP ON ONE SIDE AND 1 LAYER 5/8" GYP ON OTHER SIDE	5 1/2"	1 HR	U419	

WALLTYPE S3A-F#2
3" = 1'-0"



S#A-11 WALL TYPES					
TYPE	DESCRIPTION	WIDTH	FIRE RATING	UL NO	STC RATING
S3A-11	3 5/8" METAL STUD TO UNDERSIDE OF STRUCTURE W/ 1 LAYER 5/8" GYP BOTH SIDES	4 7/8"			

WALLTYPE S#A-_11
3" = 1'-0"



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4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

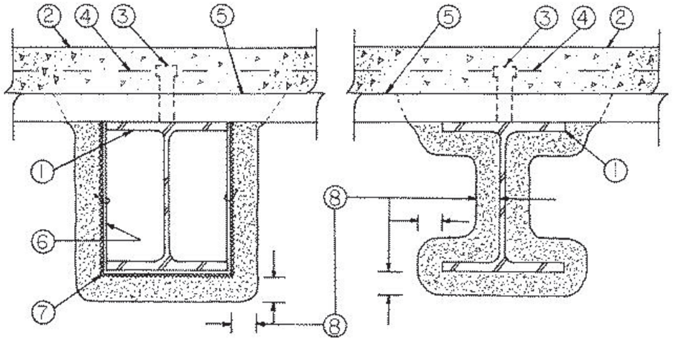
WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

IA DAS
Woodward, IA 50276

DRAWN BY	TAL
APPROVED BY	CLM
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

ARCHITECTURAL GENERAL INFORMATION

00-A000



1. **Steel Beam —** W8x28 min size.

2. **Normal Weight or Lightweight Concrete —** Normal weight or lightweight concrete, 2-1/2 in. min thickness over the steel floor and form unit crests or min 3 in. thick slab with a compressive strength of 3500 psi and min dry unit weight of 110 pcf.

3. **Shear Connector —** (Optional) — Studs, 3/4 in. diam headed type or equivalent per AISC specification. Welded to the top flange of beam through the steel floor units.

4. **Welded Wire Fabric —** (Optional) 6x6, W1.4 x W1.4 or 6x6-10/10 SW.

5. **Steel Floor and Form Units —** 1-1/2 to 3 in. deep fluted, cellular or corrugated units in any combination, welded to beam.

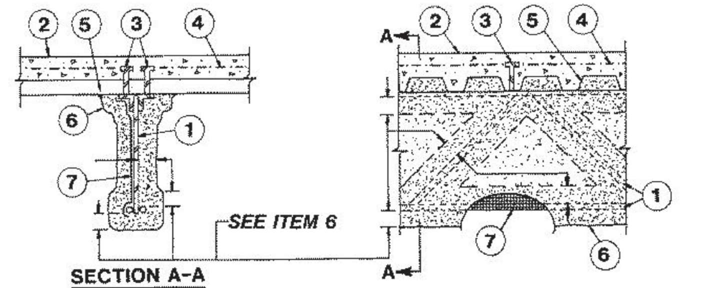
6. **Lath Hangers —** (Optional, for use with Item 7) — No. 6 SWG steel wire, spaced 27 in. OC max.

7. **Metal Lath —** (Optional) — For boxed type protection 3.4 lb./sq. yd. galv or painted expanded steel. Attached by gunned or stud welded pins at max 24 in. OC with 1-1/2 to 3 inch overlaps. As an alternate, lath may be, tied to lath hangers (item 6) and tied together with No. 18 SWG galv steel wire spaced 6 in. OC max with 1 inch overlaps at tie locations.

8. **Spray-Applied Fire Resistive Materials* —** Prepared by mixing with water. Spray-Applied in one or more coats to beam surfaces to a min final thickness as shown in the tables below. Beam surfaces must be clean and free of dirt, loose scale, and oil. Crest areas of deck above the beams shall be filled with spray-Applied Fire Resistive Materials. Min average and min individual density of 15 pcf, and 14 pcf respectively for types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000 ES and SB. For types 400, 400AC, and 400ES min average density and individual density of 22 pcf and 19 pcf respectively. Min avg density of 44 pcf with min individual value of 40 pcf for types M-II and TG. Min average density of 47 pcf with min individual value of 43 pcf for Type M-II/P. For method of density determination, see Design Information Section, Sprayed Material.
The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units.

	Min Thkns In.	
Rating Hr	**Restrained Beam**	**Unrestrained Beam**
1	5/16	5/16
1-1/2	3/8	1/2
2	9/16	11/16
2-1/2*	13/16	7/8
3	1	1-1/16

A5 UL DESIGN NO. BXUV.N759 - BEAM AND GIRDER FIRE PROOFING
3" = 1'-0" 0 6"



1. **Steel Joist —** Composite or non-composite min 12k5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.675 in. in diam. or two angles measuring 1 by 1 by 0.125 in. thick. The second web member at each end shall consist of a 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when noncomposite joists are used.

1A. **Steel Joists —** (Not shown) — As an alternate to Item 1 — Composite or non-composite min 8k1 or min depth and weight shall be 8 in. and 4.9 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by 0.127 in. thick. Bottom chords shall consist of two round bars measuring 0.566 in. in diam. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and 5-1/16 in. long. Web members shall consist of 0.565 in. diam bars.

1B. **Steel Joists —** (Not shown) — As an alternate to Item 1 — Composite or non-composite min 10k1 or min depth and weight shall be 10 in. and 5.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. The top chords shall consist of two angles measuring min 1-1/2 by 1-1/2 by 0.128 in. thick. Bottom chords shall consist of two angles measuring min 1 by 1 by 0.110 in. thick. Bearing plates shall consist of two angles measuring min 1-1/2 by 1-1/2 by 0.153 in. thick and shall be min 5 in. long. All web members, including the end web members shall consist of min 0.564 round bars. Bridging per S.J.I. specifications is required when non-composite joists are used.

2. **Normal Weight or Lightweight Concrete —** 2-1/2 in. thick, min compressive strength of 3000 psi. For normal weight concrete, either carbonate or siliceous aggregate may be used. Unit weight, 145 +/-3 pcf. For lightweight concrete, unit weight may range from 104 to 120 pcf.

3. **Shear Connector —** (Optional) — Studs, min 1/2 in. diam headed type or equivalent per A.I.S.C. specifications. Welded to the top chord of joists through the steel floor units. Stud welding, as recommended by the stud manufacturer, should be followed.

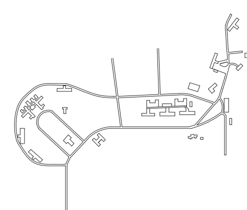
4. **Welded Wire Fabric —** Min 6x6-W1.4xW1.4.

5. **Steel Floor and Form Units —** 1-1/2 to 3 in. deep corrugated, fluted or cellular units welded to joists.

6. **Spray-Applied Fire Resistive Materials* —** Prepared by mixing with water. Spray-applied in one or more coats to joist surfaces to a min final thickness as shown in the table below. Joist surfaces must be clean and free of dirt, loose scale and oil. Crest areas of deck above the joist shall be filled with Spray-Applied Fire Resistive Materials. When metal lath (Item 7) is used on joist, Spray-Applied Fire Resistive Materials is to be applied over lath with no min thickness requirement.
Min average density of 15 pcf and min individual density of 14 pcf for Type 300, 300AC, SB, 300ES, 300HS, 300N, 3000 and 3000ES. For Types 400, 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and TG. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. For method of density determination, see Design Information Section, Sprayed Material.

Rating, Hr	Normal Weight Concrete, Fluted Floor and Form Units, Min Thkns In.	
	Restrained Beam	Unrestrained Beam

E5 UL DESIGN NO. BXUV.N761 - TRUSS FIRE PROOFING
3" = 1'-0" 0 6"



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

IA DAS
Woodward, IA 50276

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FIELD BOOK	

ARCHITECTURAL GENERAL INFORMATION

00-A001

Autodesk Revit 2022

the standard in safety

Underwriters Laboratories

July 16, 2008

Mr. Rudy Jagnandan
Sr. Development Engineer
Isolatek International
41 Furnace Street
Stanhope, NJ 07874

Our Reference: R3749; 08NK16981

Dear Mr. Jagnandan:

This is in response to your request that Underwriters Laboratories, Inc. (UL) undertake an investigation to summarize fire test data pertaining to the thermal transmission properties of your Types 300, 300ES, 300N or SB Spray-Applied Fire Resistive Material (SFRM) when applied to expanded metal lath substrates.

Thermal transmission properties were developed through engineering studies and small-scale testing. The small scale test samples were 4 ft. by 4 ft. with 3/8 in. expanded metal lath weighing 2.5 lb./sq. yd. applied directly to steel framing. The tests were conducted under Projects 08CA06090 and 96NK34305.

The Type 300 SFRM was applied to the metal lath at various thicknesses. Thermocouples were placed on the unexposed surface of the assemblies to measure temperature rise. The small-scale samples were tested on UL's small scale horizontal furnace with temperatures controlled in accordance with the UL 263 time temperature curve. These tests were conducted to establish the time at which the temperature on the unexposed surface was raised an average of 250 °F over the surface or 325 °F at an individual location.

Test data was studied to develop equations for predicting the thickness of material required to maintain an average temperature of 250 °F over the unexposed surface or 325 °F at an individual location, at specific hourly rating periods. The following table has been developed based on these equations.

Thickness of Types 300, 300ES, 300N or SB Spray-Applied Fire Resistive Material (SFRM) Applied over Metal Lath Surface					
Hourly Rating	**1 hr.**	**1-1/2 hr.**	**2 hr.**	**3 hr.**	**4 hr.**
Thickness (in.)	1-7/16	2	2-5/8	3-5/16	4-3/16

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Only those products bearing the appropriate Classification Marking and the company's name, trade name, trademark, or other recognized identification should be considered as covered by UL's Classification and Follow-Up Service. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories, Inc. (UL) or any authorized licensee.

We trust the above answers your inquiry. However, if you should have any questions, please contact the undersigned.

Very truly yours,

MARK IZYDOREK
Lead Engineering Associate
Fire Protection Division

Reviewed By:

FREDERICK E. HERVEY
Section Manager II
Fire Protection Division

Underwriters Laboratories Inc.
333 Pfingsten Road, Northbrook, IL 60062-2096 USA
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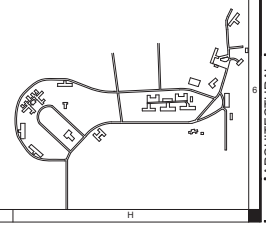
A5 FIRESAFING TEST REPORT
3" = 1'-0"



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

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ARCHITECTURAL GENERAL INFORMATION

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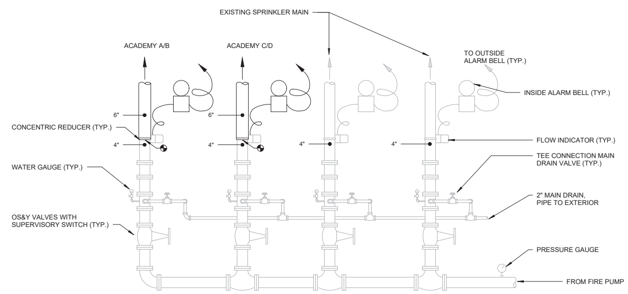
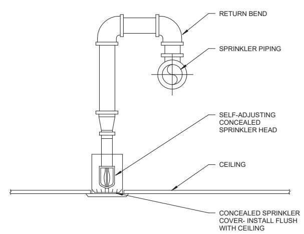


C2 MED CENTER SPRINKLER RISER DIAGRAM
NOT TO SCALE



C3a CONCEALED SPRINKLER HEAD INSTALLATION
NOT TO SCALE

PLUMBING SYMBOLS LIST

- 2" CW — PIPE SIZE AND SYSTEM TAG (DIAMETER)
- 1/4" / 12" — PIPE SLOPE TAG
- I.E. 100'-0 27/64" — PIPE INVERT ELEVATION TAG
- SAN — EXISTING TO REMAIN
- SAN — TO BE DEMOLISHED
- FPW — FIRE PROTECTION WET
- 6" CW UP — ELBOW UP
- 6" HW DN — ELBOW DOWN
- PIPE OFFSET UP
- PIPE OFFSET DOWN
- PIPE TEE TURNED UP
- PIPE TEE TURNED DOWN
- PIPE TEE
- PIPE CAP
- PIPE UNION
- PIPE TRANSITION
- KEYNOTE
- CAP EXISTING PIPE
- NEW CONNECTION INTO EXISTING PIPE
- THERMOMETER
- PRESSURE GAUGE
- DETAIL NUMBER
- SHEET NUMBER ON WHICH THE DETAIL RESIDES

GENERAL PLUMBING ABBREVIATIONS

	SYMBOLS
&	AND
@	AT
#	NUMBER or POUND
	A
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMB	AMBIENT
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
AR	ACID-RESISTANT
AS	AIR SEPARATOR
ASSY	ASSEMBLY
ATM	ATMOSPHERE
AUX	AUXILIARY
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
	B
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
	C
C	COMPRESSOR (AIR)
CAL	CALIBRATE
CAP	CAPACITY
CCR	CONCENTRIC REDUCER
CCW	COUNTER CLOCKWISE
CIP	CAST IRON PUMP
CIRC	CIRCULATING
CISP	CAST IRON SOIL PIPE
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CLW	CLOCKWISE
CO	CLEANOUT
COND	CONDENSATE
CONSTR	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
CP	CIRC PUMP
CSS	CLINICAL SERVICE SINK
CT	COOLING TOWER
CTRL	CONTROL
CU	COPPER
CU FT	CUBIC FEET
CU IN	CUBIC INCH
	D
°/DEG	DEGREE
°C	DEGREES CELSIUS
°F	DEGREES FAHRENHEIT
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIP	DUCTILE IRON PIPE
DN	DOWN
DR	DRAIN
DV	DRAIN VALVE
DW	DISHWASHER
DWG	DRAWING
DWV	DRAIN WASTE & VENT
	E
EA	EACH
ECCR	ECCENTRIC REDUCER
EER	ENERGY EFFICIENCY RATIO
EEW	EMERGENCY EYE WASH
EF	ENERGY FACTOR
ELEV	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EMERGENCY SHOWER / EYE WASH
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
	F
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FPT	FEMALE PIPE THREAD
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FTHD	FOOT HEAD OR PRESSURE DROP
FW	FEEDWATER
FWP	FIRE WATER PUMP
	G
G	GAS
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GREASE VENT
GWH	GAS FIRED WATER HEATER
	H
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HG	MERCURY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HZ	HERTZ (FREQUENCY)
	I
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
IN WC	INCHES (WATER COLUMN)
INS	INSULATION
INSTR	INSTRUMENT
IP	IRON PIPE
IPS	IRON PIPE SIZE
ISO	ISOMETRIC
	J
JS	JANITOR'S SINK
	K
K	KELVIN
KW	KILOWATT
KWH	KILOWATT HOUR
	L
LAV	LAVATORY
LB(S)	POUND(S)
LWT	LEAVING WATER TEMPERATURE
	M
MAINT	MAINTENANCE
MAX	MAXIMUM
MBH	BRITISH THERMAL UNIT (1000/HR)
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM OR MINUTE
MISC	MISCELLANEOUS
MOV	MOTOR OPERATED VALVE
MPT	MALE PIPE THREAD
	N
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
	O
OD	OUTER DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
ORD	OVERFLOW ROOF DRAIN
OST	OVERFLOW STORM
	P
PG	PRESSURE GAUGE OR PROPYLENE GLYCOL
PH	PHASE
PLBG	PLUMBING
PRV	PRESSURE RELIEF VALVE OR PRESSURE REGULATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
	R
RD	ROOF DRAIN
RECIRC	RECIRCULATE(ING)
REFR	REFRIGERATION
REQD	REQUIRED
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
	S
SCH	SCHEDULE
SCHM	SCHEMATIC
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SHT	SHEET
SK	SINK
SP	SUMP PUMP OR STATIC PRESSURE
SPEC	SPECIFICATION(S)
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
STBY	STANDBY
STD	STANDARD
STL	STEEL
SUCT	SUCTION
SV	SAFETY VALVE
SYS	SYSTEM
SRV	SAFETY RELIEF VALVE
	T
T	THERMOSTAT
TCC	TEMPERATURE CONTROL CONTRACTOR
TD	TRENCH DRAIN
TEFC	TOTALLY ENCLOSED FAN COOLED
TEMP	TEMPERATURE OR TEMPORARY
THRU	THROUGH
TOP	TOP OF PIPE
TP	TOTAL PRESSURE
TYP	TYPICAL
	U
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
	V
VAC	VACUUM
VBX	VALVE BOX
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
	W
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WH	WATER HEATER OR WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTR	WATER

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FIRE PROTECTION GENERAL INFORMATION

00-FP000

MECHANICAL SYMBOLS LIST

Symbol	Description
8" LPC	PIPE SIZE, SYSTEM, AND FLOW TAG (DIAMETER)
CHWS	EXISTING TO REMAIN
LPS	TO BE DEMOLISHED
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
RL	REFRIGERANT-LIQUID
RS	REFRIGERANT-SUCTION
	BALANCING VALVE
	BALL VALVE
	CHECK VALVE
	THREE WAY VALVE
	MOTORIZED CONTROL VALVE
	THREE WAY MOTORIZED CONTROL VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE
	ELBOW UP
	ELBOW DOWN
	PIPE OFFSET UP
	PIPE OFFSET DOWN
	PIPE TEE TURNED UP
	PIPE TEE TURNED DOWN
	PIPE TEE
	PIPE CAP
	PIPE UNION
	PIPE TRANSITION
12x12	DUCT SIZE TAG (SQ. OR RECT.)
12ø	DUCT SIZE TAG (ROUND)
	EXISTING TO REMAIN
	TO BE DEMOLISHED
	SUPPLY DUCT (SA)
	RETURN DUCT (RA)
	EXHAUST DUCT (EA)
12x12 SA UP	SQ. OR RECT. ELBOW TURNED UP W/ TAG
12x12 SA DN	SQ. OR RECT. ELBOW TURNED DOWN W/ TAG
12ø SA UP	ROUND ELBOW TURNED UP W/ TAG
12ø SA DN	ROUND ELBOW TURNED DOWN
	FLEXIBLE DUCT
	45° TAP BRANCH TAKE-OFF
	CONICAL TAP ROUND BRANCH TAKE-OFF
	CONICAL TAP ROUND BRANCH TAKE-OFF W/ MANUAL VOLUME DAMPER
	DOUBLE SIDED TRANSITION
	SINGLE SIDED TRANSITION
	SQ. OR RECT. ELBOW WITH TURNING VANES (45° AND 90°)
	SQ. OR RECT. TEE WITH TURNING VANES
	RADIUS ELBOW (45° AND 90°)
	MANUAL VOLUME DAMPER
F	FIRE DAMPER
S	SMOKE DAMPER
	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
	DUCT SMOKE DETECTOR
	KEYNOTE
	CAP EXISTING PIPE OR DUCT
	NEW CONNECTION INTO EXISTING PIPE OR DUCT
	AIR FLOW ARROW POSITIVE PRESSURE
	AIR FLOW ARROW NEGATIVE PRESSURE
CO_2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
P	PRESSURE SENSOR
TS	TEMPERATURE SENSOR
T	THERMOSTAT
H	HUMIDISTAT OR HUMIDITY SENSOR
T	TRAP
	THERMOMETER
	PRESSURE GAUGE
A	ANCHOR
G	GUIDE
S	SUPPORT
	DETAIL NUMBER
	SHEET NUMBER ON WHICH THE DETAIL RESIDES

Diffuser tag (A / 8ø / 200):
- TYPE - SEE BELOW
- ID. NO. - SEE SCHEDULE
- NECK SIZE IN INCHES (ROUND SHOWN)
- AIR FLOW (CFM)

DIFFUSER, GRILLE, REGISTER NOTATIONS

CD = CEILING DIFFUSER
EG = EXHAUST DIFFUSER
ER = EXHAUST REGISTER
LD = LINEAR DIFFUSER
RG = RETURN GRILLE
RR = RETURN REGISTER
SG = SUPPLY GRILLE
SR = SUPPLY REGISTER
TG = TRANSFER GRILLE

PLUMBING SYMBOLS LIST

Symbol	Description
2" CW	PIPE SIZE AND SYSTEM TAG (DIAMETER)
1/4" / 12"	PIPE SLOPE TAG
I.E. 100'-0 27/64"	PIPE INVERT ELEVATION TAG
SAN	EXISTING TO REMAIN
SAN	TO BE DEMOLISHED
FPW	FIRE PROTECTION WET
NG	NATURAL GAS
SAN	SANITARY SEWER
V	SANITARY VENT
6" CW UP	ELBOW UP
6" HW DN	ELBOW DOWN
	PIPE OFFSET UP
	PIPE OFFSET DOWN
	PIPE TEE TURNED UP
	PIPE TEE TURNED DOWN
	PIPE TEE
	PIPE CAP
	PIPE UNION
	PIPE TRANSITION
	KEYNOTE
	CAP EXISTING PIPE
	NEW CONNECTION INTO EXISTING PIPE
	THERMOMETER
	PRESSURE GAUGE
A	ANCHOR
G	GUIDE
S	SUPPORT
	DETAIL NUMBER
	SHEET NUMBER ON WHICH THE DETAIL RESIDES

PLUMBING

1. UNLESS NOTED OTHERWISE: LIGHT LINES DENOTE EXISTING PIPING, OR EQUIPMENT WHICH IS TO REMAIN. BOLD LINES INDICATE NEW WORK TO BE INSTALLED UNDER THIS CONTRACT.
2. PLUMBING SHOWN IS IN SCHEMATIC FORM. NOT ALL RISERS AND DROPS ARE SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. THE CONTRACTOR SHALL PROVIDE COMPLETE FULLY FUNCTIONAL SYSTEMS.
3. PROVIDE ACCESSIBLE ISOLATION VALVES AT ALL BRANCH CONNECTIONS TO MAINS AND PIPING FIXTURE GROUPS. COORDINATE VALVE LOCATIONS WITH ACCESSIBLE CEILINGS.
4. ALL EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED TO BE EASILY ACCESSIBLE.
5. PLUMBING WORK SHALL BE COORDINATED WITH OTHER TRADES, INCLUDING BUT NOT LIMITED TO DUCTWORK, ELECTRICAL EQUIPMENT, PIPING AND FIRE PROTECTION. SPACE ABOVE CEILING IS LIMITED AND SHALL BE COORDINATED WITH OTHER TRADES.
6. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED FOR ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL AND BACKFLOW PREVENTION INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.
8. CONTRACTOR SHALL NOT PROCURE OR FABRICATE ANY PIPING, DUCTWORK OR OTHER EQUIPMENT WITHOUT FIRST VERIFYING ALL DIMENSIONS AND CONDITIONS WHETHER CURRENTLY EXISTING OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING ANY REQUIRED REWORK.
9. MAINTAIN ALL MANUFACTURER RECOMMENDED EQUIPMENT SERVICE AND SAFETY CLEARANCES. DO NOT LOCATE ANY EQUIPMENT OR RUN MATERIALS ABOVE ANY ELECTRICAL PANELS OR SWITCHGEAR. MAINTAIN ALL NFPA/NEC CODE REQUIRED CLEARANCES.
10. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, SCHEDULING AND SEQUENCING OF THEIR WORK WITH ALL OTHER TRADES. PROVIDE OFFSETS, EASEMENTS, OR RELOCATE TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. FURNISH SUFFICIENT RESOURCES TO MEET ALL PROJECT MILESTONES AND DEADLINES.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.
12. PROTECT NEW WORK FROM DAMAGE OR CONTAMINATION. PROVIDE TEMPORARY PROTECTIVE CAPPING OR TAPED POLYETHYLENE ENCLOSURES OVER OPEN DUCTWORK AND PIPING ENDS AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING MECHANICAL SYSTEMS PRIOR TO PLACING THEM IN SERVICE.
13. IN A NEAT AND WORKMANLIKE MANNER: PATCH ANY REMAINING OPENINGS AND FILL EXCESSIVE GAPS; REWORK AND REFINISH TO MATCH ADJACENT STRUCTURES; FLASH AND SEAL ALL MECHANICAL AND ELECTRICAL PENETRATIONS THRU WALLS, CEILINGS AND FLOORS WITH METAL FRAMEWORK OR ESCUTCHEONS. ALL OPENINGS SHALL BE PROPERLY SEALED SO AS TO MEET FIRE RATING NEEDS.

GENERAL MECHANICAL ABBREVIATIONS

Abbreviation	Meaning
SYMBOLS	
&	AND
@	AT
#	NUMBER or POUND
A	
A/E	ARCHITECT/ENGINEER
AC	AIR CONDITIONER(ING)
ACH	AIR CHANGES PER HOUR
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMB	AMBIENT
AP	ACCESS PANEL
APPROX	APPROXIMATE(LY)
ASD	ADJUSTABLE SPEED DRIVE
AS	AIR SEPARATOR
ASSY	ASSEMBLY
ATM	ATMOSPHERE
AUX	AUXILIARY
AV	AIR VENT
AVG	AVERAGE
B	
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	
CA	COMBUSTION AIR
CAL	CALIBRATE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CCR	CONCENTRIC REDUCER
CCW	COUNTER CLOCKWISE
CFM	CUBIC FEET PER MINUTE
CFH	CUBIC FEET PER HOUR
CH	CHILLER
CHP	CHILLED WATER PUMP
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CIRC	CIRCULATING
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CLW	CLOCKWISE
CO	CARBON MONOXIDE
C.O.	CLEANOUT
CO2	CARBON DIOXIDE
COND	CONDENSATE
CONSTR	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CONV	CONVECTOR
COORD	COORDINATE
CP	CONDENSATE PUMP
CT	COOLING TOWER
CTRL	CONTROL
CU	COPPER
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
D	
°/DEG	DEGREE
°C	DEGREES CELSIUS
°F	DEGREES FAHRENHEIT
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFUSER
DMPR	DAMPER
DN	DOWN
DWG	DRAWING
E	
EA	EXHAUST AIR OR EACH
EAT	ENTERING AIR TEMPERATURE
ECCR	ECCENTRIC REDUCER
ECON	ECONOMIZER
ECU	EVAPORATIVE COOLING UNIT
EDB	ENTERING DRY BULB (TEMP)
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN / ENERGY FACTOR
EG	EXHAUST GRILLE
ELEV	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	
FD	FIRE DAMPER
FEA	FLUE EXHAUST AIR
FOB	DUCT FLAT ON BOTTOM
FOT	DUCT FLAT ON TOP
FPT	FEMALE PIPE THREAD
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FINNED TUBE RADIATION
FTHD	FOOT HEAD OR PRESSURE DROP
G	
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
H	HUMIDISTAT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ (FREQUENCY)
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
IN WC	INCHES (WATER COLUMN)
INS	INSULATION
INSTR	INSTRUMENT
ISO	ISOMETRIC
K	
KW	KILOWATT
KWH	KILOWATT HOUR
L	
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)
LDB	LEAVING DRY BULB (TEMP)
LWB	LEAVING WET BULB (TEMP)
LWT	LEAVING WATER TEMPERATURE
M	
MAINT	MAINTENANCE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	BRITISH THERMAL UNIT (1000/HR)
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM OR MINUTE
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MOV	MOTOR OPERATED VALVE
MPT	MALE PIPE THREAD
N	
NA	NOT APPLICABLE
NC	NORMALLY CLOSED OR NOISE CRITERIA
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
O	
OA	OUTDOOR AIR
OAD	OUTDOOR AIR DAMPER
OD	OUTER DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	
PG	PRESSURE GAUGE
PH	PHASE
PRV	PRESSURE RELIEF VALVE OR PRESSURE REGULATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PUH	PROPELLER UNIT HEATER
R	
RA	RETURN AIR
REFR	REFRIGERATION
REQD	REQUIRED
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RTU	ROOFTOP UNIT
S	
SA	SUPPLY AIR
SCH	SCHEDULE
SCHM	SCHEMATIC
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN OR SQUARE FEET
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION(S)
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
STBY	STANDBY
STD	STANDARD
STL	STEEL
SUCT	SUCTION
SV	SAFETY VALVE
SYS	SYSTEM
SRV	SAFETY RELIEF VALVE
T	
T	THERMOSTAT
TAB	TERMINAL AIR BOX
TEMP	TEMPERATURE OR TEMPORARY
THRU	THROUGH
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TP	TOTAL PRESSURE
TYP	TYPICAL
U	
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
V	
VAV	VARIABLE AIR VOLUME
VBX	VALVE BOX
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
W	
W/	WITH
W/O	WITHOUT
WB	WET BULB
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTR	WATER

MECHANICAL DUCTWORK

1. LIGHT LINES INDICATE EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN. BOLD LINES INDICATE PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE INSTALLED BY THIS CONTRACTOR UNLESS NOTED OTHERWISE.
2. NEW WORK HAS BEEN SHOWN DIAGRAMATICALLY AND DUE TO THE LIMITED SCALE OF THESE DRAWINGS, THE PLACEMENT AND ROUTING OF ALL DUCTWORK, PIPING, ETC. IS CONSIDERED SCHEMATIC IN NATURE; THEREFORE THE DRAWINGS MAY NOT SHOW ALL OFFSETS AND TRANSITIONS WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL PROVIDE COMPLETE FULLY FUNCTIONAL SYSTEMS.
3. COORDINATE ROUGH-IN AND FINAL LOCATION OF DUCTWORK AND PIPING WITH LIGHTING, STRUCTURE, SPRINKLERS, ETC. PROVIDE OFFSETS AND/OR EASEMENTS, OR RELOCATE AS REQUIRED AVOIDING CONFLICTS WITH WORK OF OTHER TRADES.
4. INSTALL MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN AND EXHAUST DUCT SYSTEMS AS REQUIRED FOR CONTROLLING AIR VOLUMES TO TRUNK DUCTS, BRANCH DUCTS, OUTLETS, AND INLETS. CONTRACTOR SHALL INSTALL A COMPLETE SYSTEM OF DAMPERS AS REQUIRED FOR BALANCING AIR SYSTEMS.
5. PLACE DIFFUSERS AS CLOSE TO PLAN LOCATION AS POSSIBLE WITHOUT INTERFERING WITH LIGHT GRID.
6. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED DUCT AND PAINTED. CONFIRM COLOR PRIOR TO PAINTING.
7. THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH OTHER WALL MOUNTED DEVICES. VERIFY WITH OWNER ON FINAL LOCATION PRIOR TO INSTALLING.
8. PROVIDE CONCEALING FLANGES AT ALL VISIBLE DUCT PENETRATIONS THROUGH WALLS.
9. ENSURE ALL MANUFACTURER RECOMMENDED CLEARANCES ARE MET FOR ALL EQUIPMENT.
10. PROVIDE REQUIRED NEC CLEARANCE FOR ALL CONTROL PANELS INCLUDING VAV BOX CONTROL BOXES LOCATED ABOVE CEILINGS.
11. DO NOT ROUTE ANY COMPONENTS ABOVE ELECTRICAL EQUIPMENT. MAINTAIN ALL CODE REQUIRED CLEARANCES.
12. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT SHALL BE MOUNTED ON MINIMUM 4" CONCRETE HOUSEKEEPING PADS.
13. PREP ALL EXPOSED METAL DUCTWORK TO RECEIVE PAINT.
14. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE, AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.
16. CONTRACTOR SHALL NOT PROCURE OR FABRICATE ANY PIPING, DUCTWORK OR OTHER EQUIPMENT WITHOUT FIRST VERIFYING ALL DIMENSIONS AND CONDITIONS WHETHER CURRENTLY EXISTING OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING ANY REQUIRED REWORK.
17. MAINTAIN ALL MANUFACTURER RECOMMENDED EQUIPMENT SERVICE AND SAFETY CLEARANCES. DO NOT LOCATE ANY EQUIPMENT OR RUN MATERIALS ABOVE ANY ELECTRICAL PANELS OR SWITCHGEAR. MAINTAIN ALL NFPA/NEC CODE REQUIRED CLEARANCES.
18. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, SCHEDULING AND SEQUENCING OF THEIR WORK WITH ALL OTHER TRADES. PROVIDE OFFSETS, EASEMENTS, OR RELOCATE TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. FURNISH SUFFICIENT RESOURCES TO MEET ALL PROJECT MILESTONES AND DEADLINES.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.
20. PROTECT NEW WORK FROM DAMAGE OR CONTAMINATION. PROVIDE TEMPORARY PROTECTIVE CAPPING OR TAPED POLYETHYLENE ENCLOSURES OVER OPEN DUCTWORK AND PIPING ENDS AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING MECHANICAL SYSTEMS PRIOR TO PLACING THEM IN SERVICE.
21. IN A NEAT AND WORKMANLIKE MANNER: PATCH ANY REMAINING OPENINGS AND FILL EXCESSIVE GAPS; REWORK AND REFINISH TO MATCH ADJACENT STRUCTURES; FLASH AND SEAL ALL MECHANICAL AND ELECTRICAL PENETRATIONS THRU WALLS, CEILINGS AND FLOORS WITH METAL FRAMEWORK OR ESCUTCHEONS. ALL OPENINGS SHALL BE PROPERLY SEALED SO AS TO MEET FIRE RATING NEEDS.
22. ALL BRANCH DUCTWORK SHALL BE EQUIPMENT CONNECTION SIZE UNLESS OTHERWISE NOTED.
23. PROVIDE ACCESS PANELS IN HARD LID CEILINGS TO ALLOW ACCESS FOR ALL DUCT MOUNTED EQUIPMENT (VOLUME DAMPERS, FIRE DAMPERS, FIRE/SMOKE DAMPERS, ETC.) COORDINATE LOCATION WITH CEILING PLAN AND ARCHITECTURAL REQUIREMENTS.
24. ALL PIPING, EQUIPMENT AND DUCTWORK SUSPENDED BELOW THE ROOF SHALL BE SUSPENDED FROM THE STRUCTURE AND NOT THE ROOF DECK.

MECHANICAL PIPING

1. PIPING IS SHOWN IN SCHEMATIC FORM, ROUTE AS REQUIRED FOR CLEARANCE. VERIFY ROUTING AND CLEARANCES AND COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION. THE CONTRACTOR SHALL PROVIDE COMPLETE FULLY FUNCTIONAL SYSTEMS.
2. BREAK CONNECTIONS REQUIRED AT ALL MAJOR EQUIPMENT AND PIPING ITEMS THAT REQUIRE REMOVAL FOR MAINTENANCE.
3. PIPE REDUCTIONS ON HORIZONTAL PIPING GOING FROM LARGER TO SMALLER SHALL BE MADE WITH ECCENTRIC REDUCERS: TOP FLAT FOR LIQUID SYSTEMS, CONCENTRIC REDUCERS MAY BE USED FOR FLOW GOING FROM SMALL TO LARGER SIZE PIPE.
4. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS.
5. NEW FLOOR/WALL/CEILING PENETRATIONS REQUIRED FOR MECHANICAL PIPING INSTALLATION SHALL BE CLEANLY BORED AT RIGHT ANGLES. AS NEW PIPING IS INSTALLED, NEW PIPING PENETRATIONS SHALL BE NEATLY CAULKED TO FILL VOID. WALL PENETRATIONS SHALL BE FINISHED WITH ESCUTCHEONS.
6. ALL NEW PIPING EXPOSED IN OCCUPIED SPACES SHALL HAVE PVC JACKETS INSTALLED OVER THE PIPING INSULATION. ANY PIPING REQUIRED TO BE EXPOSED SHALL BE INSTALLED VERTICALLY OR HORIZONTALLY IN LEAST VISIBLE LOCATION.
7. ALL NEW EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE.
8. CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCHING SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES.
9. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED FOR ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL AND BACKFLOW PREVENTION INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.
11. CONTRACTOR SHALL NOT PROCURE OR FABRICATE ANY PIPING, DUCTWORK OR OTHER EQUIPMENT WITHOUT FIRST VERIFYING ALL DIMENSIONS AND CONDITIONS WHETHER CURRENTLY EXISTING OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING ANY REQUIRED REWORK.
12. MAINTAIN ALL MANUFACTURER RECOMMENDED EQUIPMENT SERVICE AND SAFETY CLEARANCES. DO NOT LOCATE ANY EQUIPMENT OR RUN MATERIALS ABOVE ANY ELECTRICAL PANELS OR SWITCHGEAR. MAINTAIN ALL NFPA/NEC CODE REQUIRED CLEARANCES.
13. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, SCHEDULING AND SEQUENCING OF THEIR WORK WITH ALL OTHER TRADES. PROVIDE OFFSETS, EASEMENTS, OR RELOCATE TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. FURNISH SUFFICIENT RESOURCES TO MEET ALL PROJECT MILESTONES AND DEADLINES.
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15. PROTECT NEW WORK FROM DAMAGE OR CONTAMINATION. PROVIDE TEMPORARY PROTECTIVE CAPPING OR TAPED POLYETHYLENE ENCLOSURES OVER OPEN DUCTWORK AND PIPING ENDS AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING MECHANICAL SYSTEMS PRIOR TO PLACING THEM IN SERVICE.
16. IN A NEAT AND WORKMANLIKE MANNER: PATCH ANY REMAINING OPENINGS AND FILL EXCESSIVE GAPS; REWORK AND REFINISH TO MATCH ADJACENT STRUCTURES; FLASH AND SEAL ALL MECHANICAL AND ELECTRICAL PENETRATIONS THRU WALLS, CEILINGS, AND FLOORS WITH METAL FRAMEWORK OR ESCUTCHEONS. ALL OPENINGS SHALL BE PROPERLY SEALED SO AS TO MEET FIRE RATING NEEDS.
17. ALL BRANCH PIPING TO EQUIPMENT TO BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
18. EXTEND ALL DRAIN CONNECTIONS FOR MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN, MOP SINK, ETC.. PROVIDE P-TRAP AS REQUIRED BY MANUFACTURER. DRAIN PIPING TO BE SIZED PER CODE OR LINE SIZE, WHICHEVER IS LARGER.

MECHANICAL DEMOLITION

1. THIS DRAWING DIAGRAMMATICALLY REPRESENTS THE LAYOUT OF EXISTING CONDITIONS WITH MAJOR MECHANICAL AND ELECTRICAL COMPONENTS. THEY ARE NOT INTENDED TO SHOW ACCESSORIES OR INCIDENTALS COMMON TO EQUIPMENT INDICATED, THOUGH THESE ITEMS ARE TO BE REMOVED, ACCESSIBILITY TO DEMOLITION ITEMS SHALL NOT BE INFERRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF BUILDING AND EXISTING CONDITIONS, PRIOR TO BID SUBMISSION.
2. DEMOLITION SHALL INCLUDE ALL HANGERS, FITTINGS, DAMPERS, VALVES, ETC.
3. REPAIR ANY INSULATION DAMAGED DURING REMOVAL. REPAIR WORK TO BE SAME AS NEW.
4. PATCHWORK SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES. REFERENCE ARCHITECTURAL PLANS.
5. CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCH SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES.
6. OWNER SHALL RETAIN FIRST SALVAGE RIGHTS TO ALL REMOVED EQUIPMENT AND MATERIALS. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER AND TIMELY DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED TO EQUIPMENT AND MATERIALS NOT CLAIMED BY OWNER TO AN EPA APPROVED, ENVIRONMENTALLY RESPONSIBLE, RECYCLE FACILITY OR LANDFILL.
7. IT IS ESSENTIAL TO MINIMIZE DISRUPTIONS. COORDINATE ALL DEMOLITION WITH OWNER, CONSTRUCTION MANAGER BEFORE SHUTTING DOWN ANY UTILITY OR SIMILAR SYSTEM. SHUTDOWNS FOR UTILITIES OR SIMILAR SYSTEMS SHALL BE REQUESTED WELL IN ADVANCE AND PRE-APPROVED BY THE PROPER AUTHORITY(S) HAVING JURISDICTION BEFORE BEGINNING WORK.
8. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE, AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED FOR ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL AND BACKFLOW PREVENTION INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.

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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

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APPROVED BY	JDB
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GENERAL MECHANICAL AND PLUMBING SYMBOLS & NOTES

00-M000

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
	X	SURFACE LIGHT (TYPE DENOTED)
	X	RECESSED LIGHT (TYPE DENOTED)
PER SCHED	X	WALL MOUNTED LIGHT (TYPE DENOTED)
PER SCHED	X	WALL MOUNTED FLOOD LIGHT (TYPE DENOTED)
		SURFACE LIGHT (TYPE DENOTED)
		SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)
		RECESSED LIGHT (TYPE DENOTED)
PER SCHED	X	SITE POLE MOUNTED LIGHT (TYPE DENOTED)
PER SCHED	X	SITE BOLLARD LIGHT (TYPE DENOTED)
AS NOTED		TRACK AND TRACK LIGHT (TYPE DENOTED)
96"	EM	EMERGENCY BATTER LIGHT (TYPE DENOTED)
	E	EXIT SIGN (TYPE DENOTED)
AS NOTED		LIGHT FIXTURE ON EMERGENCY CIRCUIT
	T	LIGHTING CONTROL DENOTATION
48"	$	SINGLE POLE SWITCH
48"	$3	3-WAY SWITCH
48"	$4	4-WAY SWITCH
48"	$K	KEYED SWITCH
48"	$D	DIMMER SWITCH
48"	$OS	OCCUPANCY SENSOR SWITCH
48"	$MS	MOMENTARY CONTACT SWITCH
48"	$T	TIMER SWITCH
48"	$SP	FAN SPEED CONTROL
48"	$M	MOTOR HORSEPOWER RATED SWITCH
48"		PUSH BUTTON
48"	DUC	DURESS PUSH BUTTON, UNDER COUNTER
18" UNO		DUPLEX RECEPTACLE
18" UNO		FOURPLEX RECEPTACLE
	FB	FLOOR BOX (TYPE DENOTED)
	CLG	CEILING MOUNTED DUPLEX RECEPTACLE

HT AFF	SYMBOL	DESCRIPTION
18"		SURFACE RACEWAY (TYPE DENOTED)
	A	CLOCK (TYPE DENOTED)
		POWER POLE (OPEN OFFICE STYLE)
		ELECTRICAL CONNECTION (SEE SCHEDULE)
AS NOTED		JUNCTION BOX
72***		CIRCUIT BREAKER PANEL
72***		POWER OR DISTRIBUTION PANEL
72***		SPECIAL CABINET (TYPE DENOTED)
		TRANSFORMER (TYPE DENOTED)
	25 KVA	GENERATOR (KVA DENOTED)
	SF-1	MOTOR (SEE SCHEDULE)
		MOTORIZED DAMPER
72***		SAFETY DISCONNECTION SWITCH
	ASDS	ADJUSTABLE SPEED DRIVE
72***	R	RELAY
	OS IR	OCCUPANCY SENSOR (TYPE DENOTED)
	LSA	LIGHT LEVEL SENSOR (TYPE DENOTED)
AS NOTED		PHOTOCELL
AS NOTED		CCTV CAMERA (TYPE DENOTED)
	SM	SURVEILLANCE MONITOR
48"	V	VOLUME CONTROL
48"		INTERCOM STATION
	ICM	INTERCOM MASTER
	E#	KEYED NOTE (SEE SCHEDULE)
	FS	SPRINKLER FLOW SWITCH
	TS	SPRINKLER VALVE TAMPER SWITCH
	CT	CONTACT SENSING CONTROL MODULE
	CR	RELAY OUTPUT CONTROL MODULE
	VFD	VARIABLE FREQUENCY DRIVE
	DDC	DIRECT DIGITAL CONTROL PANEL

HT AFF	SYMBOL	DESCRIPTION
		CONDUIT CONCEALED IN WALL OR OVERHEAD
		CONDUIT CONCEALED BELOW FLOOR
		CONDUIT TRANSITION UP
		CONDUIT TRANSITION DOWN
		CONDUIT STUBBED OUT
		BRANCH CIRCUIT HOME RUN
		CABLE TRAY (TYPE DENOTED)
		CONDUIT SLEEVE (SIZE DENOTED)
48****	W	WALL TELEPHONE OUTLET (TYPE DENOTED)
18" UNO		TELEPHONE OUTLET (TYPE DENOTED)
18" UNO	X	DATA OUTLET (INDICATED QTY CABLES)
18" UNO		VOICE/DATA OUTLET (TYPE DENOTED)
		WIRELESS ACCESS POINT
18" UNO	TV	TELEVISION OUTLET
	TV	CEILING MOUNTED TELEVISION OUTLET
84"		SPEAKER (WALL OR CEILING MOUNT)
84"		HORN TYPE SPEAKER
		SURFACE MOUNT SPEAKER SUSPENDED FROM CEILING
60"		NURSE CALL SINGLE PATIENT STATION
60"		37 PIN BED INTERFACE RECEPTACLE
60"		AUXILIARY ALARM STATION, TWO JACK
36" UNO		EMERGENCY PULL CORD STATION
60"		STAFF TERMINAL, TOUCHSCREEN
60"		DUTY STATION
60"		NURSE CALL STAFF STATION
60"		STAFF ASSIST
48"		CODE BLUE STATION
12"*		NURSE CALL DOME LIGHT
48****	NCM	NURSE CALL MASTER STATION
48****	NCK	NURSE CALL EQUIPMENT CABINET
72****	NC ANNUN	NURSE CALL ANNUNCIATOR PANEL

HT AFF	SYMBOL	DESCRIPTION
	M	MANUAL PULL STATION (46" ABOVE FLOOR) K = KEY OPERATED INSTITUTIONAL PULL STATION
	B	AUDIO NOTIFICATION DEVICE - CEILING MOUNTED B = BELL C = CHIME H = HORN S = SPEAKER
	B	AUDIO NOTIFICATION DEVICE - CEILING MOUNTED 80" ABOVE FLOOR OR AS NOTED B = BELL C = CHIME H = HORN S = SPEAKER
	V	VISUAL NOTIFICATION DEVICE - CEILING MOUNTED
	V	VISUAL NOTIFICATION DEVICE - WALL MOUNTED 80" ABOVE FLOOR OR AS NOTED
	AV	AUDIO/VISUAL NOTIFICATION DEVICE - CEILING MOUNTED B = BELL C = CHIME H = HORN S = SPEAKER
	AV	AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED 80" ABOVE FLOOR OR AS NOTED B = BELL C = CHIME H = HORN S = SPEAKER
72***	FACP	FIRE ALARM REMOTE ANNUNCIATOR
72***	FARP	FIRE ALARM CONTROL PANEL
72***	ANN	FIRE ALARM RELAY PANEL
8*****	D P	SMOKE DETECTOR (TYPE DENOTED)
	D P RIP 135 RIP 135	HEAT DETECTOR (TYPE AND TEMP DENOTED)
		LINEAR HEAT DETECTOR
		DUCT SMOKE DETECTOR (TYPE DENOTED)
	DH	DOOR HOLDER
	DH	DOOR CLOSER/HOLD OPEN
	DR	SMOKE DAMPER RELEASE
	FR	FIRE ALARM SHUT DOWN RELAY

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE POINT OF EQUIPMENT **** DISTANCE BELOW CEILING ***** DISTANCE TO BOTTOM OF DEVICE

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER CIRCULATING PUMP	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	SWBD	SWITCHBOARD
A	AMPERE	DEPT	DEPARTMENT	HTG	HEATING			SYM	SYMMETRICAL
AC	ABOVE COUNTER	DET	DETAIL	HTR	HEATER			SYS	SYSTEM
ACLG	ABOVE CEILING	DIA	DIAMETER	HV	HIGH VOLTAGE	NFDS	NON-FUSED SAFETY	TEL	TELEPHONE
ADO	AUTOMATIC DOOR OPENER	DISC	DISCONNECT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NIC	DISCONNECT SWITCH NOT IN CONTRACT	TELDATA	TELEPHONE/DATA
AF	AMP FRAME	DIST	DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NL	NIGHT LIGHT	TERM	TERMINAL
AFF	ABOVE FINISHED FLOOR	DN	DOWN			N.O.	NORMALLY OPEN	TL	TWIST LOCK
AFG	ABOVE FINISHED GRADE	DPR	DAMPER	IC	INTERRUPTING CAPACITY	NPF	NORMAL POWER FACTOR	TR	TAMPER RESISTANT
AFI	ARC FAULT CIRCUIT INTERRUPTER	DS	SAFETY DISCONNECT SWITCH	IG	ISOLATED GROUND	NTS	NOT TO SCALE	T-STAT	THERMOSTAT
		DT	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT			TTC	TELEPHONE TERMINAL CABINET
AHU	AIR HANDLING UNIT	DWG	DRAWING	INCAND	INCANDESCENT	OH	OVERHEAD	TV	TELEVISION
AL	ALUMINUM			IR	INFRARED	OL	OVERLOADS	TVTC	TELEVISION TERMINAL CABINET
ALT	ALTERNATE	EC	ELECTRICAL CONTRACTOR	IW	INTERLOCK WITH				
AMP	AMPERE	ELEC	ELECTRIC, ELECTRICAL			PA	PUBLIC ADDRESS	TYP	TYPICAL
AMPL	AMPLIFIER	ELEV	ELEVATOR	J-BOX	JUNCTION BOX	PB	PULL BOX OR PUSHBUTTON		
ANNUN	ANNUNCIATOR	EM	EMERGENCY			PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
APPROX	APPROXIMATELY	EMS	ENERGY MANAGEMENT SYSTEM	KV	KILOVOLT	PED	PEDESTAL	UE	UNDERGROUND ELECTRICAL
AQ-STAT	AQUASTAT	EMT	ELECTRICAL METALLIC TUBING	KVA	KILOVOLT-AMPERE	PF	POWER FACTOR	UG	UNDERGROUND
ARCH	ARCHITECT, ARCHITECTURAL	EP	ELECTRIC PNEUMATIC	KVAR	KILOVOLT-AMPERE REACTIVE	PH	PHASE	UH	UNIT HEATER
AS	AMP SWITCH	EQUIP	EQUIPMENT	KW	KILOWATT	PIV	POST INDICATING VALVE	UNO	UNLESS NOTED OTHERWISE
AT	AMP TRIP	EWC	ELECTRIC WATER COOLER	KWH	KILOWATT HOUR	PNL	PANEL	UT	UNDERGROUND TELEPHONE
ATS	AUTOMATIC TRANSFER SWITCH	EXIST	EXISTING			PP	POWER POLE	UTIL	UTILITY
AUTO	AUTOMATIC	EXH	EXHAUST	LOC	LOCATE OR LOCATION	PR	PAIR	UV	UNIT VENTILATOR OR ULTRAVIOLET
AUX	AUXILIARY	EXP	EXPLOSION PROOF	LT	LIGHT	PRI	PRIMARY		
AV	AUDIO VISUAL			LTG	LIGHTING	PROJ	PROJECTION		
AWG	AMERICAN WIRE GAUGE	FA	FIRE ALARM	LTNG	LIGHTNING	PRV	POWER ROOF VENTILATOR	V	VOLT
		FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	LV	LOW VOLTAGE	PT	POTENTIAL TRANSFORMER	VA	VOLT-AMPERES
BATT	BATTERY	FACP	FIRE ALARM CONTROL PANEL			PVC	POLYVINYL CHLORIDE (CONDUIT)	VDT	VIDEO DISPLAY TERMINAL
BD	BOARD	FCU	FAN COIL UNIT	MAX	MAXIMUM			VERT	VERTICAL
BLDG	BUILDING	FIXT	FIXTURE	MAG.S	MAGNETIC STARTER	PWR	POWER	VFD	VARIABLE FREQUENCY DRIVE
BMS	BUILDING MANAGEMENT SYSTEM	FLR	FLOOR	M/C	MOMENTARY CONTACT			VOL	VOLUME
		FLUOR	FLUORESCENT	MC	MECHANICAL CONTRACTOR	QUAN	QUANTITY		
C	CONDUIT	FU	FUSE	MCB	MAIN CIRCUIT BREAKER			W	WATT
CAB	CABINET	FUDS	FUSED SAFETY DISCONNECT	MCC	MOTOR CONTROL CENTER	RCPT	RECEPTACLE	W/	WITH
CAT	CATALOG		SWITCH	MDC	MAIN DISTRIBUTION CENTER	REQD	REQUIRED	WG	WIRE GUARD
CATV	CABLE TELEVISION			MDP	MAIN DISTRIBUTION PANEL	RM	ROOM	WH	WATER HEATER
CB	CIRCUIT BREAKER	GA	GAUGE	MFR	MANUFACTURER	RSC	RIGID STEEL CONDUIT	W/O	WITHOUT
CCTV	CLOSED CIRCUIT TELEVISION	GAL	GALLON	MFS	MAIN FUSED DISCONNECT SWITCH	RTU	ROOF TOP UNIT	WP	WEATHERPROOF
CKT	CIRCUIT	GALV	GALVANIZED	MH	MANHOLE	SC	SURFACE CONDUIT	XFMR	TRANSFORMER
CLG	CEILING	GC	GENERAL CONTRACTOR	MIC	MICROPHONE	SEC	SECONDARY	XFR	TRANSFER
COMM	COMMUNICATION	GEN	GENERATOR	MIN	MINIMUM	SHT	SHEET		
COMPR	COMPRESSOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MISC	MISCELLANEOUS	SIM	SIMILAR		
CONN	CONNECTION			MLO	MAIN LUGS ONLY	S/N	SOLID NEUTRAL		
CONST	CONSTRUCTION	GFP	GROUND FAULT PROTECTOR	MMS	MANUAL MOTOR STARTER	SPEC	SPECIFICATION	∠	ANGLE
CONT	CONTINUATION OR CONTINUOUS	GND	GROUND	MOA	MULTIOUTLET ASSEMBLY	SPKR	SPEAKER	@	AT
		GRS	GALVANIZED RIGID STEEL (CONDUIT)	MSP	MOTOR STARTER PANELBOARD	SP	SPARE	Δ	DELTA
CONTR	CONTRACTOR			MSBD	MAIN SWITCHBOARD	SR	SURFACE RACEWAY	'	FEET
CONV	CONVECTOR	GYP BD	GYPSUM BOARD	MT	MOUNT	SS	STAINLESS STEEL	"	INCHES
CP	CIRCULATING PUMP			MT.C	EMPTY CONDUIT	SSW	SELECTOR SWITCH	#	NUMBER
CRT	CATHODE-RAY TUBE	HOA	HAND/S-OFF-AUTOMATIC SWITCH	MTS	MANUAL TRANSFER SWITCH	S/S	STOP/START PUSHBUTTONS	Φ	PHASE
CT	CURRENT TRANSFORMER			MTR	MOTOR, MOTORIZED	STA	STATION	℄	CENTER LINE
CTR	CENTER	HORIZ	HORIZONTAL			STD	STANDARD	ℇ	PLATE
CU	COPPER	HP	HORSEPOWER	N.C.	NORMALLY CLOSED	SURF	SURFACE MOUNTED		
		HPF	HIGH POWER FACTOR	NEC	NATIONAL ELECTRICAL CODE	SW	SWITCH		

DEMOLITION GENERAL NOTES

1. LIGHT LINES INDICATE EXISTING WALLS AND EQUIPMENT TO REMAIN. DASHED LINES INDICATE WALLS, EQUIPMENT, AND ELECTRICAL ITEMS TO BE REMOVED.
2. COORDINATE PATCHING REQUIREMENTS FOR UNUSED OPENINGS WITH THE CONSTRUCTION MANAGER.
3. FIRE ALARM - REMOVE EXISTING CEILING MOUNTED DEVICES TO PERMIT REMOVAL OF CEILING. WALL MOUNTED NOTIFICATION DEVICES SHALL BE DEMOLISHED. COORDINATE WORK WITH PROJECT PHASING TO MAINTAIN FIRE ALARM SYSTEM PROTECTION OF SPACES AT ALL TIMES.
4. COORDINATE DISPOSAL OF ALL ITEMS NOT REQUESTED AS SALVAGE BY THE OWNER.
5. DISCONNECT OUTLETS, WIRING, AND OTHER NOTED EQUIPMENT TO PERMIT DEMOLITION OF WALLS. VERIFY AND MAINTAIN CONNECTION TO EXISTING OUTLETS THAT WILL NOT BE REMOVED BUT ARE ON COMMON CIRCUITS WITH ITEMS TO BE REMOVED.
6. DRAWINGS DO NOT IDENTIFY ALL OUTLETS, SWITCHES, CABLING, OR EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE LABOR AND MATERIAL NECESSARY FOR REQUIRED DEMOLITION IN THEIR BID.
7. WIRING SHALL BE REMOVED BACK TO SERVING PANEL. INSTALLATION OF NEW CONDUCTORS IN EXISTING CONDUITS WILL BE PERMITTED AS DESCRIBED IN THE DIVISION 26 SPECIFICATIONS.
8. HVAC EQUIPMENT NOTED FOR REMOVAL IS FOR REFERENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE MECHANICAL SYSTEMS DEMOLITION PLANS AND INCLUDE ALL LABOR AND MATERIAL NECESSARY TO FACILITATE REMOVAL OF EQUIPMENT AS SHOWN ON THOSE DRAWINGS. THIS SHALL INCLUDE ALL ITEMS NOTED ON EITHER THE PLUMBING OR MECHANICAL SERIES OF DRAWINGS.
9. CONTRACTOR TO CONTACT MATT SMITH AT SIEMENS FIRE ALARM FOR DECOMMISSIONING AND REPROGRAMMING OF EXISTING SIEMENS SYSTEM matt@siemens.com 515-371-3746.

STATE HISTORICAL PRESERVATION OFFICE REQUIREMENTS

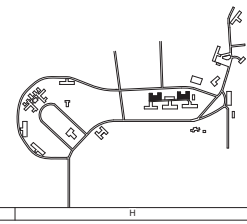
1. FOR FINISHED SPACES (OFFICES, RECEPTION, ETC.), PAINT EXPOSED CONDUIT WHITE.
2. FOR UNFINISHED SPACES (BASEMENTS, ATTICS, WORKSHOPS, ETC.) CONDUIT CAN REMAIN UNPAINTED.

HAZARDOUS MATERIAL NOTES

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY THE STATE, THE STATE AMENDMENTS, AND THE AUTHORITY HAVING JURISDICTION. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
2. IT IS THE INTENT OF THESE DOCUMENTS TO COMPLY WITH THE APPLICABLE CODES. WHERE DISCREPANCIES OCCUR, NOTIFY THE ENGINEER/ARCHITECT IN WRITING FOR INTERPRETATION. CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL PROVIDE ALL WORK NECESSARY INCLUDING ALL LABOR, MATERIALS, PERMITS, TAXES, FEES, INSPECTIONS, HARDWARE, AND COST FOR INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, COMPLETE WITH MANUFACTURER'S GUARANTEE OR WARRANTY AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
5. COORDINATE ELECTRICAL INSTALLATION WITH ALL TRADES PRIOR TO INSTALLATION. IF ELECTRICAL WORK INSTALLED INTERFERES WITH OTHER TRADES AFTER INSTALLATION, THE CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE OWNER.
6. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
7. ALL ELECTRICAL PANELS WITH ANY BRANCH CIRCUITLOAD REVISIONS (DEMOLITION OR NEW WORK) SHALL HAVE A NEW TYPED UPDATED CIRCUIT DIRECTORY CARD INSTALLED INSIDE THE DOOR OF THE ELECTRICAL PANEL. THE CONTRACTOR SHALL VERIFY THAT ALL UNUSED CIRCUIT BREAKERS ARE TURNED 'OFF' AND PROPERLY INDICATED AS 'SPARE' ON THE NEW CIRCUIT DIRECTORY CARD. THE CONTRACTOR SHALL INSTALL FILLER PLATES WHERE BREAKERS ARE REMOVED AS PART OF THIS PROJECT OR HAVE BEEN REMOVED PREVIOUSLY.
8. NO ENERGIZED CONDUCTORS SHALL BE EXPOSED AT ANYTIME EXCEPT WHEN THE IMMEDIATE AREA IS UNDER THE SUPERVISION OF A QUALIFIED ELECTRICIAN.
9. WHERE CONDUIT IS SURFACE MOUNTED TO A WALL AND RUN VERTICALLY DOWN TO A SWITCH/OUTLET BOX, UTILIZE 1-HOLE OR 2-HOLE CONDUIT STRAPS.
10. PENETRATIONS THROUGH FIRE RATED WALLS BY OR FOR DIVISION 26 CONTRACTOR SHALL BE SEALED WITH APPROPRIATE FIRE PROOFING MATERIAL TO RESTORE FIRE RATING.
11. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN OF ALL DEBRIS ON A DAILY BASIS. ALL NEW MATERIALS AWAITING INSTALLATION SHALL BE KEPT IN AREAS DESIGNATED BY THE OWNER.
12. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
13. THE INFORMATION CONTAINED ON THE ELECTRICAL DRAWINGS IS IN ITSELF INCOMPLETE AND VOID UNLESS USED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS, THE SPECIFICATIONS, TRADE PRACTICES, OR APPLICABLE STANDARDS, CODES, ETC., AND SHALL BE CONSIDERED THE CONTRACT DOCUMENTS AND WITH ALL THEREIN BY REFERENCE, WHICH THE CONTRACTOR CERTIFIES KNOWLEDGE OF BY SIGNING THE CONTRACT.
14. CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORM WORK, ETC.). FOR COORDINATION OF THE VARIOUS TRADES, AND FOR SAFE CONDITIONS ON THE JOB SITE. VARIATIONS IN FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY ARE FOUND. WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION FROM THE ENGINEER IS OBTAINED.



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IWRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

93 LINDEN DRIVE
IOWA CITY, IOWA

Iowa Department of Administrative Services
1251 334th St. Woodward, IA 50276

DRAWN BY	RML
APPROVED BY	KJB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	224001040
FIELD BOOK	

ELECTRICAL GENERAL INFORMATION

00-E000

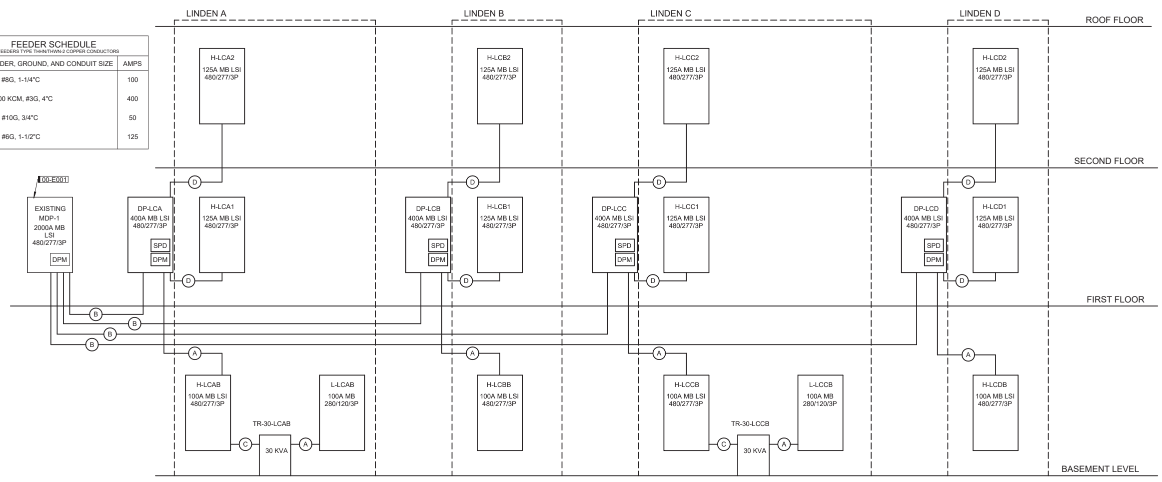
KEYNOTES

KEY	NOTE
00-E001	(4) 400A/3P BREAKERS INSTALLED IN EXISTING PANEL.
00-E006	(4) 4" CONDUITS INSTALLED FROM EXISTING MDP-1 INTO TUNNEL AS PART OF PREVIOUS PROJECT. CONTINUE CONDUITS THROUGH TUNNEL TO NEW PANEL LOCATIONS.

FEEDER SCHEDULE

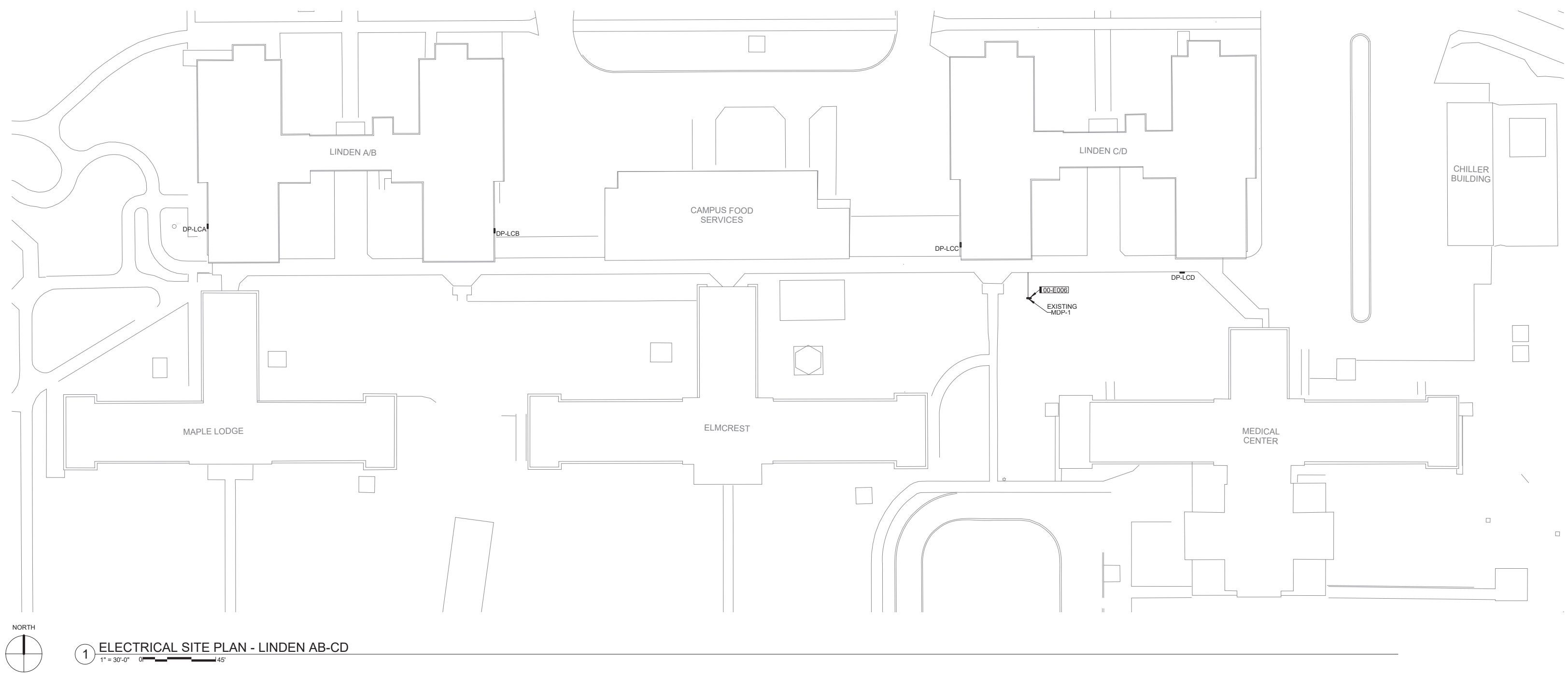
ALL FEEDERS TYPE THHN/THWN-2 COPPER CONDUCTORS

TAG	FEEDER, GROUND, AND CONDUIT SIZE	AMPS
A	4#2, #8G, 1-1/4"C	100
B	4#600 KCM, #3G, 4"C	400
C	3#8, #10G, 3/4"C	50
D	4#1, #6G, 1-1/2"C	125



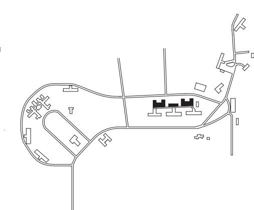
2 LINDEN COURT RISER DIAGRAM

NOT TO SCALE



1 ELECTRICAL SITE PLAN - LINDEN AB-CD

1" = 30'-0"   0   45'



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ELECTRICAL SITE PLAN - LINDEN COURT

00-E012

Autodesk Revit 2022

2024 IBC CODE SUMMARY

BASED ON REVIEW OF THE PROJECT UNDER THE 2024 IEBC, SHIVE-HATTERY'S INTERPRETATION IS THAT THE SCOPE OF WORK, WHICH IS PRIMARILY SYSTEMS UPGRADES IN NATURE, DOES NOT TRIGGER COMPONENTS OF THE 2024 IBC PER REQUIREMENTS FROM THE 2024 IEBC.

REFERENCES TO THE 2024 IBC WHICH EXCEED THE REQUIREMENTS OF THE 2024 IEBC ARE PER DIRECTION FROM THE AUTHORITY HAVING JURISDICTION IN 3/4/2025 EMAIL WHICH NOTED THAT ANY PART OF THE BUILDING WHERE OCCUPANTS SLEEP MUST BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM AND BE CLEARLY SEPARATED FROM OTHER AREAS OF THE BUILDING.

ALL "09-G100" AND "13-G100" SHEETS PROVIDED WITH THESE DOCUMENTS ARE SUPPLEMENTARY TO SUPPORT THE DIRECTION FROM THE AUTHORITY HAVING JURISDICTION AND THE ADDITIONAL REQUIREMENTS THE DIRECTIVES MAY HAVE.

CHAPTER 2 DEFINITIONS

SLEEPING UNIT: A SINGLE UNIT THAT PROVIDES ROOMS OR SPACES FOR ONE OR MORE PERSONS, INCLUDES PERMANENT PROVISIONS FOR SLEEPING AND CAN INCLUDE PROVISIONS FOR LIVING, EATING AND EITHER SANITATION OR KITCHEN FACILITIES BUT NOT BOTH. SUCH ROOMS AND SPACES THAT ARE ALSO PART OF A DWELLING UNIT ARE NOT SLEEPING UNITS.

CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE

310.1 RESIDENTIAL GROUP R: RESIDENTIAL GROUP R INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR SLEEPING PURPOSES WHEN NOT CLASSIFIED AS AN INSTITUTIONAL GROUP I OR WHEN NOT REGULATED BY THE INTERNATIONAL RESIDENTIAL CODE. GROUP R OCCUPANCIES NOT CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE AS PERMITTED BY SECTIONS 310.4.1 AND 310.4.2 SHALL COMPLY WITH SECTION 420.

310.3 RESIDENTIAL GROUP R-2: RESIDENTIAL GROUP R-2 OCCUPANCIES CONTAINING SLEEPING UNITS OR MORE THAN TWO DWELLING UNITS WHERE THE OCCUPANTS ARE PRIMARILY PERMANENT IN NATURE, INCLUDING:

- APARTMENT HOUSES
- CONGREGATE LIVING FACILITIES (NONTRANSIENT) WITH MORE THAN 16 OCCUPANTS
- BOARDING HOUSES (NONTRANSIENT)
- CONVENTS
- DORMITORIES
- EMERGENCY SERVICES LIVING QUARTERS
- FRATERNITIES AND SORORITIES
- MONASTERIES
- HOTELS (NONTRANSIENT) WITH MORE THAN FIVE GUEST ROOMS
- LIVE/WORK UNITS
- MOTELS (NONTRANSIENT) WITH MORE THAN FIVE GUEST ROOMS
- VACATION TIMESHARE PROPERTIES

CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

420.1 GENERAL: OCCUPANCIES IN GROUPS I-1, R-1, R-2, R-3 AND R-4 SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 420.1 THROUGH 420.11 AND OTHER APPLICABLE PROVISIONS OF THIS CODE.

420.2 SEPARATION WALLS: WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING, WALLS SEPARATING DWELLING UNITS FROM SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708.

420.3 HORIZONTAL SEPARATION: FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDINGS, FLOOR ASSEMBLIES SEPARATING SLEEPING UNITS IN THE SAME BUILDING, FLOOR ASSEMBLIES SEPARATING DWELLING UNITS FROM SLEEPING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711.

420.4 AUTOMATIC SPRINKLER SYSTEM: GROUP R OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.8. GROUP I-1 OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.6. QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 903.3.2.

420.5 FIRE ALARM SYSTEMS AND SMOKE ALARMS: FIRE ALARM SYSTEMS AND SMOKE ALARMS SHALL BE PROVIDED IN GROUP I-1, R-1 AND R-2 OCCUPANCIES IN ACCORDANCE WITH SECTIONS 907.2.6, 907.2.8 AND 907.2.9, RESPECTIVELY. SINGLE- OR MULTIPLE-STATION SMOKE ALARMS SHALL BE PROVIDED IN GROUPS I-1, R-2, R-3 AND R-4 IN ACCORDANCE WITH SECTION 907.2.11.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

508.1 GENERAL: EACH PORTION OF A BUILDING SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3, 508.4 OR 508.5, OR A COMBINATION OF THESE SECTIONS.
EXCEPTIONS:
1. OCCUPANCIES SEPARATED IN ACCORDANCE WITH SECTION 510.
2. WHERE REQUIRED BY TABLE 415.6.5, AREAS OF GROUP H-1, H-2 AND H-3 OCCUPANCIES SHALL BE LOCATED IN A DETACHED BUILDING OR STRUCTURE.

508.4 SEPARATED OCCUPANCIES: BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS SEPARATED OCCUPANCIES.
TABLE 508.4REQUIRED SEPARATION OF OCCUPANCIES (HOURS)
R TO B REQUIRES A 1 HOUR SEPARATION
R TO S-1 REQUIRES A 1 HOUR SEPARATION

508.4.1 OCCUPANCY CLASSIFICATION: SEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. EACH SEPARATED SPACE SHALL COMPLY WITH THIS CODE BASED ON THE OCCUPANCY CLASSIFICATION OF THAT PORTION OF THE BUILDING. THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE SEPARATE OCCUPANCIES SHALL APPLY TO THE TOTAL NONFIRE-BARRIER-SEPARATED OCCUPANCY AREAS. OCCUPANCY SEPARATIONS THAT SERVE TO DEFINE FIRE AREA LIMITS ESTABLISHED IN CHAPTER 9 FOR REQUIRING A FIRE PROTECTION SYSTEM SHALL ALSO COMPLY WITH SECTION 901.7.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

708.1 GENERAL: THE FOLLOWING WALL ASSEMBLIES SHALL COMPLY WITH THIS SECTION:
1. SEPARATION WALLS AS REQUIRED BY SECTION 420.2 FOR GROUP I-1 AND GROUP R OCCUPANCIES.
2. WALLS SEPARATING TENANT SPACES IN COVERED AND OPEN MALL BUILDINGS AS REQUIRED BY SECTION 402.4.2.1. *[N/A]*
3. CORRIDOR WALLS AS REQUIRED BY SECTION 1020.3.
4. ENCLOSED ELEVATOR LOBBY SEPARATION AS REQUIRED BY SECTION 3006.3. *[N/A]*
5. EGRESS BALCONIES AS REQUIRED BY SECTION 1021.2 *[N/A]*
6. WALLS SEPARATING AMBULATORY CARE FACILITIES FROM ADJACENT SPACES, CORRIDORS OR TENANTS AS REQUIRED BY SECTION 422.2. *[N/A]*
7. WALLS SEPARATING DWELLING AND SLEEPING UNITS IN GROUPS R-1 AND R-2 IN ACCORDANCE WITH SECTIONS 907.2.8.1 AND 907.2.9.1.
8. VESTIBULES IN ACCORDANCE WITH SECTION 1028.2. *[N/A]*

708.2 MATERIALS: THE WALLS SHALL BE OF MATERIALS PERMITTED BY THE BUILDING TYPE OF CONSTRUCTION.
708.3 FIRE-RESISTANCE RATING: FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.
EXCEPTIONS:
1. CORRIDOR WALLS PERMITTED TO HAVE A 1/2-HOUR FIRE-RESISTANCE RATING BY TABLE 1020.2.
2. DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPES IIB, IIIB AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANCE RATINGS OF NOT LESS THAN 1/2 HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.

708.7 PENETRATIONS: PENETRATIONS OF FIRE PARTITIONS SHALL COMPLY WITH SECTION 714.

708.9 DUCTS AND AIR TRANSFER OPENINGS: PENETRATIONS IN A FIRE PARTITION BY DUCTS AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717.

711.1 GENERAL: HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTION 711.2. NONFIRE-RESISTANCE-RATED FLOOR AND ROOF ASSEMBLIES SHALL COMPLY WITH SECTION 711.3.

714.1 SCOPE: THE PROVISIONS OF THIS SECTION SHALL GOVERN THE MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF HORIZONTAL ASSEMBLIES AND FIRE-RESISTANCE-RATED WALL ASSEMBLIES.

714.1.1 DUCTS AND AIR TRANSFER OPENINGS: PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS BY DUCTS THAT ARE NOT PROTECTED WITH DAMPERS SHALL COMPLY WITH SECTIONS 714.3 THROUGH 714.4.3. PENETRATIONS OF HORIZONTAL ASSEMBLIES NOT PROTECTED WITH A SHAFT AS PERMITTED BY SECTION 717.6, AND NOT REQUIRED TO BE PROTECTED WITH FIRE DAMPERS BY OTHER SECTIONS OF THIS CODE, SHALL COMPLY WITH SECTIONS 714.5 THROUGH 714.6.2. DUCTS AND AIR TRANSFER OPENINGS THAT ARE PROTECTED WITH DAMPERS SHALL COMPLY WITH SECTION 717.

CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS

901.1 SCOPE: THE PROVISIONS OF THIS CHAPTER SHALL SPECIFY WHERE FIRE PROTECTION AND LIFE SAFETY SYSTEMS ARE REQUIRED AND SHALL APPLY TO THE DESIGN, INSTALLATION AND OPERATION OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS.

901.2 FIRE PROTECTION SYSTEMS: FIRE PROTECTION AND LIFE SAFETY SYSTEMS SHALL BE INSTALLED, REPAIRED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE INTERNATIONAL FIRE CODE.
ANY FIRE PROTECTION OR LIFE SAFETY SYSTEM FOR WHICH AN EXCEPTION OR REDUCTION TO THE PROVISIONS OF THIS CODE HAS BEEN GRANTED SHALL BE CONSIDERED TO BE A REQUIRED SYSTEM.
EXCEPTION: ANY FIRE PROTECTION OR LIFE SAFETY SYSTEM OR PORTION THEREOF NOT REQUIRED BY THIS CODE SHALL BE PERMITTED TO BE INSTALLED FOR PARTIAL OR COMPLETE PROTECTION PROVIDED THAT SUCH SYSTEM MEETS THE REQUIREMENTS OF THIS CODE.

903.1 GENERAL: AUTOMATIC SPRINKLER SYSTEMS SHALL COMPLY WITH THIS SECTION.

903.2 WHERE REQUIRED: APPROVED AUTOMATIC SPRINKLER SYSTEMS IN **NEW** BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SECTIONS 903.2.1 THROUGH 903.2.12.
EXCEPTION: SPACES OR AREAS IN TELECOMMUNICATIONS BUILDINGS USED EXCLUSIVELY FOR TELECOMMUNICATIONS EQUIPMENT, ASSOCIATED ELECTRICAL POWER DISTRIBUTION EQUIPMENT, BATTERIES NOT REQUIRED TO HAVE AN AUTOMATIC SPRINKLER SYSTEM BY SECTION 1207 OF THE INTERNATIONAL FIRE CODE FOR ENERGY STORAGE SYSTEMS AND STANDBY ENGINES, PROVIDED THAT THOSE SPACES OR AREAS ARE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SMOKE DETECTION SYSTEM IN ACCORDANCE WITH SECTION 907.2 AND ARE SEPARATED FROM THE REMAINDER OF THE BUILDING BY NOT LESS THAN 1-HOUR FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR NOT LESS THAN 2-HOUR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

903.2.8 GROUP R: AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.

903.3.1 STANDARDS: AUTOMATIC SPRINKLER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 UNLESS OTHERWISE PERMITTED BY SECTIONS 903.3.1.2 AND 903.3.1.3 AND OTHER CHAPTERS OF THIS CODE, AS APPLICABLE.
903.3.1.1 NFPA 13 SPRINKLER SYSTEMS: WHERE THE PROVISIONS OF THIS CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH THIS SECTION, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 EXCEPT AS PROVIDED IN SECTIONS 903.3.1.1.1 THROUGH 903.3.1.1.3.

CHAPTER 10 MEANS OF EGRESS

1001.2 MINIMUM REQUIREMENTS: IT SHALL BE UNLAWFUL TO ALTER A BUILDING OR STRUCTURE IN A MANNER THAT WILL REDUCE THE NUMBER OF EXITS OR THE MINIMUM WIDTH OR REQUIRED CAPACITY OF THE MEANS OF EGRESS TO LESS THAN REQUIRED BY THIS CODE.

1003.1 APPLICABILITY: THE GENERAL REQUIREMENTS SPECIFIED IN SECTIONS 1003 THROUGH 1015 SHALL APPLY TO ALL THREE ELEMENTS OF THE MEANS OF EGRESS SYSTEM, IN ADDITION TO THOSE SPECIFIC REQUIREMENTS FOR THE EXIT ACCESS, THE EXIT AND THE EXIT DISCHARGE DETAILED ELSEWHERE IN THIS CHAPTER.

1004.1 DESIGN OCCUPANT LOAD: IN DETERMINING MEANS OF EGRESS REQUIREMENTS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES ARE PROVIDED SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.

1004.2.3 ADJACENT STORIES: OTHER THAN FOR THE EGRESS COMPONENTS DESIGNED FOR CONVERGENCE IN ACCORDANCE WITH SECTION 1005.6, THE OCCUPANT LOAD FROM SEPARATE STORIES SHALL NOT BE ADDED.

1004.4 MULTIPLE OCCUPANCIES: WHERE A BUILDING CONTAINS TWO OR MORE OCCUPANCIES, THE MEANS OF EGRESS REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY OF THAT SPACE. WHERE TWO OR MORE OCCUPANCIES UTILIZE PORTIONS OF THE SAME MEANS OF EGRESS SYSTEM, THOSE EGRESS COMPONENTS SHALL MEET THE MORE STRINGENT REQUIREMENTS OF ALL OCCUPANCIES THAT ARE SERVED.

TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

RESIDENTIAL AT 200 GROSS PER OCCUPANT
1716 SQFT PER SLEEPING UNIT PER FLOOR
1716 SQFT / 50 GROSS = 34.32 = 34 OCCUPANTS

POSTED OCCUPANCY WILL BE LIMITED TO 20 OCCUPANTS PER SLEEPING UNIT TO ALLOW A SINGLE EXIT

1006.1 GENERAL: THE NUMBER OF EXITS OR EXIT ACCESS DOORWAYS REQUIRED WITHIN THE MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE PROVISIONS OF SECTION 1006.2 FOR SPACES, INCLUDING MEZZANINES, AND SECTION 1006.3 FOR STORIES OR OCCUPIABLE ROOFS.

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE: TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1. THE CUMULATIVE OCCUPANT LOAD FROM ADJACENT ROOMS, AREAS OR SPACES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1004.2.
EXCEPTIONS:
1. THE NUMBER OF EXITS FROM FOYERS, LOBBIES, VESTIBULES OR SIMILAR SPACES NEED NOT BE BASED ON CUMULATIVE OCCUPANT LOADS FOR AREAS DISCHARGING THROUGH SUCH SPACES, BUT THE CAPACITY OF THE EXITS FROM SUCH SPACES SHALL BE BASED ON APPLICABLE CUMULATIVE OCCUPANT LOADS.
2. CARE SUITES IN GROUP I-2 OCCUPANCIES COMPLYING WITH SECTION 407.4.
3. UNOCCUPIED MECHANICAL ROOMS AND PENTHOUSES ARE NOT REQUIRED TO COMPLY WITH THE COMMON PATH OF EGRESS TRAVEL DISTANCE MEASUREMENT.

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY:
IT IS PERMISSIBLE TO HAVE ONE EXIT FOR OCCUPANCY R-2 WHERE THERE ARE EQUAL TO OR LESS THAN 20 OCCUPANTS AND THE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE DOES NOT EXCEED 125'

1022.1 GENERAL: EXITS SHALL COMPLY WITH SECTIONS 1022 THROUGH 1027 AND THE APPLICABLE REQUIREMENTS OF SECTIONS 1003 THROUGH 1015. AN EXIT SHALL NOT BE USED FOR ANY PURPOSE THAT INTERFERES WITH ITS FUNCTION AS A MEANS OF EGRESS. ONCE A GIVEN LEVEL OF EXIT PROTECTION IS ACHIEVED, SUCH LEVEL OF PROTECTION SHALL NOT BE REDUCED UNTIL ARRIVAL AT THE EXIT DISCHARGE. EXITS SHALL BE CONTINUOUS FROM THE POINT OF ENTRY INTO THE EXIT TO THE EXIT DISCHARGE.

WALL RATING INDICATORS AND CODES

PLAN INDICATOR LINE STYLE	SEPARATION DESIGNATION	RATING	DESCRIPTION	USE	DOORS	HVAC
(red line)	FB-1-EE	1 HR	FIRE BARRIER	EXIT ENCLOSURES	60 MIN	NOT ALLOWED
(blue line)	FB-1-MO	1 HR	FIRE BARRIER	OCCUPANCY SEPARATION	45 MIN	ALLOWED W/ FIRE/SMOKE DAMPERS

CODE PLAN GENERAL NOTES

1. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15' OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30' MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION AND INCLUDE LETTERING NOT LESS THAN 3" TALL AND A MINIMUM 3/8-INCH STROKE IN A CONTRASTING COLOR STATING: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS".
2. **LIFE SAFETY PLAN SHEET SHALL BE PRINTED IN COLOR.**

LIFE SAFETY PLAN SYMBOLS LEGEND

TRAVEL DISTANCE 20'-0" — EXIT PATH AND ASSOCIATED TRAVEL DISTANCE

ROOM NAME / 101 / 150 SF — ROOM NUMBER / ROOM AREA

EXIT SIGN — ILLUMINATED SURFACE (BLACK QUARTERS) — DIRECTIONAL ARROWS

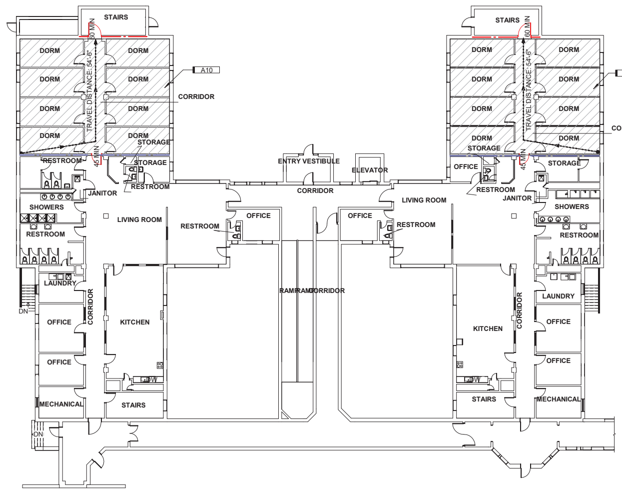
180 MIN — DOOR FIRE RATING

SLEEPING UNIT, REQUIRING 1 HOUR OCCUPANCY SEPARATION OF FLOOR/CEILING ASSEMBLY ABOVE AND BELOW

ALL PENETRATIONS IN CEILING ABOVE TO BE RATED TO MAINTAIN R-2 OCCUPANCY SEPARATION.

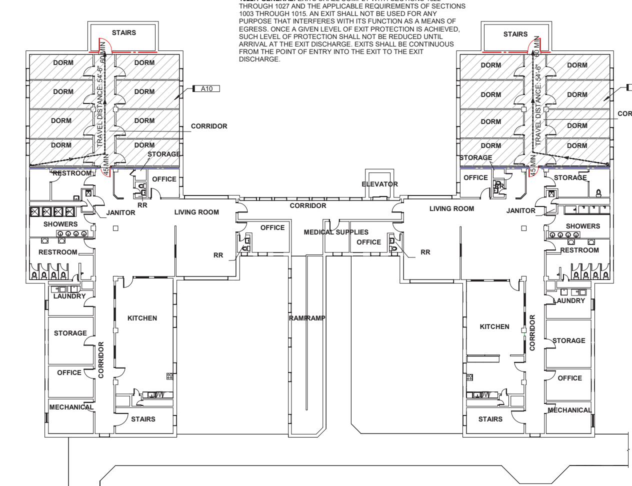
KEYNOTES

KEY	NOTE
A01	ALIGN NEW WALL WITH EXISTING WINDOW OPENING
A02	INFILL OPENING (1'-4"H X 3'-0"W - FIELD VERIFY) WITH NEW FACE BRICK (OWNER-PROVIDED, CONTRACTOR-INSTALLED) AND CMU BACKUP PER DETAIL A4/A100. NEW MECHANICAL PENETRATIONS TO BE CORE DRILLED THROUGH NEW MASONRY AND SEALED. SEE MECHANICAL FOR PENETRATION LOCATIONS.
A10	SINGLE SLEEPING UNIT AS DESIGNATED WITH HATCH REGION
A14	MAINTAIN 1 HR FIRE RATING OF FLOOR/CEILING ASSEMBLY ABOVE



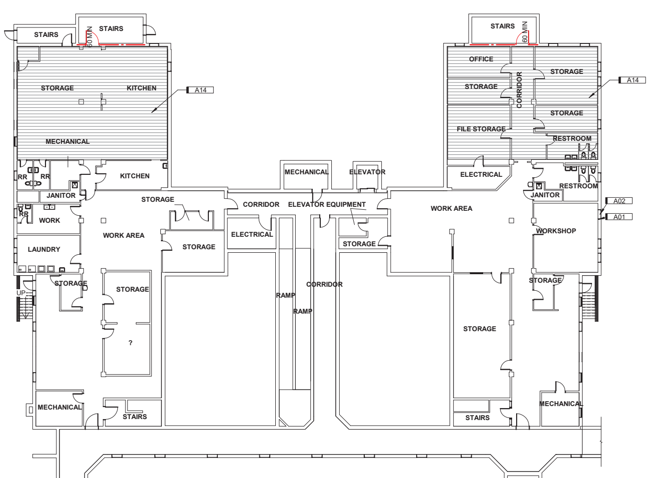
NORTH

D4 FIRST FLOOR LIFE SAFETY PLAN - BUILDING A & B
1/16" = 1'-0"



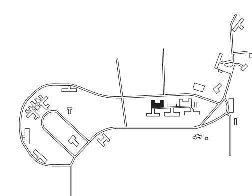
NORTH

B6 SECOND FLOOR LIFE SAFETY PLAN - BUILDING A & B
1/16" = 1'-0"



NORTH

D6 BASEMENT LIFE SAFETY PLAN - BUILDING A & B
1/16" = 1'-0"



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9-LINDEN A/B

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Woodward, IA 50276

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LIFE SAFETY PLANS - LINDEN COURT A/B

09-G100

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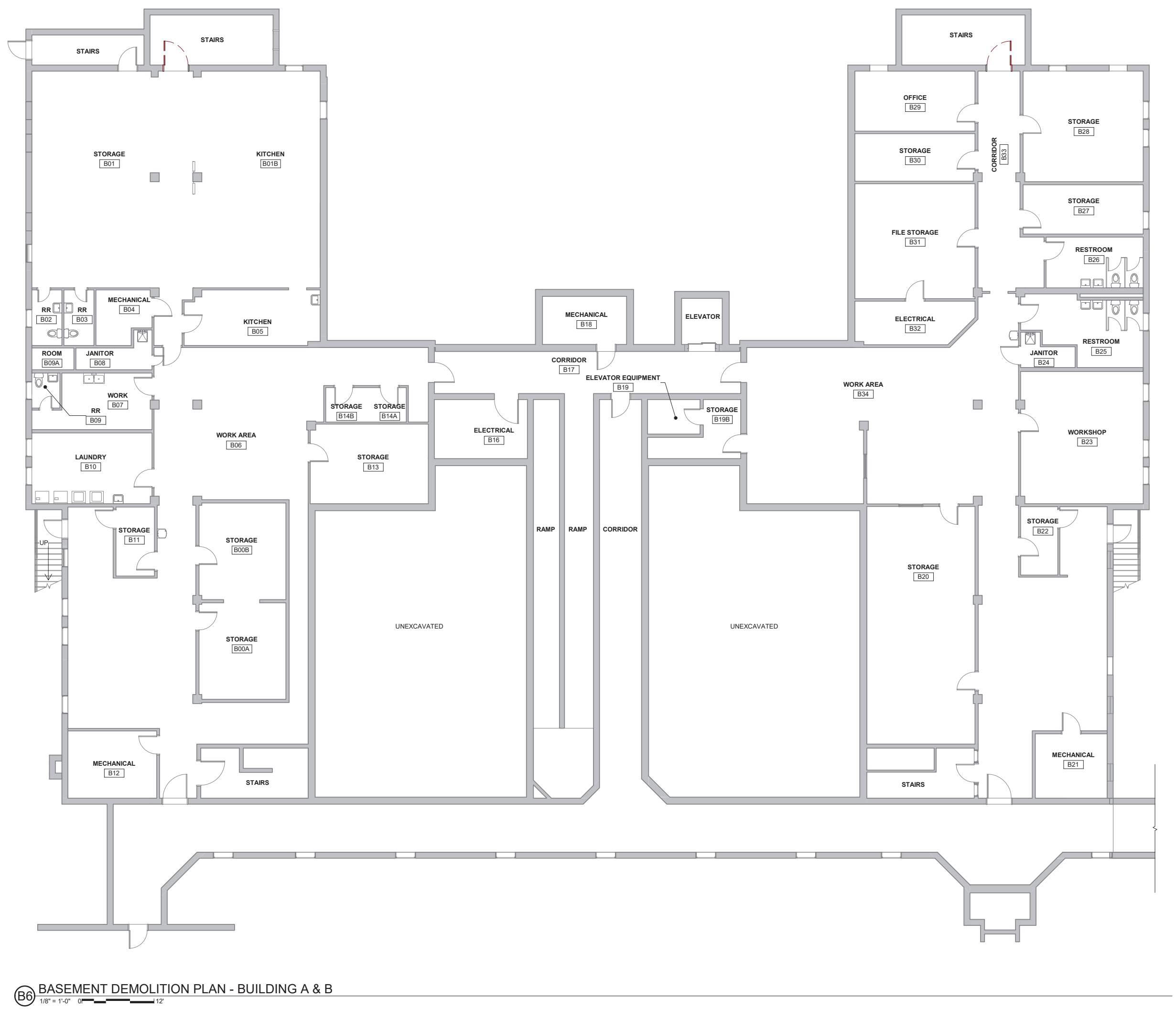

B6 BASEMENT DEMOLITION PLAN - BUILDING A & B

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

ARCHITECTURAL DEMOLITION NOTES

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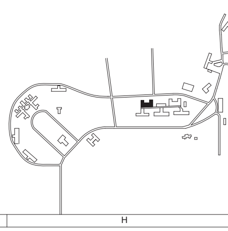

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9-LINDEN A/B

IA DAS
Woodward, IA 50276

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BASEMENT DEMOLITION PLAN - BUILDING A & B

09-AD00

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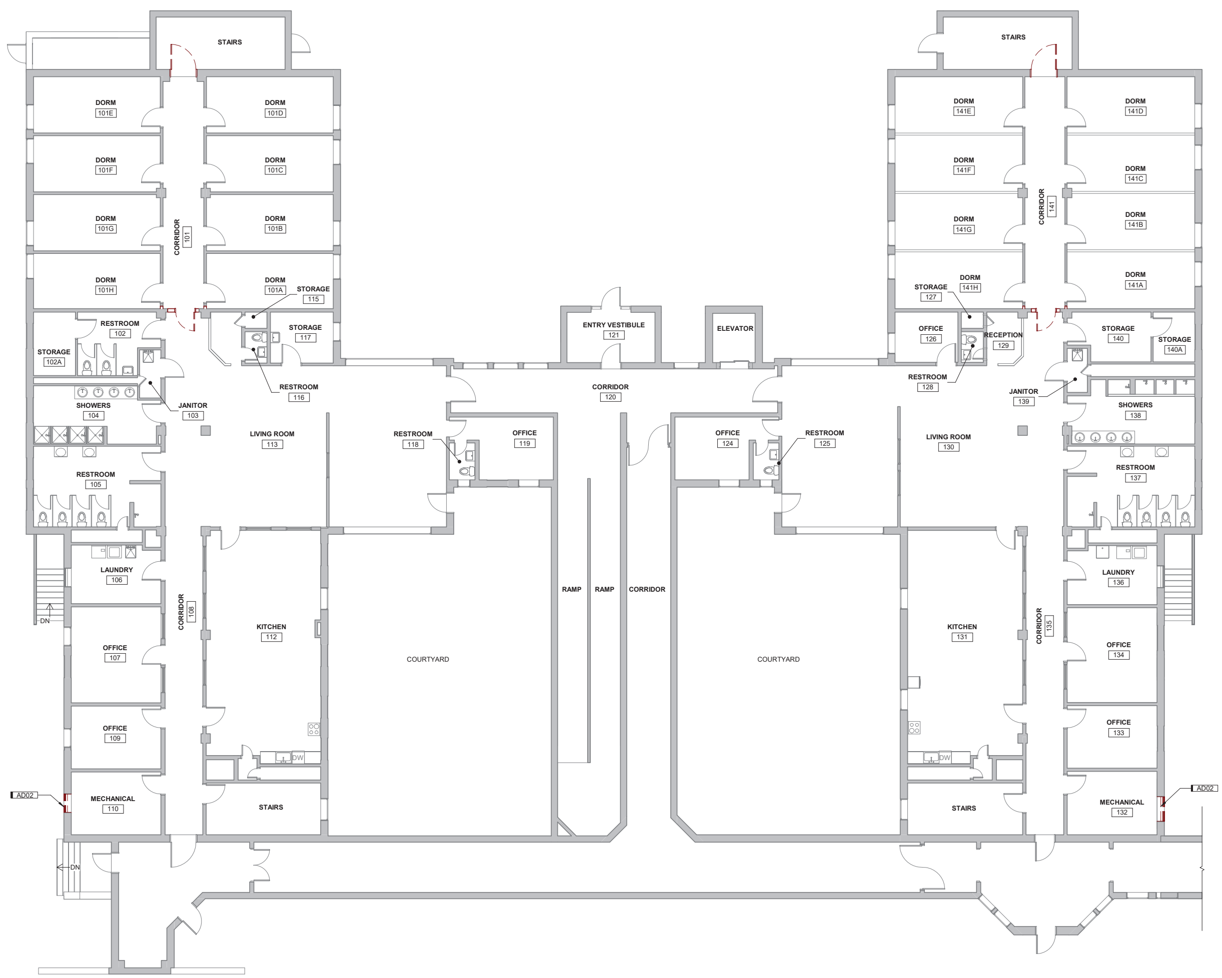
KEYNOTES

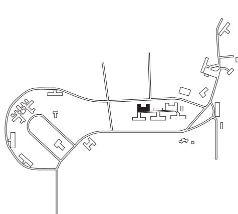
KEY	NOTE
AD02	REMOVE EXISTING LOUVER AND PREP OPENING FOR NEW LOUVER



NORTH

B6 FIRST FLOOR DEMOLITION PLAN - BUILDING A & B

1/8" = 1'-0"



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FIRST FLOOR DEMOLITION PLAN - BUILDING A & B

09-AD01

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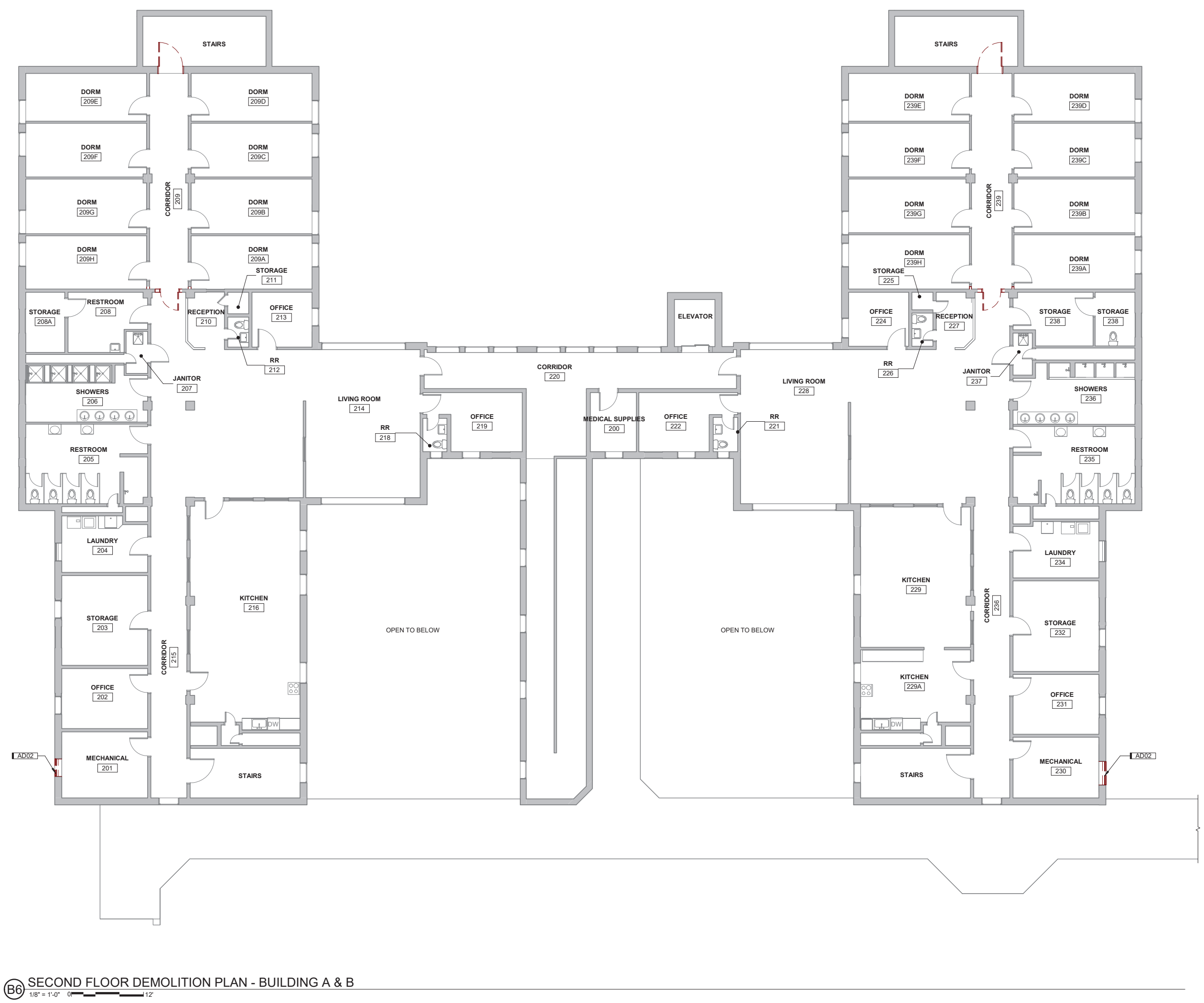

B6 SECOND FLOOR DEMOLITION PLAN - BUILDING A & B

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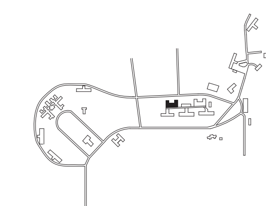

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SECOND FLOOR DEMOLITION PLAN - BUILDING A & B

09-AD02

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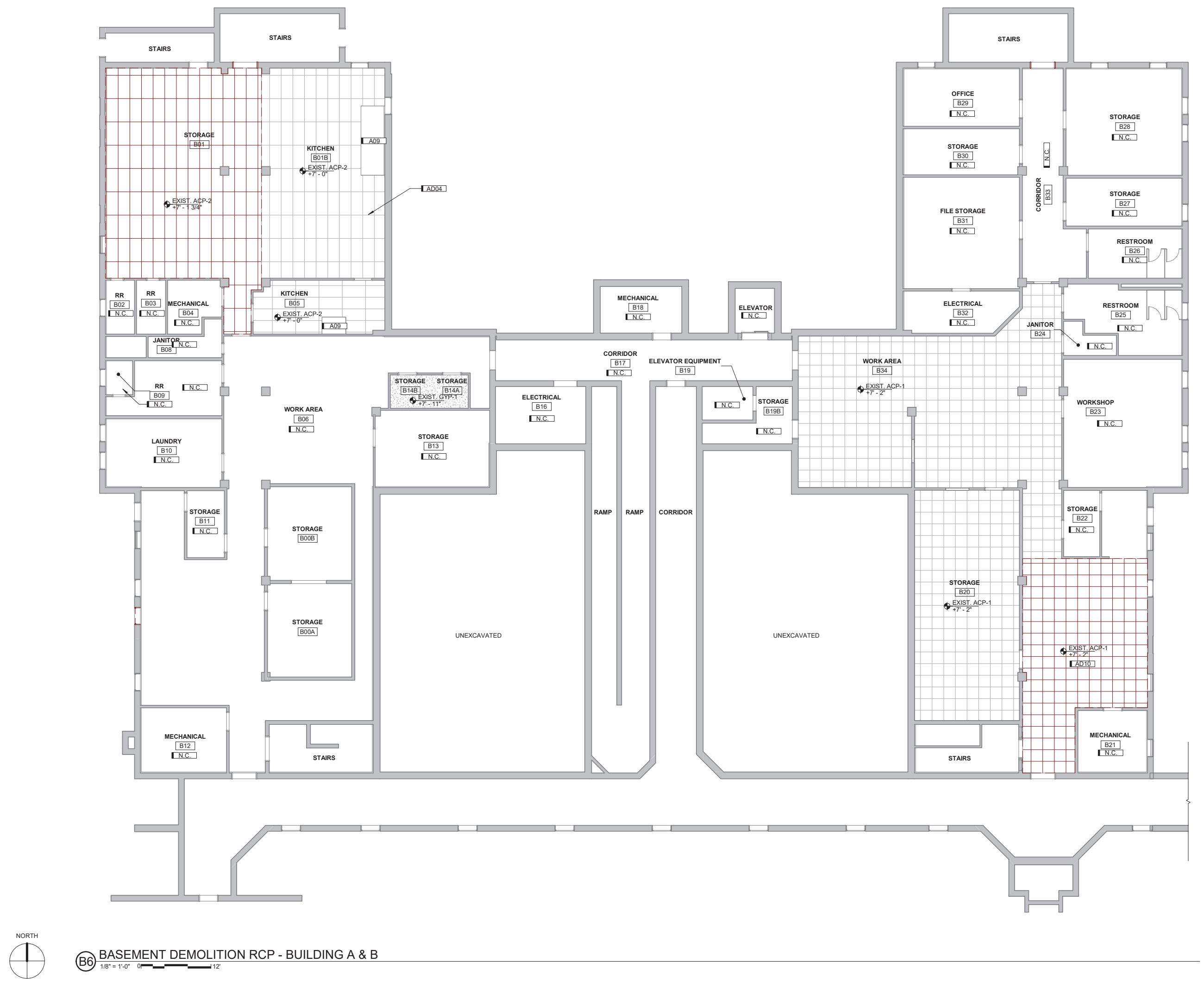

B6 BASEMENT DEMOLITION RCP - BUILDING A & B

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

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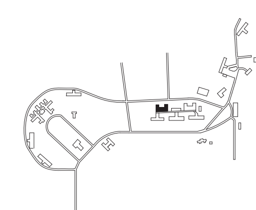
12. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN IN GENERAL TO PROVIDE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR IN FIELD VERIFICATION AND COORDINATION WITH THE ARCHITECT PRIOR TO COMMENCING WITH STATED WORK.
13. ALL CONSTRUCTION TO REMAIN WHICH IS AFFECTED BY DEMOLITION SHALL BE PATCHED, BE PROPERLY ALIGNED AND FINISHED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. REPAIR OR REPLACE ANY EXISTING CONSTRUCTION, MATERIALS, OR EQUIPMENT DAMAGED DURING DEMOLITION TO LIKE NEW CONDITION.
14. THE CONTRACTOR IS TO RETURN SALVAGEABLE MATERIALS, INCLUDING BUT NOT LIMITED TO DOORS, FRAMES, HARDWARE, MARBLE, EQUIPMENT, AND LIGHTING FIXTURES TO THE OWNER AND STOCKPILE THEM IN AN APPROVED CONSTRUCTION AREA. DISPOSE OF THESE MATERIALS AFTER OWNER'S REVIEW AND APPROVAL.
15. BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.
16. TEMPORARILY REMOVE OR SUPPORT ELECTRICAL FIXTURES AND OTHER DEVICES AS NEEDED TO COMPLETE NEW WORK. REINSTALL ONCE MECHANICAL/ELECTRICAL WORK IS COMPLETE.

DEMOLITION RCP SYMBOLS LEGEND

- EXISTING WALL PARTITIONS
- TEMPORARY WALL PARTITIONS
- DEMOLISHED WALL PARTITIONS
- EXISTING DOOR
- DEMOLISHED DOOR
- DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.
- DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.
- DEMOLITION OF PLASTER CEILING ABOVE EXISTING CEILING BY ABATEMENT CONTRACTOR.
- N.C. NO CEILING IN SPACE

KEYNOTES

KEY	NOTE
A09	NO CEILING AT FOOD SERVICE EQUIPMENT HOOD
AD04	REMOVE EXISTING CEILING PANELS AS REQUIRED TO FIRESTOP PENETRATIONS IN CONCRETE FLOOR/CEILING; REINSTALL CEILING PANELS.
AD10	DEMOLISH ACP CEILING BACK TO A MAIN TEE TO ALLOW FOR NEW MECHANICAL INSTALLATION. SEE MECHANICAL DRAWINGS



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

IA DAS
Woodward, IA 50276

DRAWN BY	CRK
APPROVED BY	CLM
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

BASEMENT DEMOLITION RCP - BUILDING A & B

09-AD10

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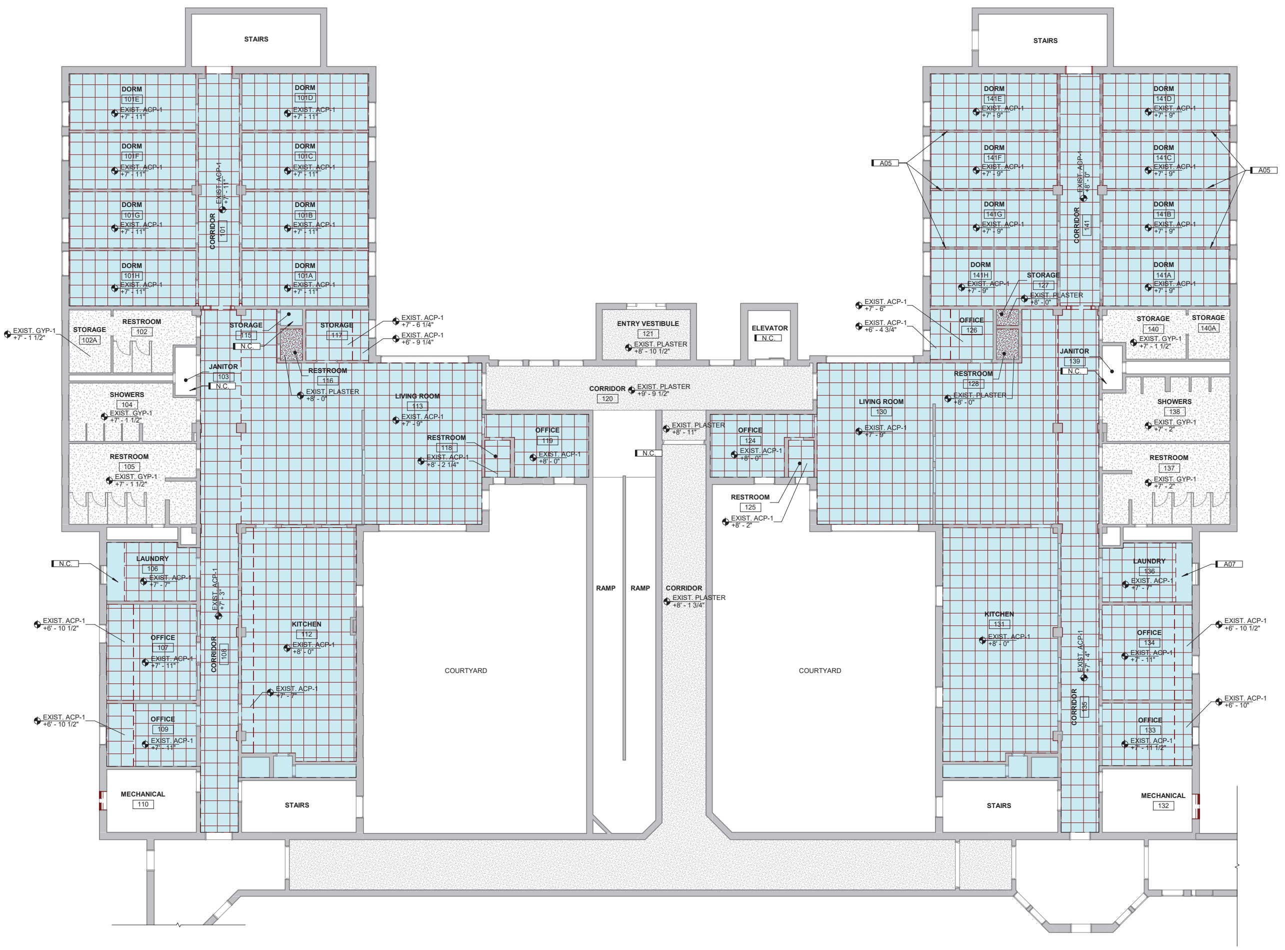

NORTH

B6 FIRST FLOOR DEMOLITION RCP - BUILDING A & B

1/8" = 1'-0"

ARCHITECTURAL DEMOLITION NOTES

1. ARCHITECTURAL DEMOLITION RCP PLANS SHALL BE PRINTED IN COLOR.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION WORK. NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN WORK SHOWN IN THE DRAWINGS AND FIELD CONDITIONS ENCOUNTERED.
3. TO PROTECT OWNER AND CONTRACTOR, PHOTOGRAPHICALLY DOCUMENT EXISTING CONDITIONS TO REMAIN, PRIOR TO START OF DEMOLITION AND CONSTRUCTION ACTIVITIES. COPY ARCHITECT AND OWNER ON PHOTOGRAPHIC DOCUMENTATION.
4. OPEN FLAME EQUIPMENT IS NOT PERMITTED FOR REMOVAL OF EXISTING WORK WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER.
5. COORDINATE WITH OWNER ANY ITEMS TO BE SALVAGED.
6. PROTECT ANY REMAINING NON-FIXED FURNISHINGS AND EQUIPMENT DURING CONSTRUCTION.
7. MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION. DO NOT PERFORM WORK ON EXTERIOR OPENINGS THAT CANNOT BE COMPLETED OR MADE WEATHER-TIGHT WHEN INCLEMENT WEATHER IS POSSIBLE.
8. PROTECT ALL FINISHES (TO REMAIN) IN THE PROJECT AREA. COORDINATE WITH ARCHITECT AND OWNER PRIOR TO DEMOLITION.
9. ENSURE THAT DUST AND DEBRIS ARE PREVENTED FROM ENTERING THE EXISTING HVAC SYSTEM AND ADJOINING SPACES WITH TEMPORARY BARRIERS AS REQUIRED PER THE BUILDING.
10. ALL NEW AND EXISTING PENETRATIONS IN EXISTING INTERIOR AND EXTERIOR WALLS, FLOORS AND CEILING DECKS SHALL RECEIVE UL AND FACILITY APPROVED FIRE SEALANT MATERIALS TO MATCH RATING REQUIREMENT OF AREA BEING PENETRATED. FOR LOCATIONS AND EXTENTS OF NEW PENETRATIONS SEE MECHANICAL AND ELECTRICAL DRAWINGS.
11. COORDINATE WITH OTHER TRADES CUTTING AND PATCHING REQUIRED FOR DEMOLITION OR NEW CONSTRUCTION.
12. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN IN GENERAL TO PROVIDE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED AS A RECORD DRAWING OF EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR IN FIELD VERIFICATION AND COORDINATION WITH THE ARCHITECT PRIOR TO COMMENCING WITH STATED WORK.
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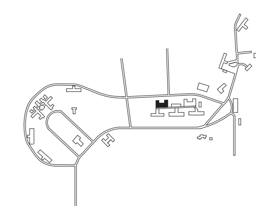
15. BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.
16. TEMPORARILY REMOVE OR SUPPORT ELECTRICAL FIXTURES AND OTHER DEVICES AS NEEDED TO COMPLETE NEW WORK. REINSTALL ONCE MECHANICAL/ELECTRICAL WORK IS COMPLETE.

DEMOLITION RCP SYMBOLS LEGEND

- EXISTING WALL PARTITIONS
- TEMPORARY WALL PARTITIONS
- DEMOLISHED WALL PARTITIONS
- EXISTING DOOR
- DEMOLISHED DOOR
- DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.
- DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.
- DEMOLITION OF PLASTER CEILING ABOVE EXISTING CEILING BY ABATEMENT CONTRACTOR.
- N.C. — NO CEILING IN SPACE

KEYNOTES

KEY	NOTE
A05	WALL STOPS AT 6' 8" AFF, EXISTING CEILING IS CONTINUOUS EXCEPT AT POSTS
A07	EXISTING DUCTWORK EXPOSED - NO ACOUSTICAL CEILING



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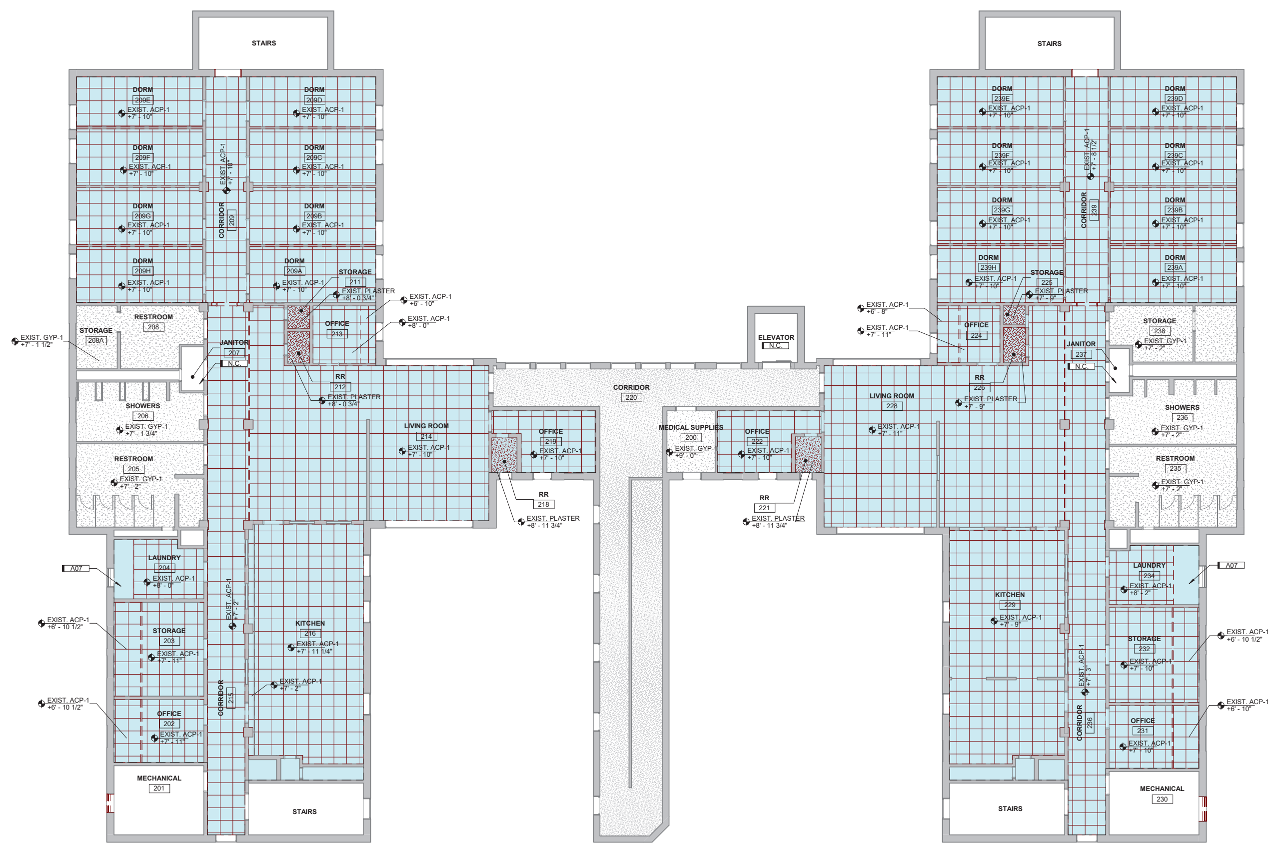
FIRST FLOOR DEMOLITION RCP - BUILDING A & B

09-AD11



NORTH

B6 SECOND FLOOR DEMOLITION RCP - BUILDING A & B

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

ARCHITECTURAL DEMOLITION NOTES

1. ARCHITECTURAL DEMOLITION RCP PLANS SHALL BE PRINTED IN COLOR.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION WORK. NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN WORK SHOWN IN THE DRAWINGS AND FIELD CONDITIONS ENCOUNTERED.
3. TO PROTECT OWNER AND CONTRACTOR, PHOTOGRAPHICALLY DOCUMENT EXISTING CONDITIONS TO REMAIN, PRIOR TO START OF DEMOLITION AND CONSTRUCTION ACTIVITIES. COPY ARCHITECT AND OWNER ON PHOTOGRAPHIC DOCUMENTATION.
4. OPEN FLAME EQUIPMENT IS NOT PERMITTED FOR REMOVAL OF EXISTING WORK WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER.
5. COORDINATE WITH OWNER ANY ITEMS TO BE SALVAGED.
6. PROTECT ANY REMAINING NON-FIXED FURNISHINGS AND EQUIPMENT DURING CONSTRUCTION.
7. MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION. DO NOT PERFORM WORK ON EXTERIOR OPENINGS THAT CANNOT BE COMPLETED OR MADE WEATHER-TIGHT WHEN INCLEMENT WEATHER IS POSSIBLE.
8. PROTECT ALL FINISHES (TO REMAIN) IN THE PROJECT AREA. COORDINATE WITH ARCHITECT AND OWNER PRIOR TO DEMOLITION.
9. ENSURE THAT DUST AND DEBRIS ARE PREVENTED FROM ENTERING THE EXISTING HVAC SYSTEM AND ADJOINING SPACES WITH TEMPORARY BARRIERS AS REQUIRED PER THE BUILDING.
10. ALL NEW AND EXISTING PENETRATIONS IN EXISTING INTERIOR AND EXTERIOR WALLS, FLOORS AND CEILING DECKS SHALL RECEIVE UL AND FACILITY APPROVED FIRE SEALANT MATERIALS TO MATCH RATING REQUIREMENT OF AREA BEING PENETRATED. FOR LOCATIONS AND EXTENTS OF NEW PENETRATIONS SEE MECHANICAL AND ELECTRICAL DRAWINGS.
11. COORDINATE WITH OTHER TRADES CUTTING AND PATCHING REQUIRED FOR DEMOLITION OR NEW CONSTRUCTION.
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16. TEMPORARILY REMOVE OR SUPPORT ELECTRICAL FIXTURES AND OTHER DEVICES AS NEEDED TO COMPLETE NEW WORK. REINSTALL ONCE MECHANICAL/ELECTRICAL WORK IS COMPLETE.

DEMOLITION RCP SYMBOLS LEGEND

EXISTING WALL PARTITIONS

TEMPORARY WALL PARTITIONS

DEMOLISHED WALL PARTITIONS

EXISTING DOOR

DEMOLISHED DOOR

DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.

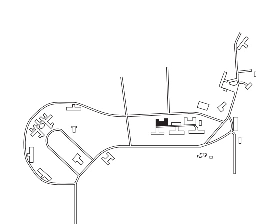
DEMOLITION OF ALL FIRST AND SECOND FLOOR CEILINGS TO BE DONE BY ABATEMENT CONTRACTOR AND PREPARE FOR NEW CEILINGS. ALL BASEMENT CEILINGS TO BE DONE BY CONTRACTOR.

DEMOLITION OF PLASTER CEILING ABOVE EXISTING CEILING BY ABATEMENT CONTRACTOR.

N.C. NO CEILING IN SPACE

KEYNOTES

KEY	NOTE
A07	EXISTING DUCTWORK EXPOSED - NO ACOUSTICAL CEILING



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

IA DAS
Woodward, IA 50276

DRAWN BY	CRK
APPROVED BY	CLM
ISSUED FOR	CONSTRUCTION DOCUMENTS
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PROJECT NUMBER	224007040
FIELD BOOK	

SECOND FLOOR DEMOLITION RCP - BUILDING A & B

09-AD12

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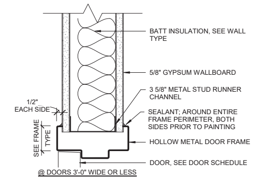
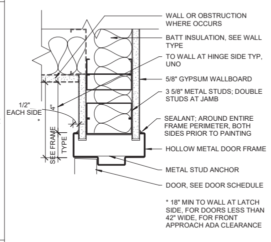
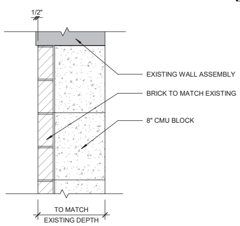


A1 HEAD - HM - METAL STUD
3" = 1'-0"

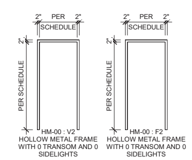


A3 JAMB - HM - METAL STUD
3" = 1'-0"

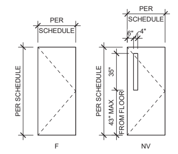


A4 EXISTING WINDOW INFILL
1" = 1'-0"

DOOR AND FRAME SCHEDULE - BUILDING A & B													
		FINISHED OPENING SIZE		LEAF				FRAME	DETAILS				
MARK	ROOM NAME	WIDTH	HEIGHT	THICK	TYPE	MTRL	GLAZ	MTRL-TYPE	HEAD	JAMB	HDWR	RATING	REMARKS
09-101	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-141	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-142	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-143	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-209	LIVING ROOM	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-239	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : V2	-	-	02	45 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-242	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-243	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-B01	STORAGE	3' - 0"	6' - 8"	1 3/4"	F	HM	-	HM-00 : V2	A1/A100	A3/A100	01	-	9279.40
09-B42	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH
09-B43	STAIRS	4' - 0"	7' - 0"	1 3/4"	NV	HM	FIRE-RATED	HM-00 : F2	-	-	03	60 MIN	9279.41. REINSTALL EXISTING POSITION SWITCH



C2 DOOR FRAME ELEVATIONS
1/4" = 1'-0"



D2 DOOR PANEL ELEVATIONS
1/4" = 1'-0"

DOOR HARDWARE GROUPS

GROUP 01

SINGLE MECHANICAL LOUVER DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	STOREROOM LOCKSET	PROVIDED BY OWNER	-	-

GROUP 02

SINGLE, 45 MIN. FIRE RATED DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	ELEC. MORTISE LOCKSET	PROVIDED BY OWNER	-	-
1 EA.	CLOSER	4040XP DEL EDA	AL	LCN
1 EA.	OVERHEAD STOP	599S	US26D	RO
1 EA.	KICKPLATE	8400 8" X 34"	US32D	IV
1 SET	SMOKE GASKET	PK52BL	BL	PE

GROUP 03

SINGLE, 60 MIN. FIRE RATED DOOR.

3 EA.	HEAVY DUTY HINGES	TA795, 4-1/2"	US26D	MCK
1 EA.	ELEC. MORTISE LOCKSET	PROVIDED BY OWNER	-	-
1 EA.	RIM EXIT DEVICE	8888-F	US32D	SA
1 EA.	CLOSER	4040XP DEL EDA	AL	LCN
1 EA.	OVERHEAD STOP	599S	US26D	RO
1 EA.	KICKPLATE	8400 8" X 34"	US32D	IV
1 SET	SMOKE GASKET	PK52BL	BL	PE

MANUFACTURER ABBREVIATIONS

IV - IVES
LCN - LCN CLOSERS
MCK - MCKINNEY
PE - PEMKO
RO - ROCKWOOD
SA - SARGENT

FLOOR PLAN NOTES

1. WATER-RESISTANT GYPSUM BOARD SHALL BE USED FOR STUD PARTITIONS IN TOILET ROOMS, JANITOR'S CLOSETS, FIRE SERVICE ROOMS, MECHANICAL ROOMS, AND ANY ADDITIONAL LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS.
2. WHERE STRUCTURAL ELEMENTS INTERFERE WITH FIRE-RATED PARTITIONS, FRAME TOP OF WALL AROUND STRUCTURAL ELEMENT.
3. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL INFORMATION REGARDING ITEMS PENETRATING FLOORS, WALLS, AND CEILINGS.
4. ALL NEW PARTITIONS ARE DIMENSIONED TO FACE OF STUD, MASONRY, OR CONCRETE COMPONENT UNLESS NOTED OTHERWISE. DIMENSIONS TO EXISTING ELEMENTS ARE TO EXPOSED FACE.
5. ALL DOORS IN STUD WALL CONSTRUCTION ARE TO BE LOCATED WITH EDGE OF FRAME 4" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE. DIMENSIONS LOCATING DOORS NOT DIRECTLY ADJACENT TO WALLS ARE GIVEN TO OUTSIDE EDGE OF FRAME.
6. ALL NEW WALLS AND HM DOORS & FRAMES TO BE PAINTED AS SPECIFIED

FLOOR PLAN SYMBOLS LEGEND

101 — DOOR MARK

M12A / S 44 — WALL CORE MATERIAL; WALL CORE WIDTH; WALL HEIGHT CODE; WALL GYP LAYERS; WALL MODIFIER CODE

Room name / 101 / W WLF1 / B BF1 / F FLR1 — ROOM NUMBER; WALL FINISH DESIGNATION; WALL BASE DESIGNATION; FLOOR FINISH DESIGNATION

FRAME NAMING CONVENTION

HM-12:V2

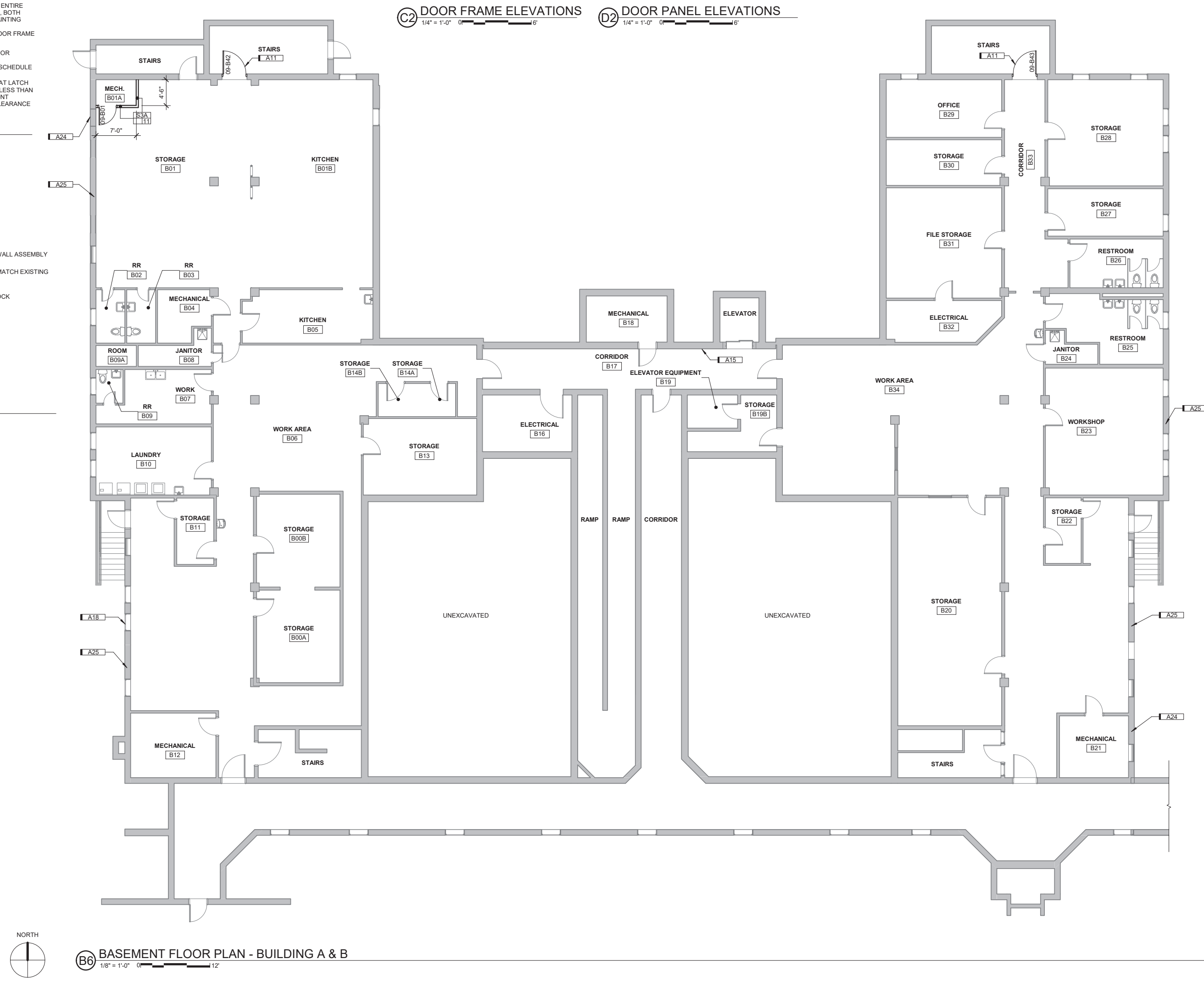
FRAME MATERIAL
AL ALUMINUM
HM HOLLOW METAL
WD WOOD

FRAME CONFIGURATION
1ST DIGIT TRANSOM (0=NO, 1=YES)
2ND DIGIT NUMBER OF SIDELIGHTS
DE DOUBLE EGRESS
NS NO STOP
F FULL FRAME

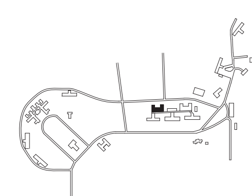
FRAME HEAD HEIGHT
2 2" HIGH
4 4" HIGH

FRAME DEPTH
V MATCH WALL WIDTH
F FIXED/ SPECIFIED

KEYNOTES	
KEY	NOTE
A11	REPLACE EXISTING DOOR WITH NEW FIRE RATED DOOR, AS PART OF 9279.41
A15	INSTALL FIRE SIGNAGE OUTSIDE ELEVATOR DOORS, SEE SPEC
A18	NEW MECHANICAL DUCTWORK OR LOUVER IN OPENING - SEE MECHANICAL DRAWINGS
A24	CORE DRILL THROUGH EXISTING WALL ASSEMBLY FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
A25	NEW PIPE PENETRATIONS FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION



B6 BASEMENT FLOOR PLAN - BUILDING A & B
1/8" = 1'-0"



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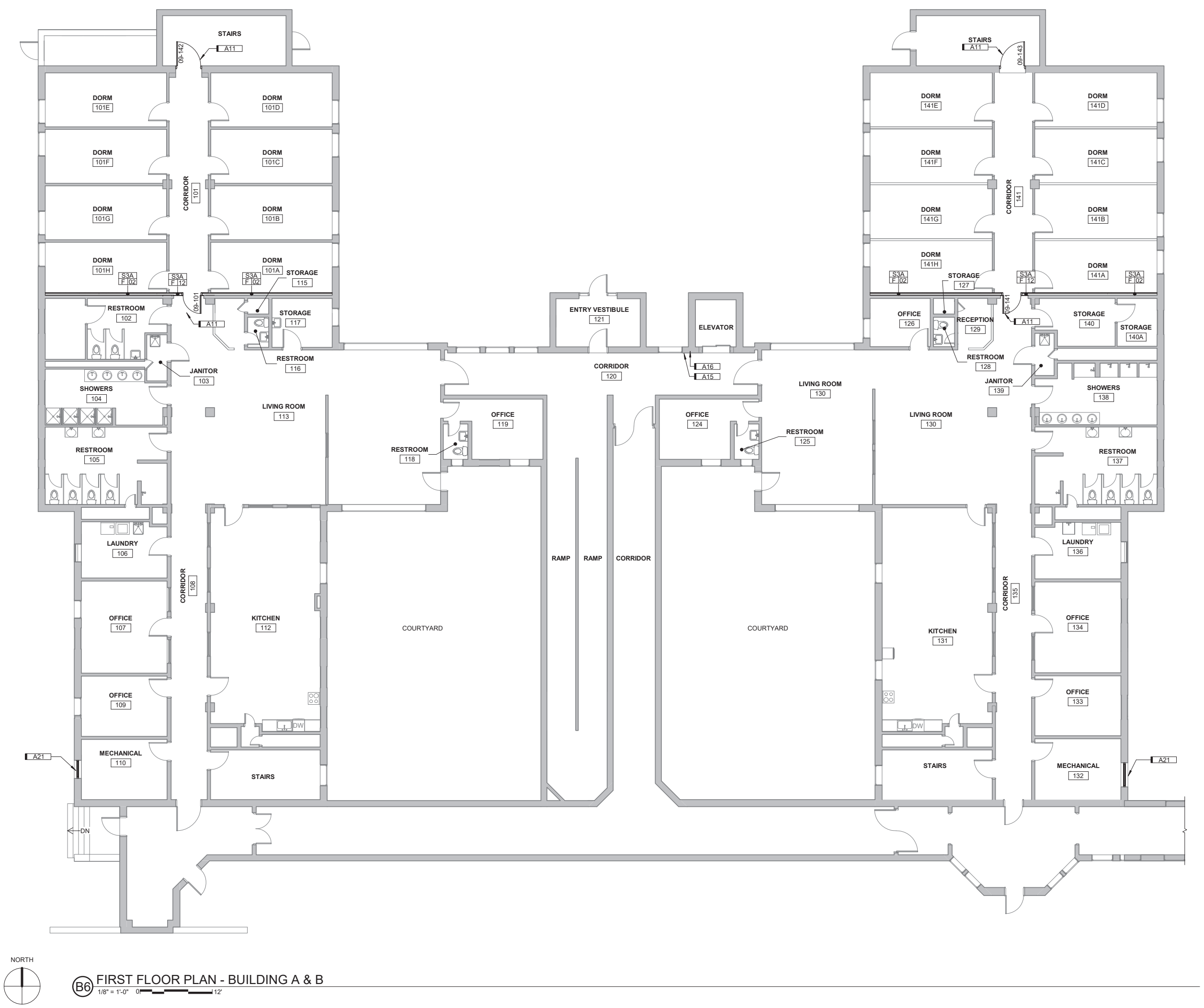
BASEMENT FLOOR PLAN - BUILDING A & B

09-A100

Autodesk Revit 2022

KEYNOTES

KEY	NOTE
A11	REPLACE EXISTING DOOR WITH NEW FIRE RATED DOOR, AS PART OF 9279.41
A15	INSTALL FIRE SIGNAGE OUTSIDE ELEVATOR DOORS, SEE SPEC
A16	INSTALL NEW FEO-K1 FIRE RECALL SWITCH AND BEZEL IN HALL STATION
A21	INFILL OPENING (6'-0"H X 3'-4"W - FIELD VERIFY) WITH MECHANICAL LOUVER - SEE MECHANICAL DRAWINGS



B6 FIRST FLOOR PLAN - BUILDING A & B

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

PROJECT GENERAL INFORMATION

1. COLOR HAS BEEN USED ON THESE DRAWINGS TO ENHANCE UNDERSTANDING. PRINTING IN COLOR IS RECOMMENDED TO ENSURE CLARITY.
2. ANY DAMAGE TO AREAS INSIDE OR OUTSIDE OF THE PROJECT AREA SHALL BE REPAIRED TO THE STATUS PRIOR TO CONSTRUCTION AT NO COST TO OWNER.
3. CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ALL CUTTING, SUPPORTING, AND PATCHING IF NOT COVERED BY A SPECIFIC TRADE.
4. EACH TRADE SHALL PROVIDE TESTED FIRESTOPPING ASSEMBLIES FOR PENETRATIONS OF THEIR WORK THROUGH FIRE-RATED WALLS AND FLOOR/CEILING ASSEMBLIES. FIRESTOPPING ASSEMBLIES ARE TO BE OF DESIGNS THAT PROVIDE THE SCHEDULED FIRE RATINGS WHEN TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, OR UL 1479, AND ARE TO BE INSTALLED BY INDIVIDUALS TRAINED AND EXPERIENCED WITH INSTALLATION OF SUCH ASSEMBLIES. PROVIDE SUBMITTALS TO LOCAL AUTHORITIES AS REQUESTED.
5. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
6. ABATEMENT WORK WILL BE UNDER SEPARATE CONTRACT. OBTAIN AND MAINTAIN ON SITE A COMPLETE SET OF ABATEMENT DOCUMENTS, INCLUDING ADDENDA AND CHANGES AFTER START OF CONSTRUCTION, FOR REFERENCE AND COORDINATION BY ALL TRADES. COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH THE ABATEMENT CONTRACTOR.
7. THE INDICATION OF TYPE AND LOCATION OF EXISTING CONDITIONS AND MATERIALS IN THE DRAWINGS IS NOT INTENDED AS EXACT DOCUMENTATION OF IN-PLACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS BEFORE SUBMISSION OF BIDS. EXISTING CONDITIONS VARYING FROM THOSE SHOWN IN THE DRAWINGS WILL NOT BE JUSTIFICATION FOR ADDITIONAL ALLOWANCE TO THE CONTRACTOR. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS CONFLICT WITH THE DRAWINGS.
8. PROTECT ALL BUILDING SYSTEMS, NEW AND EXISTING. COVER SUPPLY, RETURN, AND EXHAUST AIR GRILLES, AND PROTECT OTHER SENSITIVE EQUIPMENT FROM ALL ACTIVITIES RELATED TO THIS CONTRACT. REMOVE PROTECTION AT END OF CONSTRUCTION.
9. ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
10. ALL CODE-REQUIRED LABELS SUCH AS "UL", "FACTORY MUTUAL", OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME, OR NOMENCLATURE PLATES SHALL REMAIN READABLE AND NOT PAINTED OR COVERED BY OTHER CONSTRUCTION.
11. STRUCTURAL INFORMATION ON ARCHITECTURAL DRAWINGS IS FOR REFERENCE ONLY.
12. ARCHITECTURAL DIMENSIONS AND DESIGN INTENT ARE INDICATED ON ARCHITECTURAL DRAWINGS. IF THE INSTALLATION OF EQUIPMENT FROM OTHER TRADES INTERFERES WITH COMPLIANCE OF THE DESIGN INTENT, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
13. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN LOCATION OF BUILDING ELEMENTS. IF DIMENSIONS ARE NOT AVAILABLE, CONTACT THE ARCHITECT.
14. WHEN DIMENSIONS ON SMALL SCALE DRAWINGS CONFLICT WITH THOSE ON LARGE SCALE DRAWINGS, THE LARGE SCALE DRAWINGS GOVERN.

FLOOR PLAN NOTES

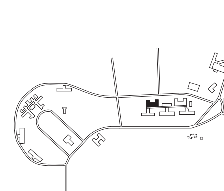
1. WATER-RESISTANT GYPSUM BOARD SHALL BE USED FOR STUD PARTITIONS IN TOILET ROOMS, JANITOR'S CLOSETS, FIRE SERVICE ROOMS, MECHANICAL ROOMS, AND ANY ADDITIONAL LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS.
2. WHERE STRUCTURAL ELEMENTS INTERFERE WITH FIRE-RATED PARTITIONS, FRAME TOP OF WALL AROUND STRUCTURAL ELEMENT.
3. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL INFORMATION REGARDING ITEMS PENETRATING FLOORS, WALLS, AND CEILINGS.
4. ALL NEW PARTITIONS ARE DIMENSIONED TO FACE OF STUD, MASONRY, OR CONCRETE COMPONENT UNLESS NOTED OTHERWISE. DIMENSIONS TO EXISTING ELEMENTS ARE TO EXPOSED FACE.
5. ALL DOORS IN STUD WALL CONSTRUCTION ARE TO BE LOCATED WITH EDGE OF FRAME 4" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE. DIMENSIONS LOCATING DOORS NOT DIRECTLY ADJACENT TO WALLS ARE GIVEN TO OUTSIDE EDGE OF FRAME.
6. ALL NEW WALLS AND HM DOORS & FRAMES TO BE PAINTED AS SPECIFIED

FLOOR PLAN SYMBOLS LEGEND

101 — DOOR MARK

M12A / S 44 — WALL CORE MATERIAL; WALL CORE WIDTH; WALL HEIGHT CODE; WALL GYP LAYERS; WALL MODIFIER CODE

Room name
101 — ROOM NUMBER
W WLF1 — WALL FINISH DESIGNATION
B BF1 — WALL BASE DESIGNATION
F FLR1 — FLOOR FINISH DESIGNATION



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

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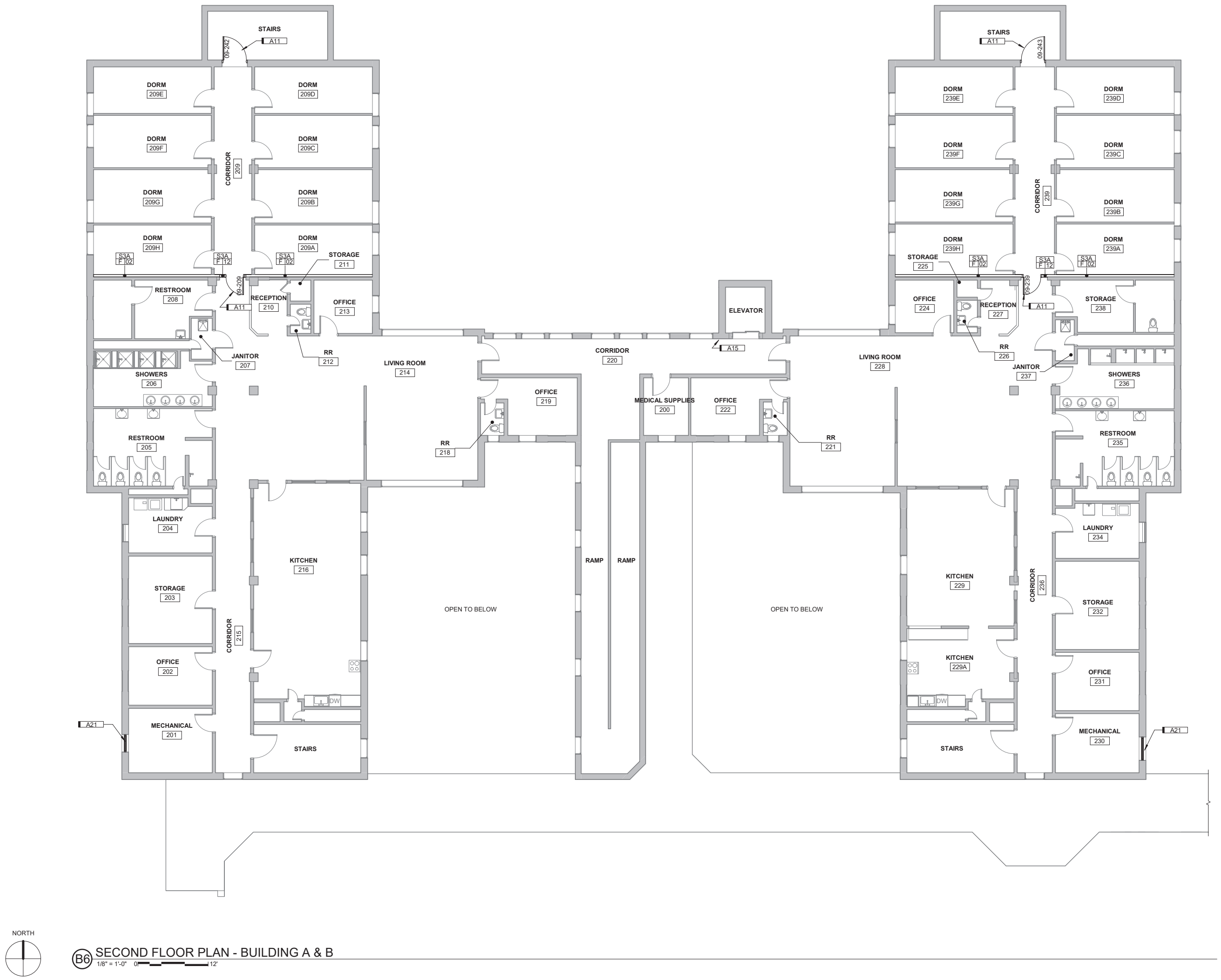
FIRST FLOOR PLAN - BUILDING A & B

09-A101

KEYNOTES	
KEY	NOTE
A11	REPLACE EXISTING DOOR WITH NEW FIRE RATED DOOR, AS PART OF 9279.41
A15	INSTALL FIRE SIGNAGE OUTSIDE ELEVATOR DOORS, SEE SPEC
A21	INFILL OPENING (6'-0"H X 3'-4"W - FIELD VERIFY) WITH MECHANICAL LOUVER - SEE MECHANICAL DRAWINGS



B6 SECOND FLOOR PLAN - BUILDING A & B
1/8" = 1'-0"

PROJECT GENERAL INFORMATION

1. COLOR HAS BEEN USED ON THESE DRAWINGS TO ENHANCE UNDERSTANDING. PRINTING IN COLOR IS RECOMMENDED TO ENSURE CLARITY.
2. ANY DAMAGE TO AREAS INSIDE OR OUTSIDE OF THE PROJECT AREA SHALL BE REPAIRED TO THE STATUS PRIOR TO CONSTRUCTION AT NO COST TO OWNER.
3. CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ALL CUTTING, SUPPORTING, AND PATCHING IF NOT COVERED BY A SPECIFIC TRADE.
4. EACH TRADE SHALL PROVIDE TESTED FIRESTOPPING ASSEMBLIES FOR PENETRATIONS OF THEIR WORK THROUGH FIRE-RATED WALLS AND FLOOR/CEILING ASSEMBLIES. FIRESTOPPING ASSEMBLIES ARE TO BE OF DESIGNS THAT PROVIDE THE SCHEDULED FIRE RATINGS WHEN TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, OR UL 1479, AND ARE TO BE INSTALLED BY INDIVIDUALS TRAINED AND EXPERIENCED WITH INSTALLATION OF SUCH ASSEMBLIES. PROVIDE SUBMITTALS TO LOCAL AUTHORITIES AS REQUESTED.
5. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT FOR A DECISION BEFORE PROCEEDING.
6. ABATEMENT WORK WILL BE UNDER SEPARATE CONTRACT. OBTAIN AND MAINTAIN ON SITE A COMPLETE SET OF ABATEMENT DOCUMENTS, INCLUDING ADDENDA AND CHANGES AFTER START OF CONSTRUCTION, FOR REFERENCE AND COORDINATION BY ALL TRADES. COORDINATE ALL DEMOLITION AND CONSTRUCTION WORK WITH THE ABATEMENT CONTRACTOR.
7. THE INDICATION OF TYPE AND LOCATION OF EXISTING CONDITIONS AND MATERIALS IN THE DRAWINGS IS NOT INTENDED AS EXACT DOCUMENTATION OF IN-PLACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS BEFORE SUBMISSION OF BIDS. EXISTING CONDITIONS VARYING FROM THOSE SHOWN IN THE DRAWINGS WILL NOT BE JUSTIFICATION FOR ADDITIONAL ALLOWANCE TO THE CONTRACTOR. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS CONFLICT WITH THE DRAWINGS.
8. PROTECT ALL BUILDING SYSTEMS, NEW AND EXISTING. COVER SUPPLY, RETURN, AND EXHAUST AIR GRILLES, AND PROTECT OTHER SENSITIVE EQUIPMENT FROM ALL ACTIVITIES RELATED TO THIS CONTRACT. REMOVE PROTECTION AT END OF CONSTRUCTION.
9. ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER EVEN IF NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
10. ALL CODE-REQUIRED LABELS SUCH AS "UL", "FACTORY MUTUAL", OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME, OR NOMENCLATURE PLATES SHALL REMAIN READABLE AND NOT PAINTED OR COVERED BY OTHER CONSTRUCTION.
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13. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN LOCATION OF BUILDING ELEMENTS. IF DIMENSIONS ARE NOT AVAILABLE, CONTACT THE ARCHITECT.
14. WHEN DIMENSIONS ON SMALL SCALE DRAWINGS CONFLICT WITH THOSE ON LARGE SCALE DRAWINGS, THE LARGE SCALE DRAWINGS GOVERN.

FLOOR PLAN NOTES

1. WATER-RESISTANT GYPSUM BOARD SHALL BE USED FOR STUD PARTITIONS IN TOILET ROOMS, JANITOR'S CLOSETS, FIRE SERVICE ROOMS, MECHANICAL ROOMS, AND ANY ADDITIONAL LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS.
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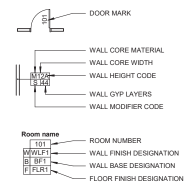
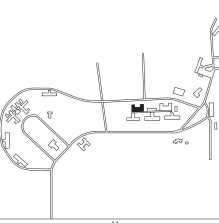
3. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL INFORMATION REGARDING ITEMS PENETRATING FLOORS, WALLS, AND CEILINGS.
4. ALL NEW PARTITIONS ARE DIMENSIONED TO FACE OF STUD, MASONRY, OR CONCRETE COMPONENT UNLESS NOTED OTHERWISE. DIMENSIONS TO EXISTING ELEMENTS ARE TO EXPOSED FACE.
5. ALL DOORS IN STUD WALL CONSTRUCTION ARE TO BE LOCATED WITH EDGE OF FRAME 4" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE. DIMENSIONS LOCATING DOORS NOT DIRECTLY ADJACENT TO WALLS ARE GIVEN TO OUTSIDE EDGE OF FRAME.
6. ALL NEW WALLS AND HM DOORS & FRAMES TO BE PAINTED AS SPECIFIED

FLOOR PLAN SYMBOLS LEGEND





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SECOND FLOOR PLAN - BUILDING A & B

09-A102

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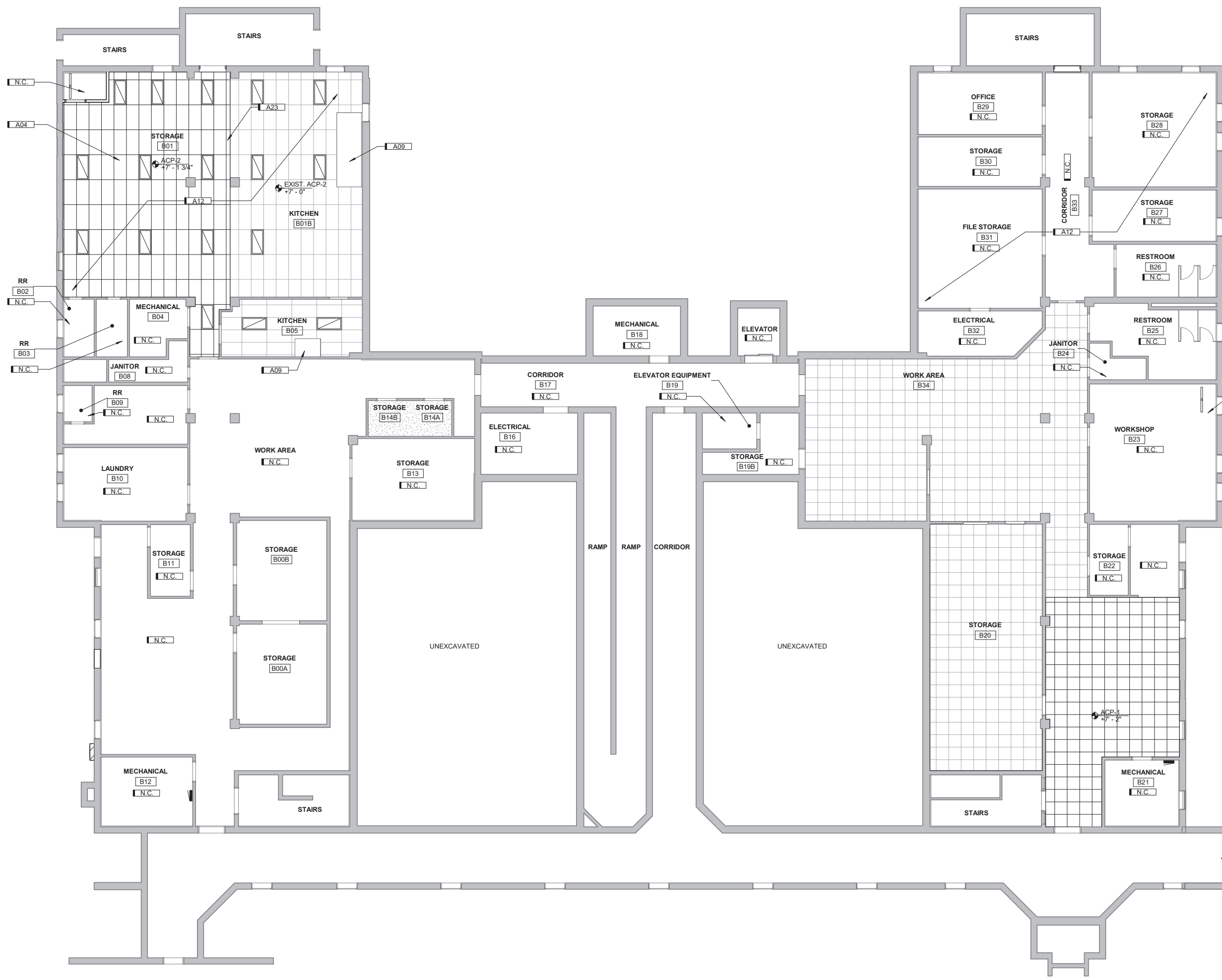

NORTH

B6 BASEMENT RCP - BUILDING A & B

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

CEILING PLAN NOTES

1. ARCHITECTURAL CEILING PLANS SHALL BE PRINTED IN COLOR.
2. NOTIFY ARCHITECT OF INADEQUATE CLEARANCES FOR CEILING LAYOUT PRIOR TO COMMENCING WORK.
3. IN SPACES WHERE EXISTING ACP CEILINGS ARE SHOWN TO REMAIN, LOCATIONS OF LIGHT FIXTURES, DIFFUSERS, ETC. SHALL REMAIN IN PLACE. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION. REFER TO DRAWINGS AND SPECIFICATIONS OF ALL TRADES FOR SYSTEM DESIGN AND ADDITIONAL INFORMATION.
4. IN SPACES WHERE PORTIONS OF EXISTING ACP CEILINGS ARE TO REMAIN AND OTHER PORTIONS ARE TO BE DEMOLISHED, FIELD VERIFY EXISTING HEIGHTS AND INSTALL NEW TO ALIGN WITH EXISTING GRID.
5. COORDINATE WITH ALL TRADES TO CONFIRM THEIR WORK CAN BE INSTALLED TO ACHIEVE CEILING HEIGHTS AS SHOWN. TRADE PRIORITY SHALL BE AS FOLLOWS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.
   - ELECTRICAL LIGHTING FIXTURES
   - MECHANICAL GRILLES AND DIFFUSERS
   - MECHANICAL DUCTWORK
   - ELECTRICAL CONDUIT
   - PIPING SYSTEMS
6. COORDINATE WITH ALL TRADES TO CONFIRM THE LOCATION OF ACCESS PANELS WITH ASSOCIATED INSTALLED EQUIPMENT. INFORM ARCHITECT OF PROPOSED LOCATIONS PRIOR TO INSTALLATION AND CONSTRUCTION OF NEW WORK.
7. CONTRACTOR TO REPLACE EXISTING CEILING TILES DAMAGED DURING CONSTRUCTION.
8. FIRE STOP ALL PENETRATIONS THROUGH RATED FLOOR/CEILING ASSEMBLY.

CEILING PLAN SYMBOLS LEGEND

ACP-1 / +8'-0" — CEILING MATERIAL DESIGNATION; CEILING HEIGHT

EXISTING PLASTER ON METAL LATH SUBSTRATE CEILING

GYP-1, GYPSUM BOARD CEILING/ SOFFIT

ACP-1, 2X2 ACOUSTICAL CEILING PANEL SYSTEM

ACP-2, 2X4 ACOUSTICAL CEILING PANEL SYSTEM

PROVIDE 1 HOUR RATING AT FLOOR/ROOF ASSEMBLY ABOVE NEW CEILINGS PER DETAIL E2/A111.

N.C. — NO CEILING IN SPACE

LIGHT FIXTURE

KEYNOTES

KEY	NOTE
A04	NEW ACP TO EXISTING ACCORDION PARTITION
A09	NO CEILING AT FOOD SERVICE EQUIPMENT HOOD
A12	PROVIDE ALLOWANCE TO FIRE STOP ALL EXISTING AND NEW PENETRATIONS THROUGH FLOOR/CEILING ASSEMBLY TO MAINTAIN 1 HOUR FIRE-RATED ASSEMBLY
A23	EXISTING OPERABLE PARTITION TRACK TO REMAIN

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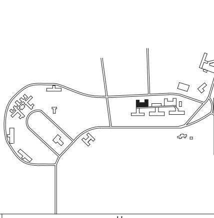

BASEMENT RCP - BUILDING A & B

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09-A110

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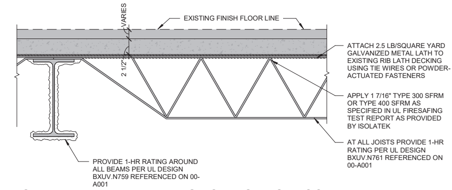


E2 1 HOUR APPLIED FIRE RATING TO EXISTING FLOOR CONSTRUCTION
1 1/2" = 1'-0"

CEILING PLAN NOTES

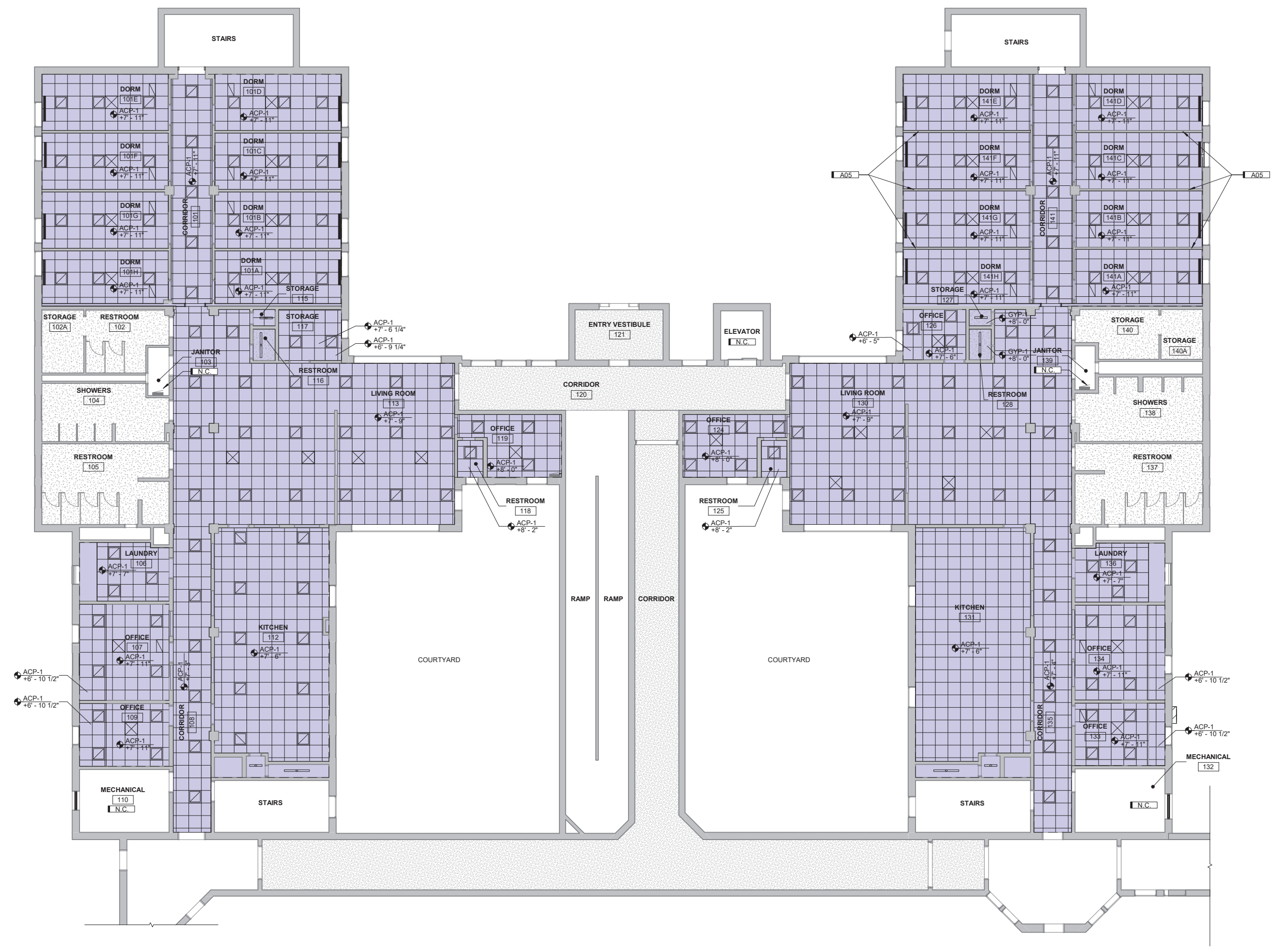
1. ARCHITECTURAL CEILING PLANS SHALL BE PRINTED IN COLOR.
2. NOTIFY ARCHITECT OF INADEQUATE CLEARANCES FOR CEILING LAYOUT PRIOR TO COMMENCING WORK.
3. IN SPACES WHERE EXISTING ACP CEILINGS ARE SHOWN TO REMAIN, LOCATIONS OF LIGHT FIXTURES, DIFFUSERS, ETC. SHALL REMAIN IN PLACE. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION. REFER TO DRAWINGS AND SPECIFICATIONS OF ALL TRADES FOR SYSTEM DESIGN AND ADDITIONAL INFORMATION.
4. IN SPACES WHERE PORTIONS OF EXISTING ACP CEILINGS ARE TO REMAIN AND OTHER PORTIONS ARE TO BE DEMOLISHED, FIELD VERIFY EXISTING HEIGHTS AND INSTALL NEW TO ALIGN WITH EXISTING GRID.
5. COORDINATE WITH ALL TRADES TO CONFIRM THEIR WORK CAN BE INSTALLED TO ACHIEVE CEILING HEIGHTS AS SHOWN. TRADE PRIORITY SHALL BE AS FOLLOWS UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.
   - ELECTRICAL LIGHTING FIXTURES
   - MECHANICAL GRILLES AND DIFFUSERS
   - MECHANICAL DUCTWORK
   - ELECTRICAL CONDUIT
   - PIPING SYSTEMS
6. COORDINATE WITH ALL TRADES TO CONFIRM THE LOCATION OF ACCESS PANELS WITH ASSOCIATED INSTALLED EQUIPMENT. INFORM ARCHITECT OF PROPOSED LOCATIONS PRIOR TO INSTALLATION AND CONSTRUCTION OF NEW WORK.
7. CONTRACTOR TO REPLACE EXISTING CEILING TILES DAMAGED DURING CONSTRUCTION.
8. FIRE STOP ALL PENETRATIONS THROUGH RATED FLOOR/CEILING ASSEMBLY.

CEILING PLAN SYMBOLS LEGEND

- ACP-1 / +8'-0" — CEILING MATERIAL DESIGNATION / CEILING HEIGHT
- EXISTING PLASTER ON METAL LATH SUBSTRATE CEILING
- GYP-1, GYPSUM BOARD CEILING/ SOFFIT
- ACP-1, 2X2 ACOUSTICAL CEILING PANEL SYSTEM
- ACP-2, 2X4 ACOUSTICAL CEILING PANEL SYSTEM
- PROVIDE 1 HOUR RATING AT FLOOR/ROOF ASSEMBLY ABOVE NEW CEILINGS PER DETAIL E2/A111.
- N.C. — NO CEILING IN SPACE
- LIGHT FIXTURE

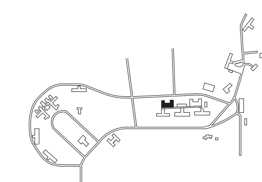
KEYNOTES

KEY	NOTE
A05	WALL STOPS AT 6' 8" AFF, EXISTING CEILING IS CONTINUOUS EXCEPT AT POSTS



NORTH

B6 FIRST FLOOR RCP - BUILDING A & B
1/8" = 1'-0"



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FIRST FLOOR RCP - BUILDING A & B

09-A111

CEILING PLAN NOTES

1. ARCHITECTURAL CEILING PLANS SHALL BE PRINTED IN COLOR.
2. NOTIFY ARCHITECT OF INADEQUATE CLEARANCES FOR CEILING LAYOUT PRIOR TO COMMENCING WORK.
3. IN SPACES WHERE EXISTING ACP CEILINGS ARE SHOWN TO REMAIN, LOCATIONS OF LIGHT FIXTURES, DIFFUSERS, ETC. SHALL REMAIN IN PLACE. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION. REFER TO DRAWINGS AND SPECIFICATIONS OF ALL TRADES FOR SYSTEM DESIGN AND ADDITIONAL INFORMATION.
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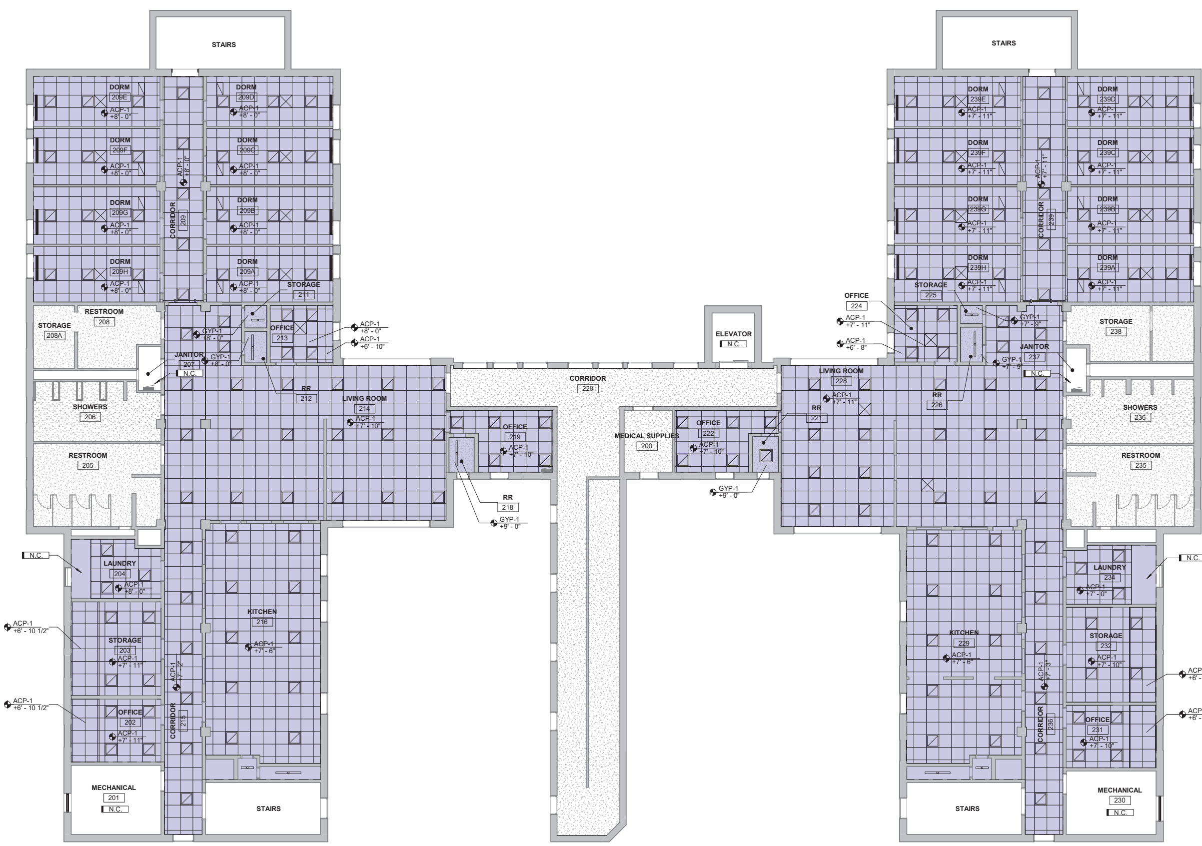
7. CONTRACTOR TO REPLACE EXISTING CEILING TILES DAMAGED DURING CONSTRUCTION.
8. FIRE STOP ALL PENETRATIONS THROUGH RATED FLOOR/CEILING ASSEMBLY.

CEILING PLAN SYMBOLS LEGEND

Symbol	Description
ACP-1 / +8'-0"	CEILING MATERIAL DESIGNATION / CEILING HEIGHT
	EXISTING PLASTER ON METAL LATH SUBSTRATE CEILING
	GYP-1, GYPSUM BOARD CEILING/ SOFFIT
	ACP-1, 2X2 ACOUSTICAL CEILING PANEL SYSTEM
	ACP-2, 2X4 ACOUSTICAL CEILING PANEL SYSTEM
	PROVIDE 1 HOUR RATING AT FLOOR/ROOF ASSEMBLY ABOVE NEW CEILINGS PER DETAIL E2/A111.
N.C.	NO CEILING IN SPACE
	LIGHT FIXTURE

KEYNOTES

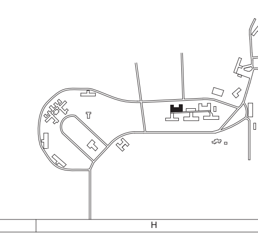
KEY	NOTE



NORTH

B6 SECOND FLOOR RCP - BUILDING A & B

1/8" = 1'-0"



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SECOND FLOOR RCP - BUILDING A & B

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09-A112

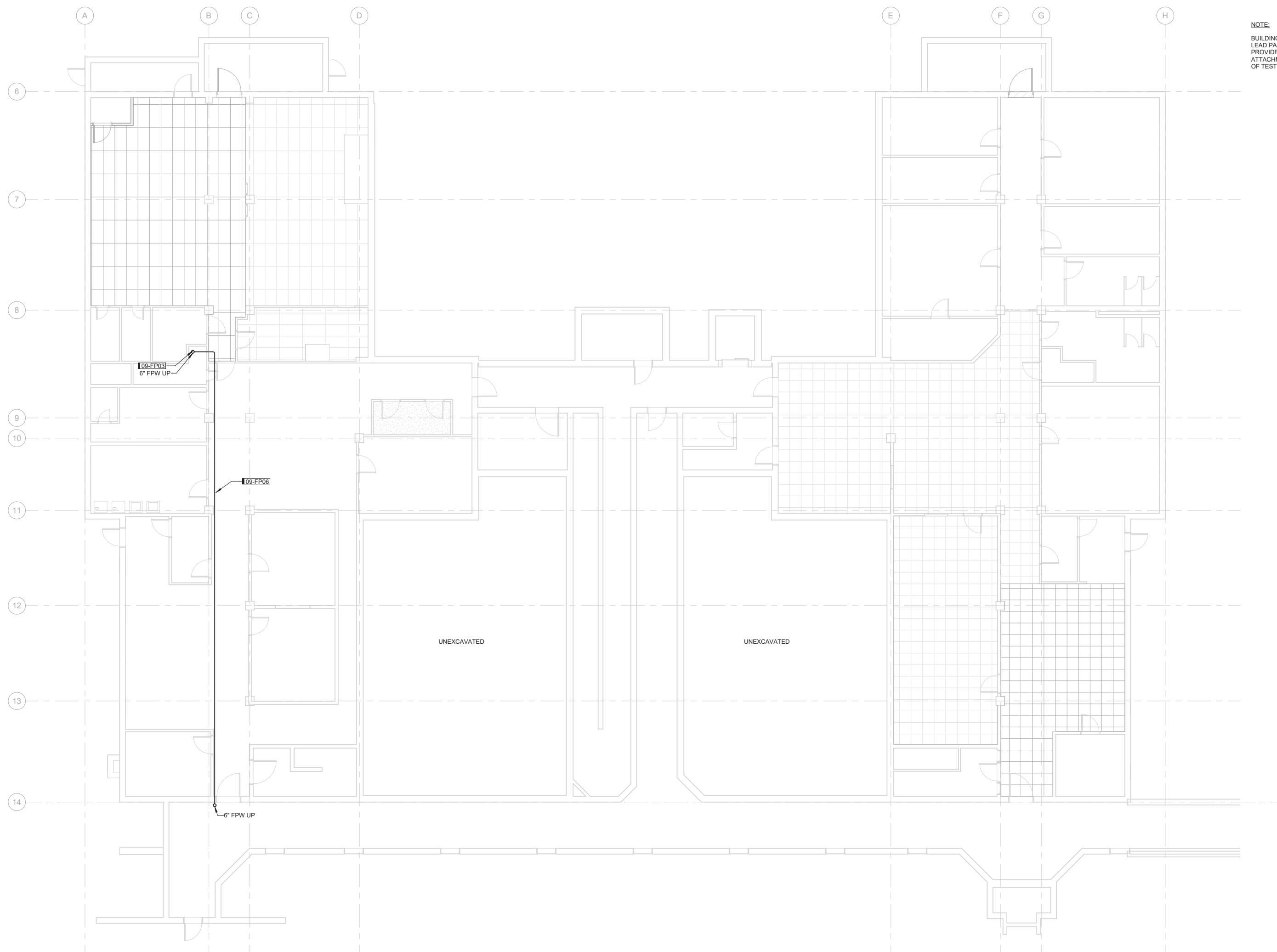
Autodesk Revit 2022

KEYNOTES

KEY	NOTE
09-FP03	ROUTE FIRE PROTECTIONS MAIN TO JANITOR'S CLOSET. ROUTE RISER TO SECOND FLOOR THROUGH JANITOR'S CLOSETS ON FLOORS ABOVE. RISER LOCATION SHOWN IS ANTICIPATED RISER LOCATION. FIELD VERIFY PIPE RISER LOCATION ON EACH FLOOR PRIOR TO BEGINNING WORK.
09-FP06	ROUTE FIRE PROTECTION PIPING THROUGH HALLWAY TO JANITOR'S CLOSET. PIPE ROUTING IS SCHEMATIC. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION.

NOTE:

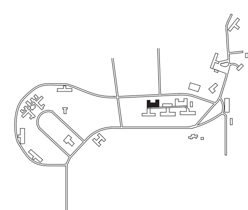
BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



NORTH

B6 BASEMENT FIRE PROTECTION PLANS

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



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BASEMENT FIRE PROTECTION PLAN

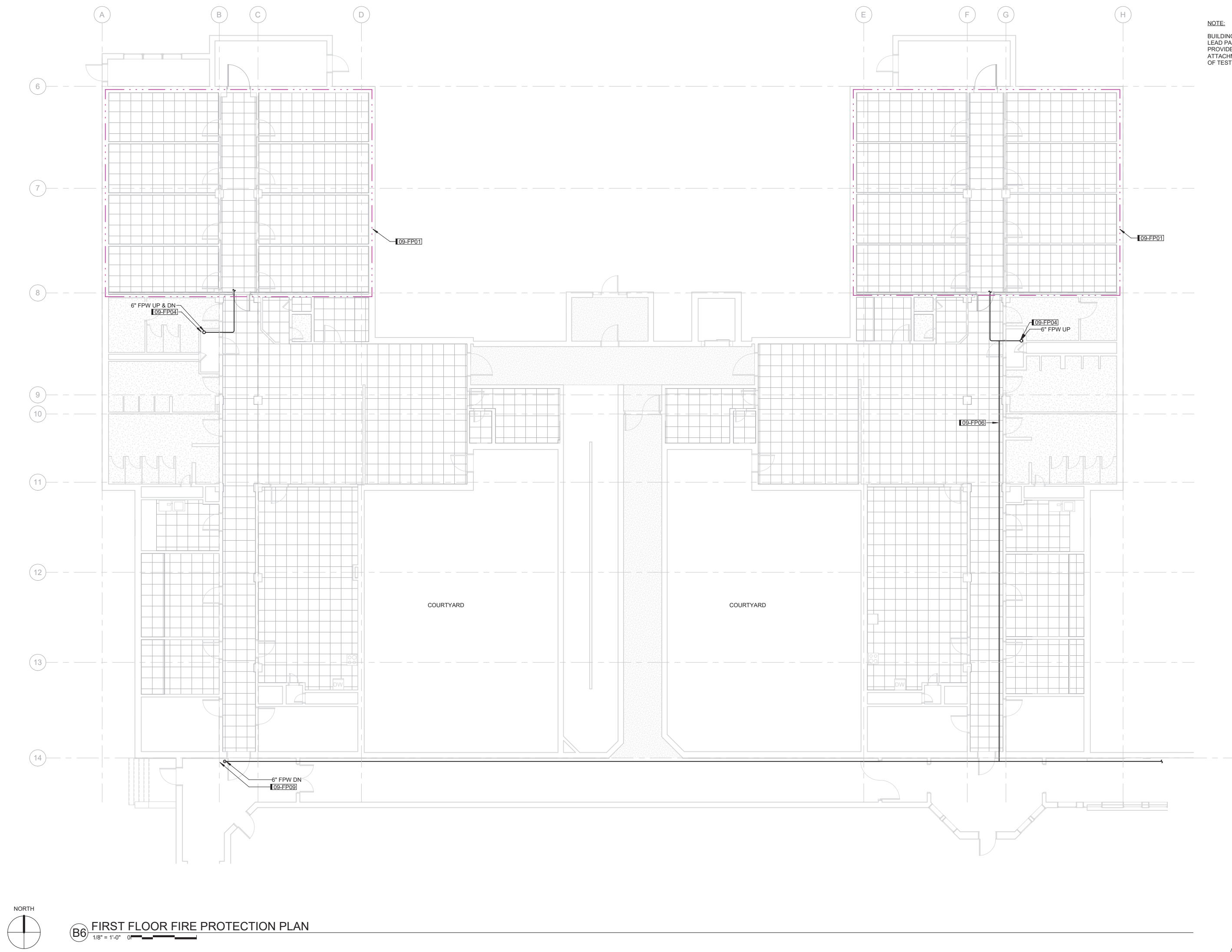
09-FP100

KEYNOTES

KEY	NOTE
09-FP01	INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. AREA SHALL BE CONSIDERED ORDINARY HAZARD GROUP 2 WITH MINIMUM DENSITY OF 0.20 GPM/SF OVER THE MOST HYDRAULICALLY REMOTE 1500 SF WITH 250 COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE.
09-FP04	LOCATION OF RISER SHOWN IS THE ANTICIPATED RISER LOCATION. CONTRACTOR SHALL CORE DRILL THROUGH FLOOR AS REQUIRED AT FINAL RISER LOCATION. CONTRACTOR SHALL FIELD VERIFY ROUTING AND COORDINATE FINAL ROUTING WITH ABATEMENT CONTRACTOR.
09-FP06	ROUTE FIRE PROTECTION PIPING THROUGH HALLWAY TO JANITOR'S CLOSET. PIPE ROUTING IS SCHEMATIC. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION.
09-FP09	ROUTE BUILDING FIRE PROTECTION MAIN INTO BASEMENT BEFORE ROUTING INTO BUILDING. REFER TO SHEET 09-FP100 FOR CONTINUATION.

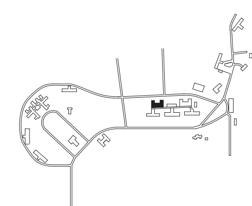
NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.



B6 FIRST FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"



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FIRST FLOOR FIRE PROTECTION PLAN

09-FP101

KEYNOTES

KEY	NOTE
09-FP01	INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. AREA SHALL BE CONSIDERED ORDINARY HAZARD GROUP 2 WITH MINIMUM DENSITY OF 0.20 GPM/SF OVER THE MOST HYDRAULICALLY REMOTE 1500 SF WITH 250 COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE.
09-FP04	LOCATION OF RISER SHOWN IS THE ANTICIPATED RISER LOCATION. CONTRACTOR SHALL CORE DRILL THROUGH FLOOR AS REQUIRED AT FINAL RISER LOCATION. CONTRACTOR SHALL FIELD VERIFY ROUTING AND COORDINATE FINAL ROUTING WITH ABATEMENT CONTRACTOR.

NOTE:

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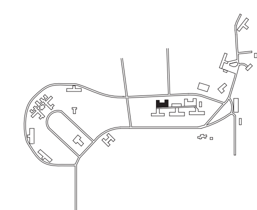
B6 SECOND FLOOR FIRE PROTECTION PLANS
1/8" = 1'-0"



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SECOND FLOOR FIRE PROTECTION PLAN

09-FP102

KEYNOTES

KEY	NOTE
09-MD1	DEMOLISH EXISTING STEAM, CONDENSATE, CHWS, AND CHWR BACK TO THE EXISTING MAIN IN THE TUNNELS. CAP AND ABANDON PIPING IN THE TUNNEL. APPROXIMATE SHUT OFF VALVE LOCATION SHOWN. VERIFY EXACT VALVE LOCATION PRIOR TO SHUT OFF.
09-MD3	DEMOLISH STEAM, CONDENSATE, CHWR, AND CHWS PIPING THROUGH FLOOR PENETRATION. FLOOR PENETRATIONS TO BE PATCHED AND FILLED.
09-MD6	DEMOLISH CONDENSATE PIPING BACK TO FLOOR PENETRATION. FLOOR PENETRATION AND PIPING TO REMAIN.
09-MD8	EXISTING CONDENSATE PUMP, ASSOCIATED PIPING, AND ACCESSORIES TO BE DEMOLISHED.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
09-MD12	EXISTING STEAM CONVECTORS AND ASSOCIATED PIPING AND CONTROLS TO BE DEMOLISHED.
09-MD18	DEMOLISH EXISTING STEAM AND CONDENSATE PIPING. TO APPROXIMATE EXTENTS TO PROVIDE SPACE FOR ROUTING NEW DUCTWORK. CAP REMAINING ABANDONED STEAM AND CONDENSATE PIPING.

NOTE:

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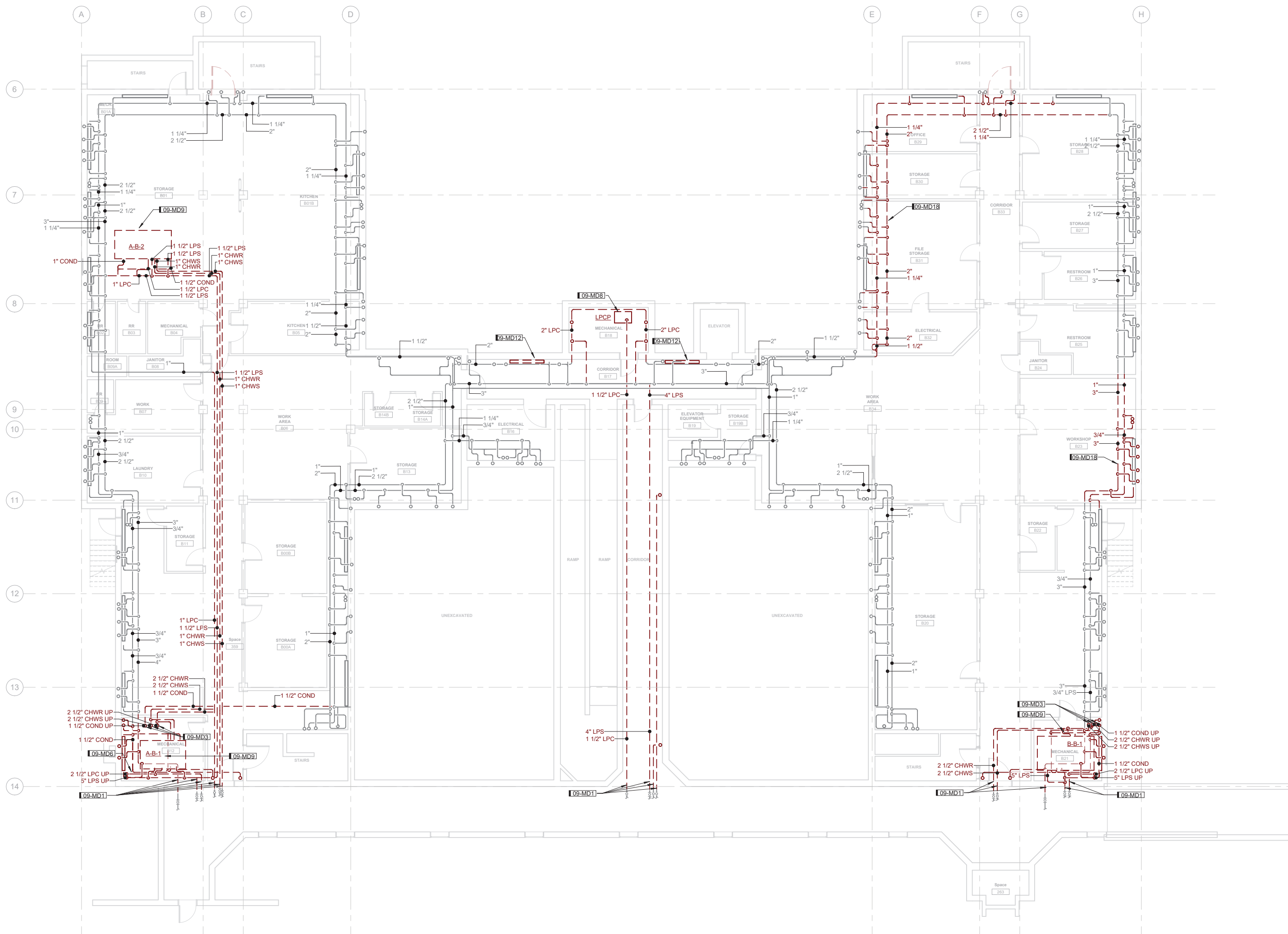
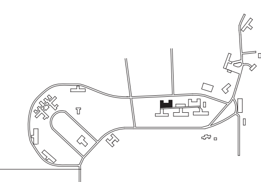


NORTH

A6 BASEMENT MECHANICAL PIPING DEMOLITION PLAN

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



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BASEMENT MECHANICAL PIPING DEMOLITION PLAN

09-MD100

KEYNOTES	
KEY	NOTE
09-MD2	DEMOLISH EXISTING DUCT HEATING COIL AND DUCTWORK INSIDE THE MECHANICAL ROOM.
09-MD3	DEMOLISH STEAM, CONDENSATE, CHWR, AND CHWS PIPING THROUGH FLOOR PENETRATION. FLOOR PENETRATIONS TO BE PATCHED AND FILLED.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
09-MD12	EXISTING STEAM CONVECTORS AND ASSOCIATED PIPING AND CONTROLS TO BE DEMOLISHED.

NOTE:

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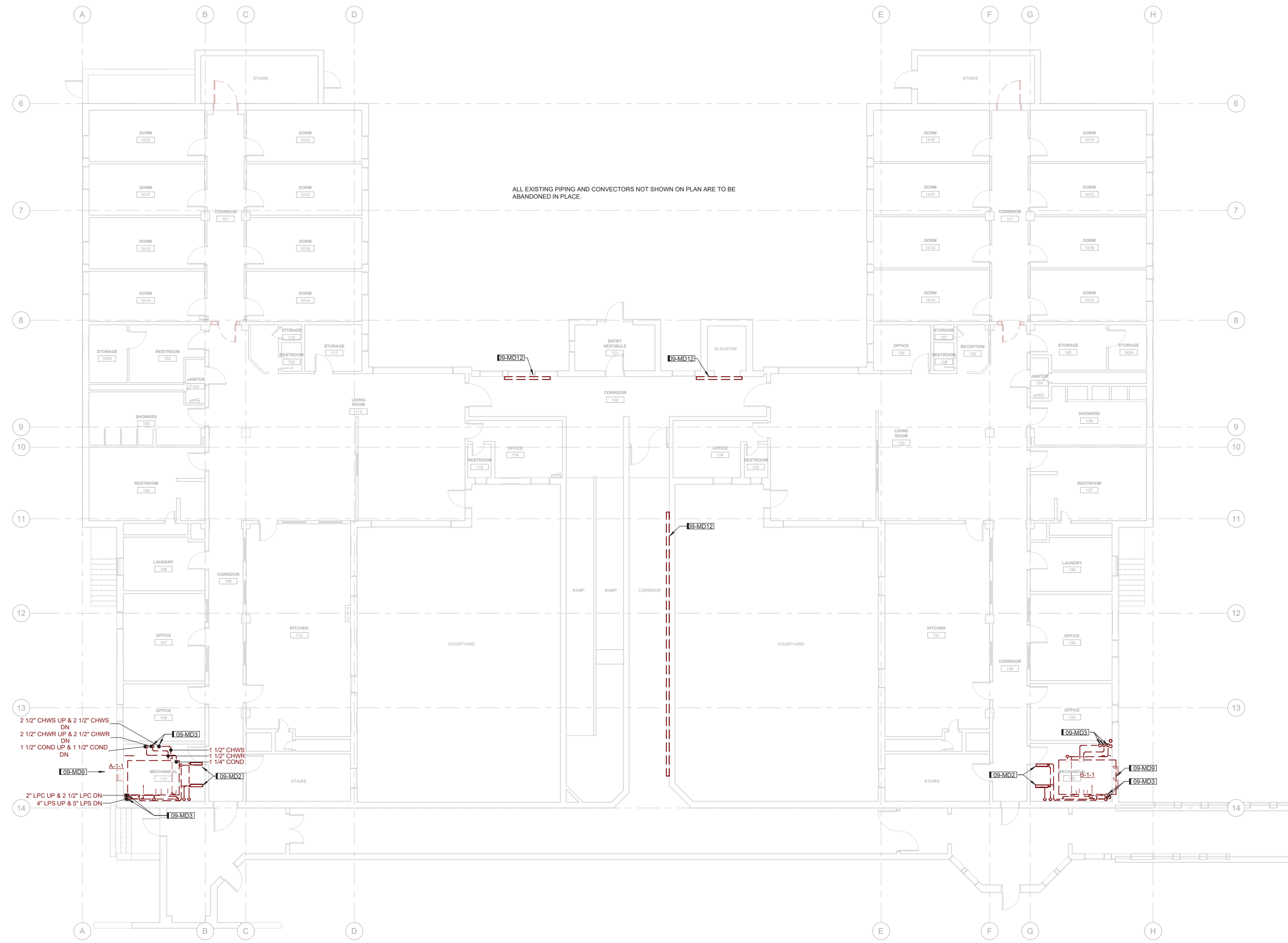
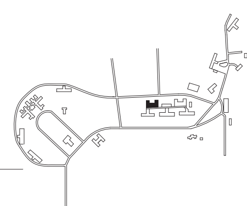


NORTH

A6 FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN

1/8" = 1'-0"



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FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN

09-MD101

Autodesk Revit 2022

KEYNOTES

KEY	NOTE
09-MD2	DEMOLISH EXISTING DUCT HEATING COIL AND DUCTWORK INSIDE THE MECHANICAL ROOM.
09-MD3	DEMOLISH STEAM, CONDENSATE, CHWR, AND CHWS PIPING THROUGH FLOOR PENETRATION. FLOOR PENETRATIONS TO BE PATCHED AND FILLED.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
09-MD12	EXISTING STEAM CONVECTORS AND ASSOCIATED PIPING AND CONTROLS TO BE DEMOLISHED.

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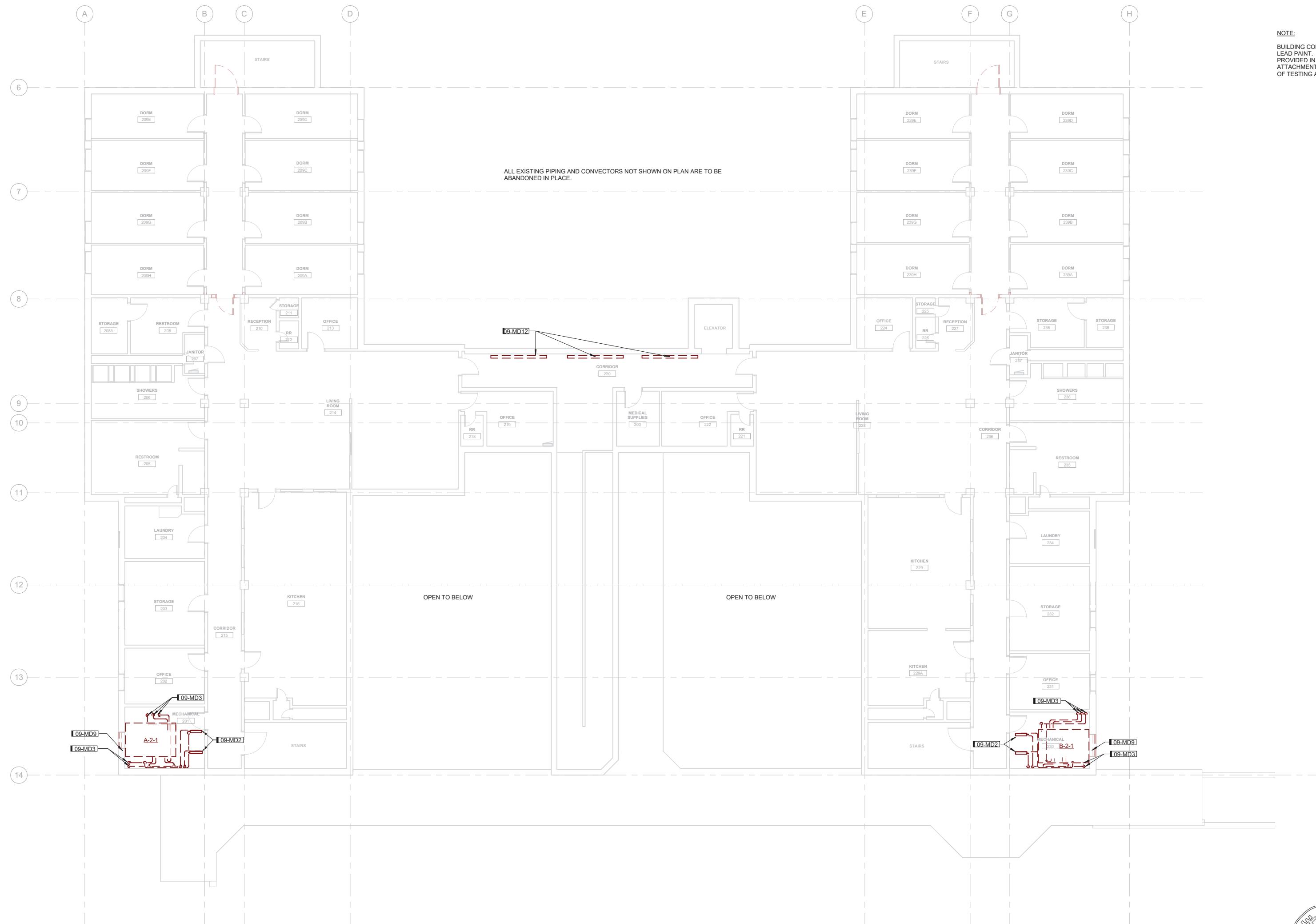
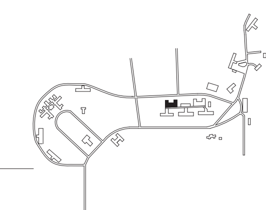


NORTH

A6 SECOND FLOOR MECHANICAL PIPING DEMOLITION PLAN

1/8" = 1'-0"



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SECOND FLOOR MECHANICAL PIPING DEMOLITION PLAN

09-MD102

Autodesk Revit 2022

KEYNOTES

KEY	NOTE
09-MD4	REMOVE EXISTING DUCTWORK BACK TO WALL AND CAP DUCT WITH INSULATED DUCT CAP. EXISTING LOUVER TO REMAIN.
09-MD5	REMOVE EXISTING DUCTWORK TO EXTENT SHOWN. EXISTING LOUVER AND PLENUM TO REMAIN. PREPARE PLENUM FOR NEW CONNECTION.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.

NOTE:

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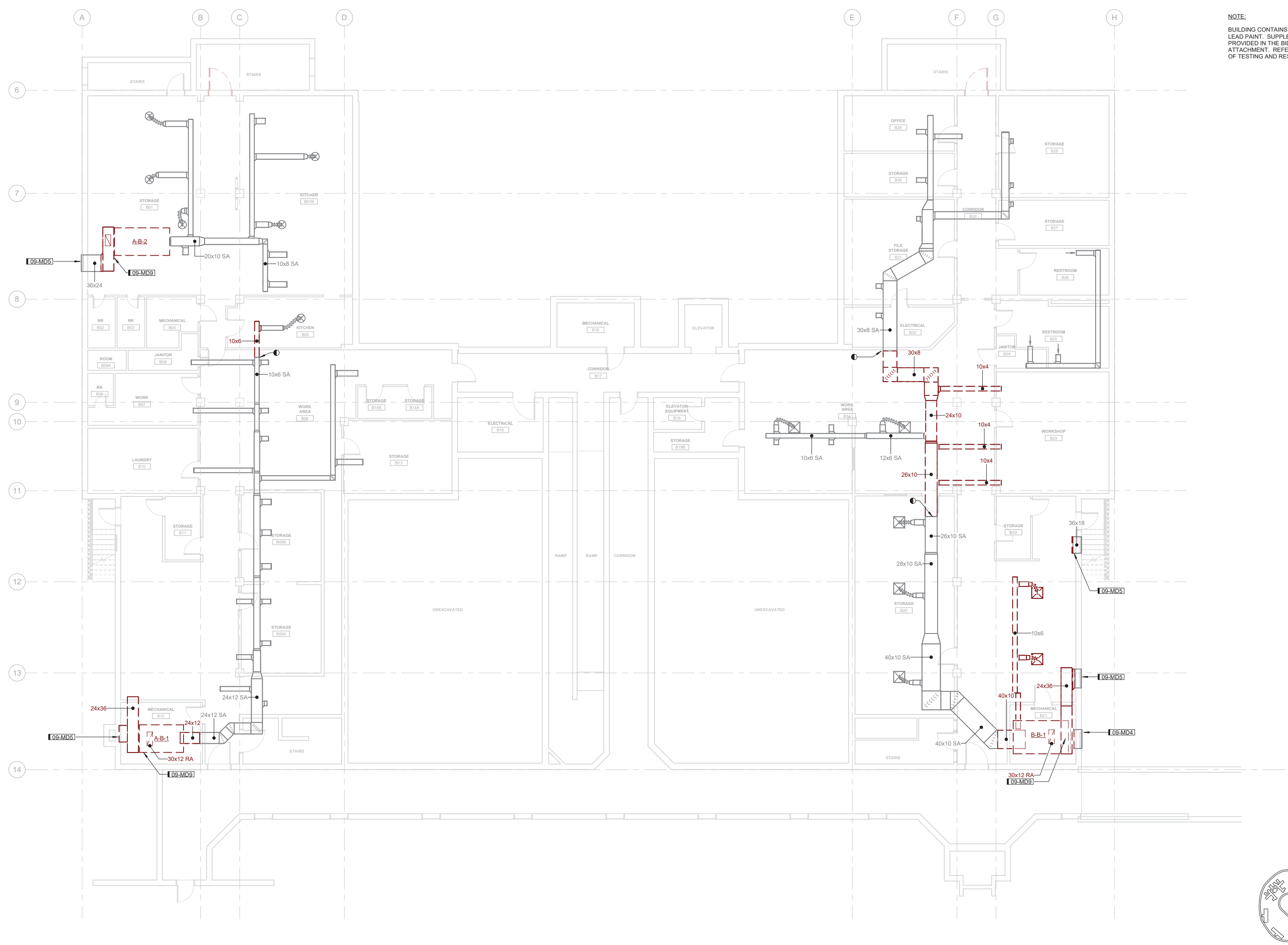
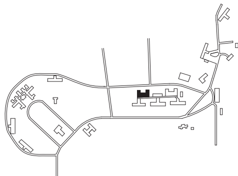


NORTH

X-76 BASEMENT MECHANICAL DUCTWORK DEMOLITION PLAN

1/8" = 1'-0"



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BASEMENT MECHANICAL DUCTWORK DEMOLITION PLAN

09-MD200

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KEYNOTES

KEY	NOTE
09-MD2	DEMOLISH EXISTING DUCT HEATING COIL AND DUCTWORK INSIDE THE MECHANICAL ROOM.
09-MD4	REMOVE EXISTING DUCTWORK BACK TO WALL AND CAP DUCT WITH INSULATED DUCT CAP. EXISTING LOUVER TO REMAIN.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
09-MD15	REMOVE SECTION OF DUCTWORK FOR INSTALLATION OF NEW FIRE DAMPER. SEE NEW WORK PLANS.
09-MD16	REMOVE EXISTING KITCHEN TRANSFER DUCT AND GRILLE. INFILL AND PAINT WALL TO MATCH ADJACENT WALL COLOR.
09-MD17	DEMOLISH EXISTING RETURN DUCT. EXTENT OF RETURN DUCT IS BELIEVE TO TERMINATE ON OTHER SIDE OF MECHANICAL ROOM WALL. VERIFY TERMINATION POINT AND NOTIFY ENGINEER IF TERMINATION POINT DIFFERS FROM ANTICIPATED LOCATION.

NOTE:

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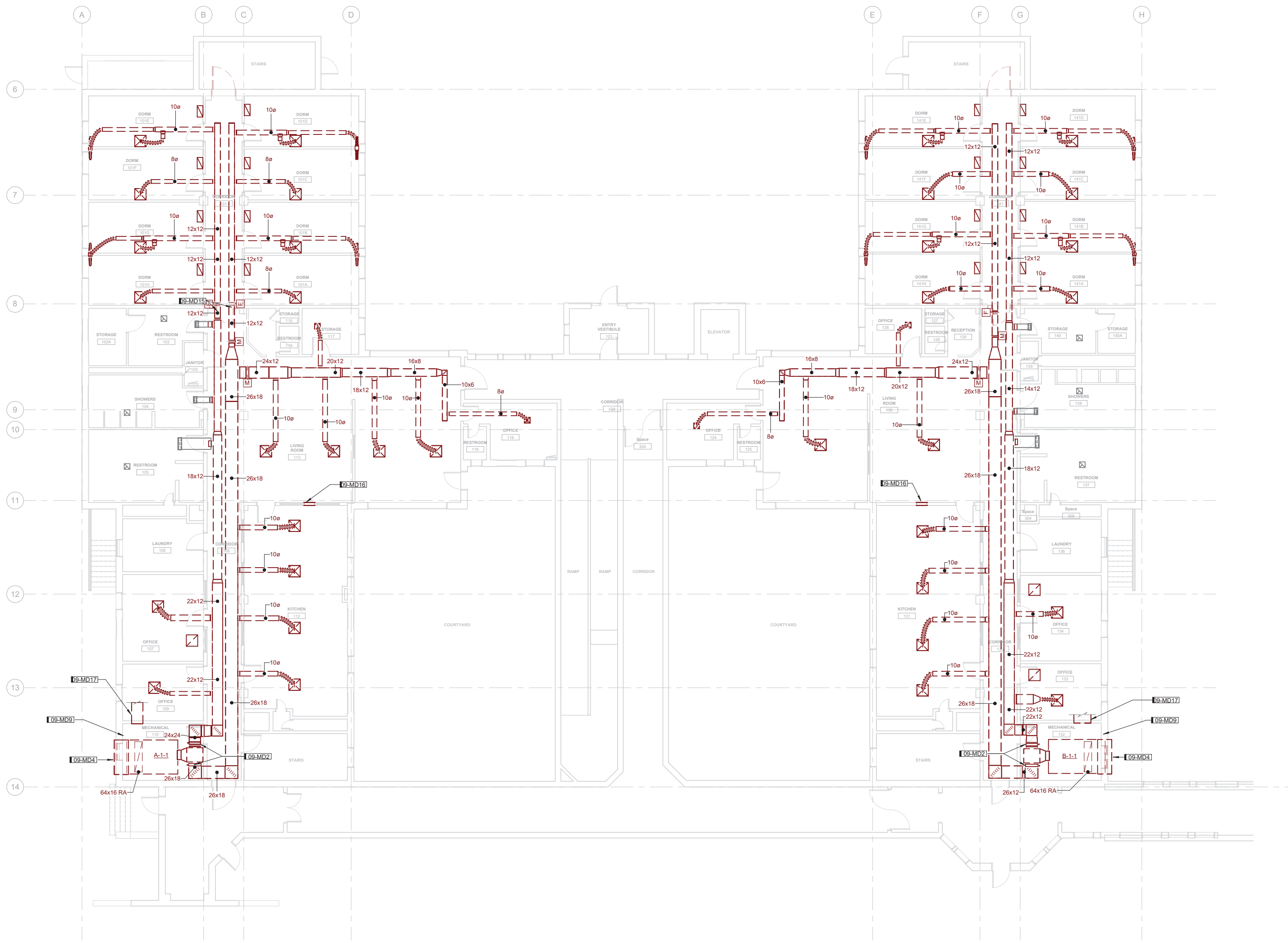
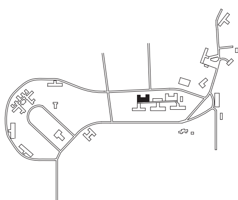


NORTH

A6 FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

1/8" = 1'-0"



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FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

09-MD201

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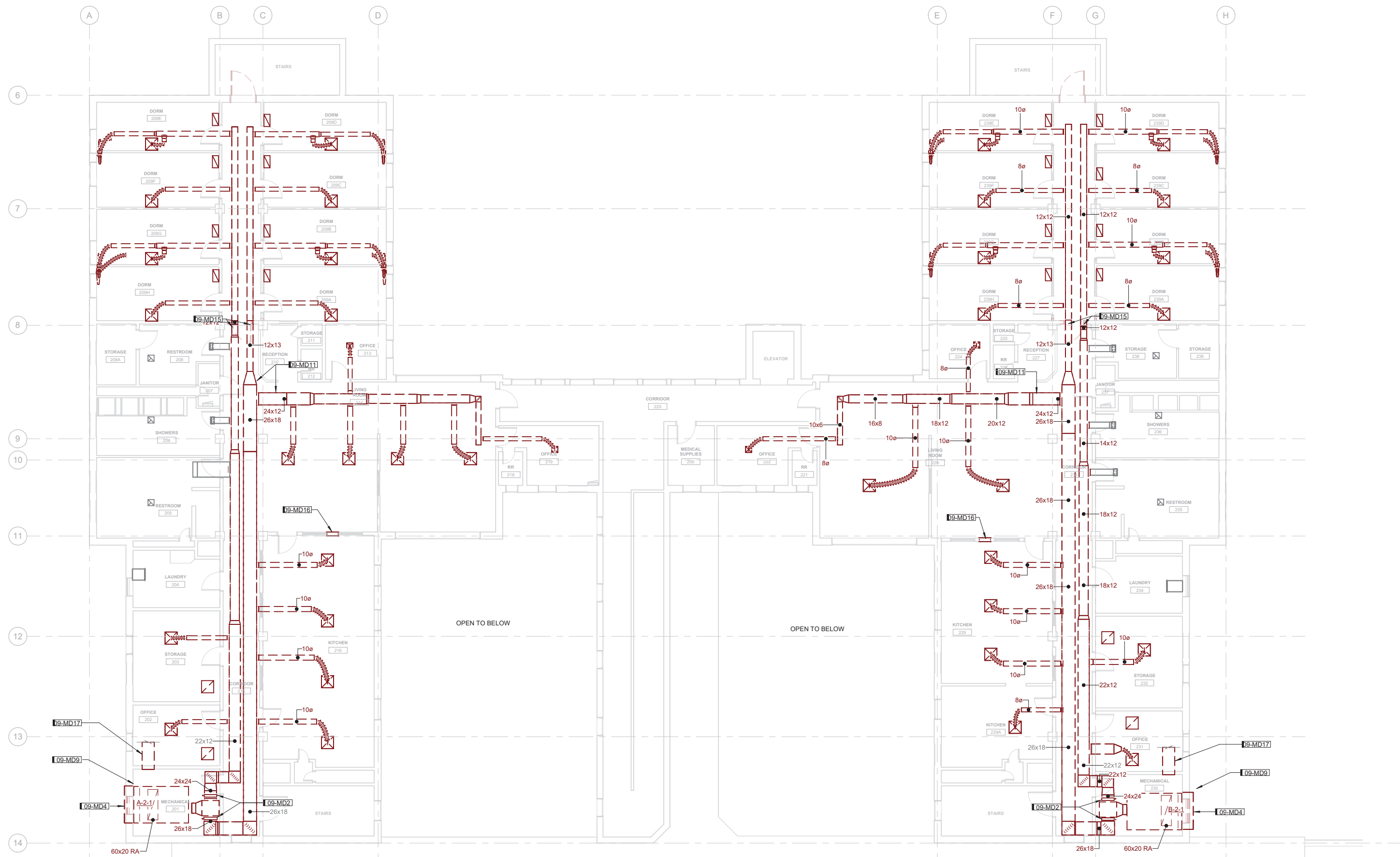

NORTH

A6 SECOND FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN
1/8" = 1'-0"

KEYNOTES

KEY	NOTE
09-MD2	DEMOLISH EXISTING DUCT HEATING COIL AND DUCTWORK INSIDE THE MECHANICAL ROOM.
09-MD4	REMOVE EXISTING DUCTWORK BACK TO WALL AND CAP DUCT WITH INSULATED DUCT CAP. EXISTING LOUVER TO REMAIN.
09-MD9	REMOVE EXISTING BLOWER COIL UNIT AND ASSOCIATED PIPING, OUTDOOR AIR DUCTWORK, AND CONTROLS. SUPPLY DUCTWORK TO REMAIN FOR RECONNECTION.
09-MD11	DEMOLISH EXISTING DUCTWORK AND ACCESSORIES IN THIS LOCATION. PREPARE DUCTWORK FOR NEW VAV AND DUCTWORK INSTALLATION.
09-MD15	REMOVE SECTION OF DUCTWORK FOR INSTALLATION OF NEW FIRE DAMPER. SEE NEW WORK PLANS.
09-MD16	REMOVE EXISTING KITCHEN TRANSFER DUCT AND GRILLE. INFILL AND PAINT WALL TO MATCH ADJACENT WALL COLOR.
09-MD17	DEMOLISH EXISTING RETURN DUCT. EXTENT OF RETURN DUCT IS BELIEVE TO TERMINATE ON OTHER SIDE OF MECHANICAL ROOM WALL. VERIFY TERMINATION POINT AND NOTIFY ENGINEER IF TERMINATION POINT DIFFERS FROM ANTICIPATED LOCATION.

NOTE:

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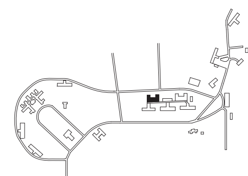

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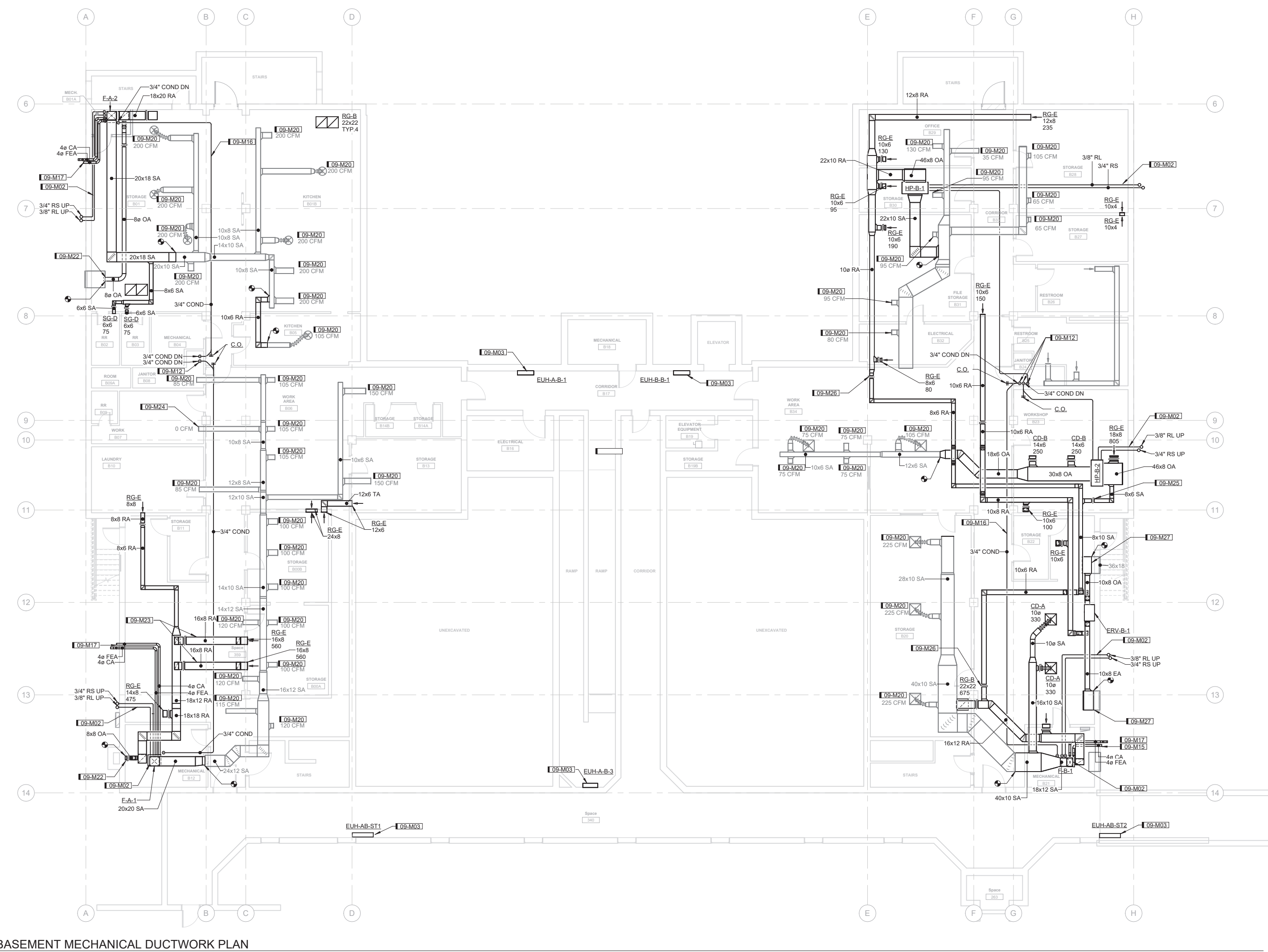
SECOND FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

09-MD202

KEYNOTES

KEY	NOTE
09-M02	REFRIGERANT PIPING SIZE AND ROUTING SHOWN IS AN APPROXIMATION. EXACT SIZING AND ROUTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
09-M03	NEW ELECTRIC UNIT HEATER TO BE SURFACE MOUNTED ON WALL PER MANUFACTURER'S INSTRUCTIONS. MOUNT UNIT HEATERS BOTTOM TO BE APPROX 0'-6" AFF.
09-M12	ROUTE CONDENSATE PIPING FROM CONDENSATE PUMP TO JANITOR'S CLOSET. TERMINATE PIPING AT THE NEAREST FIXTURE IN JANITOR CLOSET.
09-M15	DESIGN INTENT IS TO USE EXISTING WINDOW OR PREVIOUSLY INFILLED WINDOW FOR THE WALL PENETRATION. FIELD VERIFY EXACT PENETRATION LOCATION PRIOR TO INSTALLATION.
09-M16	PIPE ROUTING SHOWN IS THE INTENDED CONDENSATE PIPE ROUTING. FIELD VERIFY EXACT PIPE ROUTING PRIOR TO INSTALLATION.
09-M17	EXTEND FLUE AND COMBUSTION AIR THROUGH WALL TO EXTERIOR. SLEEVE PENETRATIONS AND SEAL WEATHERTIGHT. REFER TO FURNACE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR FLUE AND COMBUSTION VENTING REQUIREMENTS AND TERMINATION DETAILS.
09-M20	REBALANCE EXISTING DIFFUSER/GRILLE TO CFM SHOWN.
09-M22	CONNECT NEW OA INTAKE DUCT TO EXISTING LOUVER PLENUM. BALANCE OA INTAKE TO 200 CFM.
09-M23	ROUTE RETURN DUCT UP THROUGH SPACE IN STRUCTURE. OFFSET DUCT AROUND EXISTING PIPING AS REQUIRED.
09-M24	EXISTING DUCT IS CAPPED.
09-M25	BALANCE OA BRANCH TO 100 CFM.
09-M26	BALANCE OA BRANCH TO 150 CFM.
09-M27	EXTEND LOUVER PLENUM AS REQUIRED FOR CONNECTION TO NEW VENTILATION DUCT.



NORTH

A6 BASEMENT MECHANICAL DUCTWORK PLAN
1/8" = 1'-0"

NOTE:

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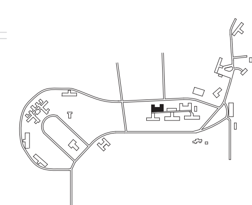
DUCT ROUTING IS BASED ON RECORD DRAWINGS AND DIFFUSER LOCATIONS ON SITE. FIELD VERIFY LOCATION OF DUCTWORK PRIOR TO PERFORMING WORK.

AIRFLOWS SHOWN ON PLANS ARE ASSUMED AIRFLOWS BASED ON EXISTING RECORD DRAWINGS.

FLUE AND COMBUSTION TERMINATION DUCTWORK TO BE TERMINATED AT LEAST 4'-0" ABOVE GRADE (TYP.).



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BASEMENT MECHANICAL DUCTWORK PLAN

09-M200

KEYNOTES

KEY	NOTE
09-M03	NEW ELECTRIC UNIT HEATER TO BE SURFACE MOUNTED ON WALL PER MANUFACTURER'S INSTRUCTIONS. MOUNT UNIT HEATERS BOTTOM TO BE APPROX 0'-6" AFF.
09-M04	ACCU TO BE WALL MOUNTED PER MANUFACTURER'S INSTRUCTIONS WITH MANUFACTURER PROVIDED MOUNTING BRACKETS.
09-M06	REFER TO DETAIL G5 ON SHEET M500 FOR FIRE DAMPER DETAIL.
09-M08	INSTALL SUPPLY AND RETURN DUCTS THROUGH EXISTING OPENING FROM DEMOLISHED LOUVER. SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND SEALING REQUIREMENTS.
09-M10	NEW AHU TO BE GROUND MOUNTED ON NEW EQUIPMENT PAD.
09-M11	NEW ELECTRIC REHEAT VAV TO BE INSTALLED IN THE EXISTING MECHANICAL ROOMS. EXISTING OA LOUVER PENETRATION TO BE RE-USED TO ROUTE DUCTWORK OUTSIDE.
09-M19	NEW RETURN DUCTWORK TO DRAW AIR FROM EXISTING PLENUM RETURN DUCTWORK AND MECHANICAL ROOM. TERMINATE RA OPENING IN ROOM WITH 3/4" HARDWARE CLOTH.
09-M20	REBALANCE EXISTING DIFFUSER/GRILLE TO CFM SHOWN.

NOTE:

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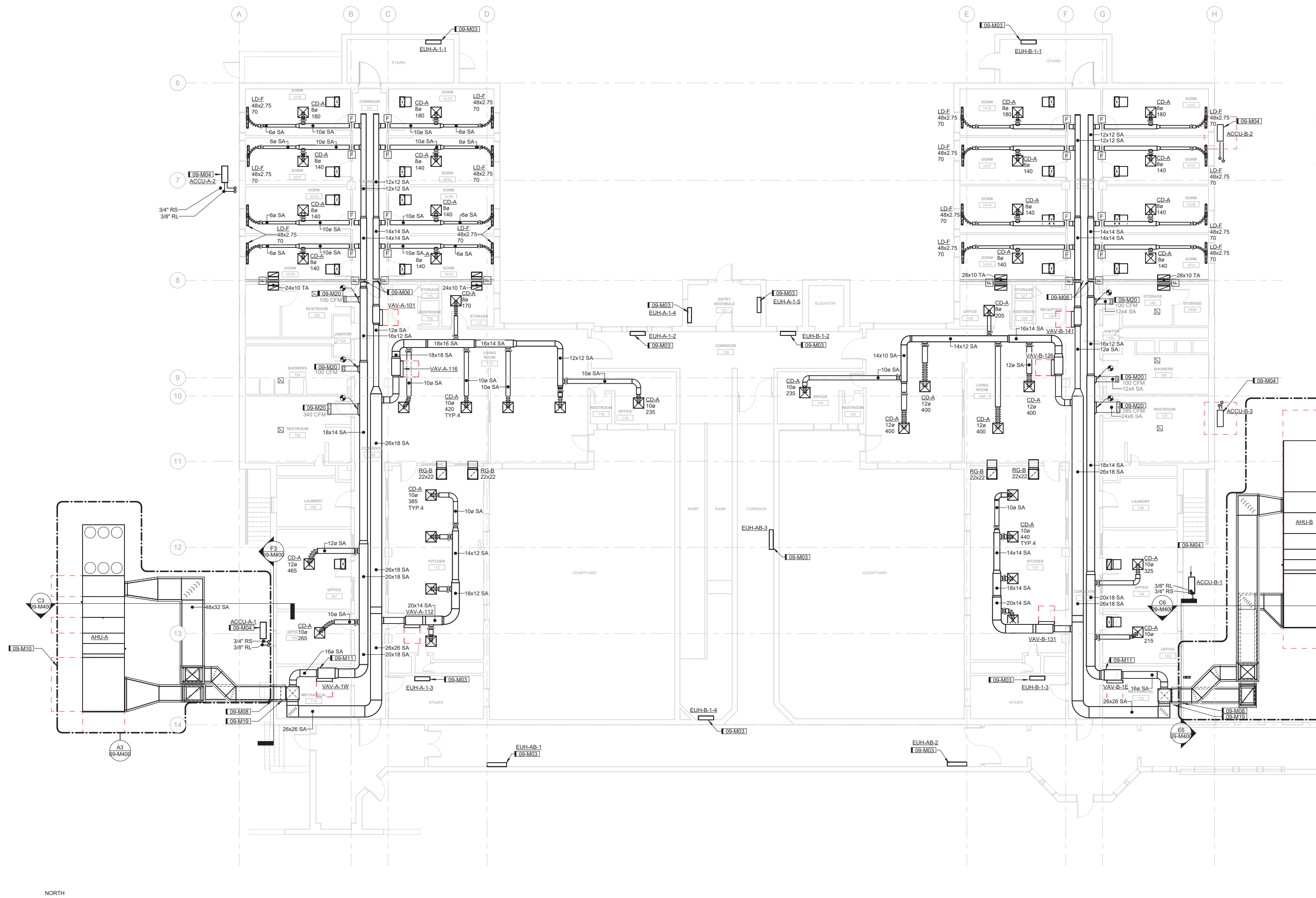
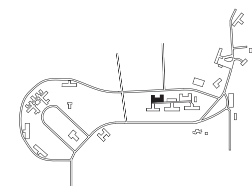
AIRFLOWS SHOWN ON PLANS ARE ASSUMED AIRFLOWS BASED ON EXISTING RECORD DRAWINGS.



A6 FIRST FLOOR MECHANICAL DUCTWORK PLAN
1/8" = 1'-0"



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

FIRST FLOOR MECHANICAL DUCTWORK PLAN

09-M201

KEYNOTES

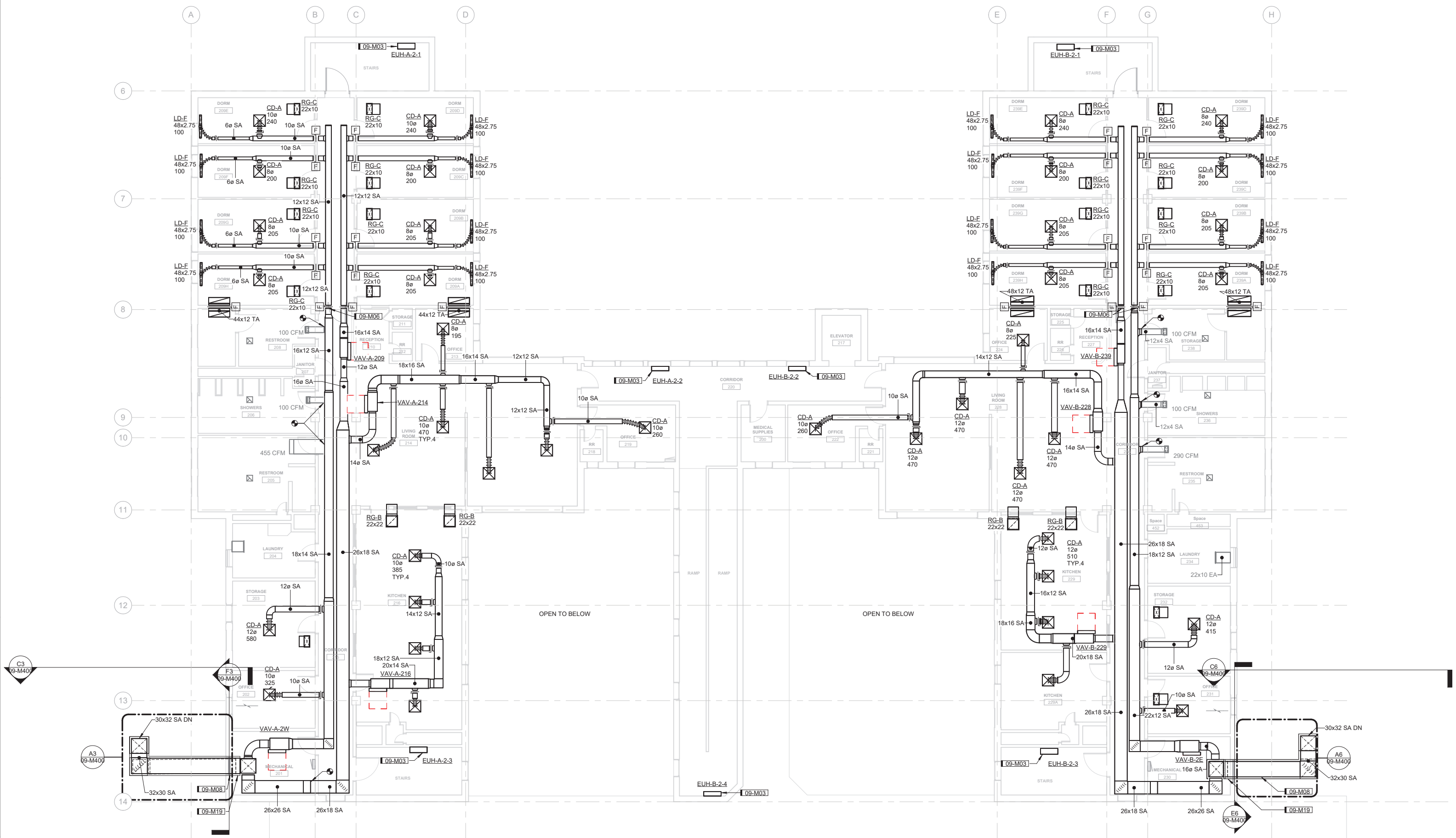
KEY	NOTE
09-M03	NEW ELECTRIC UNIT HEATER TO BE SURFACE MOUNTED ON WALL PER MANUFACTURER'S INSTRUCTIONS. MOUNT UNIT HEATERS BOTTOM TO BE APPROX 0'-6" AFF.
09-M06	REFER TO DETAIL G5 ON SHEET M500 FOR FIRE DAMPER DETAIL.
09-M08	INSTALL SUPPLY AND RETURN DUCTS THROUGH EXISTING OPENING FROM DEMOLISHED LOUVER. SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND SEALING REQUIREMENTS.
09-M19	NEW RETURN DUCTWORK TO DRAW AIR FROM EXISTING PLENUM RETURN DUCTWORK AND MECHANICAL ROOM. TERMINATE RA OPENING IN ROOM WITH 3/4" HARDWARE CLOTH.

NOTE:

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

DUCT ROUTING IS BASED ON RECORD DRAWINGS AND DIFFUSER LOCATIONS ON SITE. FIELD VERIFY LOCATION OF DUCTWORK PRIOR TO PERFORMING WORK.

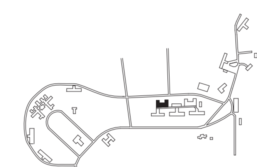
AIRFLOWS SHOWN ON PLANS ARE ASSUMED AIRFLOWS BASED ON EXISTING RECORD DRAWINGS.



NORTH

A6 SECOND FLOOR MECHANICAL DUCTWORK PLAN

1/8" = 1'-0"



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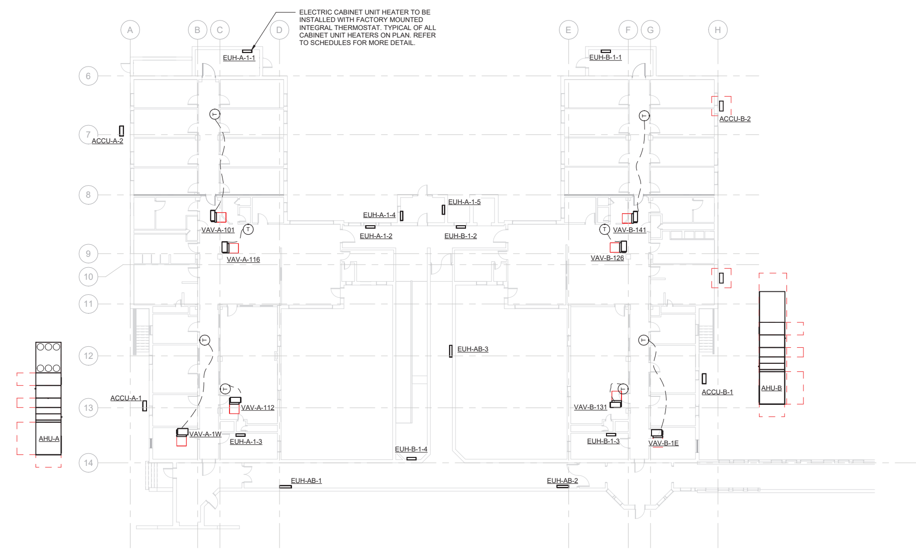
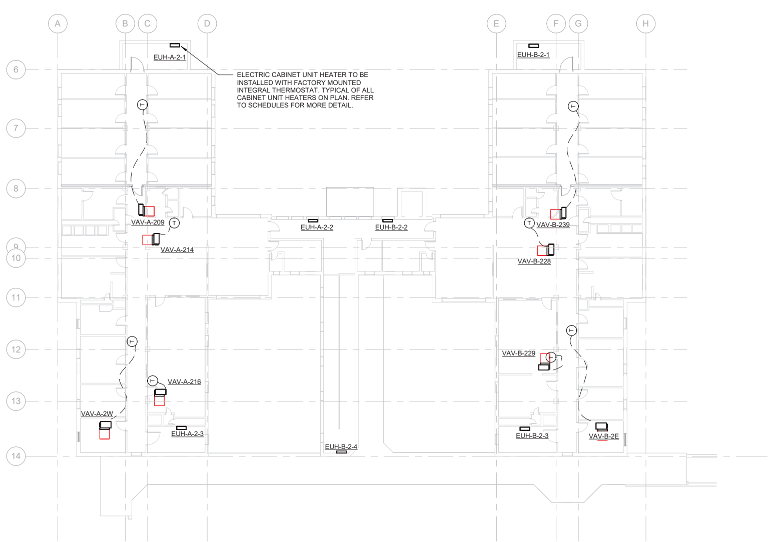
SECOND FLOOR MECHANICAL DUCTWORK PLAN

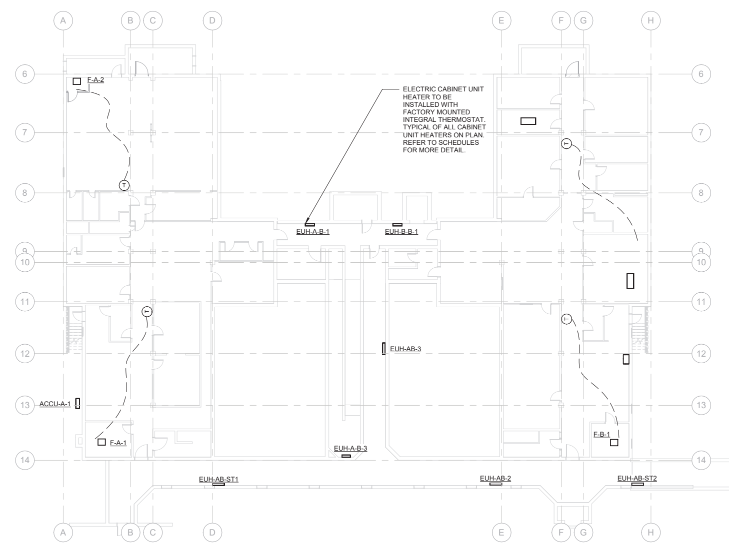


NORTH

D4 FIRST FLOOR THERMOSTAT PLAN

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





NORTH

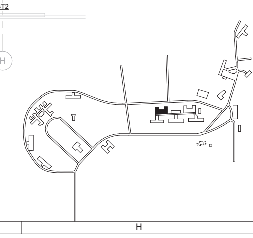
A6 SECOND FLOOR THERMOSTAT PLAN

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

NORTH

D6 BASEMENT THERMOSTAT PLAN

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



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THERMOSTAT PLAN

09-M300

NOTE:

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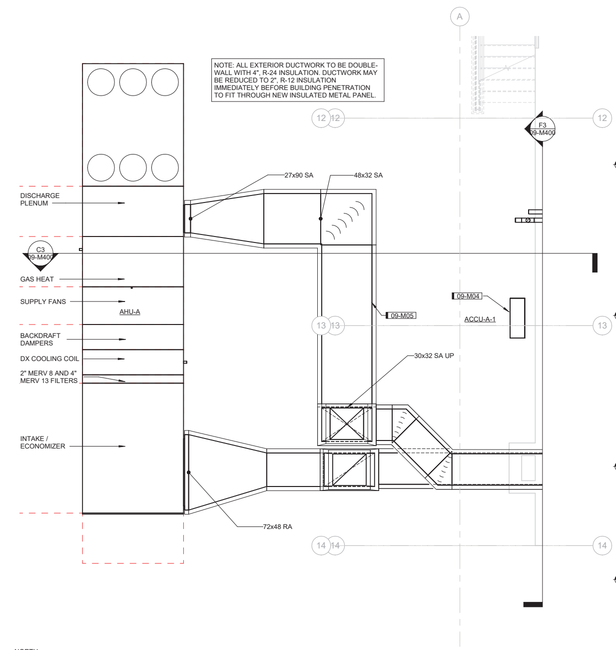
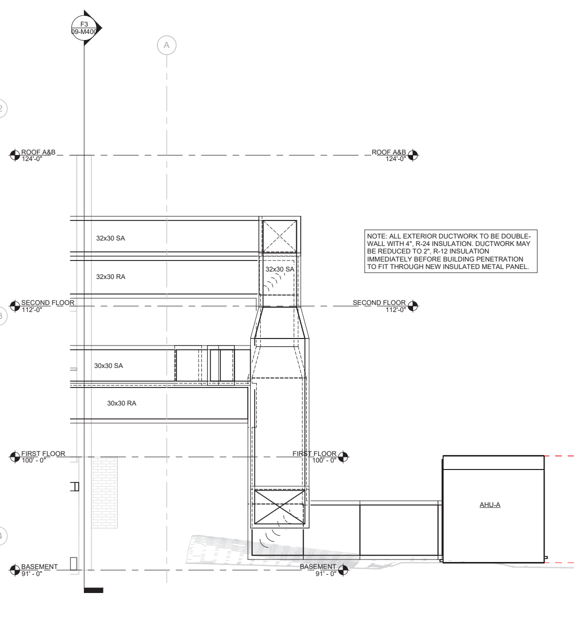
KEYNOTES

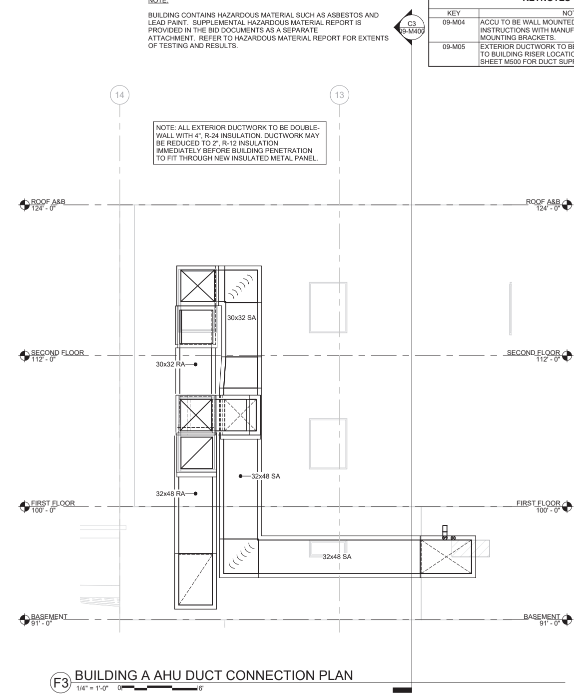
KEY	NOTE
09-M04	ACCU TO BE WALL MOUNTED PER MANUFACTURER'S INSTRUCTIONS WITH MANUFACTURER PROVIDED MOUNTING BRACKETS.
09-M05	EXTERIOR DUCTWORK TO BE ROUTED ALONG GROUND TO BUILDING RISER LOCATION. REFER TO DETAIL E6 ON SHEET M500 FOR DUCT SUPPORT DETAIL.



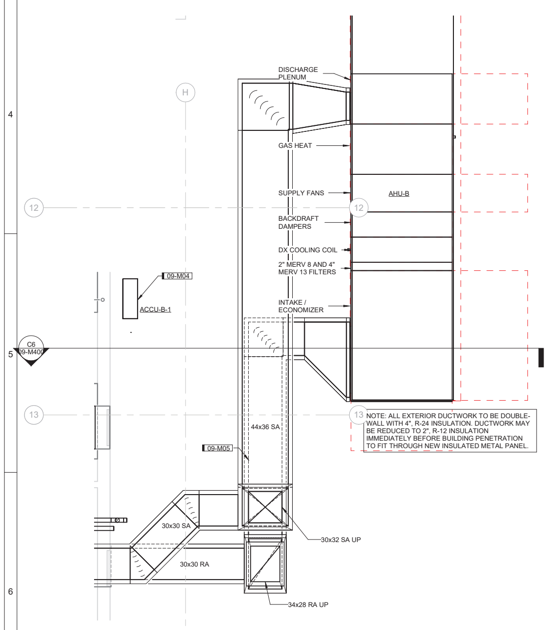
A3 BUILDING A AHU MECHANICAL PLAN
1/4" = 1'-0"



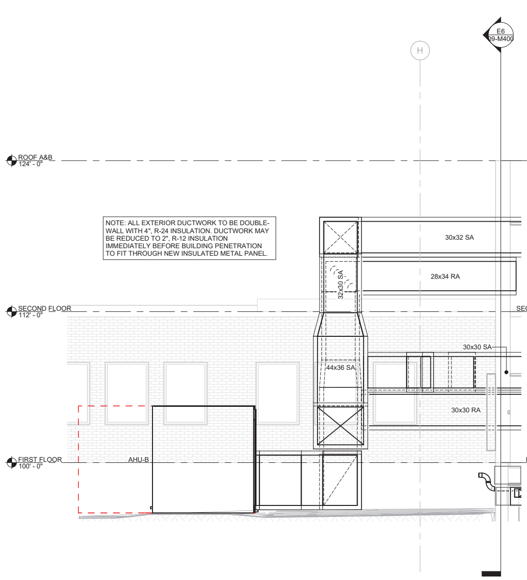
C3 BUILDING A AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"



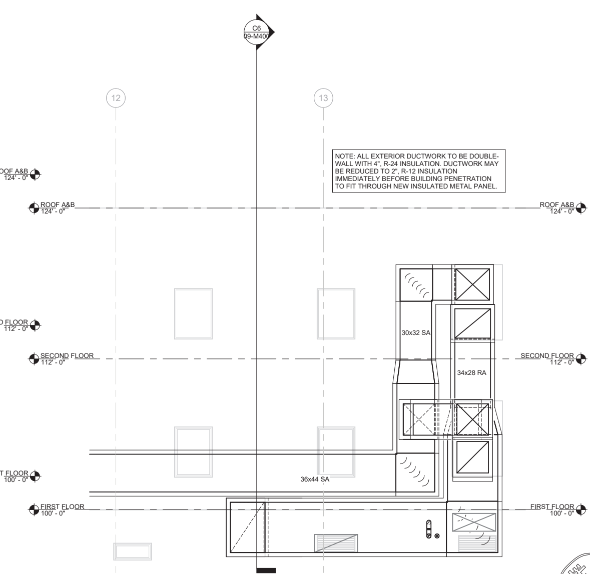
F3 BUILDING A AHU DUCT CONNECTION PLAN
1/4" = 1'-0"



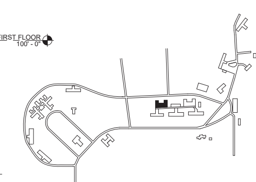
A6 BUILDING B AHU MECHANICAL PLAN
1/4" = 1'-0"



C6 BUILDING B AHU DUCT RISER & WALL PENETRATION PLAN
1/4" = 1'-0"



E6 BUILDING B AHU DUCT CONNECTION PLAN
1/4" = 1'-0"



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BUILDING A & B ENLARGED AHU PLANS

09-M400

Autodesk Revit 2022

NOTE:

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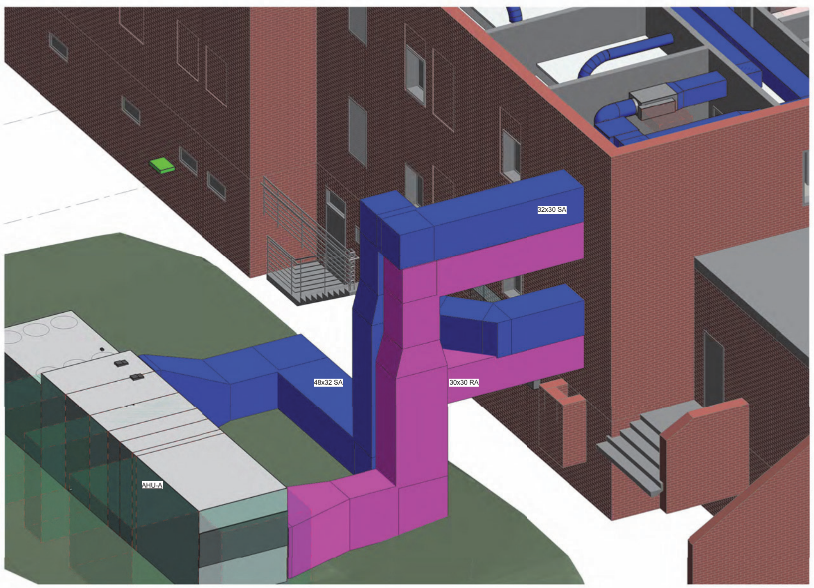
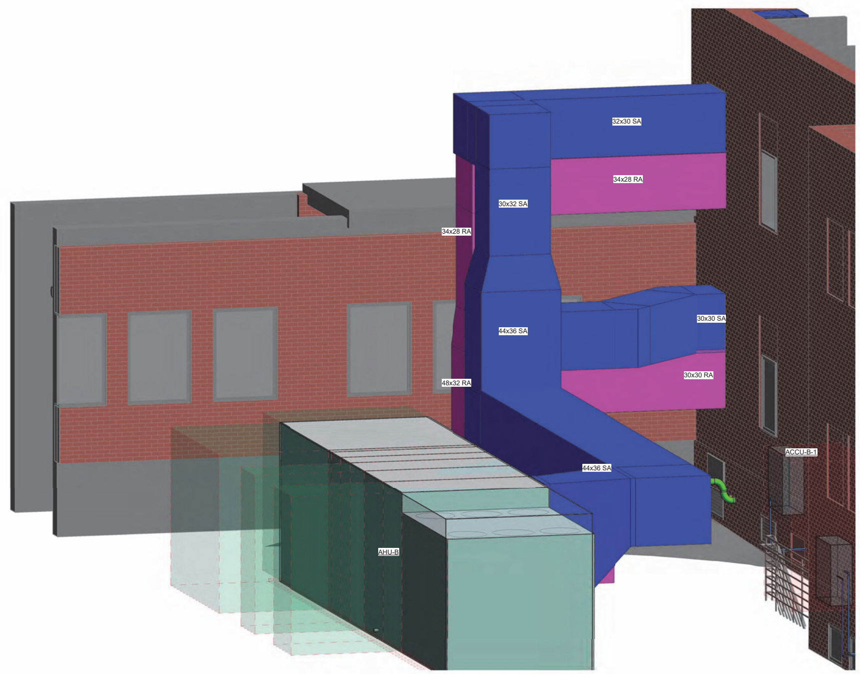
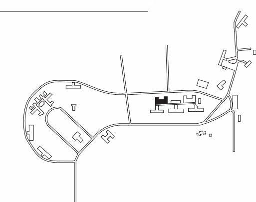


A6 BUILDING A AHU ISOMETRIC VIEW
NOT TO SCALE

NOTE: ALL EXTERIOR DUCTWORK TO BE DOUBLE-WALL WITH 4", R-24 INSULATION. DUCTWORK MAY BE REDUCED TO 2", R-12 INSULATION IMMEDIATELY BEFORE BUILDING PENETRATION TO FIT THROUGH NEW INSULATED METAL PANEL.



D6 BUILDING B AHU ISOMETRIC VIEW
NOT TO SCALE



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BUILDING A & B
3D SECTION
VIEWS

09-M401

Autodesk Docs://IA DAS - WRC Projects/Linden-MEP-R22_Master.rvt
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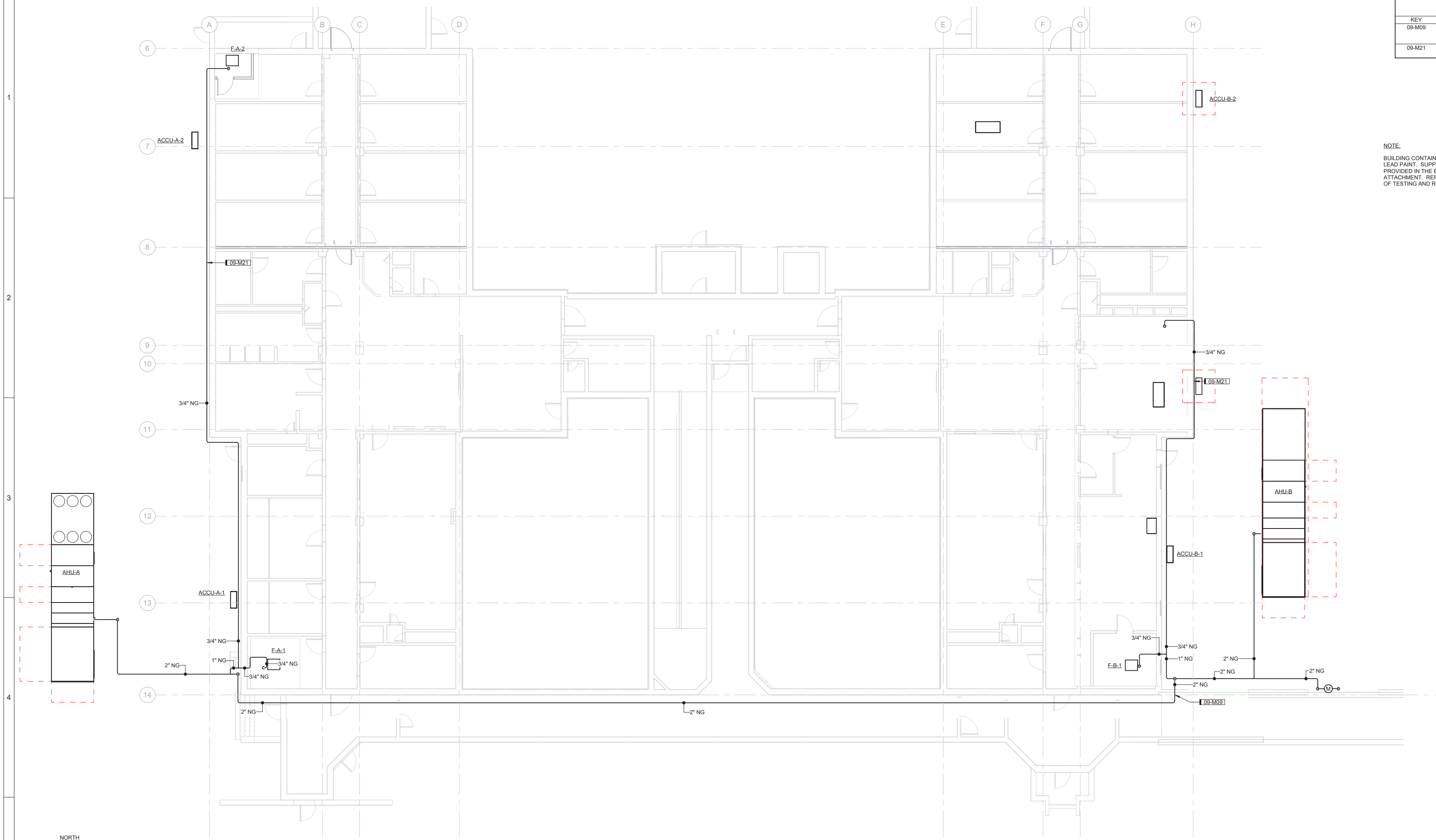
Autodesk Revit 2022



KEYNOTES	
KEY	NOTE
09-M09	ROUTE NATURAL GAS PIPING UP TO CORRIDOR ROOF. ROUTE PIPING ON CORRIDOR ROOF TO SERVE EQUIPMENT IN ACADEMY A.
09-M21	ROUTE NATURAL GAS PIPING ALONG EXTERIOR OF BUILDING.

NOTE:

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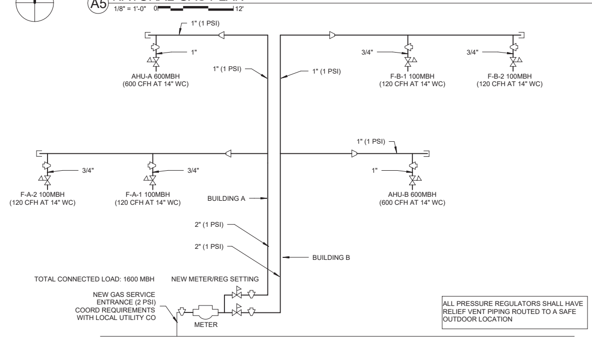
NORTH

A5 NATURAL GAS PLAN
1/8" = 1'-0" 0 12'



ALL PRESSURE REGULATORS SHALL HAVE RELIEF VENT PIPING ROUTED TO A SAFE OUTDOOR LOCATION

A6 Gas Piping Schematic
NOT TO SCALE

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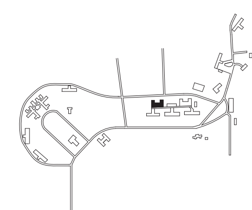
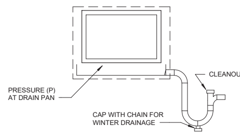


BUILDING A & B NATURAL GAS PLAN

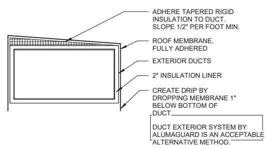
09-M402

CONDENSATE DRAIN PIPE SCHEDULE	
MINIMUM PIPE SIZE	EQUIPMENT CAPACITY
3/4"	UP TO 3 TONS OF REFRIGERATION
1"	OVER 3 TONS AND UP TO 20 TONS OF REFRIGERATION
1 1/4"	OVER 20 TONS AND UP TO 90 TONS OF REFRIGERATION

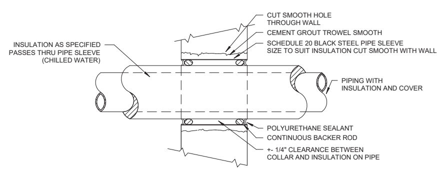
NOTE:
1. PIPING SHALL SLOPED IN THE DIRECTION OF FLOW AT 1/8" PER FOOT MINIMUM.
2. PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE COILS.
3. DRIAN LINES SHALL BE RUN FULL SIZE (MINIMUM) FROM THE DRAIN PAN CONNECTION. COORDINATE SIZE REQUIREMENTS WITH SCHEDULE ABOVE.
4. "TRAP DEPTH" AND "THE DISTANCE BETWEEN THE TRAP AND TRAP OUTLET" SHALL BE TWICE (MINIMUM) THE STATIC PRESSURE IN THE DRAIN PAN SECTION.



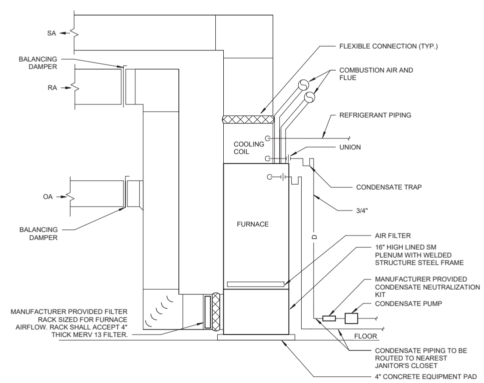
B3 COOLING COIL CONDENSATE DRAIN PIPING DETAIL
NOT TO SCALE



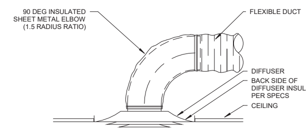
B4 EXTERIOR EXPOSED DUCTWORK DETAIL
NOT TO SCALE



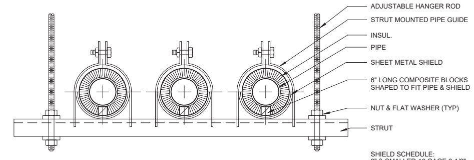
B5 EXTERIOR WALL PIPE PENETRATION DETAIL
NOT TO SCALE



B6 TYPICAL FURNACE INSTALLATION SCHEMATIC
NOT TO SCALE



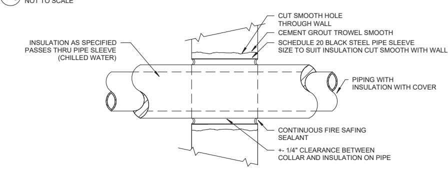
E2 DIFFUSER CONNECTION DETAIL
NOT TO SCALE



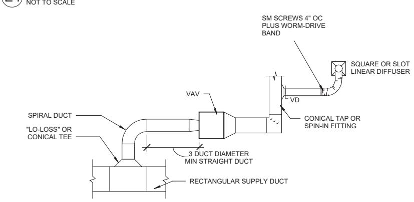
SHIELD SCHEDULE:
2" & SMALLER-16 GAGE 2-1/2" TO 6"-14 GAGE 8" & LARGER-12 GAGE LENGTH OF SHIELD TO BE AT LEAST 6" LONGER THAN THE OUTSIDE DIA. OF THE INSULATION

NOTES:
1. SIZE STRUT AND CLAMP TO ADEQUATELY SUPPORT LOAD
2. STRUT SHALL BE EPOXY PAINTED.

E3 TRAPEZE TYPE HANGER DETAIL
NOT TO SCALE

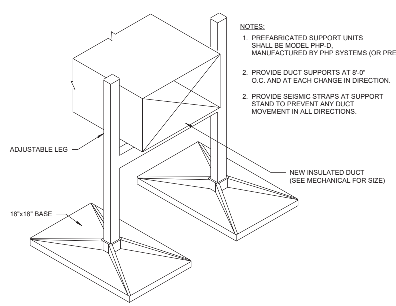


E4 INTERIOR FIRE RATED WALL PIPE PENETRATION DETAIL
NOT TO SCALE

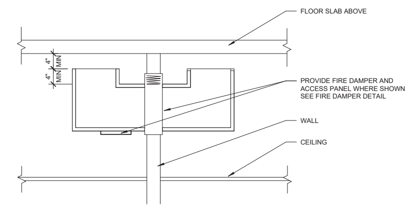


E5 TYPICAL VAV BOX DUCTWORK
NOT TO SCALE

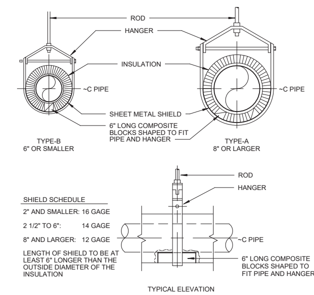
NOTES:
1. PREFABRICATED SUPPORT UNITS SHALL BE MODEL PHP-D, MANUFACTURED BY PHP SYSTEMS (OR PRE-APPROVED EQUAL).
2. PROVIDE DUCT SUPPORTS AT 8'-0" O.C. AND AT EACH CHANGE IN DIRECTION.
3. PROVIDE SEISMIC STRAPS AT SUPPORT STAND TO PREVENT ANY DUCT MOVEMENT IN ALL DIRECTIONS.



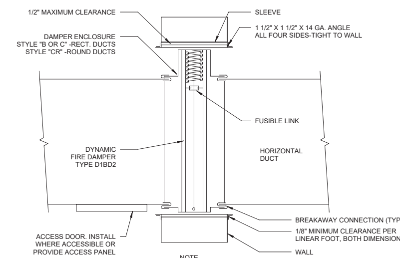
E6 DUCT SUPPORT STAND
NOT TO SCALE



G2 TRANSFER DUCT WITH FIRE DAMPER DETAIL
NOT TO SCALE

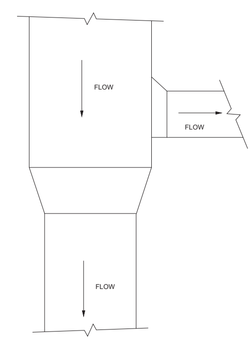


G3 INSULATED PIPE HANGER DETAIL
NOT TO SCALE



NOTE
PROVIDE THIN-LINE TYPE FIRE DAMPERS WITH MAXIMUM 2" FRAMES TYPE IBDT2 FOR ALL SIDEWALL GRILLES AND TRANSFER GRILLES MOUNTED IN FIRE WALLS.

G5 FIRE DAMPER DETAIL-HORIZONTAL DUCT
NOT TO SCALE



G6 SUPPLY DUCTWORK-DIVERGING FLOW-BRANCH LESS THAN 50% MAIN
NOT TO SCALE

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MECHANICAL DETAILS

09-M500

POINTS MATRIX - UH - ELECTRIC

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
ZONE SETPOINT ADJUST	x										x
ZONE TEMP	x								x		x
ZONE OVERRIDE			x						x		x
HEATING SETPOINT					x				x		x
HEATING STAGE 1						x			x		
HEATING STAGE 2						x			x		
SCHEDULE								x			
HIGH ZONE TEMP										x	
LOW ZONE TEMP										x	
TOTALS	2	0	1	0	1	2	0	1	5	2	4
	TOTAL HARDWARE (3)				TOTAL SOFTWARE (11)						

1. ELECTRIC UNIT HEATER

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 70°F (ADJ.).
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 65°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN:
THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT, UNLESS SHUTDOWN ON SAFETIES. THE FAN SPEEDS SHALL BE INDEXED AS FOLLOWS:
- LOW SPEED SHALL RUN ANYTIME THE ZONE TEMPERATURE DROPS BELOW SETPOINT.
- HIGH SPEED SHALL RUN ANYTIME THE ZONE TEMPERATURE DROPS EVEN FURTHER BELOW SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

THE FAN SHALL RUN FOR A USER DEFINED PERIOD OF TIME AFTER THE HEATING ELEMENT IS INDEXED OFF TO DISSPATE HEAT OFF THE HEATING ELEMENT.

ELECTRIC HEATING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

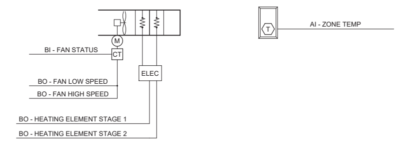
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

G2 SEQUENCE - UH - ELECTRIC
NOT TO SCALE



G3a CONTROLS SCHEMATIC - UH - ELECTRIC
NOT TO SCALE

POINTS LIST - GAS FURNACE

POINT NAME	AI	AO	BI	BO	AV	BV	TREND	ALARM	SHOW ON GRAPHIC
ZONE TEMPERATURE	x						x	x	x
ZONE HUMIDITY	x						x	x	x
ZONE SETPOINT ADJUST	x								x
DISCHARGE AIR TEMPERATURE	x						x	x	x
MIXED AIR DAMPER				x			x		x
ECONOMIZER DAMPER				x			x		x
SUPPLY FAN STATUS				x			x	x	x
SUPPLY FAN COMMAND			x					x	x
COOLING SETPOINT					x		x		x
COOLING MODE						x	x		x
HEATING SETPOINT					x		x		x
HEATING MODE						x	x		x
SCHEDULE									x
TOTALS	4	0	1	3	2	2	10	5	13
	TOTAL HARDWARE (12)						TOTAL SOFTWARE (28)		

1. SEQUENCE OF OPERATIONS: GAS FURNACE, DX COOLING SYSTEM

THERMOSTAT CONTROLLED OPERATIONS

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 75°F (ADJ.) COOLING SETPOINT
  - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 78°F (ADJ.) COOLING SETPOINT.
  - A 65°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR. THE SETPOINT ADJUSTMENT RANGE SHALL BE LIMITED BETWEEN THE EFFECTIVE TEMPERATURE RANGE OF 68F-76F. ZONE SETPOINT ADJUSTMENT SHALL OVERRIDE TEMPERATURE FOR 2 HOURS (ADJ.). AFTER TIME EXPIRES ZONE SETPOINT RETURNS TO SCHEDULED SETPOINT.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR 2 HOURS (ADJ.). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULED SETPOINT.

SUPPLY FAN: ON - OFF
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS IN OCCUPIED MODE. THE SPEED OF THE SUPPLY FAN SHALL BE CONTROLLED BY THE FURNACE CONTROLLER. THE OUTDOOR AIR DAMPER SHALL BE OPEN ANYTIME THE SUPPLY FAN IS IN OPERATION.

COOLING OPERATION:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A TIME DELAY BETWEEN STARTUP OF THE ACCU AND SHUTDOWN OF THE ACCU. INTENTION IS FOR THIS TO BE DONE VIA THE CONTROL BOARD. THIS CAN BE DONE VIA THE THERMOSTAT AS WELL.

ZONE HUMIDITY:
THE CONTROLLER SHALL MONITOR THE ZONE HUMIDITY.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE HUMIDITY: IF THE ZONE HUMIDITY IS GREATER THAN 70% (ADJ.).
- LOW ZONE HUMIDITY: IF THE ZONE HUMIDITY IS LESS THAN 35% (ADJ.).

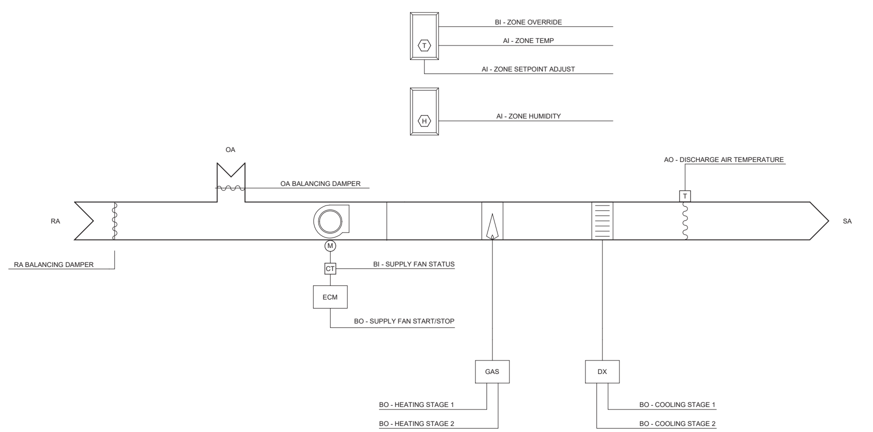
DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE ROOM AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN THE ROOM AIR HUMIDITY AT OR BELOW 60% RH (ADJ.). DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE UNIT IS IN OCCUPIED MODE. COOLING SYSTEM IS TO BE ALLOWED TO COOL 3°F BELOW SETPOINT TO MAINTAIN ROOM HUMIDITY SETPOINT.

HARD WIRED SAFETIES

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS. OA DAMPER SHALL CLOSE.

FURNCACE CONTROL BOARD OPERATIONS

GAS HEATING STAGES:
THE INTERNAL FURNACE CONTROLLER SHALL CONTROL THE BURNER STAGING OPERATIONS.



B6 GAS FURNACE CONTROLS SCHEMATIC
NOT TO SCALE

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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

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MECHANICAL CONTROL

09-M501

1. AHU DX GAS

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.

EMERGENCY SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL.

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

HIGH STATIC SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

LOW STATIC SHUTDOWN:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN LOW STATIC SHUTDOWN SIGNAL.

RETURN AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

SUPPLY AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

AHU OPTIMAL START:
THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE TEMPERATURES.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

SUPPLY AIR DUCT STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW MNAUFACTURER'S REQUIRED MINIMUM DX COIL VELOCITY. COORDINATE THE MINIMUM FAN SPEED WITH THE MANUFACTURER. THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED UPON THE POSITION OF THE ZONE DAMPERS, WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN.
- THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE SET BASED ON THE TESTING AND BALANCING CONTRACTOR'S RECOMMENDATIONS. (ADJ.).
- IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM SETPOINT BASED ON THE TESTING AND BALANCING CONTRACTOR'S RECOMMENDATIONS. (ADJ.).
- AS ONE OR MORE DAMPERS NEARS THE WIDE OPEN POSITION, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM SETPOINT BASED ON THE TESTING AND BALANCING CONTRACTOR'S RECOMMENDATIONS. (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS.

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:
- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.).
- AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.).
- AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 65°F (ADJ.) .

IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET BASED ON THE AVERAGE REHEAT PERCENTAGE.
- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.). WITH AN AVERAGE REHEAT PERCENTAGE OF 10%.
- AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A SETPOINT OF 70°F (ADJ.) AT AN AVERAGE REHEAT PERCENTAGE OF 50%.
- AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A SETPOINT OF 90°F (ADJ.) WITH AN AVERAGE REHEAT PERCENTAGE OF 90%.

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 95°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RELIEF FAN:
THE RELIEF FAN SHALL MODULATE TO MAINTAIN THE BUILDING PRESSURE SETPOINT IN THE FOLLOWING STAGES.
- STAGE 1: RELIEF FAN OFF. RELIEF DAMPER CLOSED. (LOW BUILDING PRESSURE)
- STAGE 2: RELIEF FAN OFF. RELEIF DAMPER OPEN. (FIRST STAGE OF BUILDING PRESSURE CONTROL OR MAINTAIN BUILDING PRESSURE).
- STAGE 3: RELIEF FAN ON. RELIEF DAMPER OPEN. (HIGH BUILDING PRESSURE OR MAINTAIN BUILDING PRESSURE)

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- RELIEF FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RELIEF FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE EXHAUST FAN TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.02IN H2O (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE RETURN AIR PLENUM STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE RETURN AIR PLENUM STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

RETURN AIR CARBON DIOXIDE (CO2) CONCENTRATION MONITORING:
THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 CONCENTRATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR CARBON DIOXIDE CONCENTRATION: IF THE RETURN AIR CO2 CONCENTRATION IS GREATER THAN 1500PPM (ADJ.) FOR LONGER THAN 20MIN (ADJ.) WHEN THE UNIT IS RUNNING.

RETURN AIR HUMIDITY:
THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR ECONOMIZER CONTROL OR HUMIDITY CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJ.).

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 80°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 60% RH (ADJ.). DEHUMIDIFICATION SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON

HOT GAS REHEAT SHALL MODULATE TO MAINTAIN RA HUMIDITY SETPOINT OF 60% RH (ADJ.).

COOLING STAGES:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ECONOMIZER IS DISABLED OR FULLY OPEN.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

GAS HEATING STAGES:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE COOLING IS NOT ACTIVE.

THE HEATING STAGES SHALL RUN FOR FREEZE PROTECTION WHENEVER:
- SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.) FOR LONGER THAN 60 SECONDS (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.
HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

ECONOMIZER:
THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

THE ECONOMIZER SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
- AND THE SUPPLY FAN STATUS IS ON.

THE ECONOMIZER SHALL CLOSE WHENEVER:
- MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- OR THE FREEZESTAT (IF PRESENT) IS ON.
- OR ON LOSS OF SUPPLY FAN STATUS.

PREFILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

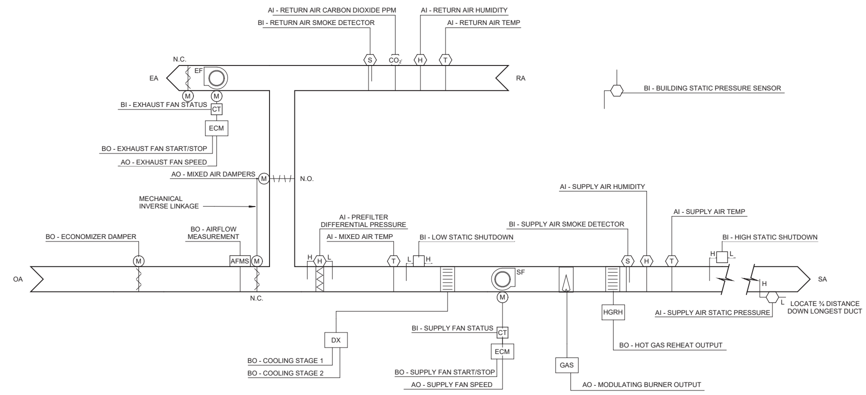
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL OR PREHEATING CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 85°F (ADJ.).
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

MIXED AIR DAMPER:
THE MIXED AIR DAMPER SHALL MODULATE INVERSELY WITH THE OA DAMPER.

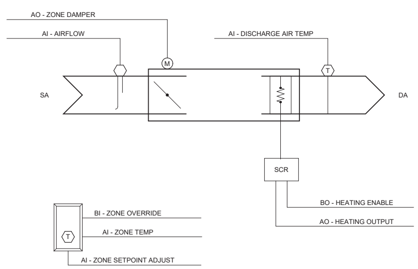
THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF.



D3 AHU CONTROLS SCHEMATIC - RF DX GAS
NOT TO SCALE

POINTS MATRIX - AHU WITH (DX & GAS)

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
FINAL FILTER DIFFERENTIAL PRESSURE	x								x		
MIXED AIR TEMP	x								x		x
OUTSIDE AIR TEMP	x								x		x
PREFILTER DIFFERENTIAL PRESSURE	x								x		
RETURN AIR CARBON DIOXIDE PPM	x								x		x
RETURN AIR HUMIDITY	x								x		x
RETURN AIR TEMP	x								x		x
BUILDING STATIC PRESSURE	x								x		x
SUPPLY AIR HUMIDITY	x								x		x
SUPPLY AIR STATIC PRESSURE	x								x	x	x
SUPPLY AIR TEMP	x								x		x
HEAT EXCHANGER OPERATION PERCENTAGE		x							x		x
MIXED AIR DAMPERS		x							x		x
SUPPLY FAN SPEED		x							x		x
RELIEF FAN SPEED		x							x		x
MODULATING BURNER OUTPUT		x							x		x
FREEZESTAT			x						x	x	x
HIGH STATIC SHUTDOWN			x						x	x	x
RETURN AIR SMOKE DETECTOR			x						x	x	x
SUPPLY FAN STATUS			x						x		x
RELIEF FAN STATUS			x							x	x
COOLING STAGE 1				x					x		x
COOLING STAGE 2				x					x		x
HOT GAS REHEAT				x							
SUPPLY FAN START/STOP				x					x		x
RELIEF FAN START/STOP				x					x		x
DEHUMIDIFICATION SETPOINT					x				x		x
ECONOMIZER MIXED AIR TEMP SETPOINT					x				x		x
RETURN AIR CARBON DIOXIDE PPM SETPOINT					x				x		x
BUILDING STATIC PRESSURE SETPOINT					x				x		x
SUPPLY AIR STATIC PRESSURE SETPOINT					x				x		x
SUPPLY AIR TEMP SETPOINT					x				x		x
EMERGENCY SHUTDOWN						x			x	x	x
SCHEDULE								x			
HIGH MIXED AIR TEMP										x	
HIGH RETURN AIR CARBON DIOXIDE CONCENTRATION										x	
HIGH RETURN AIR HUMIDITY										x	
HIGH RETURN AIR TEMP										x	
HIGH RETURN PLENUM STATIC PRESSURE										x	
HIGH SUPPLY AIR STATIC PRESSURE										x	
HIGH SUPPLY AIR TEMP										x	
LOW MIXED AIR TEMP										x	
LOW RETURN AIR HUMIDITY										x	
LOW RETURN AIR TEMP										x	
LOW RETURN PLENUM STATIC PRESSURE										x	
LOW SUPPLY AIR STATIC PRESSURE										x	
LOW SUPPLY AIR TEMP										x	
PREFILTER CHANGE REQUIRED										x	x
SUPPLY FAN FAILURE										x	
SUPPLY FAN IN HAND										x	
RELIEF FAN FAILURE										x	
RELIEF FAN IN HAND										x	
TOTALS	11	5	5	5	6	1	0	1	31	24	31
	TOTAL HARDWARE (26)				TOTAL SOFTWARE (36)						



E4 CONTROLS SCHEMATIC - VAV - ELECTRIC REHEAT
NOT TO SCALE

POINTS MATRIX - VAV - ELECTRIC REHEAT

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
AIRFLOW	x								x		x
AIRFLOW SETPOINT	x								x		x
DISCHARGE AIR TEMP	x								x		x
ZONE SETPOINT ADJUST	x										x
ZONE TEMP	x								x		x
ZONE OVERRIDE			x						x		x
DAT HEATING LIMIT					x						
HEATING SETPOINT					x				x		x
HEATING MODE						x			x		
COOLING SETPOINT					x				x		x
COOLING MODE						x			x		
SCHEDULE								x			
HIGH DISCHARGE AIR TEMP										x	
HIGH ZONE TEMP										x	
LOW DISCHARGE AIR TEMP										x	
LOW ZONE TEMP										x	
TOTALS	6	0	1	0	3	2	0	1	10	5	8
	TOTAL HARDWARE (7)				TOTAL SOFTWARE (14)						

1. SEQUENCE OF OPERATIONS: VAV - ELECTRIC REHEAT

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 75°F (ADJ.) COOLING SETPOINT
  - A 70°F (ADJ.) HEATING SETPOINT.
- NIGHT SETBACK MODE: THE UNIT SHALL MAINTAIN
  - A 77°F (ADJ.) COOLING SETPOINT.
  - A 68°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR. THE SETPOINT ADJUSTMENT RANGE SHALL BE LIMITED BETWEEN THE EFFECTIVE TEMPERATURE RANGE OF 68F-76F. ZONE SETPOINT ADJUSTMENT SHALL OVERRIDE TEMPERATURE FOR 2 HOURS (ADJ.). AFTER TIME EXPIRES ZONE SETPOINT RETURNS TO SCHEDULED SETPOINT.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE SETPOINT USER OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR 2 HOURS (ADJ.). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

ELECTRIC REHEATING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE REHEATING TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE REHEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW SETPOINT.
- AND SUFFICIENT AIRFLOW IS PROVIDED.

REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 95°F (ADJ.).

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 110°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

ENVIRONMENTAL INDEX:
WHEN THE ZONE IS OCCUPIED, THE CONTROLLER WILL MONITOR THE DEVIATION OF THE ZONE TEMPERATURE FROM THE HEATING OR COOLING SETPOINT. THE CONTROLLER WILL ALSO MONITOR THE RELATIVE HUMIDITY AND COMPARE IT TO COMFORT CONDITIONS. THIS DATA WILL BE USED TO CALCULATE A 0 - 100% ENVIRONMENTAL INDEX WHICH GIVES AN INDICATION OF HOW WELL THE ZONE IS MAINTAINING COMFORT. THE CONTROLLER WILL ALSO CALCULATE THE PERCENTAGE OF TIME SINCE OCCUPANCY BEGAN THAT THE ENVIRONMENTAL INDEX IS 70% OR HIGHER. OPTIONALLY, A WEIGHTING FACTOR CAN BE CONFIGURED TO ADJUST THE CONTRIBUTION OF THE ZONE TO THE ROLLUP AVERAGE INDEX BASED UPON THE FLOOR AREA OF THE ZONE, IMPORTANCE OF THE ZONE, OR OTHER STATIC CRITERIA.

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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

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MECHANICAL CONTROLS

09-M502

UNIT HEATER SCHEDULE - ELECTRIC

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT
2. TO BE INSTALLED WITH MANUFACTURER'S SPECIFIED WALL MOUNTING BRACKETS
3. UNIT SHALL HAVE MANUFACTURER'S INTEGRAL TAMPER-PROOF THERMOSTAT WITH DDC INTEGRATION CAPABILITIES.
4. UNIT SHALL HAVE MANUFACTURER'S VANDAL-PROOF COVER.
5. ALL HEATERS SHALL HAVE TWO-STAGE HEAT.
6. UNIT HEATERS SHALL BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH.

MARK	AREA SERVED	CFM	ELECTRICAL DATA KW	VOLTS	PHASE	FLA	DESIGN BASIS
EUH-A-1-1	STAIRWELL 142	500	4	480	3	6	BERKO CUH935
EUH-A-1-2	CORRIDOR 121	500	4	480	3	6	BERKO CUH935
EUH-A-1-3	STAIRWELL 111	500	4	480	3	6	BERKO CUH935
EUH-A-1-4	VESTIBULE 120	500	4	480	3	6	BERKO CUH935
EUH-A-1-5	VESTIBULE 120	500	4	480	3	6	BERKO CUH935
EUH-A-2-1	STAIRWELL 143	500	4	480	3	6	BERKO CUH935
EUH-A-2-2	CORRIDOR 220	500	4	480	3	6	BERKO CUH935
EUH-A-2-3	STAIRWELL 205	500	6	480	3	8	BERKO CUH935
EUH-A-B-1	CORRIDOR B17	500	4	480	3	6	BERKO CUH935
EUH-A-B-3	SPACE 97	500	5	480	3	7	BERKO CUH935
EUH-AB-1	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-2	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-3	TUNNEL 123	1000	8	480	3	11	BERKO CUH945
EUH-AB-ST1	STEAM TUNNEL	1000	8	480	3	11	BERKO CUH945
EUH-AB-ST2	STEAM TUNNEL	1000	8	480	3	11	BERKO CUH945
EUH-B-1-1	STAIRWELL 11	500	4	480	3	6	BERKO CUH935
EUH-B-1-2	CORRIDOR 121	500	4	480	3	6	BERKO CUH935
EUH-B-1-3	STAIRWELL 12	500	4	480	3	6	BERKO CUH935
EUH-B-1-4	SPACE 103	500	4	480	3	6	BERKO CUH935
EUH-B-2-1	STAIRWELL 144	500	4	480	3	6	BERKO CUH935
EUH-B-2-2	CORRIDOR 220	500	4	480	3	6	BERKO CUH935
EUH-B-2-3	STAIRWELL 16	500	4	480	3	6	BERKO CUH935
EUH-B-2-4	RAMP 215	500	4	480	3	6	BERKO CUH935
EUH-B-B-1	CORRIDOR B17	500	4	480	3	6	BERKO CUH935

VRF INDOOR UNIT SCHEDULE

REMARKS:
1. INDOOR UNIT SHALL MAINTAIN SCHEDULED CAPACITY REGARDLESS OF OUTDOOR AIR TEMPERATURE.
2. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP.

MARK	CFM	ESP (IN WC)	COOLING DATA TOTAL MBH	HEATING DATA OUTPUT MBH	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	DESIGN BASIS	APPLICABLE REMARKS
HP-B-1	795	0.8	36	40	208	1	3	15	DAIKIN FBA36	
HP-B-2	795	0.8	36	40	208	1	3	15	DAIKIN FBA36	

ELECTRIC VAV BOX SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. PROVIDE WITH FACTORY INSTALLED DOOR INTERLOCK DISCONNECT SWITCH.
3. REFER TO PLANS FOR CONTROL BOX ORIENTATION.
4. MAXIMUM BOX HEIGHT INCLUDING CONTROL BOX NOT TO EXCEED 18"

MARK	UNIT SIZE	CFM COOLING MAX	MIN CFM	HEATING MAX	MAX NC	HEATING COIL DATA APD (IN)	AIR TEMPERATURE EAT °F	LAT °F	ELECTRICAL DATA VOLTS	PHASE	KW	MOP	MCA	DESIGN BASIS	REMARKS
VAV-A-1W	16	2160	1390	1900	24	0.1	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3
VAV-A-2W	16	2810	1365	2810	22	0.07	60	88	480	3	25	40 A	37.6 A	TITUS DESV	1,2,3
VAV-A-101	12	890	710	890	22	0.06	60	92	480	3	9	15 A	13.5 A	TITUS DESV	1,2,3,4
VAV-A-112	14	1540	370	1400	21	0.1	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-A-116	14	2310	850	1900	23	0.16	60	95	480	3	21	35 A	31.6 A	TITUS DESV	1,2,3,4
VAV-A-209	12	1250	700	1100	24	0	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4
VAV-A-214	14	2335	985	2100	24	0	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-A-216	14	1540	370	1400	21	0	60	94	480	3	15	25 A	22.6 A	TITUS DESV	1,2,3,4
VAV-B-1E	16	1915	1420	1915	17	0.09	60	93	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3
VAV-B-2E	16	2375	1295	2100	21	0.12	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3
VAV-B-126	14	2040	730	1850	23	0.1	60	94	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-B-131	14	1760	370	1600	21	0.1	60	94	480	3	17	30 A	25.6 A	TITUS DESV	1,2,3,4
VAV-B-141	12	890	690	790	22	0.1	60	94	480	3	8.5	15 A	12.8 A	TITUS DESV	1,2,3,4
VAV-B-228	14	2365	730	2100	24	0	60	95	480	3	23	35 A	34.6 A	TITUS DESV	1,2,3,4
VAV-B-229	14	2040	370	1850	21	0	60	95	480	3	20	35 A	30.1 A	TITUS DESV	1,2,3,4
VAV-B-239	12	1250	695	1100	24	0	60	95	480	3	12	20 A	18 A	TITUS DESV	1,2,3,4

VRF AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. PROVIDE SYSTEM WITH INTEGRAL DRAIN PAN HEATER VIA HOT GAS PIPING. IF ELECTRICAL PAN HEATER IS PROVIDED IN LIEU OF HOT GAS ALL ELECTRICAL CONNECTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
2. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING DEFROST OPERATION. REVERSE CYCLE DEFROST OPERATION SHALL NOT BE PERMITTED.
3. VRF SYSTEM SHALL MAINTAIN CONTINUOUS HEATING DURING OIL RETURN OPERATION.
4. PROVIDE UNIT WITH SNOW GUARDS.
5. DISCONNECT SWITCH SHALL BE PROVIDED AND INSTALLED BY E.C.
6. CIRCUIT REFRIGERANT VOLUME SHALL NOT EXCEED 20 LBS.

MARK	SYSTEM SERVED	CAPACITY (MBH)	HEATING CAPACITY (MBH)	AMBIENT TEMPERATURE (°F) DESIGN	MIN	# OF COMPRESSORS	SEER	EER2	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	REFRIGERANT TYPE	LBS	CONSTRAINTS (LESS CURB) OPERATING WEIGHT (LBS)	DESIGN BASIS
ACCU-B-2	HP-B-1	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU
ACCU-B-3	HP-B-2	36	40	95	0	1	16.9	11.8	208	1	34.6	40	R-32	8	234	DAIKIN RZA36AACJU

ENERGY RECOVERY VENTILATOR SCHEDULE

REMARKS:
1. UNIT SHALL HAVE FACTORY-MOUNTED DISCONNECT SWITCH.
2. UNIT SHALL HAVE MERV 8 FILTERS ON OA AND RA INLETS.

MARK	SUPPLY FAN DATA CFM	ESP (IN WC)	BHP	HP	EXHAUST FAN DATA CFM	ESP (IN WC)	BHP	HP	SUMMER OPERATION OUTSIDE AIR EAT (°F) DB	WB	EXHAUST AIR EAT (°F) DB	WB	TEMPERED AIR LAT (°F) DB	WB	EFFECTIVENESS	TOTAL REC MBH	WINTER OPERATION OUTDOOR AIR EAT (°F) DB	WB	EXHAUST AIR EAT (°F) DB	WB	TEMPERED AIR LAT (°F) DB	WB	EFFECTIVENESS	TOTAL REC MBH	ELECTRICAL DATA VOLTS	PHASE	MCA	MOCP	DESIGN BASIS
ERV-B-1	400	0.7	0.16	.75	400	0.7	0.22	.75	95	76	75	62	78	65	81.5	20.8	-10	-11	72	55	57	46	82	36	120	1	21	25	GREENHECK MINIVENT-750-VG

DIFFUSERS REGISTERS AND GRILLES SCHEDULE

REMARKS:
1. COORDINATE MOUNTING STYLE WITH MOUNTING SURFACE.

MARK	MATERIAL	DESCRIPTION	FACE SIZE	FACTORY FINISH	DESIGN BASIS
A	ALUMINUM	SQUARE PLAQUE	24"x24"	WHITE	TITUS OMNI
B	ALUMINUM	1/2" X 1/2" X 1/2" EGGCRATE	SEE PLANS	WHITE	TITUS 50F
C	ALUMINUM	1/2" SPACING, 45° DEFLECTION	24"x12"	WHITE	TITUS 4FL
D	ALUMINUM	AEROBLADE SUPPLY DIFFUSER WITH 3/4" BLADE SPACING	SEE PLANS	WHITE	TITUS 272FL
E	ALUMINUM	3/4" SPACING SHORT BLADE RETURN GRILLE	SEE PLANS	WHITE	TITUS 350RL
F	ALUMINUM	LINEAR SLOT DIFFUSER, 1" 1-SLOT, HIGHTHROW, SURFACE MOUNT, BORDER TYPE 22	SEE PLANS	WHITE	TITUS FL-10

AIR COOLED CONDENSING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER APPROVED EQUIVALENT.
2. TO BE WALL MOUNTED WITH MANUFACTURER APPROVED MOUNTING BRACKETS.
3. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

MARK	SYSTEM SERVED	CAPACITY (MBH)	COND AMBIENT AIR TEMP (°F)	MINIMUM OPERATING AMBIENT TEMPERATURE	NUMBER OF COMPRESSORS	SEER	EER	ELECTRICAL DATA VOLTS	PHASE	MCA	REFRIGERANT TYPE	DESIGN BASIS
ACCU-A-1	F-A-1	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010
ACCU-A-2	F-A-2	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010
ACCU-B-1	F-B-1	53.5	95	0	1	16.2	9	208	1	37.5	R-32	DAIKIN DC6VSS6010

FURNACE SCHEDULE - GAS

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT.
2. LITTLE GIANT CONDENSATE PUMP TO BE PROVIDED AND ROUTED BY MECHANICAL CONTRACTOR.
3. MOTORIZED OA DAMPER TO BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR. COORDINATE ALL ACTUATOR REQUIREMENTS WITH CONTROLS CONTRACTOR.
4. FURNACE DISCONNECT SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR.

MARK	AREA SERVED	SYSTEM SERVED	OA CFM	CFM	ESP (IN WC)	AIRFLOW DIRECTION	COOLING COIL DATA TOTAL MBH	EAT (°F) DB	WB	LAT (°F) DB	WB	MODEL	HEATING DATA EAT (°F)	LAT (°F)	INPUT MBH	MINIMUM GAS PRESSURE (IN. WC.)	AFUE	ELECTRICAL DATA HP	VOLTS	PHASE	DESIGN BASIS
F-A-1	SOUTH BUILDING A BASEMENT	ACCU-A-1	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN
F-A-2	NORTH BUILDING A BASEMENT	ACCU-A-2	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN
F-B-1	SOUTH BUILDING B BASEMENT	ACCU-B-1	200	1950	1	UPFLOW	60	80	67	58	58	CAPEA6030D3	55	100	100	14	96	1	120	1	DAIKIN DR96TC1005DN

AIR HANDLING UNIT SCHEDULE

REMARKS:
1. OR ENGINEER PRE-APPROVED EQUIVALENT
2. UNIT SHALL HAVE SINGLE POINT POWER CONNECTION, FACTORY-POWERED CONVENIENCE OUTLET, AND FACTORY MOUNTED DISCONNECT SWITCH.
3. UNIT SHALL HAVE HOT GAS REHEAT COIL
4. COOLING COIL SHALL HAVE STAINLESS STEEL DRAIN PAN.
5. UNIT SHALL HAVE 2" MERV 8 PRE-FILTER WITH DIRTY FILTER SWITCH INSTALLED AT EACH FILTER SECTION.
6. LEAD COMPRESSOR ON EACH AHU SHALL BE VARIABLE SPEED.
7. UNIT SHALL HAVE SMOKE DETECTORS PROVIDED AND INSTALLED IN THE SUPPLY AND RETURN DUCTS BY THE E.C. AND INTEGRATED INTO THE DDC AND FIRE ALARM SYSTEM.
8. MAXIMUM UNIT DIMENSIONS SHALL BE 96.5" W X 429" L X 102" H.
9. AHU TO HAVE ACCESS DOORS ON BOTH SIDES OF THE AHU.

MARK	AREA SERVED	SUPPLY FAN DATA SUPPLY CFM	MINIMUM OA (%)	SUPPLY FAN CFM	RPM	STATIC PRESSURE TOTAL (T.S.P.)	EXTERNAL (E.S.P.)	TYPE	SUPPLY FAN ELECTRICAL DATA BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	SUPPLY FAN ARRAY	RELIEF FAN DATA RELIEF FAN CFM	RPM	STATIC PRESSURE TSP	ESP	TYPE	RELIEF FAN ELECTRICAL DATA BHP (TOTAL)	HP (EACH)	VOLTS	PHASE	RELIEF FAN ARRAY	DESIGN BASIS
AHU-A	BUILDING A	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2049	2.4	1.5	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5	460	3	1X2 (2)	DAIKIN DPSA060
AHU-B	BUILDING B	15000	20	15000	1708	3.06	1.5	CENTRIFUGAL DIRECT DRIVE ECM	12.3	5.1	460	3	2X2 (4)	12500	2049	2.4	1.5	CENTRIFUGAL DIRECT DRIVE ECM	8.5	5	460	3	1X2 (2)	DAIKIN DPSA060

AIR HANDLING UNIT SCHEDULE (CONTINUED)

MARK	AREA SERVED	COOLING COIL EAT (°F) DB	WB	LAT (°F) DB	WB	APD (IN WC)	REFRIGERANT TYPE	MBH	SENSIBLE MBH	HOT GAS REHEAT MBH	EAT (°F)	LAT (°F)	APD (IN WC)	HEATING ELEMENT TYPE	EAT DB (°F)	LAT DB (°F)	APD (IN WC)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	ELECTRICAL DATA VOLTS	PHASE	MOCP	MCA	DESIGN BASIS
AHU-A	BUILDING A	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NG	45	75	0.19	600	486	460	3	150 A	130.4 A	DAIKIN DPSA060
AHU-B	BUILDING B	79	65.6	51	50.9	0.6	R-32	645	459	309	51	70	0.22	NG	45	75	0.19	600	486	460	3	150 A	130.4 A	DAIKIN DPSA060

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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

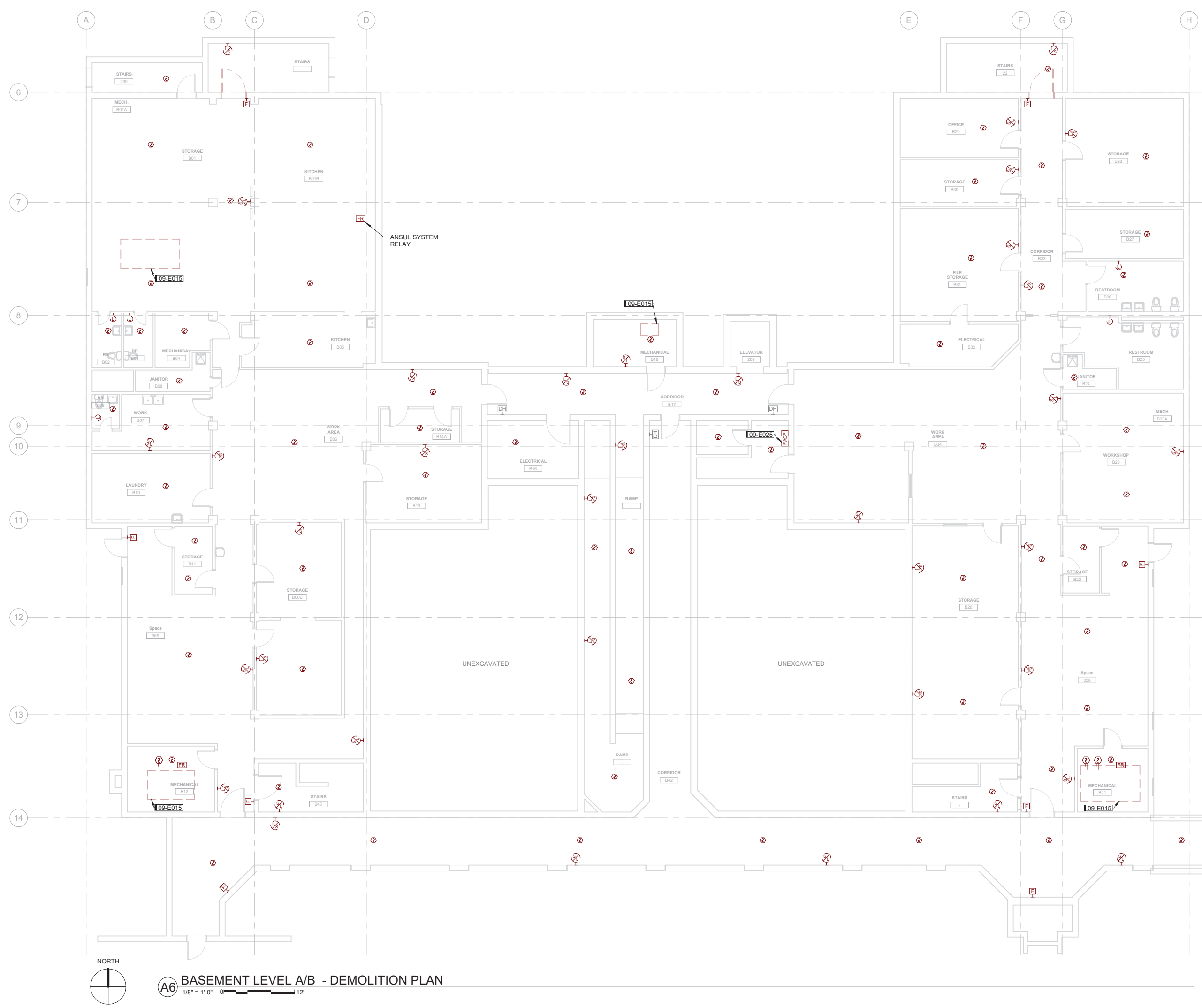
Iowa Department of Administrative Services
1251 334th St, Woodward, IA 50276

DRAWN BY	LDF
APPROVED BY	JDB
ISSUED FOR	CONSTRUCTION DOCUMENTS
ISSUE DATE	03-27-2026
PROJECT NUMBER	2240007040
FIELD BOOK	

MECHANICAL SCHEDULES

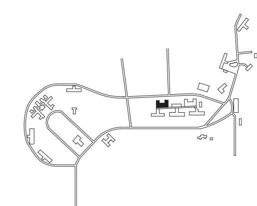
09-M600

Autodesk Revit 2022



A6 BASEMENT LEVEL A/B - DEMOLITION PLAN
1/8" = 1'-0"

KEYNOTES	
KEY	NOTE
09-E015	REMOVE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. REMOVE WIRING BACK TO ELECTRICAL PANEL.
09-E025	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN OPERATIONAL DURING CONSTRUCTION. REMOVE EXISTING DEVICES, CONDUIT TO DEVICES AND WIRING TO DEVICES AFTER NEW FIRE ALARM SYSTEM IS OPERATIONAL. FIRE ALARM PANEL TO REMAIN AS FIBER SIGNAL BOOSTER AFTER EXISTING DEVICES ARE REMOVED.



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WRC Decentralization Phase 4 & Fire Alarm Phase 3 (9279.40)

9-LINDEN A/B

Iowa Department of Administrative Services
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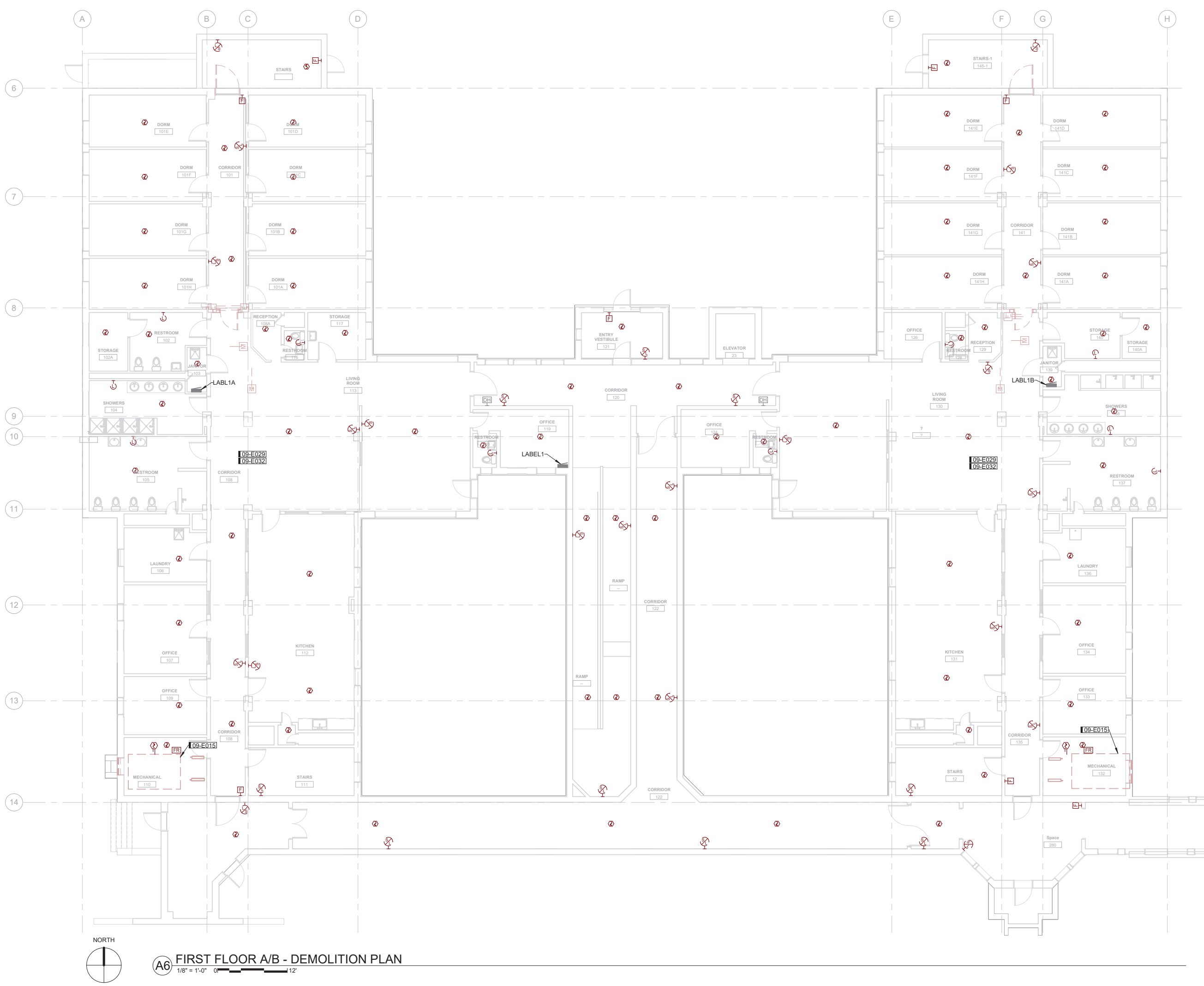
BASEMENT LEVEL A&B - DEMOLITION PLAN

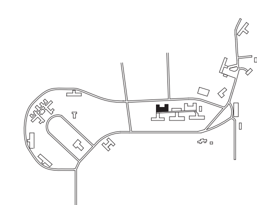
09-ED200

KEYNOTES

KEY	NOTE
09-E015	REMOVE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. REMOVE WIRING BACK TO ELECTRICAL PANEL.
09-E029	EXISTING BRANCH CIRCUITING CONDUIT AND LOW VOLTAGE WIRING ABOVE THE LAY-IN CEILING TO BE TEMPORARY SUPPORTED BY ABATEMENT CONTRACTOR. ELECTRICAL CONTRACTOR PERMANENTLY SUPPORT CONDUIT AND LOW VOLTAGE WIRING AFTER ABATEMENT CONTRACTOR COMPETES WORK. SUPPORT CABLES AND CONDUITS FROM STRUCTURE PRIOR TO FIRE PROOFING BEING INSTALLED. EXISTING PAGING WIRING AND PAGING SPEAKERS TO BE REMOVED. PAGING SYSTEM IS NO LONGER OPERATIONAL. CAMERAS TO BE REMOVED BY THE OWNER PRIOR ANY WORK BEING COMPLETED. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF CEILING REMOVAL.
09-E032	LIGHT FIXTURES IN EXISTING LAY-IN CEILING TO BE REMOVED BY ABATEMENT CONTRACTOR. EXISTING CONTROLS TO REMAIN. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CONTROLS. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF CEILING REMOVAL.



A6 FIRST FLOOR A/B - DEMOLITION PLAN
1/8" = 1'-0"



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FIRST FLOOR A&B - DEMOLITION PLAN

09-ED201