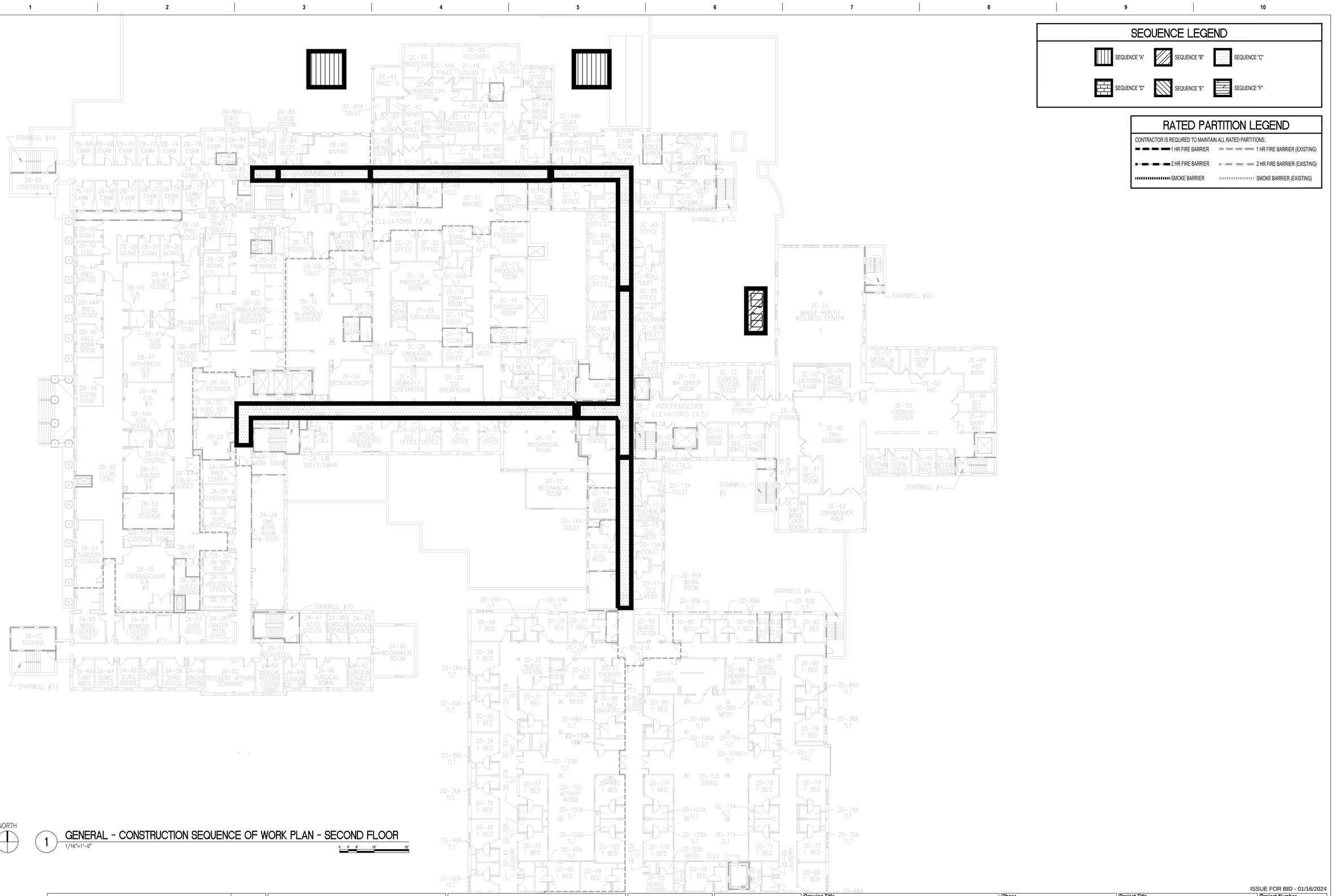

SEQUENCE LEGEND

▥	SEQUENCE "A"
▨	SEQUENCE "B"
⁚	SEQUENCE "C"
▦	SEQUENCE "D"
▧	SEQUENCE "E"
▤	SEQUENCE "F"

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

▬ ◦ ▬ ◦ ▬ 1 HR FIRE BARRIER	▬ ◦ ▬ ◦ ▬ 1 HR FIRE BARRIER (EXISTING)
▬ ◦◦ ▬ ◦◦ ▬ 2 HR FIRE BARRIER	▬ ◦◦ ▬ ◦◦ ▬ 2 HR FIRE BARRIER (EXISTING)
▮▮▮▮▮▮ SMOKE BARRIER	▮▮▮▮▮▮ SMOKE BARRIER (EXISTING)

1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - SECOND FLOOR

1/16"=1'-0"

0 4' 8' 16' 32'

ISSUE FOR BID	**01-16-24**
Revisions:	**Date:**

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Bancroft Project No: 22-113

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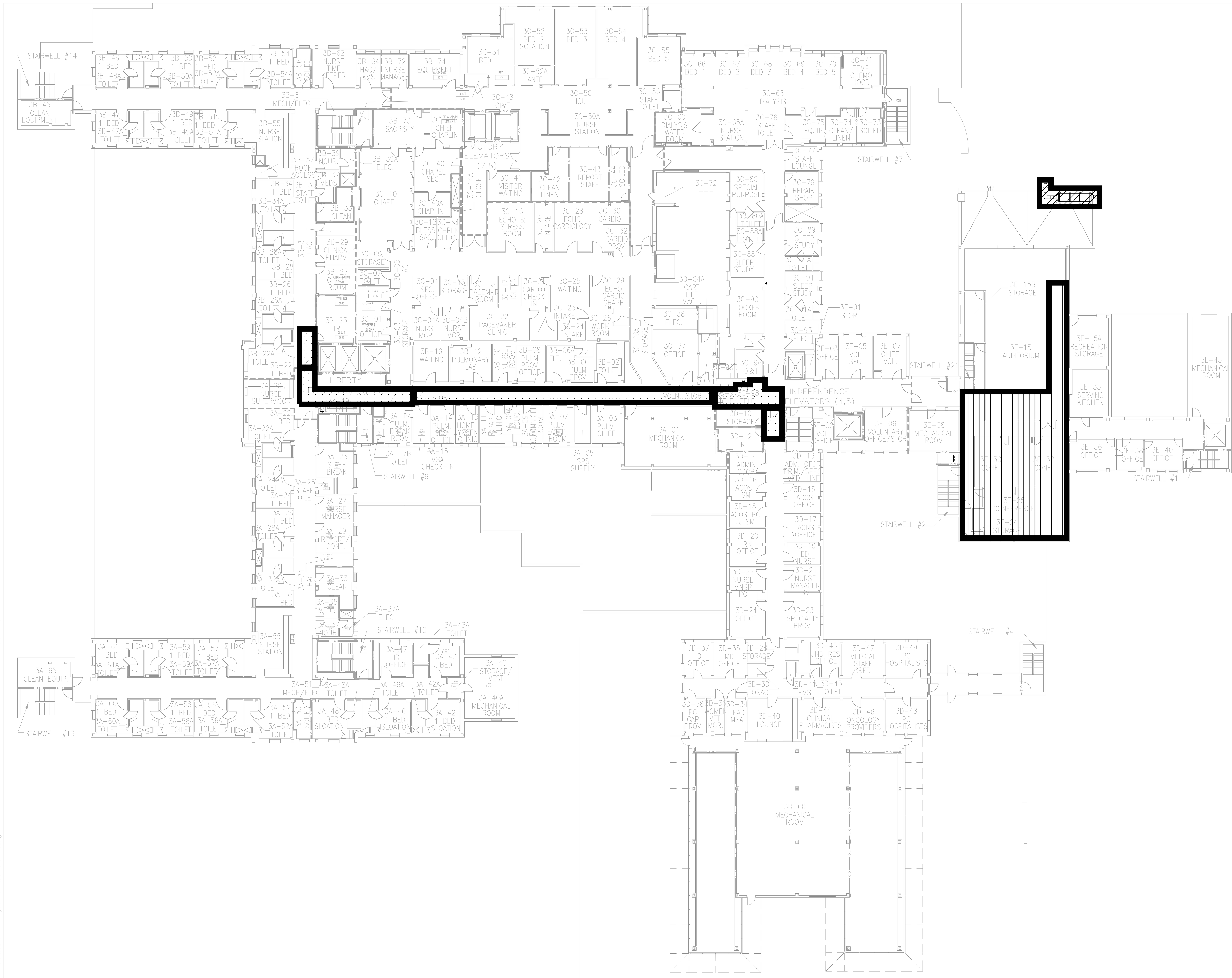
LICENSED ARCHITECT
CROTAN D. ZAKARIJA
001-022355
6/16/24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title	GENERAL - CONSTRUCTION SEQUENCE OF WORK - SECOND FLOORS
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1-9-46
Drawing Number	GI-204



SEQUENCE LEGEND

SEQUENCE "A" | SEQUENCE "B" | SEQUENCE "C"
SEQUENCE "D" | SEQUENCE "E" | SEQUENCE "F"

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)

NORTH

1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - THIRD FLOOR

1/16"=1'-0"

0 4' 8' 16' 32'

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - CONSTRUCTION SEQUENCE OF WORK - THIRD FLOORS

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: GI-205

VA FORM 08 - 6231

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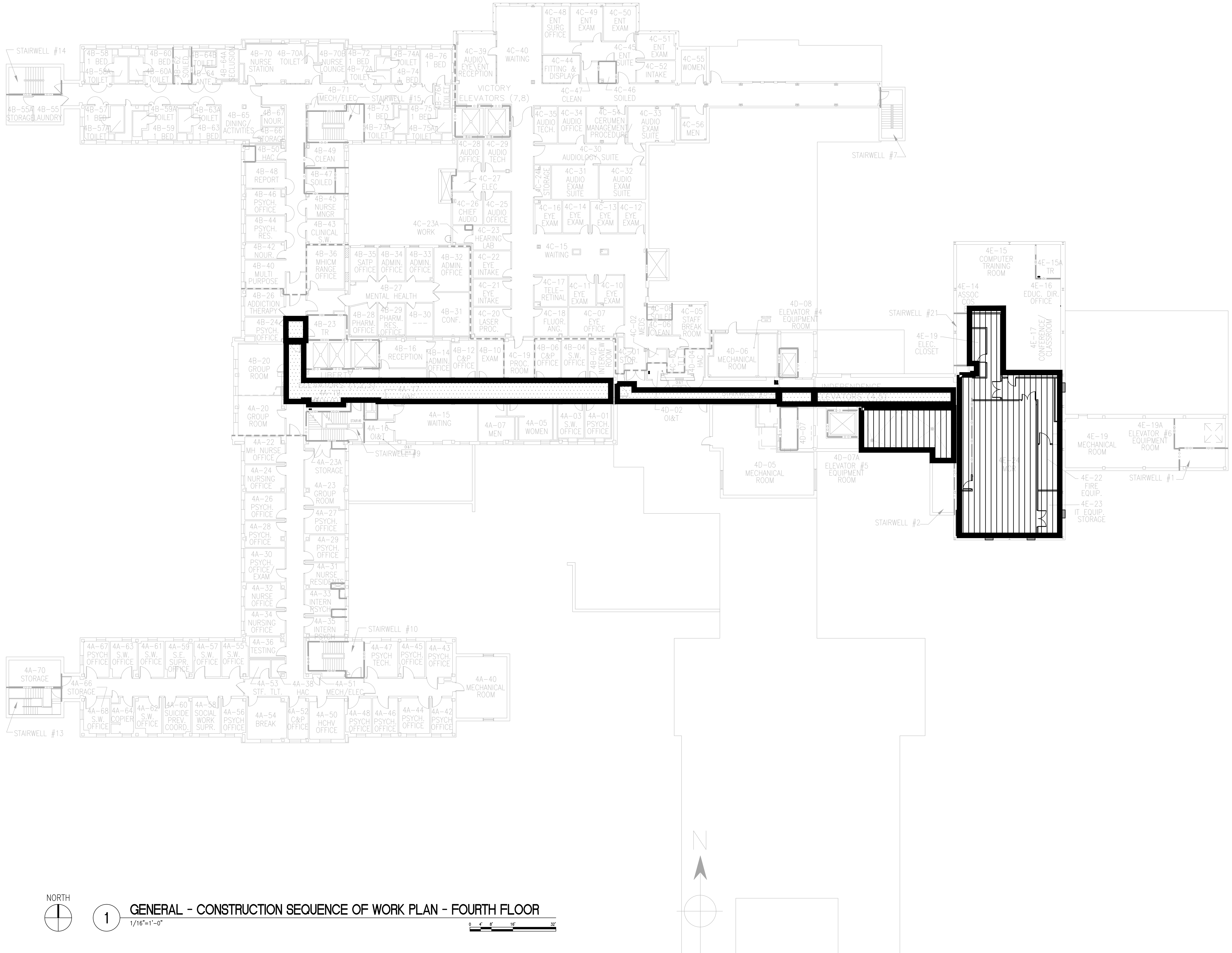
SEQUENCE LEGEND

- SEQUENCE "A"
- SEQUENCE "B"
- SEQUENCE "C"
- SEQUENCE "D"
- SEQUENCE "E"
- SEQUENCE "F"

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)



NORTH

1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - FOURTH FLOOR

1/16"=1'-0"

0 4' 8' 16' 32'

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title	GENERAL - CONSTRUCTION SEQUENCE OF WORK - FOURTH FLOORS
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1-9-46
Drawing Number	GI-206

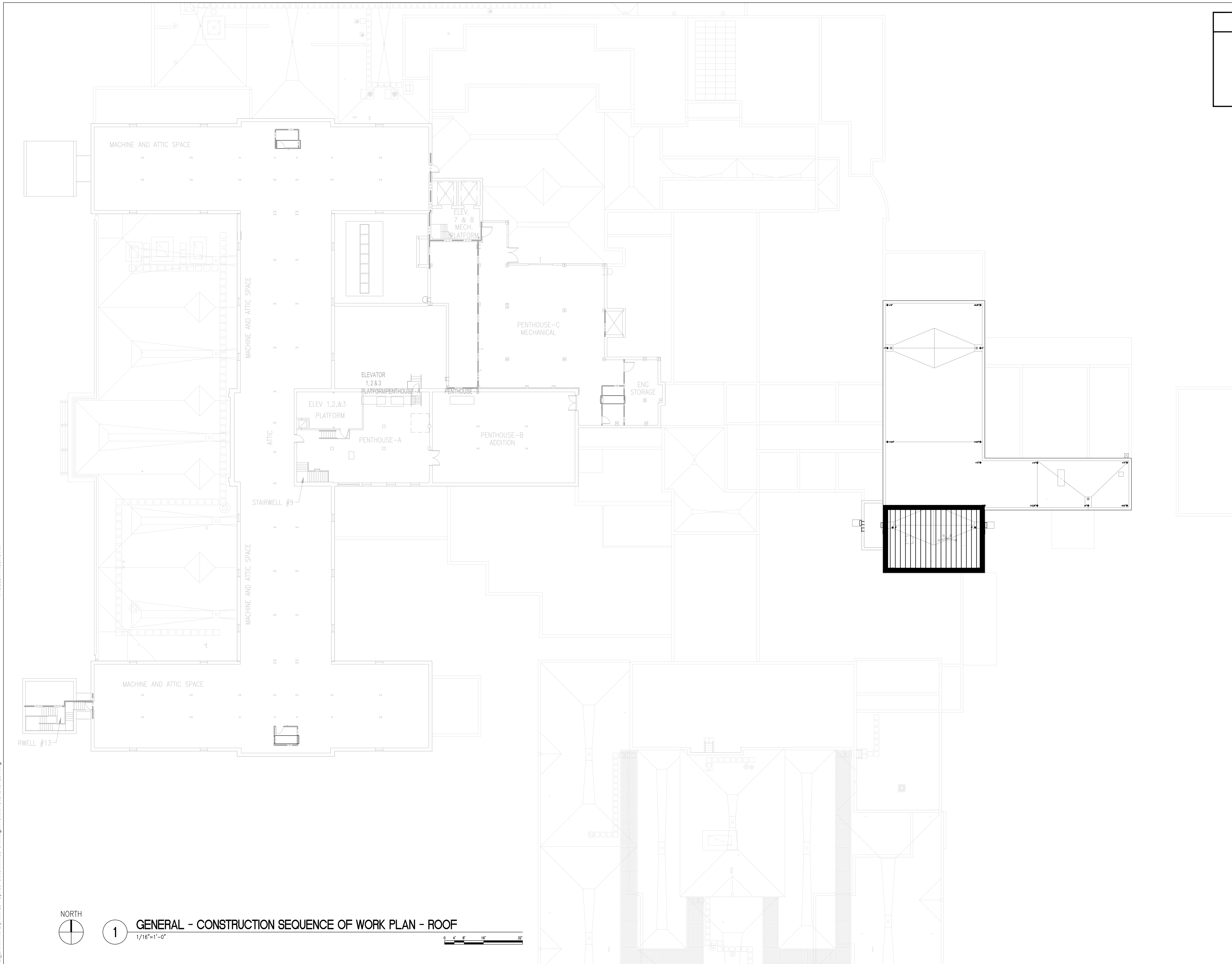
VA FORM 08 - 6231

SEQUENCE LEGEND		
SEQUENCE "A"	SEQUENCE "B"	SEQUENCE "C"
SEQUENCE "D"	SEQUENCE "E"	SEQUENCE "F"

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)



NORTH

1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - ROOF

1/16"=1'-0"

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - CONSTRUCTION SEQUENCE OF WORK - ROOFS

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: GI-207

VA FORM 08 - 6231

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SEQUENCE LEGEND

SEQUENCE "A" | SEQUENCE "B" | SEQUENCE "C"

SEQUENCE "D" | SEQUENCE "E" | SEQUENCE "F"

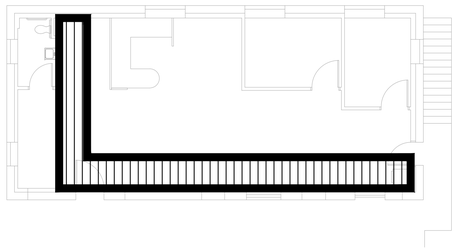
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)

2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)

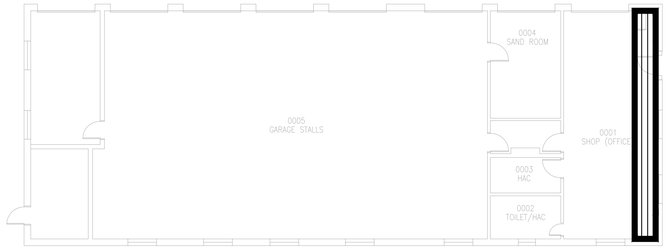
SMOKE BARRIER — SMOKE BARRIER (EXISTING)



NORTH

1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 3

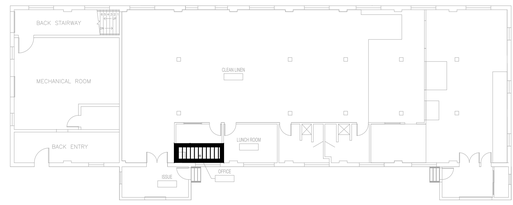
1/8"=1'-0"



NORTH

2 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 11

3/32"=1'-0"



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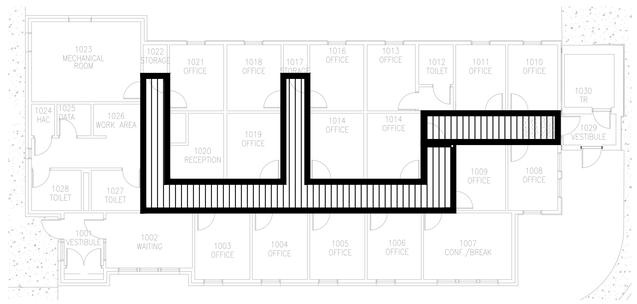
3 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 13

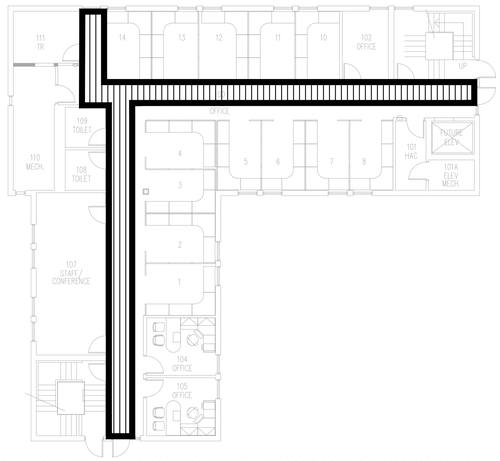
1/16"=1'-0"



NORTH

4 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 51

3/32"=1'-0"



NORTH

5 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 52

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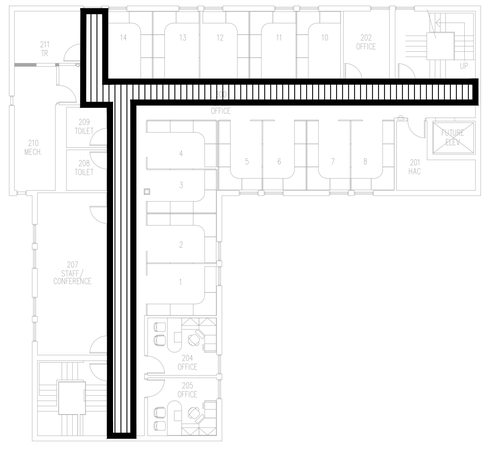

NORTH

6 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BUILDING 52

3/32"=1'-0"

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - CONSTRUCTION SEQUENCE OF WORK - OUTBUILDINGS

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

ISSUE FOR BID - 01/16/2024

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 3,11,13,51 & 52

Drawing Number: GI-208

VA FORM 08 - 6231

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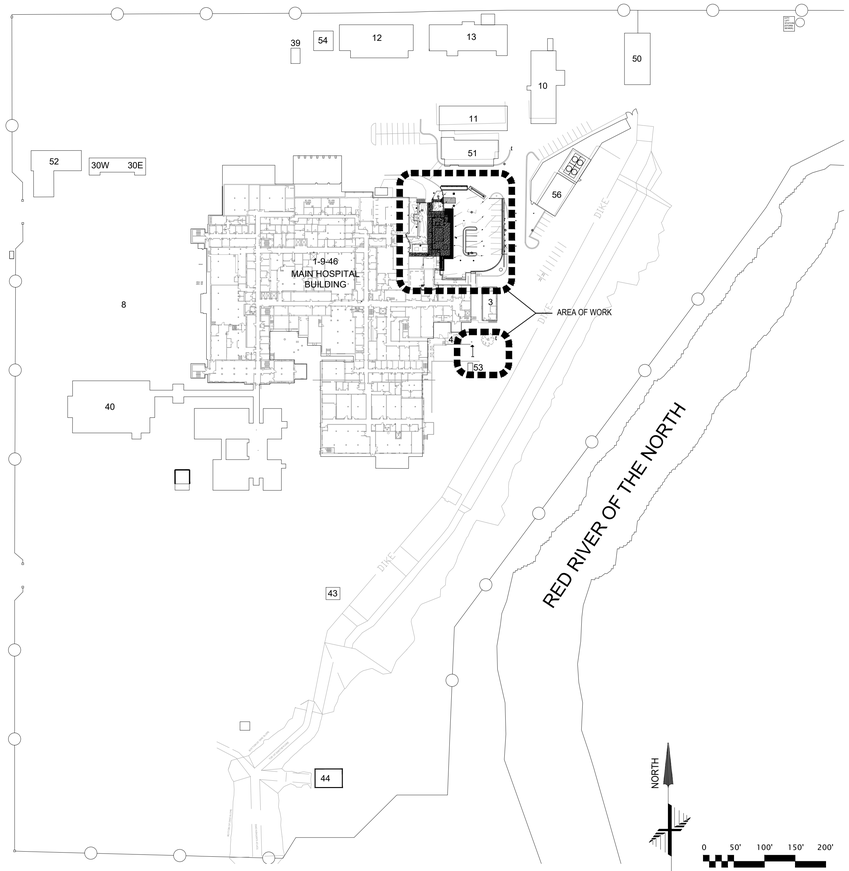
IMPROVEMENT PLANS

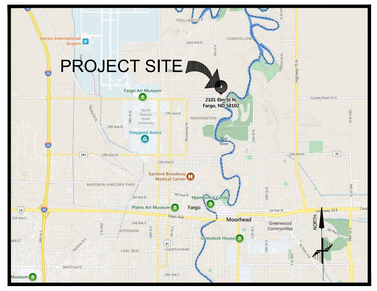
FOR

DEPARTMENT OF VETERANS AFFAIRS

2101 ELM STREET NORTH

FARGO, NORTH DAKOTA 58102





VICINITY MAP

GENERAL CIVIL NOTES

GENERAL:

1. ALL PERMITS WILL BE SECURED BY THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THEIR FAILURE TO DO SO.
3. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
4. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR THE POLICE, FIRE AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
5. LENGTHS OF SANITARY SEWERS AND STORM DRAINS SPECIFIED ARE HORIZONTAL DISTANCES AS MEASURED FROM CENTERS OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
6. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL PERFORM AT THEIR EXPENSE A FIELD OBSERVATION LOCATING ALL EXISTING UTILITIES INCLUDING ELEVATIONS AND NOTIFY THE VA AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTING LOCATIONS OF UTILITIES SHOWN ON THESE PLANS. ANY ADDITIONAL COST INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF THE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
7. CONTRACTOR TO VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO ANY WORK. ALL WORK FOR STORM DRAIN AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UPSTREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
8. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE. PIPES SHALL NOT BE STRUNG NOR TRENCHING COMMENCED UNTIL ALL CROSSINGS HAVE BEEN VERIFIED FOR CLEARANCE. IF THE CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE HE WILL BE SOLELY RESPONSIBLE FOR ANY EXTRA WORK OR MATERIAL REQUIRED IF MODIFICATIONS TO THE DESIGN ARE NECESSARY.
9. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.
10. CONTRACTOR TO TAKE NECESSARY PRECAUTIONARY MEASURES TO PREVENT SOIL EROSION AND SEDIMENTATION. EXISTING AND PROPOSED DRAINAGE STRUCTURES TO BE TEMPORARILY COVERED WITH FILTER FABRIC OR EQUAL UNTIL SURROUNDING PAVEMENT IS INSTALLED.
11. ANY RELOCATION OF UTILITIES SHALL BE COORDINATED WITH THE VA AND CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE OWNER, INCLUDING FEES, BONDS. PERMITS AND WORKING CONDITIONS, ETC. THE OWNER SHALL PAY THE FEES, BONDS, AND FILE THE APPROPRIATE PERMITS FOR ALL SUCH RELOCATION WORK. ALL ON- SITE UTILITY WORK IS THE RESPONSIBILITY OF THE CONTRACTOR (MATERIALS AND INSTALLATION).
12. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
13. THESE PLANS DO NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURES. DAMAGES, OR LIABILITIES, OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS, OR EQUIPMENT. NOTIFY OWNER WHEN DISCOVERING ASBESTOS MATERIALS. REFER TO SPECIFICATION 'HAZARDOUS MATERIALS PROCEDURES AND CONTROL' AND 'HAZARDOUS MATERIALS ABATEMENT AND CONTROL.'
14. THE CONTRACTOR SHALL MEET AND FOLLOW ALL (NPDES) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
15. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
16. CONTRACTOR SHALL ARRANGE, INSTALL, AND PAY FOR ANY TEMPORARY UTILITIES, INCLUDING BUT NOT LIMITED TO TELEPHONE, ELECTRIC, SEWER, WATER, ETC.. THE CONTRACTOR IS TO COORDINATE ANY SUCH UTILITY NEEDS WITH THE VA.
17. ALL SITE AREAS SHALL BE GRADED AT 1% MINIMUM FOR DRAINAGE UNLESS OTHERWISE NOTED OR ALONG FLOWLINES OF CONCRETE LINED GUTTERS AND VALLEY GUTTERS.
18. ESTIMATED EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE ONLY AND SHOWN FOR THE PURPOSES OF ESTIMATING GRADING PERMIT FEES, HOHBACH-LEWIN ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE QUANTITIES.
19. WHERE EXISTING STRUCTURES ARE TO REMAIN IN CONSTRUCTION ZONE AREA, CONTRACTOR SHALL ADJUST RIMS OF THESE STRUCTURES, I.E. CATCH BASINS, VALVE BOXES, CLEAN OUTS, UTILITY BOXES, ETC. TO NEW FINISH GRADE.
20. THE ORGANIC MATERIAL COVERING THE SITE SHALL BE STRIPPED AND STOCKPILED. THE STRIPPINGS SHALL BE USED TO BACKFILL ALL LANDSCAPE PLANTERS AND ROUGH GRADE MOUND AREAS, AS SHOWN ON LANDSCAPE DRAWINGS, TO WITHIN 1" OF GRADES SHOWN. EXCESS STRIPPINGS AND EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
21. ADJUSTMENTS TO PAD ELEVATIONS OR PARKING LOT GRADES TO ACHIEVE EARTHWORK BALANCE SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.
22. COMPACTION TO BE DETERMINED USING ASTM D1557-LATEST EDITION.
23. PROPOSED SPOT GRADES (ELEVATIONS) SHOWN HEREON ARE FINISHED PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR SHALL VERIFY THE CONTENTS AND THICKNESS OF THE BUILDING SLAB SECTION (IE: CONCRETE, SAND, ROCK) WITH THE STRUCTURAL PLANS AND THE ELEVATIONS SHOWN HEREON PRIOR TO COMMENCEMENT OF GRADING.
25. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE O.S.H.A. REGULATIONS.
26. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
27. WHERE OFF-SITE DRIVEWAY APPROACHES ARE TO BE CONSTRUCTED THE ON-SITE DRIVEWAY SHALL NOT BE CONSTRUCTED UNTIL THE OFF-SITE IMPROVEMENTS ARE INSTALLED. THE ON-SITE DRIVEWAY SHALL CONFORM TO THE COMPLETED OFF-SITE DRIVEWAY.

LEGEND

BOUNDARY LINES

- CENTER LINE
- EASEMENT LINE
- PROPERTY LINE
- ADJACENT PROPERTY LINE

MISCELLANEOUS LINES

- SIDEWALK
- LIP OF GUTTER
- FENCE-WIRE

UTILITY LINES

- E — ELECTRIC
- FO — FIBER OPTIC
- FS — FIRE SERVICE
- G — GAS LINE
- IRR — IRRIGATION LINE
- JT — JOINT TRENCH
- NG — NITROGEN GAS
- OH — OVERHEAD
- RW — RECYCLED WATER
- STORM DRAIN
- SS — SANITARY SEWER
- T — TELEPHONE
- W — WATER

UTILITY LEGEND

- FIRE HYDRANT
- WATER VALVE
- WATER METER
- STORM DRAIN MANHOLE
- BACKFLOW PREVENTER
- CATCH BASIN
- AREA DRAIN
- CLEANOUT TO GRADE
- FIRE DEPARTMENT CONNECTION

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
ATT	AT&T
BC	BACK OF CURB
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOL	BOLLARD
BOW	BACK OF WALK
BW	BOTTOM OF WALL
BW/FS	BOTTOM OF WALL/FINISHED SURFACE
C	CONCRETE
CATV	CABLE TV
CB	CATCH BASIN
CONC	CONCRETE
COTG	CLEANOUT TO GRADE
DI	DRAIN INLET
DS	DOWN SPOUT
E	ELECTRIC OR EAST
EW	EACH WAY
EX.	EXISTING
(E)	EXISTING
ELEC	ELECTRIC
ESMT	EASEMENT
G	GAS
GB	GRADE BREAK
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
FM	FORCE MAIN
FNC	FENCE
FS	FINISHED SURFACE
GRN	GROUND
HP	HIGH POINT
INV	INVERT
JP	JOINT POLE
LF	LINEAR FEET
LIP	LIP OF GUTTER
LT	LIGHT
M	MAPS
N	NORTH
NE	NORTHEAST
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OH	OVERHEAD
OR	OF RECORD
PERF	PERFORATED PIPE
POC	POINT OF CONNECTION
PV	PAVEMENT
RC	RELATIVE COMPACTION
RW	RECYCLED WATER
RIM	RIM OF UTILITY OBJECT
S	SOUTH
SD	STORMDRAIN
SE	SOUTHEAST
SS	SANITARY SEWER
SL	STREET LIGHT
SW	SOUTHWEST
T	TREE
TC	TOP OF CURB
TW	TOP OF WALL
TW/FS	TOP OF WALL/FINISHED SURFACE
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
USA	UNDERGROUND SERVICE ALERT
VG	VALLEY GUTTER
W	WATER/WEST/WITH
WM	WATER METER
WTR	WATER
WV	WATER VALVE

GENERAL NOTES CONTINUATION

GRADING NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE PROVIDED BY THE VA AND PROFESSIONAL ENGINEERING CONSULTANTS (WWW.PEC1.COM). NO GUARANTEE IS MADE OR IMPLIED AS TO THE ACCURACY OF SUCH RECORD DATA. NO EXCAVATIONS WERE MADE TO CONFIRM LOCATIONS. CONTRACTORS ARE CAUTIONED TO CONTACT U.S.A. UNDERGROUND AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
3. ALL FINISH GRADES SHOWN ARE FINISH GRADE ELEVATIONS UNLESS NOTED OTHERWISE.

UTILITY NOTES:

1. THIS SURVEY IS NOT INTENDED TO REPRESENT THE EXACT LOCATIONS, SIZES OR EXTENT OF THE UTILITIES WITHIN THE AREA ENCOMPASSED BY THIS SURVEY. THEREFORE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE AND EXTENT OF ANY EXISTING UTILITIES PRIOR TO DESIGN OR CONSTRUCTION. CONTRACTORS ARE CAUTIONED TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
3. UTILITY ABANDONMENT/REMOVAL: DISCONNECT AND CAP PIPES AND SERVICES TO REMAIN. REMOVE ALL PORTIONS OF ALL UTILITIES WITHIN NEW BUILDING FOOTPRINT AND DISPOSE OF OFF-SITE. OTHERWISE ABANDON IN PLACE UNLESS NOTED OTHERWISE.
4. NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITIES ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS. PRESERVE AND REPAIR ANY UTILITIES THAT ARE DAMAGED AND THAT ARE TO REMAIN.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS OF NEW UTILITIES WITH EACH OTHER, AND WITH EXISTING UTILITIES. VERIFY EXISTING PIPE LOCATION AND INVERT PRIOR TO INSTALLING NEW UTILITIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR DEVIATIONS.
6. PRIOR TO CONNECTING TO EXISTING UTILITIES FIELD VERIFY LOCATION & INVERT OR DEPTH PRIOR TO INSTALLING NEW PIPE OR EQUIPMENT.
7. EACH BUILDING WATER SERVICE CONNECTION SHALL BE WITH VALVE AND VALVE BOX SET AT GRADE.
8. ALL BUILDING SEWER LATERALS SHALL BE WITH CLEANOUT TO GRADE.
9. ALL CATCH BASINS WITHIN VEHICULAR AREAS SHALL BE TRAFFIC RATED FOR H20 VEHICULAR LOADS. FOR CATCH BASINS IN WALKWAY AREAS, INCLUDING EXISTING CATCH BASINS, USE HEEL PROOF AND ADA GRATE.

ADA COMPLIANCE:

1. ALL NEW WORK SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND ANY LOCAL OR STATE AMENDMENTS THEREOF.
2. ALL NEW CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. ALL NEW ENTRANCE WALKS TO THE BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) LONGITUDINALLY UNLESS RAILINGS ARE PROVIDED IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%). SEE ARCHITECTURAL PLANS FOR RAILING REQUIREMENTS.
4. LANDINGS SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS WITH A 2% MAXIMUM SLOPE THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 30" VERTICAL DROP SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AND LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
6. MAXIMUM CROSS-SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%.

GEOTECHNICAL CRITERIA:

1. ALL WORK INCLUDING GRADING, TRENCHING, COMPACTION, AND SUBBASES SHALL FOLLOW THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT/VA SPECIFICATIONS.
2. ALL ENGINEERED FILL SHALL HAVE A MINIMUM RELATIVE COMPACTION PER PROJECT GEOTECHNICAL REPORT/VA SPECIFICATIONS.

SHEET INDEX

C100	COVER SHEET
C101	NOTES
C200	DEMOLITION PLAN
C300	GRADING AND DRAINAGE PLAN
C400	UTILITY PL AN
C500	DETAILS
C501	DETAILS
C600	SECTIONS

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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Exp. 06-30-24
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STATE OF NORTH DAKOTA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET	Phase: ISSUE FOR BID
Approved: Project Director	BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2		Project Number: 437-21-210
		Building Number
Location: FARGO VA HEALTH CARE SYSTEM		Drawing Number: C100
Issue Date: 01/16/2024	Checked	Drawn

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CAUTION:

1. THE LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
2. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION-PHONE (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.
3. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE OWNER'S PROJECT MANAGER IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.

GENERAL SITE NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER.
4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
6. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, SIGNAGE, TEMPORARY WALKWAYS, AND PROVISIONS FOR ENSURING THE PROJECT'S SECURITY AND SAFE PASSAGEWAY AROUND IT BY CAMPUS STAFF, STUDENTS AND VISITORS AT ALL TIMES.
7. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL NECESSARY & REQUIRED PERMITS FOR THIS WORK.
8. NOTIFICATION PRIOR TO THE START OF THE WORK MUST BE GIVEN TO THE UNDERGROUND SERVICE ALERT (USA).
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING APPROVAL FROM VA PERSONNEL AND PROJECT ARCHITECT FOR THE LOCATION OF ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAY DOWN AREAS.
10. CONSTRUCTION HOURS TO BE VERIFIED AND APPROVED BY THE VA.
11. CONTRACTOR MUST HAVE THE VA FIELD REVIEW AND APPROVE FORMWORK PRIOR TO PLACING SITE CONCRETE FOR CURBS, RAMPS, STAIRS, WALKS, DRIVEWAYS AND RELATED FLATWORK.
12. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER ON-SITE EXCAVATION, ALL WORK ON THE SITE SHALL BE STOPPED AND THE CITY IMMEDIATELY NOTIFIED. THE COUNTY CORONER & THE NATIVE AMERICAN HERITAGE COMMISSION SHALL ALSO BE NOTIFIED. THE APPROPRIATE AUTHORITIES SHALL ALSO BE NOTIFIED.

SITE MAINTENANCE:

1. CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
2. REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
3. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
4. IF THE STREETS, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASH WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
5. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
6. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
7. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
8. PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
9. PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
10. MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THIS SHEET.

DUST CONTROL:

1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE APPROPRIATE GOVERNMENTAL AGENCY IN ORDER TO ENSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
2. WATERING ASSOCIATED WITH ON-SITE CONSTRUCTION ACTIVITY SHALL TAKE PLACE BETWEEN THE ESTABLISHED CONSTRUCTION HOURS AND SHALL INCLUDE AT LEAST ONE LATE-AFTERNOON WATERING TO MINIMIZE THE EFFECTS OF BLOWING DUST.
3. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE OWNER'S ENGINEER/INSPECTOR, TO THE SATISFACTION OF THE VA.
4. ON-SITE PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS SHALL BE SWEPT DAILY WITH A WATER SWEEPER.
5. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.
6. THE SPEED OF ALL VEHICLES DRIVING ON UNPAVED ROADS OR PORTIONS OF THE SITE SHALL BE LIMITED TO 10 MPH.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. EROSION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CITY, COUNTY STORM DRAIN SYSTEM, SANITARY SEWER SYSTEM OR FROM LEAVING THE SITE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE FIELD TO MAKE SURE THAT THIS CONCEPT IS CARRIED OUT.
2. EROSION CONTROL FACILITIES AND MEASURES ARE TO BE INSTALLED AND OPERABLE PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL CONTINUE IN EFFECT UNTIL DISTURBED AREAS ARE STABILIZED OR UNTIL INSTALLATION OF THE PERMANENT SITE IMPROVEMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR THE EXACT DESIGN AND EXTENT OF THE EROSION CONTROL SYSTEM SO THAT IT WORKS WITH THE CONTRACTOR'S INTENDED USE AND MANAGEMENT OF THE CONSTRUCTION SITE, AND IS APPROVAL BY THE APPROPRIATE GOVERNMENTAL AGENCIES.
4. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY DURING THE RAINY SEASON. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS PRIOR TO ANTICIPATED STORMS AND AT REASONABLE INTERVALS DURING STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.
5. AS SOON AS PRACTICAL FOLLOWING EACH STORM, THE CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF SILT OR DEBRIS FROM THE EROSION CONTROL SEDIMENT BASINS AND SHALL CLEAR THE OUTLET PIPES OF ANY BLOCKAGE.
6. PROVISION SHALL BE MADE TO ASSURE THAT BORROW AREAS AND STOCK PILED SOILS ARE PROTECTED FROM EROSION WITH EROSION CONTROL MEASURES SATISFACTORY TO THE APPROPRIATE GOVERNMENTAL AGENCIES.
7. ALL STOCKPILE MATERIALS SHALL BE COVERED AND PROTECTED FROM THE ELEMENTS WITH A NON-PERMEABLE PLASTIC MEMBRANE SO AS TO PREVENT SOIL EROSION FROM OCCURRING. THIS COVER SHALL BE SECURED WITH ANCHORS OR WEIGHTS OF SUFFICIENT SIZE AND FREQUENCY TO PREVENT DISRUPTION OR REMOVAL BY WIND OR RAIN. ANCHORAGE AT THE BASE OF THE SLOPE SHALL BE AS INDICATED BY DETAIL ON THIS SHEET. ALL MEMBRANE AND COVERINGS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR OR HIS REPRESENTATIVE ON A FREQUENT AND REGULAR BASIS. SPECIFICALLY BEFORE AND AFTER ANY INCLEMENT WEATHER, WITH ANY NECESSARY REPAIRS BEING IMMEDIATELY PERFORMED. COVERINGS SHALL REMAIN IN PLACE UNTIL THE STOCKPILE(S) IS READY TO BE REMOVED FROM THE SITE, AT WHICH TIME THEY MAY BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
8. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS, SWEPT ON A REGULAR BASIS, TO THE SATISFACTION OF THE VA.
9. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS OR AS REQUIRED BY THE CITY. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
10. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.

TREE/PLANT PROTECTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH THE VA AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
2. PROVIDE TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNATED TO REMAIN, SEE 9C500.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OF TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN, CONSULT WITH THE VA.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE ARCHITECT / THE VA.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER / INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATED TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.

DEMOLITION NOTES :

1. DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND TELEPHONE AND POWER SERVICES. CONTRACTOR SHALL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY LARGER LESS PRECISE EQUIPMENT.
2. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
6. CONTRACTOR SHALL PAY DISPOSAL FEES.
7. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER/VA SPECIFICATIONS.
8. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS.
9. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER/VA SPECIFICATIONS.
10. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. ABANDONED UTILITIES WITHIN THE LIMITS OF CONSTRUCTION SHOULD BE REMOVED IN THEIR ENTIRETY. UTILITIES OUTSIDE THE BUILDING AREA SHOULD BE REMOVED OR ABANDONED IN-PLACE BY LOCATING AND PLUGGING ALL LATERALS AND ENDS OF PIPES WITH CONCRETE, AND THEN FILLING THE ENTIRE PIPE WITH GROUT. REMOVAL OF ANY UTILITIES WILL REQUIRE THAT ALL TRENCHES BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER/VA SPECIFICATIONS TO VERIFY COMPACTION VALUES.

SITE FENCING NOTES :

1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
2. FENCE LOCATION MAY BE ADJUSTED FROM TIME TO TIME AS CONSTRUCTION PROCEEDS TO EXCLUDE SOME AREAS WHERE CONSTRUCTION WORK IS NOT BEING DONE AND THE AREA IS NOT OBJECTIONABLE IN VISUAL APPEARANCE, AT THE DISCRETION AND APPROVAL OF THE DISTRICT STAFF. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK.
3. CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS TO MEET MINIMUM SEPARATION REQUIREMENTS FROM CONSTRUCTION SITE AND THE CAMPUS. CONTRACTOR IS REQUIRED TO INSTALL ANY ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES NEEDED TO KEEP THE SITE SECURE & SAFE AT ALL TIMES.
4. ALL FENCING SHALL BE INSTALLED AT ONLY LOCATIONS DESIGNATED AND APPROVED BY DISTRICT PERSONNEL, WITH PARTICULAR CARE GIVEN SUCH THAT THE FENCING DOES NOT CREATE A TRAFFIC HAZARD OR NUISANCE, OR RESTRICT CAMPUS CIRCULATION & FIRE EXITING.

GRADING & EARTHWORK NOTES:

1. ALL PAVED AREAS ARE TO SLOPE A MINIMUM OF 1%. ACCESSIBLE STALLS AND LOADING ZONES ARE TO SLOPE AT A MAXIMUM OF 2% IN ANY DIRECTION AND ACCESSIBLE PATHWAYS ARE TO SLOPE AT A MAXIMUM OF 8.33%, WITH A MAXIMUM CROSS-SLOPE OF 2%. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS OR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH FORMWORK FOR CURBS AND/OR FLATWORK.
2. CONTRACTOR SHALL DETERMINE EARTHWORK QUANTITIES BASED ON THE TOPOGRAPHIC SURVEY, THE VA SPECIFICATIONS, AND THE PROPOSED SURFACE GRADES AND BASE THE BID ACCORDINGLY. ANY DIFFERENCES BETWEEN THE STATE IN WHICH THE PROJECT SITE IS DELIVERED TO THE CONTRACTOR AND THESE DOCUMENTS SHOULD BE NOTED TO THE CIVIL ENGINEER.
3. ALL FILL SHALL BE COMPACTED PER THE CONSTRUCTION SPECIFICATIONS AND THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH THE TESTING AGENCY TO TAKE THE APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
4. IMPORT SOILS MUST MEET THE REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS.
5. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION (WATER AND CONTROL WIRING) AND STREET LIGHTING PRIOR TO THE PLACEMENT OF ANY ASPHALT, BASEROCK OR CONCRETE SURFACING. SEE LANDSCAPE AND SITE ELECTRICAL DRAWINGS.
6. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT & ENGINEER.
7. SPOT ELEVATIONS ARE TO FINISHED SURFACE.
8. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05'.
9. SUBGRADES SHALL BE PREPARED PER THE CONSTRUCTION SPECIFICATIONS.
10. CONTRACTOR TO GRADE LANDSCAPED (NON PAVED) AREAS TO A FINISH GRADE OF 8" BELOW PROPOSED FINISH GRADE SHOWN ON THE GRADING PLANS. DISTRICT WILL INSTALL TOP 8 INCHES OF TOPSOIL AND PERFORM FINISH GRADING. CONTRACTOR TO GRADE PLANTER & LANDSCAPED AREAS (NON-PAVED AREAS ADJACENT TO BUILDINGS) TO FINISH GRADE 24" BELOW FINISH FLOOR OF BUILDING. DISTRICT TO INSTALL FINAL FILL MATERIAL, AND INSTALL IRRIGATION SYSTEMS.
11. AFTER STAKING FOR HORIZONTAL CONTROL CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO ARCH/ENGR.
12. ALL EXISTING UTILITY STRUCTURES WITHIN THE AREA OF WORK SHALL HAVE THE LIDS, GRATES, COVERS, ETC. ADJUSTED TO BE FLUSH WITH FINISHED GRADES. CONTRACTOR SHALL IDENTIFY ALL SUCH ITEMS BY USE OF THESE PLANS AND THOROUGH FIELD INVESTIGATION.
13. GEOTECHNICAL CONSULTANT TO BE NOTIFIED OF DELIVERY OF ALL IMPORTED SOILS TO SITE FOR HIS/HER INSPECTION AND APPROVAL PRIOR TO PLACING BY CONTRACTOR.

EARTHWORK QUANTITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITIES OF ALL FORMS OF EARTHWORK ON THIS PROJECT AND BASING THE BID ON THOSE QUANTITIES WITH FULL KNOWLEDGE THAT ADDITIONAL PROCESSES - INCLUDING ENGINEERING - AND QUANTITIES ARE ALSO TO BE INCLUDED IN THE BID PER THE FOLLOWING NOTES.
2. THE CONTRACTOR SHALL MAKE AN INITIAL DETERMINATION OF THE QUANTITIES, BASED ON A DETAILED SITE VISIT, THE TOPOGRAPHIC SURVEY, THE GEOTECHNICAL REPORT, THE VA SPECIFICATIONS, THE FINISH GRADES SHOWN ON THESE DRAWINGS, THE SIZE AND EXTENT OF FOOTINGS, THE PREPARATION AND MATERIALS USED FOR BUILDING SLABS, PAVEMENT SECTIONS, AND THE SIZE AND DEPTH OF UTILITY TRENCHES, INCLUDING THE UTILITY CONTRACTORS ANTICIPATED RE-USE OF EXISTING MATERIAL FOR BACKFILL IF ANY.
3. THE CONTRACTOR SHALL MEET THE GRADES SHOWN ON THE DRAWINGS, ADJUSTING THE AMOUNT OF IMPORT OR EXPORT AS REQUIRED TO DO SO. NO ASSUMPTIONS SHOULD BE MADE ABOUT THE SITE BALANCING. NO ADJUSTMENTS TO THE GRADES SHALL BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ARCH/ENGR IN WRITING AFTER THE IMPACT OF ANY GRADE CHANGES (IMPACT TO RAMPS, STAIRS, WORK BY OTHERS, ETC.) HAS BEEN THOROUGHLY REVIEWED BY THE ARCH/ENGR. WHEN PREPARING THE EARTHWORK BIDS, DO NOT ASSUME ANY CHANGES TO THE FINISHED GRADES SHOWN ON THESE DRAWINGS WILL BE PERMITTED.
4. THE EARTHWORK SPECIFICATIONS, THE VA SPECIFICATIONS, AND GEOTECHNICAL REPORT HAVE SPECIFIC REQUIREMENTS FOR BRINGING FILL MATERIAL ONTO THE SITE (IMPORT) SINCE THE EXISTING SOILS ARE NOT SUITABLE FOR FILL MATERIAL IN CERTAIN AREAS. THE EARTHWORK SPECIFICATIONS, VA SPECIFICATIONS, AND GEOTECHNICAL REPORT MAY IDENTIFY ALTERNATIVES THAT ALLOW TREATMENT OF EXISTING SOILS TO MINIMIZE IMPORT, HOWEVER MEETING THE GRADES SHOWN ON THESE DRAWINGS MUST ALSO BE CONSIDERED WHEN DETERMINING THE METHOD.
5. AFTER THE BID IS AWARDED THE CONTRACTOR SHALL SUBMIT A DETAILED EARTHWORK HANDLING PLAN THAT SHOWS THE INTENT AND LOCATIONS OF EARTH MOVEMENT AND QUANTITIES OF CUT, FILL, IMPORT AND EXPORT AS THE PROJECT WAS BID. PROPOSING ALTERNATIVE PLANS THAT MAY IDENTIFY GRADE ADJUSTMENTS TO MINIMIZE THE DISTANCE SOIL IS MOVED OR TO MINIMIZE IMPORT OR EXPORT WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PREPARING AN EARTHWORK PLAN AS BID.

GENERAL UTILITY SYSTEM NOTES :

1. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS TO VERIFY COMPACTION VALUES.
2. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (HYDRANTS, TRANSFORMERS, ETC.) AND MEET WITH THE APPROPRIATE GOVERNMENTAL AUTHORITY AND PROPER UTILITY AUTHORITY TO REVIEW LOCATION PRIOR TO INSTALLATION. THE APPROPRIATE GOVERNMENTAL AUTHORITY AND PROPER UTILITY AUTHORITY MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
3. CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF PROPOSED UTILITIES, AND INFORM ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
4. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL. CONTRACTOR IS RESPONSIBLE FOR FULLY ENGINEERING AND INSTALLING THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH OWNER'S ENGINEER. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL CORROSION PROTECTION REQUIREMENTS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INVERTS AND LOCATIONS PRIOR TO BEGINNING ANY WORK ON THIS SITE.
6. ALL DRAINAGE STRUCTURES LOCATED IN VEHICULAR TRAFFIC AREAS SHALL HAVE TRAFFIC RATED COVERS AND BOLT-DOWN GRATES. ALL DRAINAGE STRUCTURES IN PEDESTRIAN ACCESSIBLE AREAS SHALL HAVE ADA APPROVED BOLT-DOWN GRATES.
7. ALL UTILITY STRUCTURES WITHIN THE AREA OF WORK SHALL HAVE THE LIDS, GRATES, COVERS, ETC. ADJUSTED TO BE FLUSH WITH FINISHED GRADES. CONTRACTOR SHALL IDENTIFY ALL SUCH ITEMS BY USE OF THESE PLANS AND FIELD INVESTIGATION.
8. SEE LANDSCAPE LAYOUT PLANS FOR IRRIGATION SLEEVE LOCATIONS.
9. ALL EXISTING UTILITY STRUCTURES (CLEANOUTS, VALVES, BOXES, MANHOLES, CB'S, ETC.) SHALL BE RAISED TO FINAL FINISH GRADE AND COMPLETED WITH THE NECESSARY LABOR AND MATERIALS TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THESE PLANS.
10. CLEANOUTS, CATCH BASINS, MANHOLES AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR RELATIONSHIP TO THE BUILDING, FLATWORK, BUILDING UTILITIES, AND/OR CURB LAYOUT. NOT BY THE LENGTH OF PIPE SPECIFIED ON THE DRAWINGS. (WHICH IS APPROXIMATE)
11. SEE ELECTRICAL PLANS FOR SITE ELECTRICAL WORK. ADVISE ENGINEER OF ANY CONFLICTS WITH OTHER UTILITIES PRIOR TO BEGINNING WORK.
12. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES & WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.

SANITARY SEWER NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN, IMPRINTED WITH "CAUTION-SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 SEWER PIPE.
3. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
4. ALL SANITARY SEWER DESIGNED AT 1% OR FLATTER SHALL BE STAKED BY A CIVIL ENGINEER OR LAND SURVEYOR.
5. REFER TO SANITARY SEWER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING, AND QUALITY CONTROL REQUIREMENTS.
6. MINIMUM SLOPE FOR SITE SANITARY SEWER PIPES SHALL BE PER CURRENT UPC REQUIREMENTS AND VA SPECIFICATIONS:

   4" @ 2%
   6" @ 1%
   8" & LARGER @ 0.5%

STORM DRAIN NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN, IMPRINTED WITH "CAUTION-STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. INSTALL ADA APPROVED GRATES ON ALL DRAINAGE STRUCTURES WITHIN PEDESTRIAN ACCESSIBLE PAVED AREAS. INSTALL BOLT-DOWN GRATES ON ALL DRAINAGE STRUCTURES.
3. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
4. REFER TO STORM SEWER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING AND QUALITY CONTROL REQUIREMENTS.
5. MINIMUM SLOPE FOR SITE STORM DRAIN PIPES SHALL BE:

   4" @ 2%
   6" & LARGER 1%

6. PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35.

WATER SYSTEM NOTES:

1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 18" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT BOTTOM OF BASEROCK FOR PAVED AREAS. BLUE, IMPRINTED WITH "CAUTION-WATER-LINE BELOW", CALPICO TYPE 2 OR EQUAL.
2. PROVIDE THRUST BLOCKS OR COMPARABLE RESTRAINTS PER THE LOCAL WATER AGENCY, AT BENDS OF 22 1/2 DEGREES OR GREATER (HORIZONTAL AND VERTICAL), AT SIZE CHANGES.
3. PROVIDE MINIMUM OF 3 FEET OF COVER OVER WATER LINES, UNLESS NOTED OTHERWISE.
4. MAINTAIN PUBLIC WATER LINES 10' AWAY FROM PUBLIC SANITARY SEWER LINES.
5. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES AND WATERLINE JOINTS SHALL BE A MINIMUM OF 10 FEET FROM SANITARY SEWERS.
6. WATER LINES ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/OR BEND WITH APPROPRIATE FITTINGS THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
7. BOTTOM OF BACKFLOW PREVENTOR ASSEMBLY TO BE INSTALLED NO GREATER OR LESS THAN 12" FROM FINISH GRADE.
8. THE UNDERGROUND DOMESTIC WATER SYSTEM INSTALLER SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY INSTALLATION.
9. CONTRACTOR TO POTHOLE AND VERIFY LOCATION, DEPTH & SIZE OF P.O.C. TO EXISTING WATERMAIN PRIOR TO INSTALLING ANY NEW WATERMAIN AND ADVISE THE OWNER ENGINEER OF ANY FIELD DISCREPANCIES THAT WILL IMPACT THE DESIGN.
10. REFER TO DOMESTIC WATER SPECIFICATIONS FOR LABOR AND MATERIAL, TESTING AND QUALITY CONTROL REQUIREMENTS.
11. PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI CLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES.
12. ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.

FIRE PROTECTION NOTES:

1. THE UNDERGROUND FIRE PROTECTION SYSTEM SHOWN ON THIS DRAWING IS SCHEMATIC AND IS NOT INTENDED TO BE AN INSTALLATION DRAWING. THE UTILITY DRAWING IN THIS SET OF DOCUMENTS SHALL NOT BE USED AS A BASE SHEET FOR SHOP DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT / ENGINEER.
2. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL PREPARE SHOP DRAWINGS SHOWING ALL INFORMATION REQUIRED BY THE LOCAL FIRE MARSHAL, INCLUDING LOCATION, TYPE AND NUMBER OF ANGLES, THRUST BLOCKS, VALVES, FIRE HYDRANTS, PIV's, FDC's, BACKFLOW ASSEMBLIES, FLEXIBLE CONNECTIONS, VAULTS, AND FLOW CALCULATIONS TO FIRE HYDRANTS AND SPRINKLER RISERS PER FIRE FLOW REQUIRED BY LOCAL FIRE DEPARTMENT.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE VA & ARCHITECT, THE RATING AGENCY AND THE PROJECT MANAGER, ALLOWING TIME FOR REVIEW AND ACCEPTANCE, PRIOR TO START OF WORK.
4. THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO ORDERING MATERIALS, FABRICATING SYSTEMS OR ANY INSTALLATION.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND EQUIPMENT LOCATIONS. RISER LOCATIONS ARE SHOWN ON ARCHITECTURAL AND PLUMBING DRAWINGS AND ARE TO BE COORDINATED WITH ACTUAL FIELD CONDITIONS.
6. INSTALL MONITORED TAMPERSWITCHES AT ALL PIV'S AND VALVES ON BACKFLOW ASSEMBLIES.
7. CONTRACTOR TO USE CATHODIC PROTECTION FOR ALL UNDERGROUND FIRE PROTECTION SYSTEMS. FINAL LOCATION OF ANODES AND TEST STATIONS SHALL BE COORDINATED WITH ARCH./ENGINEER. CONTRACTOR MAY ASSUME THAT THE TEST STATIONS WILL BE WITHIN 10 FEET OF THE FITTING/ITEM BEING CONNECTED TO.
8. BOTTOM OF BACKFLOW PREVENTOR ASSEMBLY TO BE INSTALLED NO GREATER OR LESS THAN 12" FROM FINISH GRADE.
9. MIN. 2' CLEARANCE FROM BACK OF CURB TO FH's, PIV's, AND FDC's.

GENERAL NOTES FOR UNDERGROUND FIRE SERVICE

1. NFPA 24 SEC. 7-2 ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD-COATED AND WRAPPED AFTER ASSEMBLY. FOR BURIED PIPE, GALVANIZING, INTERNALLY OR EXTERNALLY, DOES NOT MEET THE REQUIREMENTS OF THIS SECTION.
2. NFPA 24 SEC. 8-5.2 ALL BOLTED JOINTS ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION.
3. NFPA 24 SEC. 8-6.2.8 AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
4. NFPA 24 SEC. 8-2.1 UNDERGROUND MAINS SHALL BE COMPLETELY FLUSHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION PER TABLE 9-1.1 TO PRODUCE A VELOCITY OF 10 FT. PER SECOND IN PIPES (WITNESSED BY THE INSPECTOR OF RECORD). LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING SO THEY MAY OBSERVE TESTING WHEN DESIRED.
5. NFPA 24 (1995) SEC. 8-9.3.1 ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200-PSI PRESSURE FOR A MINIMUM OF TWO HOURS. (WITNESSED BY THE INSPECTOR OF RECORD)
6. THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURED AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVE GROUND PIPING. (ALSO SEE SEC. 9-2.3.3 FOR ALLOWABLE LEAKAGE)
7. HYDROSTATIC TESTS SHOULD BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED.
8. NFPA 24 SEC. 8-1 THE DEPTH OF COVER OVER WATER PIPES SHALL BE NOT LESS THAN 2 1/2 FT. TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3 FT. UNDER DRIVEWAYS.

UNDERGROUND FIRE SERVICE TO FIRE HYDRANTS REQUIREMENTS:

1. NFPA 24 SEC. 1-4 THE UNDERGROUND FIRE SERVICE PLANS SHALL BE DRAWN TO SCALE BY THE UNDERGROUND FIRE PROTECTION SYSTEM INSTALLER AND SHALL INCLUDE ALL ESSENTIAL DETAILS SUCH AS:
   - A) SIZE AND LOCATION OF ALL WATER SUPPLIES.
   - B) SIZE AND LOCATION OF ALL PIPING, INDICATION, WHERE POSSIBLE, THE CLASS AND TYPE AND DEPTH OF EXISTING PIPE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED, AND THE DEPTH TO WHICH IT IS TO BE BURIED.
   - C) SIZE, TYPE AND LOCATION OF VALVES. INDICATE IF LOCATED IN PIT OR IF OPERATION IS BY POST INDICATOR OR KEY WRENCH THROUGH A CURB BOX. INDICATE THE SIZE, TYPE, AND LOCATION OF METERS, REGULATORS, AND CHECK VALVES.
   - D) SIZE AND LOCATION OF HYDRANTS, SHOWING SIZE AND NUMBER OF OUTLETS AND IF OUTLETS ARE TO BE EQUIPPED WITH INDEPENDENT GATE VALVE.
   - E) SPRINKLER AND STANDPIPE RISERS TO BE SUPPLIED BY THE SYSTEM.
   - F) LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS.
2. NPFA 24 (95) SEC. 3-5.1 LARGE PRIVATE FIRE SERVICE MAIN SYSTEMS SHALL HAVE SECTIONAL CONTROLLING VALVES AT APPROPRIATE POINTS IN ORDER TO PERMIT SECTIONALIZING THE SYSTEM IN THE EVENT OF A BREAK, OR FOR THE MAKING OR REPAIRS OR EXTENSIONS.
3. NPFA 24 SEC. 7-2 ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD-COATED AND WRAPPED AFTER ASSEMBLY. FOR BURIED PIPE, GALVANIZING, INTERNALLY OR EXTERNALLY, DOES NOT MEET THE REQUIRMENTS OF THIS SECTION.
4. NPFA 24 SEC. 8-5.2 ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION.
5. NPFA 24 SEC. 8-6.2.8 AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
6. NFPA 24 SEC. 8-6.2 THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONEHALF PARTS SAND, AND FIVE PARTS STONE. THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE OF SUCH BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THE THRUST TO BE ENCOUNTERED, IN GENERAL, THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.
7. NFPA 24 SEC. 8-2.1 UNDERGROUND MAINS SHALL BE COMPLETELY FLUSHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION PER TABLE 9-1.1 TO PRODUCE A VELOCITY OF 10 FT PER SECOND IN PIPES. (WITNESSED BY THE INSPECTOR OF RECORD)
8. NFPA 24 SEC. 8-9.3.1 ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 PSI PRESSURE FOR A MINIMUM OF TWO HOURS. (WITNESSED BY THE INSPECTOR OF RECORD) THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURED AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVE GROUND PIPING. (ALSO, SEE SEC. 9-2.3.3 FOR ALLOWABLE LEAKAGE.) HYDROSTATIC TESTS MUST BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED.
9. NFPA 24 SEC. 9.2.1 BEFORE ASKING FINAL APPROVAL OF AN INSTALLATION BY THE INSPECTOR OF RECORD, THE INSTALLING COMPANY SHALL FURNISH A CONTRACTOR'S MATERIAL AND TEST CERTIFICATE TO BE SUBMITTED TO THE VA.
10. NFPA 24 SEC. 8-1 THE DEPTH OF COVER OVER WATER PIPES SHALL BE NOT LESS THAN 2 1/2 FT. TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3 FT UNDER DRIVEWAYS.
11. NFPA 24 SEC. 8-3.1 PIPE SHALL NOT BE RUN UNDER BUILDINGS.

CONDUITS:

1. CONDUITS FOR POWER, SITE LIGHTING, LOW VOLTAGE SYSTEMS, TELEPHONE, SECURITY, DATA, CABLE TV, CLOSED CIRCUIT TV, FIRE ALARM SYSTEMS, ETC SHALL BE INSTALLED PER THE ELECTRICAL SITE PLANS & DETAILS.
2. ALL CONDUITS SHALL INCLUDE PULL STRINGS.
3. ALL CONDUITS STUBBED TO A SPECIFIC LOCATION FOR FUTURE USE OR USE BY A SEPARATE CONTRACTOR SHALL BE CLEARLY MARKED IN THE FIELD AND DOCUMENTED IN THE CONTRACTOR'S RECORD DOCUMENTS AS TO BOTH DEPTH AND LOCATION.

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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ANDREW E. ARNOLD
No. C 66537
Exp. 06-30-24

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
NOTES

Approved: Project Director

Phase
ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE
UPGRADES - TIER 2

Location
FARGO VA HEALTH CARE SYSTEM

Issue Date
01/16/2024

Checked

Drawn

Project Number
437-21-210

Building Number

Drawing Number
C101

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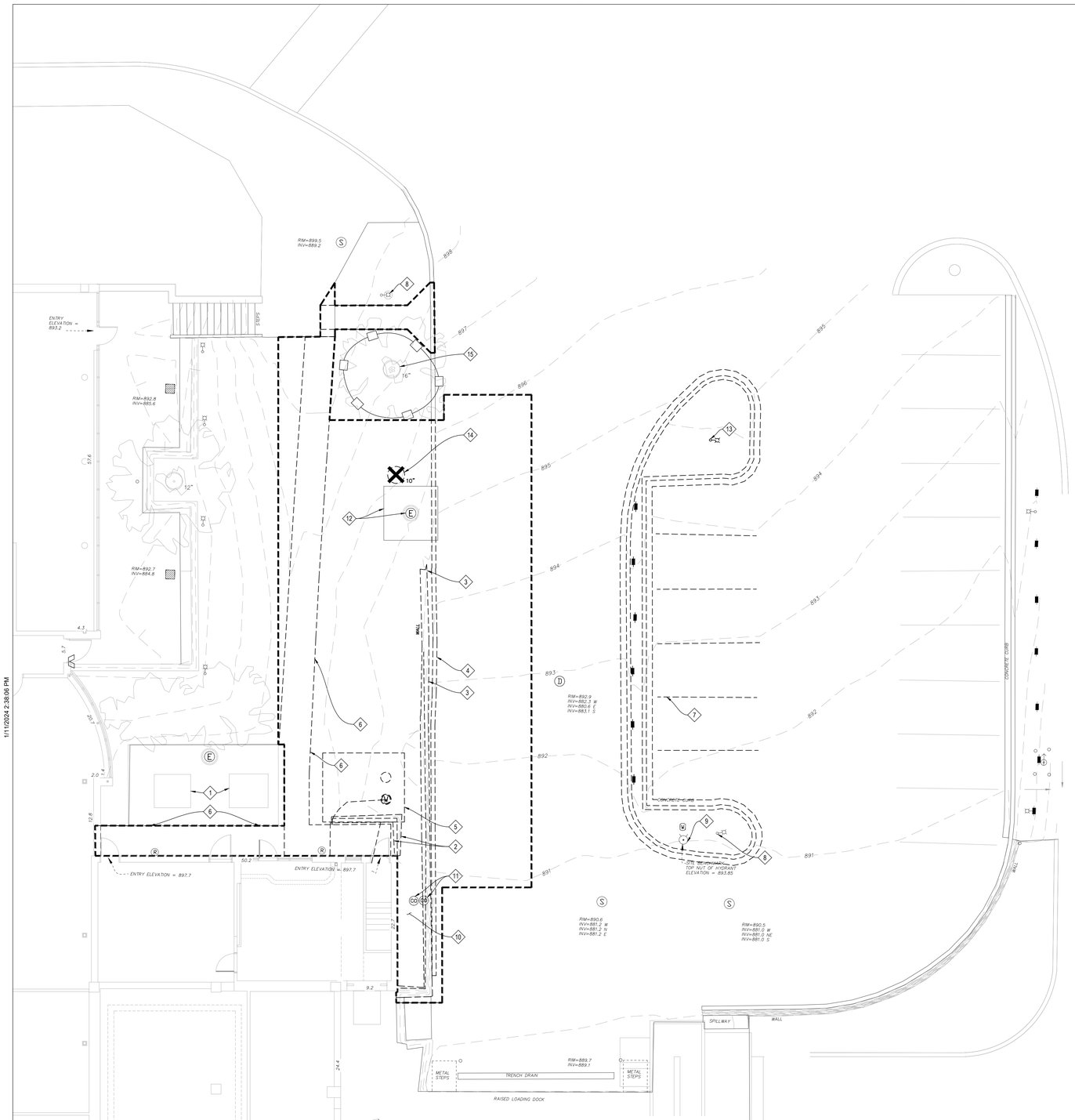

DEMOLITION LEGEND

- DEMOLITION AREA - ALL SITE FEATURES WITHIN THIS AREA ARE TO BE REMOVED, UNLESS NOTED TO REMAIN.
- SITE FEATURES TO BE REMOVED, UNLESS NOTED TO REMAIN.
- TREE PROTECTION TREES TO REMAIN

DEMOLITION KEYNOTES

1. EXISTING TRANSFORMER AND CONCRETE SLAB TO REMAIN, PROTECT IN PLACE.
2. DEMOLISH EXISTING LANDING, SLAB, AND WALL AND RAILING.
3. DEMOLISH EXISTING RETAINING WALL AND RAILING.
4. DEMOLISH EXISTING CURB.
5. REMOVE EXISTING UNDERGROUND FUEL TANK, MANHOLE, PROTECT EXISTING FUEL LINES TO REMAIN, SEE ARCHITECTURAL DRAWINGS. GC SHALL HAVE SOIL EVALUATED AND REMEDIATED IF FUEL TANK LEAKED, CONTACT VA IMMEDIATELY
6. DEMOLISH EXISTING CONCRETE CURBS AND SIDEWALK
7. REMOVE ALL PARKING STRIPING AND SIGNAGE
8. EXISTING LIGHT POLE TO REMAIN, PROTECT IN PLACE.
9. EXISTING FIRE HYDRANT TO REMAIN, PROTECT IN PLACE.
10. REMOVE EXISTING FILL, FIELD VERIFY THAT BOTTOM OF MAIN STRUCTURE FOUNDATION IS BELOW LOADING DOCK DRIVEWAY ELEVATION/DO NOT UNDERMINE EXISTING FOUNDATION.
11. SANITARY SEWER CLEANOUTS TO BE RELOCATED
12. EXISTING ELECTRICAL VAULT TO REMAIN, PROTECT IN PLACE
13. EXISTING LIGHT POLE TO BE REMOVED
14. EXISTING TREE TO BE REMOVED
15. EXISTING TREE, PROTECT IN PLACE SEE 9/C500

DEMOLITION NOTES

1. SEE ELECTRICAL PLANS FOR REMOVAL OR RELOCATION OF ALL ELEC/COMM CONDUITS, BOXES, LINE ETC.
2. SEE UTILITY PLAN FOR ALL NEW TIE-IN LOCATIONS AND ANY INSTANCES OF STORM, SANITARY SEWER, OR WATER BEING RELOCATED. ANY EXISTING UTILITIES NOT BEING USED ARE TO BE REMOVED.
3. ALL EXISTING SERVICES AND UTILITIES THAT ARE WITHIN THE LIMITS OF DEMOLITION AND ARE TO REMAIN OPERATIONAL SHALL BE RELOCATED AS NECESSARY.
4. ALL TREES THAT ARE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF PROPOSED UTILITIES, AND INFORM ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
6. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES DETPHS, SIZES, MATERIALS, INVERTS AND LOCATIONS PRIOR TO BEGINNING ANY WORK ON THIS SITE.

DISCLAIMERS

TOPOGRAPHIC INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, EXISTING GRADES, EXISTING UTILITIES LOCATIONS, ETC., SHOWN ARE FOR GENERAL REFERENCE ONLY AND HAVE BEEN PROVIDED BY OTHERS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY HOHBACH-LEWIN, INC.

HOHBACH-LEWIN WILL NOT BE GIVING ANYMORE CONTROL INFORMATION THAN WHAT IS SHOWN ON THE PLANS. IT'S THE CONTRACTORS RESPONSIBILITY TO CHECK INTO THE BASIS OF BEARING AND BENCHMARK USED FOR THE TOPOGRAPHIC SURVEY. HOHBACH-LEWIN WILL NOT BE GIVING ANY CONTROL POINTS FOR STAKING.

NORTH

0 4' 8' 12' 16'

SCALE: 1" = 8'

CALL BEFORE YOU DIG 800-227-2600

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER ANDREW E. ARNOLD No. C 66537 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: DEMOLITION PLAN	Phase: ISSUE FOR BID
Approved: Project Director	BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2		Project Number: 437-21-210
		Building Number:
Location: FARGO VA HEALTH CARE SYSTEM		Drawing Number: C200
Issue Date: 01/16/2024	Checked:	Drawn:

VA FORM 08 - 6231

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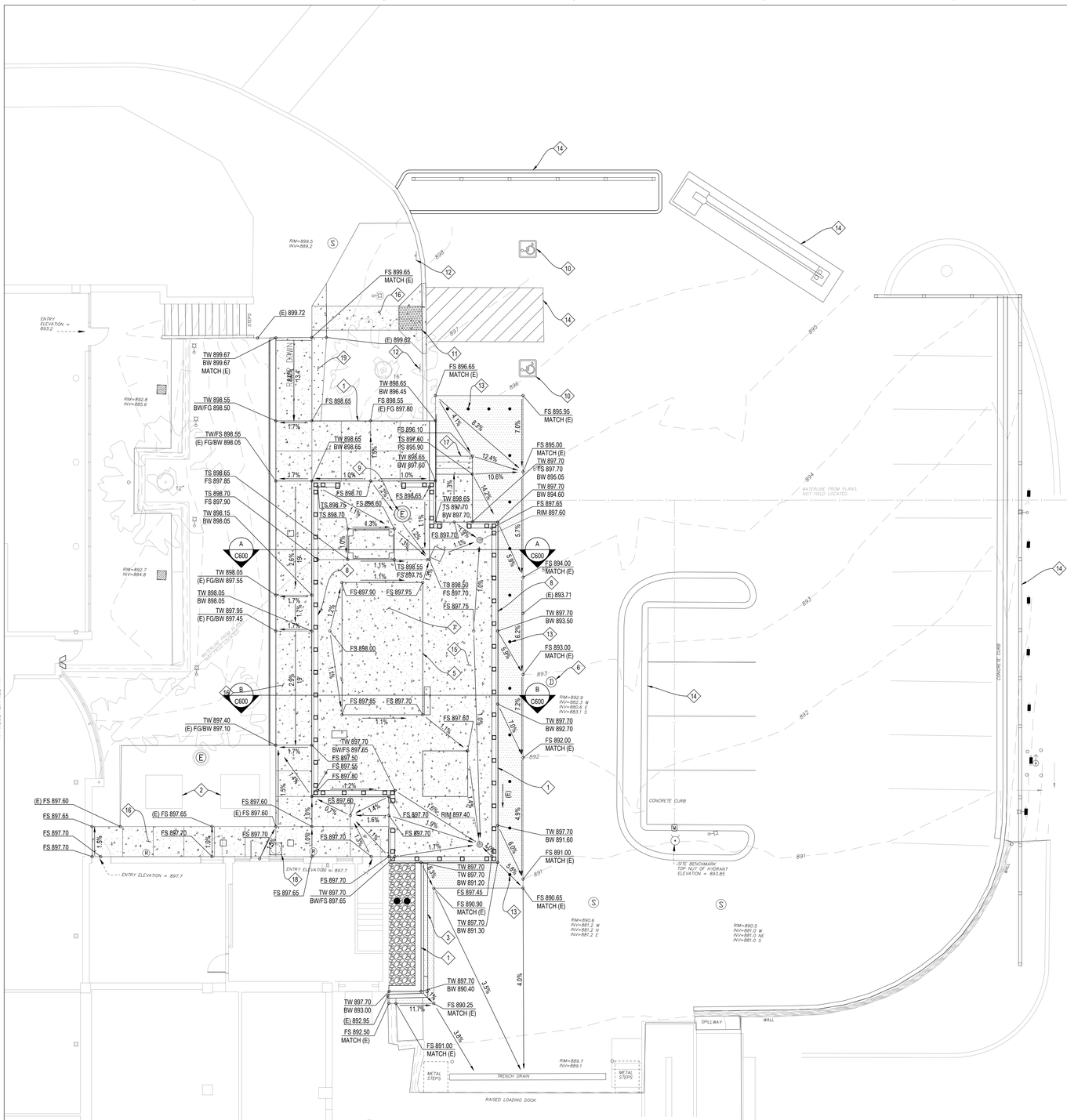

GRADING LEGEND

XX.XX — GRADE ELEVATION

X% — SLOPE AND DIRECTION

GRADING KEYNOTES

1. CONCRETE RETAINING WALL, S.S.D.
2. EXISTING TRANSFORMER TO REMAIN
3. 6" CONCRETE CURB
4. EXISTING AREA DRAIN TO REMAIN
5. ABOVE GROUND FUEL TANK, S.A.D.
6. EXISTING STORM DRAIN MAN HOLE TO REMAIN
7. TRANSFORMER AND PAD, S.A.D.
8. TRANSFORMER ENCLOSURE, S.A.D.
9. EXISTING ELECTRICAL MANHOLE TO REMAIN.
10. INSTALL ACCESSIBLE PARKING STALL PER 13/C500
11. INSTALL ACCESSIBLE RAMP WITH TRUNCATED DOMES PER 10/C500
12. INSTALL SIGN PER 11 AND 12/C500
13. BOLLARDS, SEE 1/C501 AND ARCHITECTURAL PLANS
14. LAYOUT OF CURBS, PARKING, GATES, FENCING TO BE PROVIDED AS FUTURE REVISION
15. CONCRETE SLAB, S.S.D.
16. CONCRETE SIDEWALK, SEE 5/C500
17. CONCRETE STEPS, S.S.D.
18. STRUCTURAL SUPPORT FOR MECH. EQUIPMENT SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS
19. REPLACE/INSTALL LANDSCAPING AS REQUIRED PER SPECIFICATIONS

DISCLAIMERS

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NORTH

0 4' 8' 12' 16'

SCALE: 1" = 8'

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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title GRADING & DRAINAGE PLAN	**Phase** ISSUE FOR BID	**Project Title** EHRM INFRASTRUCTURE UPGRADES - TIER 2	**Project Number** 437-21-210
			Building Number
Approved: Project Director	BUILDING FULLY SPRINKLERED	**Location** FARGO VA HEALTH CARE SYSTEM	**Drawing Number** C300
		Issue Date 01/16/2024 / **Checked** / **Drawn**	

ISSUE FOR BID - 01/16/2024

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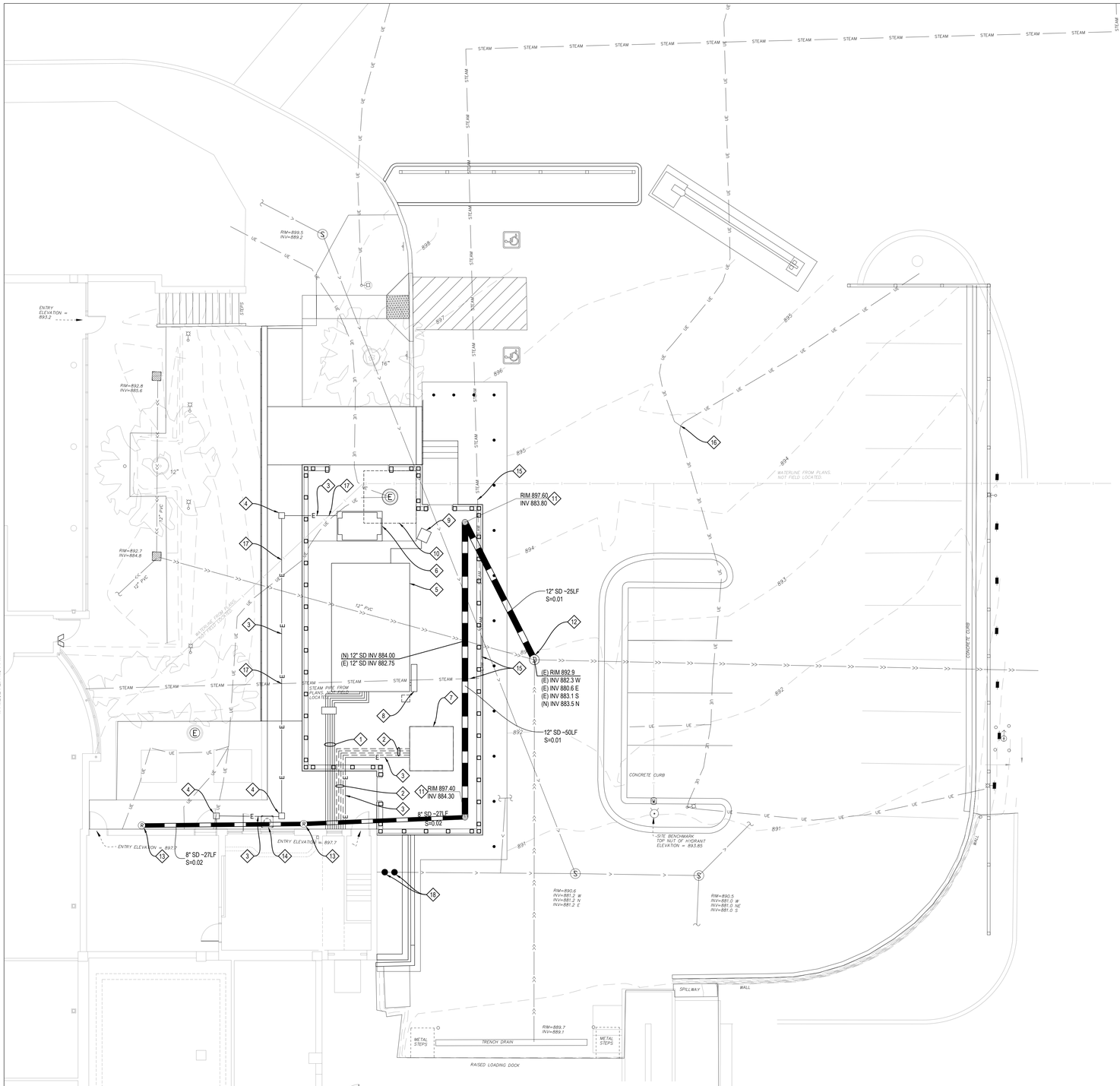

UTILITY LEGEND

- FIRE HYDRANT
- WATER VALVE
- WATER METER
- STORM DRAIN MANHOLE
- BACKFLOW PREVENTER
- CATCH BASIN
- AREA DRAIN
- CLEANOUT TO GRADE
- FIRE DEPARTMENT CONNECTION

UTILITY KEYNOTES

1. FUEL LINES PER MECHANICAL DRAWINGS
2. COOLING PIPING PER MECHANICAL DRAWINGS
3. ELECTRICAL LINE PER ELECTRICAL DRAWINGS
4. PULL BOX PER ELECTRICAL DRAWINGS
5. FUEL TANK PER MECHANICAL DRAWINGS
6. TRANSFORMER PER MECHANICAL DRAWINGS
7. RADIATOR PER MECHANICAL DRAWINGS
8. FILTRATION SYSTEM PER MECHANICAL DRAWINGS
9. FILL BOX PER MECHANICAL DRAWINGS
10. ELECTRICAL VAULT PER ELECTRICAL DRAWINGS
11. INSTALL NEW AREA DRAIN SEE 14/C500
12. NEW 12" STORM DRAIN PIPING TIE-IN TO EXISTING STORM DRAIN MANHOLE
13. ROOF DOWNSPOUT PER ARCH. DRAWINGS
14. STRUCTURAL SUPPORT FOR MECH. EQUIPMENT. SEE STRUCTURAL AND ARCH. DRAWINGS.
15. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING STEAM PIPES AND REPORT TO ENGINEER IMMEDIATELY FOR POTENTIAL CONFLICT AND RELOCATION
16. AT LIGHT POLE TO BE REMOVED. EXISTING ELECTRICAL SERVICE TO REMAIN AS NECESSARY
17. SEE 3/C501 FOR CROSSING UTILITIES
18. RELOCATED SANITARY SEWER CLEANOUTS, SEE 8/C500

UTILITY NOTES

1. CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF PROPOSED UTILITIES, AND INFORM ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
2. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INVERTS AND LOCATIONS PRIOR TO BEGINNING ANY WORK ON THIS SITE.

DISCLAIMERS

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NORTH

0 4' 8' 12' 16'

SCALE: 1" = 8'

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ISSUE FOR BID - 01/16/2024

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Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER ANDREW E. ARNOLD No. C 66537 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: UTILITY PLAN	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: C400

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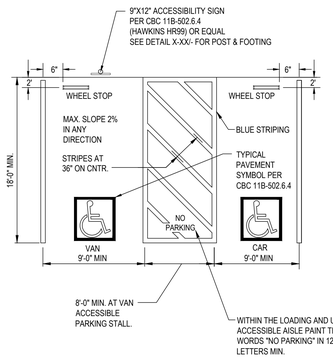
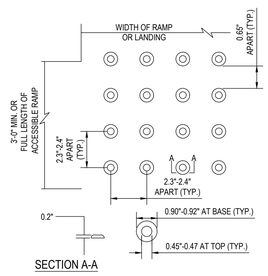


13 ACCESSIBLE PARKING DETAIL NTS



SECTION A-A

TRUNCATED DOMES DETAIL

SEE NOTES 1 & 2

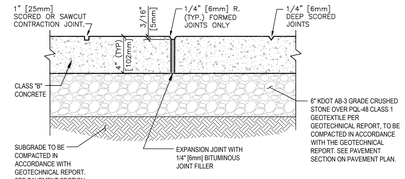
(DOMES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C)

NOTES:

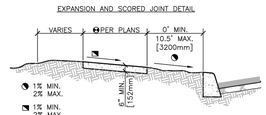
1. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND MIN. 3'-0" DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS ON THIS PLAN AND CALIFORNIA BUILDING CODE.
2. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.

10 TRUNCATED DOMES NTS

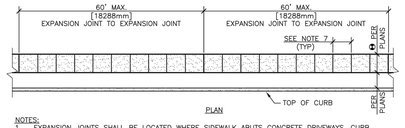
7



EXPANSION AND SCORED JOINT DETAIL



TYPICAL SECTION

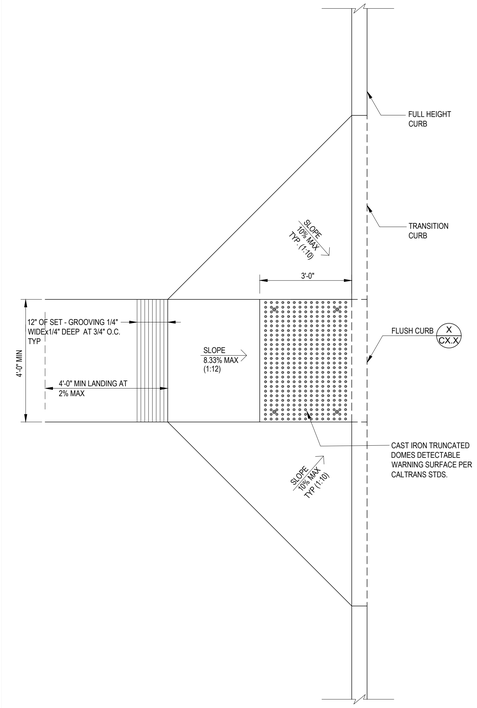


PLAN

NOTES:

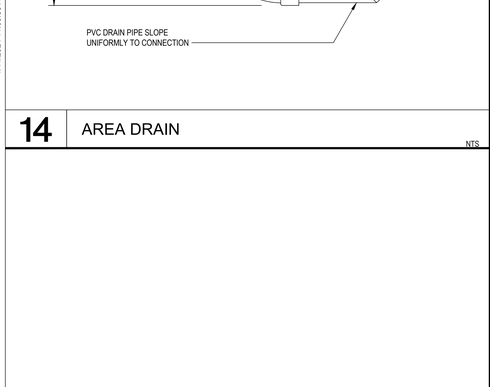
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' [4572mm] OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS.
5. SCORED JOINTS SHALL BE 1/4" [6mm] DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
6. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
7. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6' [1829mm] OR EQUAL TO SIDEWALK WIDTH.

5 CONCRETE SIDEWALK NTS



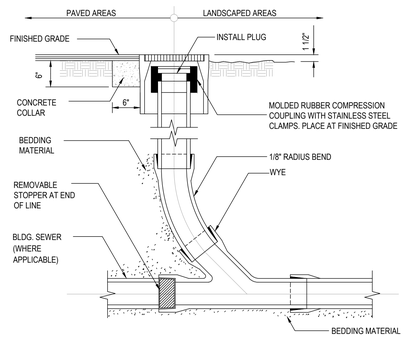
NOTE:
1. PROVIDE A TRANSVERSE BROOMED FINISHED THAT IS ROUGHER THAN SURROUNDING WALKWAYS.

2 ACCESSIBLE RAMP DETAIL NTS



14 AREA DRAIN NTS

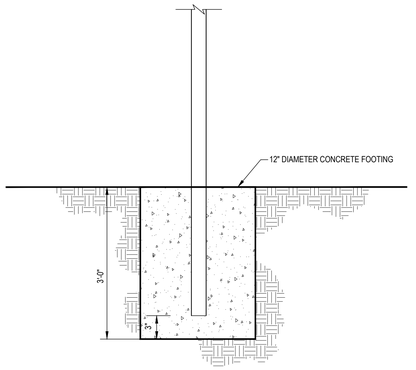
11 ACCESSIBLE PARKING STALL SIGN NTS



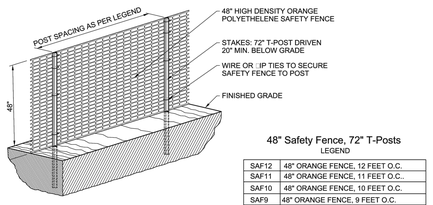
NOTES:

1. FOR PAVED AREAS, INSTALL ROUND, CAST IRON FRAME AND COVER, MARKED "SEWER" OR "STORM" AS APPLICABLE.
2. FOR LANDSCAPED AREAS, INSTALL ROUND, CONCRETE VALVE BOX WITH CAST IRON FACE AND COVER, MARKER "SEWER" OR "STORM" AS APPLICABLE.

8 CLEANOUT TO GRADE NTS



12 TYPICAL SIGN BASE PAVEMENT DETAIL NTS



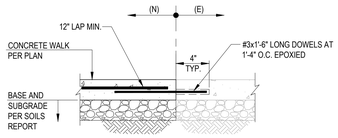
48" Safety Fence, 72" T-Posts

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C..
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C..
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION. ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

9 TREE PROTECTION NTS



NOTES

1. SEE PLANS FOR CONCRETE THICKNESS.
2. SEE SOILS REPORT/VA SPECIFICATIONS FOR COMPACTION REQUIREMENTS.
3. ALL COMPACTION SHALL BE PERFORMED UNDER THE DIRECTION OF THE VA SPECIFICATIONS.
4. SEE SOILS REPORT/VA SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
5. ROUGH EXISTING CONCRETE SURFACE AT JOINT.

6 CONCRETE TO EXISTING CONCRETE CONNECTION NTS

3

15

12

9

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STATE OF CALIFORNIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title	DETAILS
Phase	ISSUE FOR BID
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Project Number	437-21-210
Building Number	
Approved: Project Director	
	BUILDING FULLY SPRINKLERED
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	
Drawn	
Drawing Number	C500

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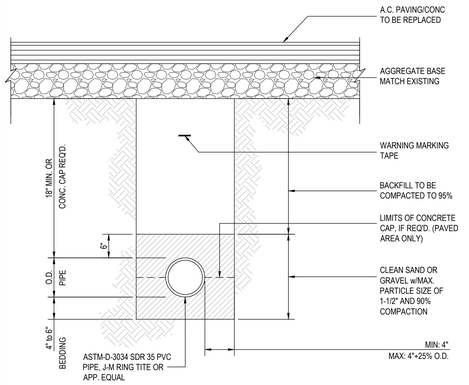
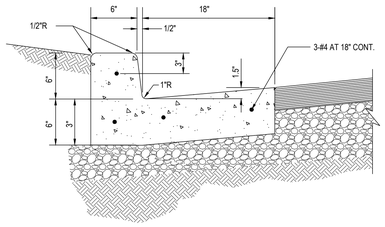


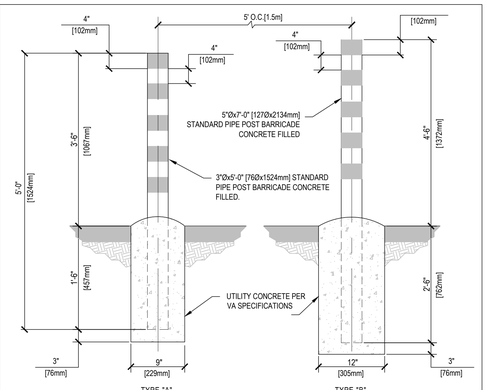
13 UTILITY TRENCH AND BACKFILL

NTS



4 CURB AND GUTTER REPAIR

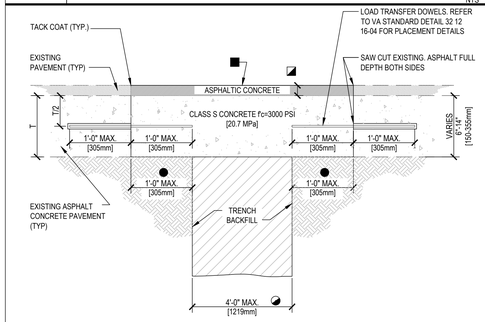
NTS



NOTES:
1. POST BARRICADES WILL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" [102mm] BANDS OF YELLOW REFLECTORIZED TAPE WILL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, WILL BE SUBMITTED TO THE AGENCY FOR APPROVAL.

1 CONCRETE POST BARRICADES

NTS



◔ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] DELETE LOAD TRANSFER DOWELS.

◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.

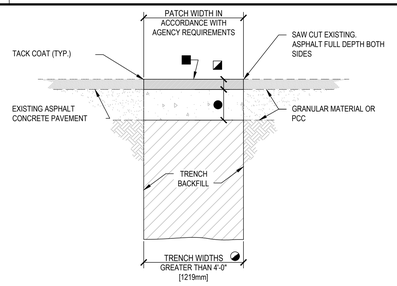
■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].

● REFER TO NOTE 13 ON VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES".

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

14 TYPE 3 UTILITY TRENCH PATCH

NTS



◔ FOR TRENCH WIDTHS 4' [1219mm] OR LESS REFER TO VA STANDARD DETAIL 32 12 16-01 "TYPE 1 UTILITY TRENCH PATCH".
FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".

◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.

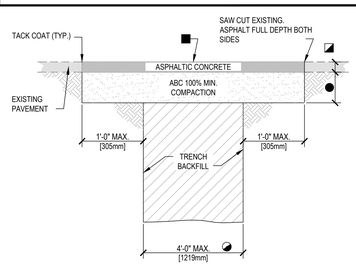
■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].

● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.
PORTLAND CEMENT CONCRETE (PCC) THICKNESS EQUAL TO EXISTING.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

11 TYPE 2 UTILITY TRENCH PATCH

NTS



◔ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH".
FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".

◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.

■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].

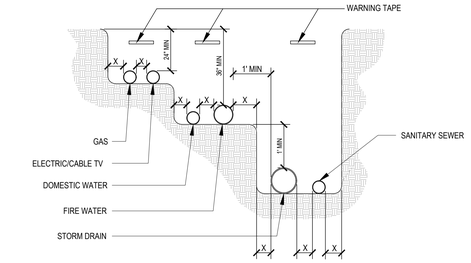
● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

8 TYPE 1 UTILITY TRENCH PATCH

NTS

5



FORMULA:
X=D/4, WITH A 4" MIN

NOTE:
MAINTAIN A MINIMUM 12" HORIZONTAL AND VERTICAL SEPERATION BETWEEN DOMESTIC / FIRE WATER LINES AND SANITARY / STORM SEWERS.

2 ON-SITE MULTIPLE UTILITIES TRENCH

NTS

1. MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
2. TRENCH BACKFILL SHALL COMMENCE 1 FOOT [305mm] ABOVE THE TOP OF PIPE AND SHALL BE PER DETAILS THIS SHEET.
3. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER GEOTECHNICAL REPORT.
4. THE 1 FOOT [305mm] TRENCH "SHOULDER" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
5. ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF DETAILS THIS SHEET.
6. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 03 30 00.
7. ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16.
8. ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 FOR THE TYPE SPECIFIED.
9. BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 FOR THE TYPE SPECIFIED.
10. LOAD TRANSFER DOWELS FOR JOINTS TRANSVERSE TO THE ROADWAY CENTERLINE SHALL BE SMOOTH STEEL DOWELS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23. DOWELS SHALL BE SIZED AND SPACED AS FOLLOWS:

PCCP THICKNESS	DOWEL SIZE	DOWEL LENGTH	DOWEL SPACING
6" [150mm]	#5 [No. 16]	12" [305mm]	18" [455mm]
7" [180mm]	#6 [No. 19]	15" [380mm]	15" [380mm]
8" [180mm]	#8 [No. 19]	15" [380mm]	12" [305mm]
10" [180mm]	#10 [No. 19]	15" [380mm]	12" [305mm]

11. DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET [15240mm]. TIE BARS SHALL BE 24 INCHES [610mm] LONG. DEFORMED #4 [No. 13] BARS FOR PCCP LESS THAN 8 INCHES [205mm] THICK AND #5 [No. 16] BARS IF 8 INCHES [205mm] THICK OR MORE. TIE BARS SHALL BE PLACED 30 INCHES [760mm] CENTER-TO-CENTER.
12. HOLES SHALL BE DRILLED 1 FOOT [305mm] INTO THE EXISTING SLAB FOR TIE BARS AND 7 INCHES [180mm] FOR DOWELS. HOLES SHALL BE OF A DIAMETER SUFFICIENT TO ACCOMMODATE THE TIE BAR ANCHORAGE OR DOWEL CAP. TIE BARS SHALL BE ANCHORED WITH AN APPROVED HIGH VISCOSITY EPOXY.
13. IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET [1829mm] AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.

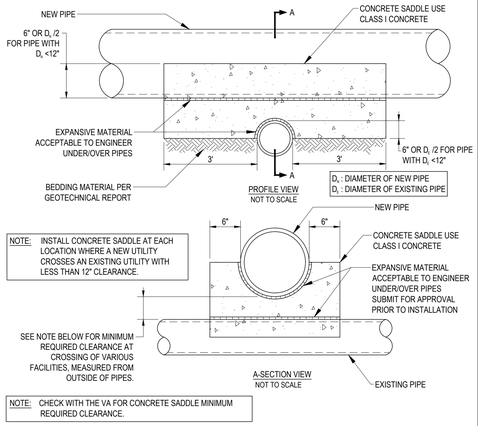
15 UTILITY TRENCH PATCH NOTES

NTS

12

9

6



NOTE: INSTALL CONCRETE SADDLE AT EACH LOCATION WHERE A NEW UTILITY CROSSES AN EXISTING UTILITY WITH LESS THAN 12" CLEARANCE.

NOTE: CHECK WITH THE VA FOR CONCRETE SADDLE MINIMUM REQUIRED CLEARANCE.

3 CONCRETE SADDLE - UPPER PIPE INSTALLATION

NTS

ISSUE FOR BID	**01-16-24**
Revisions:	**Date:**

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Bancroft Project No: 22-113

STAMP

REGISTERED PROFESSIONAL ENGINEER ANDREW E. ARNOLD No. C 66557 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

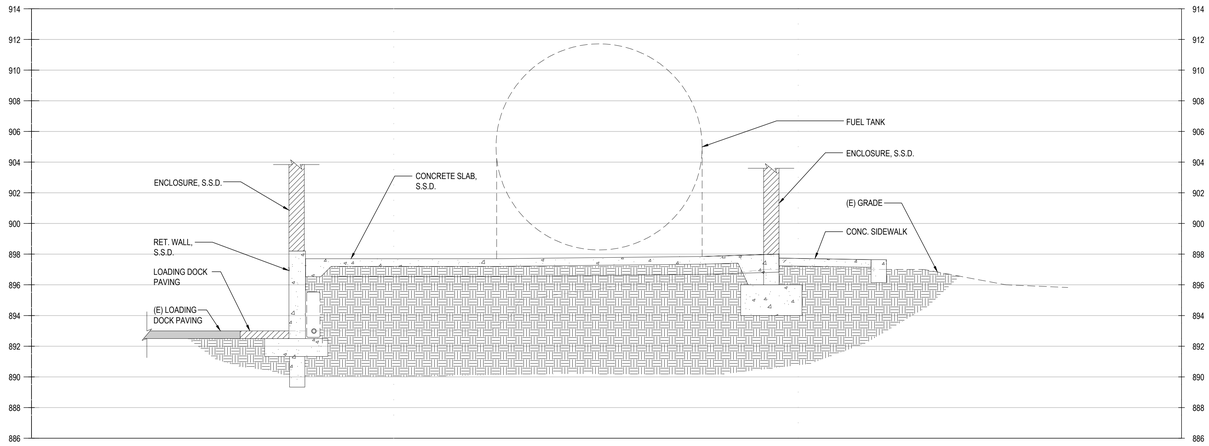
ISSUE FOR BID - 01/16/2024

Drawing Title DETAILS	**Phase** ISSUE FOR BID	**Project Title** EHRM INFRASTRUCTURE UPGRADES - TIER 2	**Project Number** 437-21-210
			Building Number
Approved: Project Director	BUILDING FULLY SPRINKLERED	**Location** FARGO VA HEALTH CARE SYSTEM	**Drawing Number** C501
		Issue Date 01/16/2024 / **Checked** / **Drawn**	

VA FORM 08 - 6231

A-A SITE SECTION AT TRANSFORMER

1"=4'-0"



B-B SITE SECTION AT FUEL TANK

1"=4'-0"

C-C

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: SECTIONS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number:
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: C600
		Issue Date: 01/16/2024 / Checked / Drawn	

1/11/2024 11:37:59 AM

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HOHBACH-LEWIN: 16709.31

VA FORM 08 - 6231

STRUCTURAL GENERAL NOTES

- GENERAL

A. THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF FOR USE ONLY ON THIS PROJECT.

B. CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.

C. DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. WHERE NO DIMENSIONS ARE PROVIDED, OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.

D. COORDINATION - OPENINGS THROUGH WALLS AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.

E. OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DELINEATED.

F. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

G. THERE SHALL BE NO CHANGE IN SIZE OR DIMENSION OF A STRUCTURAL MEMBER, NOR SHALL ANY OPENINGS BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

H. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.

I. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.

J. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND THEIR LOCATION, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, AND ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.

K. TYPICAL DETAILS - DETAILS NOTED AS TYPICAL ARE APPLICABLE WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS AND WHEREVER THE CONDITION OCCURS THROUGHOUT THE PROJECT, INCLUDING LOCATIONS WHERE THE DETAIL IS NOT EXPLICITLY SPECIFIED OR REFERENCED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY LOCATIONS WHERE TYPICAL DETAILS ARE APPLICABLE PRIOR TO CONSTRUCTION.

- EXISTING CONSTRUCTION/ CONDITIONS:

A. SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.

B. EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

C. DEMOLITION: THE REMOVAL, CUTTING, DRILLING. ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION.

- DESIGN BASIS

A. APPLICABLE CODE: PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, UON:
   1. INTERNATIONAL BUILDING CODE, 2018 EDITION
   2. VA PG 18-1, MASTER CONSTRUCTION SPECIFICATIONS
   3. VA PG 18-3, DESIGN AND CONSTRUCTION PROCEDURES

B. VERTICAL LOAD - LIVE LOADS:
   1. DATA CENTER: 40 psf
   2. STAIRS/EXITS: 100 psf
   3. LIGHT STORAGE: 125 psf
   4. ROOF: VARIES WITH SLOPE (20 psf max.)

C. VERTICAL LOAD - SUPERIMPOSED DEAD LOADS:
   1. DATA CENTER: 150 psf

D. VERTICAL LOAD - ROOF SNOW LOAD: 42 psf

E. LATERAL LOADS:
   1. DESIGN WIND CRITERIA (STRENGTH LEVEL): PER ASCE 7-16
      BASIC DESIGN WIND SPEED: 124 mph
      WIND EXPOSURE: B
   2. DESIGN SEISMIC CRITERIA:
      SITE CLASS: D
      S_{DS} = 0.062g
      S_{D1} = 0.03g
      IMPORTANCE FACTOR, I= 1.5
      SEISMIC DESIGN CATEGORY= A
      LATERAL SYSTEM DESCRIPTION: STEEL LATERAL FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
      RISK CATEGORY = IV

- CONCRETE

A. CONCRETE SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH ACI 318.

B. CONCRETE SHALL BE AS FOLLOWS:

CONCRETE USE	STRENGTH AT 28 DAYS U.O.N.	W/C RATIO	MAX. AGGREGATE SIZE	WEIGHT	SHRINKAGE
SLAB ON GRADE	3000 PSI	0.45 MAX.	3/4" TO 1" (LS)	145pcf	.045%
FOUNDATIONS	4000 psi	0.50 MAX.	3/4" TO 1"	145pcf	-
HSS COLUMN FILL	3000 PSI	0.45 MAX.	1/2"	145pcf	-
CAST-IN PLACE WALLS	4000 psi	0.45 MAX.	3/4" (LS)	145pcf	.045%

(LS) CRUSH LOW SHRINKAGE ROCK

C. STRENGTH: COMPRESSIVE STRENGTH IN PSI WHEN TESTED IN ACCORDANCE WITH ASTM C39

D. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II OR TYPE I.

E. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. FOR LOW SHRINKAGE AGGREGATE; USE LIMESTONE OR GRANITE. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.

F. FLY ASH: ASTM C 618, CLASS F OR CLASS C. MINIMUM RECOMMENDED FLY ASH F. CONTENT BY MASS OF CEMENTITIOUS MATERIAL IS 20%. MAXIMUM RECOMMENDATION IS 25%.

G. ADMIXTURES: MIX SHALL CONTAIN POLYMER BASED, WATER REDUCING ADMIXTURE. THE FOLLOWING TYPES OF ADMIXTURES ARE ALLOWED AS PLASTICIZERS AND/ OR SET ACCELERATORS TO IMPROVE WORKABILITY. 1. ASTM C494, TYPES A, C, E, G. HIGH RANGE WATER REDUCERS SHALL ALSO MEET REQUIREMENTS OF ASTM C 1017. 2. THE INITIAL SLUMP OF THE CONCRETE BEFORE INTRODUCING ADMIXTURES SHOULD BE MINIMUM 2" INCHES

H. SHRINKAGE - CONTRACTOR TO PROVIDE CONCRETE MIX HISTORY DATA OR PROVIDE TESTING REPORT.

I. MINIMUM REINF. COVER FOR CAST-IN-PLACE CONCRETE:
   1. CONC. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. . . . . 3"
   2. CONC. FORMED BELOW GRADE OR EXPOSED TO WEATHER:
      NO. 6 AND GREATER . . . . 2"
      NO. 5 AND SMALLER . . . . 1 1/2"
   3. CONC. NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND:
      SLABS, WALLS, AND JOISTS: NO. 11 AND SMALLER . . . . 1"
      BEAMS AND COL: PRIMARY REINF., TIES, STIRRUPS, SPIRALS . . . . 1 1/2"

J. PLACEMENT
   1. ALL REINFORCING BARS, ANCHOR BOLTS, AND ALL OTHER CONC. INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
   2. CHAMFER ALL CORNERS OF CONCRETE TO PREVENT DAMAGE.
   3. CONSTRUCTION TOLERANCE SHALL COMPLY TO ACI 117.
   4. CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION BETWEEN PREDETERMINED CONSTRUCTION JOINTS.
   5. USE VIBRATORS TO CONSOLIDATE CONCRETE. DO NOT USE VIBRATORS TO MOVE CONCRETE.
   6. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS AFTER PLACEMENT IN ANY APPROVED MANNER. FOOTINGS ARE EXEMPTED FROM THIS REQUIREMENT.
   7. PATCHING OF CONCRETE: ALL INSERT HOLES AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A UNIFORM FINISH.

K. PIPES - PLASTIC OR METAL (NON-ALUMINUM) CONDUITS MAY BE EMBEDDED IN THE SLAB PROVIDED THAT THE FOLLOWING CRITERIA ARE MET:
   1. NO PIPES OR CONDUITS, OTHER THAN ELECTRICAL, SHALL BE EMBEDDED IN STRUCTURAL CONCRETE
   2. THE MAXIMUM CONDUIT SIZE SHALL BE 1 3/4 INCH OUTSIDE DIAMETER
   3. CONDUITS TO BE LIMITED TO TEN (10) CONDUITS EVERY TEN (10) FEET
   4. LOCATE CONDUITS WITHIN THE MIDDLE THIRD OF THE SLAB THICKNESS
   5. PROVIDE A MINIMUM OF SIX (6) INCHES CLEAR SPACING BETWEEN ADJACENT CONDUIT
   6. NO CONDUIT SHALL BE LOCATED WITHIN COLUMN DROP CAPS OR BETWEEN STUD RAILS OR WITHIN A THREE (3) FOOT RADIUS OF A COLUMN.
   7. AVOID INTERSECTING CONDUITS WHERE POSSIBLE. INTERSECTING CONDUITS ARE TO BE INSTALLED PERPENDICULAR TO EACH OTHER. NO MORE THAN TWO (2) CONDUITS PER INTERSECTION. DO NOT INTERSECT CONDUIT AT POST-TENSIONING TENDON OR REINFORCEMENT INTERSECTIONS.
   8. IF DENSER AMOUNTS OF CONDUIT OCCURS, CONTACT THE ENGINEER FOR ASSISTANCE. SEE DETAILS FOR ALLOWABLE CONDUIT GROUPS AND LAYOUTS
   9. DO NOT COIL EXCESS CONDUITS IN SLAB.

L. PENETRATIONS - PENETRATIONS SHALL NOT BE PERMITTED IN BEAMS OR DROP CAPS EXCEPT AS SHOWN IN TYPICAL DETAILS.

M. INSERTS - ALL INSERTS AND SLEEVES SHALL BE CAST IN PLACE WHENEVER POSSIBLE. DRILLED AND POWER-DRIVEN FASTENERS WILL BE PERMITTED ONLY WHEN IT CAN BE SHOWN THAT THE INSERTS WILL NOT SPALL THE CONCRETE .

N. CONSTRUCTION JOINTS:
   1. CONSTRUCTION JOINTS SHOWN MAY BE PROVIDED AT CONTRACTORS OPTION. ANY PROPOSED CONSTRUCTION JOINTS NOT SHOWN MUST BE SUBMITTED TO THE DESIGN PROFESSIONAL OF RECORD FOR APPROVAL.
   2. ROUGHENED CONSTRUCTION JOINTS (R.C.J.): WHERE NOTED ON DRAWINGS R.C.J. ROUGHEN JOINT TO MINIMUM 1/4 INCH AMPLITUDE.

P. ALL CONC. TO BE REINFORCED UNLESS SPECIFICALLY MARKED "NOT REINFORCED".

Q. SOME DEGREE OF CRACKING IS TO BE EXPECTED FOR CAST-IN-PLACE CONCRETE. CONCRETE SURFACES EXPOSED TO WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION AND/OR FINAL CONDITION SHALL BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER PENETRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.

- REINFORCING STEEL

A. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318.

B. REINFORCING STEEL SHALL BE AS FOLLOWS:

REINF.	TYPE
BARS/TIES/SPIRALS	ASTM A615, GRADE 60, U.O.N.
WELDED REINF.	ASTM A706, GRADE 60 OR 80 AS NOTED
TIE AND SPIRAL WIRE REINF.	ASTM A1064, GRADE 60
BARS (WHERE NOTED ON DRAWING)	GLASS FIBER REINFORCED POLYMER (GFRP), ASTM D 7957
REINF. USE	TYPE
SLAB-ON-GRADE	ASTM A615, GRADE 60
FOUNDATIONS	ASTM A615, GRADE 60

* THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED Fy BY MORE THAN 18,000 PSI; AND THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.

C. DO NOT FIELD BEND OR STRAIGHTEN IN ANY MANNER THAT WILL DAMAGE REINFORCING.

D. PROVIDE SPLICES IN REINFORCING ONLY WHERE SHOWN ON DRAWINGS OR APPROVED IN WRITING BY ENGINEER OF RECORD.

E. WELDING TO CONFORM TO AWS D1.4

- STEEL

A. STRUCTURAL STEEL TO BE SUPPLIED DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

B. U.O.N. STEEL SHALL BE AS FOLLOWS:
   1. WIDE FLANGE SHAPES: ASTM A992
   2. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C (Fy = 50 ksi), U.O.N.
   3. PIPES: ASTM A53, GR. B
   4. OTHER SHAPES AND PLATES: ASTM A36, ASTM A572 GR. 50 AS NOTED.
   5. BOLTS: ASTM A307
   6. HIGH STRENGTH BOLTS: ASTM F3125 GRADE A325, U.O.N.
   7. THREADED RODS: ASTM A36, U.O.N.
   8. ANCHOR RODS: F1554 GR. 36 TYP., U.O.N.
   9. WELDING ELECTRODES: E-70xx U.O.N.
   10. WELDED STUDS: FLUX FILLED HEADED STUDS CONFORMING TO ASTM A108 BY NELSON OR EQUAL.

*NOTE: REFERENCE TYPICAL DETAIL SHEETS FOR OTHER GRADES OF STEEL REQUIRED AT SEISMIC LOAD RESISTING SYSTEMS (SLRS) WHERE OCCURS.

C. WELDING TO CONFORM TO AWS AND TO BE PERFORMED BY CERTIFIED WELDERS.

D. BUTT WELDS ARE TO BE COMPLETE PENETRATION U.O.N. ALL FILLET WELDS SHOWN ARE MINIMUM REQUIRED BY STRESS. INCREASE WELDS TO A.I.S.C. MINIMUM SIZES BASED ON THICKNESS OF MATERIAL JOINED U.O.N.

E. STEEL BEAMS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS OR GRID LINES, U.O.N.

F. STEEL NOT RECEIVING FIRE PROOFING SHALL BE SHOP PRIMED.

G. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP ZINC GALVANIZED U.O.N.

H. NON SHRINK GROUT: 7500 psi COMPRESSIVE STRENGTH, NON METALLIC CONFORMING TO ASTM C1107. MASTERFLOW 928 OR EQUAL.

I. INTUMESCENT PAINT TO MEET REQUIREMENTS OF ASTM E119.

- EPOXY ANCHORS (CMU INSTALLATION ONLY)

A. EPOXY ADHESIVE SHALL BE SIMPSON SET-XP ADHESIVE ANCHOR (IAPMO UES ER-265) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.

B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE IBC.

MIN. f'm= 1500 PSI MINIMUM (LIGHTWEIGHT, MEDIUM-WIEGHT OR NORMAL-WEIGHT CMU) *						
REINF.	THREADED ROD DIAMETER	HOLE DIAMETER	MIN. DEPTH OF EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE **
#4	1/2" DIA.	5/8"	4 1/2"	12"	8"	3,650 #
#5	5/8" DIA.	3/4"	5 5/8"	12"	8"	3,790 #
N/A	3/4" DIA.	7/8"	6 1/2"	12"	8"	3,790 #

* FOR SINGLE ANCHOR WITH NO EDGE DISTANCE OR SPACING REDUCTIONS. FOR OTHER CASES REFER TO IAPMO UES REPORT.

** TENSION TESTS VALUES ONLY AND CORRESPOND WITH 2x ALLOWABLE TENSION LOADS.

- CONTRACTOR SUBMITTALS

THE FOLLOWING IS A LISTING OF REQUIRED ITEMS TO BE SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (TO BE PROVIDED IF MARKED):

SUBMITTAL	CERTIFICATE	SHOP DRAWINGS (2)	CALCS W/ ENG. STAMP	DEFERRED SUBMITTAL (1)
CONCRETE REINF. STEEL	☒	☒		
CONCRETE MIX DESIGN		☒		
STRUCTURAL STEEL	☒	☒		

(1) DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR ENGINEER FOR REVIEW AND COORDINATION, THEN SUBMITTED TO THE APPROPRIATE JURISDICTION FOR APPROVAL. THIS SUBMITTAL SHALL INCLUDE HOHBACH-LEWIN'S SHOP DRAWING STAMP INDICATING THE STRUCTURAL REVIEW HAS BEEN COMPLETED AND THAT THE PLANS AND CALCULATIONS FOR THE DEFERRED APPROVAL ITEMS ARE IN GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED WITHIN THE CONTRACT DOCUMENTS.

(2) ELECTRONIC SHOP DRAWINGS ARE TO BE SUBMITTED TO HOHBACH-LEWIN FOR REVIEW. AT HOHBACH-LEWIN'S REQUEST, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HARD COPIES OF SHOP DRAWINGS FOR REVIEW.

- EPOXY ANCHORS (CONCRETE INSTALLATION ONLY)

A. EPOXY ADHESIVE SHALL BE SIMPSON "SET-XP" ADHESIVE ANCHOR (ESR-2508) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.

B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR. CONTRACTOR TO NOTIFY E.O.R. OF ANY ANCHOR/ DOWEL LOCATIONS TO BE REPAIR. E.O.R. TO REVIEW AND APPROVE ANCHORAGE LOCATIONS PRIOR TO THE EPOXY ANCHORAGE INSTALLATION.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE IBC.

D. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.

E. DO NOT SUBSTITUTE EPOXIED DOWELS FOR HOOKED BARS.

F. ALL EPOXY ANCHORS SHALL BE TENSION TESTED. WHEN EPOXY ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.

G. CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS

MIN. WITH f'c= 2500 PSI CONCRETE (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. **						
REINF. DOWEL	THREADED ANCHOR ROD	HOLE DIAMETER	MIN. EMBED.	MIN. EDGE DISTANCE *	MIN. SPACING	TENSION TEST VALUE ***
#3	1/2" DIA	5/8" DIA.	2 3/4"	1 3/4"	8"	1,675#
#4	1/2" DIA.	5/8" DIA.	4"	4 1/2"	12"	3,890#
#5	5/8" DIA.	3/4" DIA.	5"	4 3/4"	15"	3,750#
#6	3/4" DIA.	7/8" DIA.	6"	5 1/2"	18"	6,475#
#7	7/8" DIA.	1" DIA.	8"	7"	24"	6,400#
#8	1" DIA.	1 1/8" DIA.	8 1/2"	7"	26"	10,260#

MIN. WITH f'c= 3000 PSI CONCRETE (NORMAL WEIGHT CONCRETE) VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. **						
REINF. DOWEL	THREADED ANCHOR ROD	HOLE DIAMETER	MIN. EMBED.	MIN. EDGE DISTANCE *	MIN. SPACING	TENSION TEST VALUE ***
#3	1/2" DIA.	5/8" DIA.	2 3/4"	1 3/4"	8"	1,840#
#4	1/2" DIA.	5/8" DIA.	4"	4 1/2"	12"	3,890#
#5	5/8" DIA.	3/4 DIA.	5"	4 3/4"	15"	3,750#
#6	3/4" DIA.	7/8" DIA.	6"	5 1/2"	18"	7,100#
#7	7/8" DIA.	1" DIA.	8"	7"	24"	6,400#
#8	1" DIA.	1 1/8" DIA.	8 1/2"	7"	26"	11,240#

* MINIMUM EDGE DISTANCE LIMITATION ASSUMED FROM ONE EDGE ONLY.

** FOR SINGLE ANCHORS WITH NO ADDITIONAL EDGE DISTANCE OR SPACING REDUCTIONS. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318 IS REQUIRED.

*** TENSION TEST VALUES CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS (STRENGTH).

- EXPANSION ANCHORS

A. EXPANSION BOLTS SHALL BE HILTI KWIK-BOLT TZ-CARBON STEEL ANCHOR (ESR-1917) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
   a. PROVIDE HILTI KWIK-BOLT 3 ANCHOR (ICC ESR-1385) AT MASONRY APPLICATION

B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR. CONTRACTOR TO NOTIFY E.O.R. OF ANY ANCHOR/ DOWEL LOCATIONS TO BE REPAIR. E.O.R. TO REVIEW AND APPROVE ANCHORAGE LOCATIONS PRIOR TO THE EXPANSION ANCHORAGE INSTALLATION.

C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1704 OF THE IBC.

D. ALL EXPANSION ANCHORS SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.

E. CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS

VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. MIN. f'c = 2500 PSI (NORMAL WEIGHT CONCRETE) *					
DIA.	MIN. EMBED	MIN. HOLE DEPTH	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE **
3/8"	2 1/4"	2 5/8"	4"	6"	1,509#
1/2"	3 5/8"	4"	6"	9 3/4"	3,267#
5/8"	4 1/2"	4 3/4"	6 3/4"	12"	4656#
3/4"	5 3/8"	5 3/4"	9"	13 1/4"	5,850#

* FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 318 IS REQUIRED.

** TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS.

SYMBOLS

	DETAIL NUMBER SHEET NUMBER
	DROP IN FLOOR ELEVATION, S.A.D.
	SLOPED FINISH SEE ARCHITECTURAL DRAWING
	CONCRETE CURB OR HIGH STEM
	ELEVATION AT BOTTOM OF FOOTING WITH RESPECT TO BUILDING DATUM 0'-0".
	STEP IN FOOTING, SEE 10/S501
	CONCRETE WALLS ABOVE
	VERTICAL WALL JOINT, SEE DET. 10/S503
	STRUCTURAL STEEL COLUMN SEE SHEET S701. "X" DENOTES LEVEL OF COLUMN TERMINATION "R" = ROOF, "P" = PARAPET

STRUCTURAL SHEET INDEX

S100	STRUCTURAL GENERAL NOTES
S200	ENCLOSURE FOUNDATION PLAN
S201	PARTIAL 2ND FLOOR ROOF FRAMING PLAN
S202	PARTIAL 3RD FLOOR ROOF FRAMING PLAN
S203	PARTIAL 4TH FLOOR FRAMING PLAN
S501	CONCRETE DETAILS
S502	CONCRETE DETAILS
S701	STEEL DETAILS
S702	STEEL DETAILS

ABBREVIATIONS

&	AND
@	AT
A.B.	ANCHOR BOLT
ADD'L.	ADDITIONAL
ARCH.	ARCHITECTURAL
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAIL
B.O.C.	BOTTOM OF CONCRETE
BOT.	BOTTOM
CL.	CENTER LINE
CANT.	CANTILEVER
CBC	CALIFORNIA BUILDING CODE
C.D.F.	CONTROLLED DENSITY FILL
C.G.S.	CENTER OF GRAVITY OF POST-TENSIONING STRAND
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPRESSION
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CTR.	CENTER
DBL	DOUBLE
DET.	DETAIL
D.F.	DOUGLAS FIR
DIA.	DIAMETER
DO	DITTO
DWG.	DRAWINGS
E	EAST
(E)	EXISTING
EA.	EACH
E.B.M.	EXTERIOR BUILDING MAINTENANCE
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
E.N.	EDGE NAIL
E.W.	EACH WAY
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
F.F.	FINISH FLOOR
F.G.	FINISHED GRADE
FLR.	FLOOR
F.N.	FIELD NAIL
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
F.R.T.	FIRE RETARDANT TREATED
F.S.	FAR SIDE
FTG.	FOOTING
GA.	GAUGE
GB	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GLB	GLUE LAMINATED (BEAM)
HCA	HEADED CONC. ANCHOR (STUD)
HD	HOLDOWN
HDR	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
HT.	HEIGHT
H.S.	HIGH STRENGTH
H.S.B.	HIGH STRENGTH BOLTS
HSS	HOLLOW STEEL SECTION
HSSH	HORIZONTAL SHORT SLOTTED HOLES
INT.	INTERIOR
J.H.	JOIST HANGER
LLH	LONG LEG HORIZ.
LLV	LONG LEG VERT.
LSH	LONG SLOTTED HOLE
LSL	LAMINATED STRAND LUMBER
LONG.	LONGITUDINAL
L.V.F.	LOW-VELOCITY FASTENER
LVL	LAMINATED VENEER
MAX.	MAXIMUM
MECH.	MECHANICAL
MANUF.	MANUFACTURER
M.B.	MACHINE BOLTS
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N	NORTH
(N)	NEW
NO.	NUMBER
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
OSSC	OREGON STRUCTURAL SPECIALTY CODE
O.W.S.J.	OPEN WEB STEEL JOIST
O.W.W.J.	OPEN WED WOOD JOIST
PL.	PLATE
PERP.	PERPENDICULAR
PLY	PLYWOOD
P.T.	PRESERVATIVE TREATED
P/T	POST-TENSIONS
PSL	PARALLEL STRAND LUMBER
R.C.J.	ROUGHENED CONSTRUCTION JOINT
REINF.	REINFORCEMENT
REQD.	REQUIRED
S	SOUTH
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.	SLIP CRITICAL
S.C.D.	SEE CIVIL DRAWINGS
SCHED.	SCHEDULE
SDS	SELF-DRIVING SCREW
SIM.	SIMILAR
S.J.	SEISMIC JOINT SYSTEM
S.M.D.	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
S.O.G.	SLAB-ON-GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
SSH	SHORT SLOTTED HOLE
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TD	TIEDOWN
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL FRAMING
T.O.P.	TOP OF PLATE/ TOP OF PARAPET
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U.T.	ULTRASONIC TESTING
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W	WEST
W/	WITH
WF	WIDE FLANGE
W.H.S.	WELDED HEADED STUD
W.J.	WALL JOINT
W/O	WITHOUT
W.P.	WORK POINT

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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BAE PROJECT NO. 18-121

STAMP

DANIEL G. LEWIN
S 3272

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: GENERAL STRUCTURAL NOTES

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024

Checked

Drawn

Project Number: 437-21-210

Building Number

Drawing Number: S100

HOHBACH-LEWIN: 16709

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VA FORM 08 - 6231

STRUCTURAL GENERAL NOTES

· CONTRACTOR SUBMITTALS

THE FOLLOWING IS A LISTING OF REQUIRED ITEMS TO BE SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (TO BE PROVIDED IF MARKED):

SUBMITTAL	CERTIFICATE	SHOP DRAWINGS (2)	CALCS W/ ENG. STAMP	DEFERRED SUBMITTAL (1)
CONCRETE REINF. STEEL	X	X		
CONCRETE MIX DESIGN		X		
STRUCTURAL STEEL	X	X		

(1) DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR ENGINEER FOR REVIEW AND COORDINATION, THEN SUBMITTED TO THE APPROPRIATE JURISDICTION FOR APPROVAL. THIS SUBMITTAL SHALL INCLUDE HOHBACH-LEWIN'S SHOP DRAWING STAMP INDICATING THE STRUCTURAL REVIEW HAS BEEN COMPLETED AND THAT THE PLANS AND CALCULATIONS FOR THE DEFERRED APPROVAL ITEMS ARE IN GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED WITHIN THE CONTRACT DOCUMENTS.

(2) ELECTRONIC SHOP DRAWINGS ARE TO BE SUBMITTED TO HOHBACH-LEWIN FOR REVIEW, AT HOHBACH-LEWIN'S REQUEST, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HARD COPIES OF SHOP DRAWINGS FOR REVIEW.

SYMBOLS

X / SXXX	DETAIL NUMBER / SHEET NUMBER
	DROP IN FLOOR ELEVATION, S.A.D.
SLOPE	SLOPED FINISH SEE ARCHITECTURAL DRAWING
	CONCRETE CURB OR HIGH STEM
[-X'-X"]	ELEVATION AT BOTTOM OF FOOTING WITH RESPECT TO BUILDING DATUM 0'-0".
S — – — S	STEP IN FOOTING, SEE 10/S501
	CONCRETE WALLS ABOVE
P.J.	VERTICAL WALL JOINT, SEE DET. 10/S503
W12 x 26	STRUCTURAL STEEL COLUMN SEE SHEET S701. "X" DENOTES LEVEL OF COLUMN TERMINATION "R" = ROOF, "P" = PARAPET

ISSUE FOR BID	01-16-24
Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER DANIEL G. LEWIN S 3272 STRUCTURAL CALIFORNIA U.S.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: GENERAL STRUCTURAL NOTES	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: S101

VA FORM 08 - 6231

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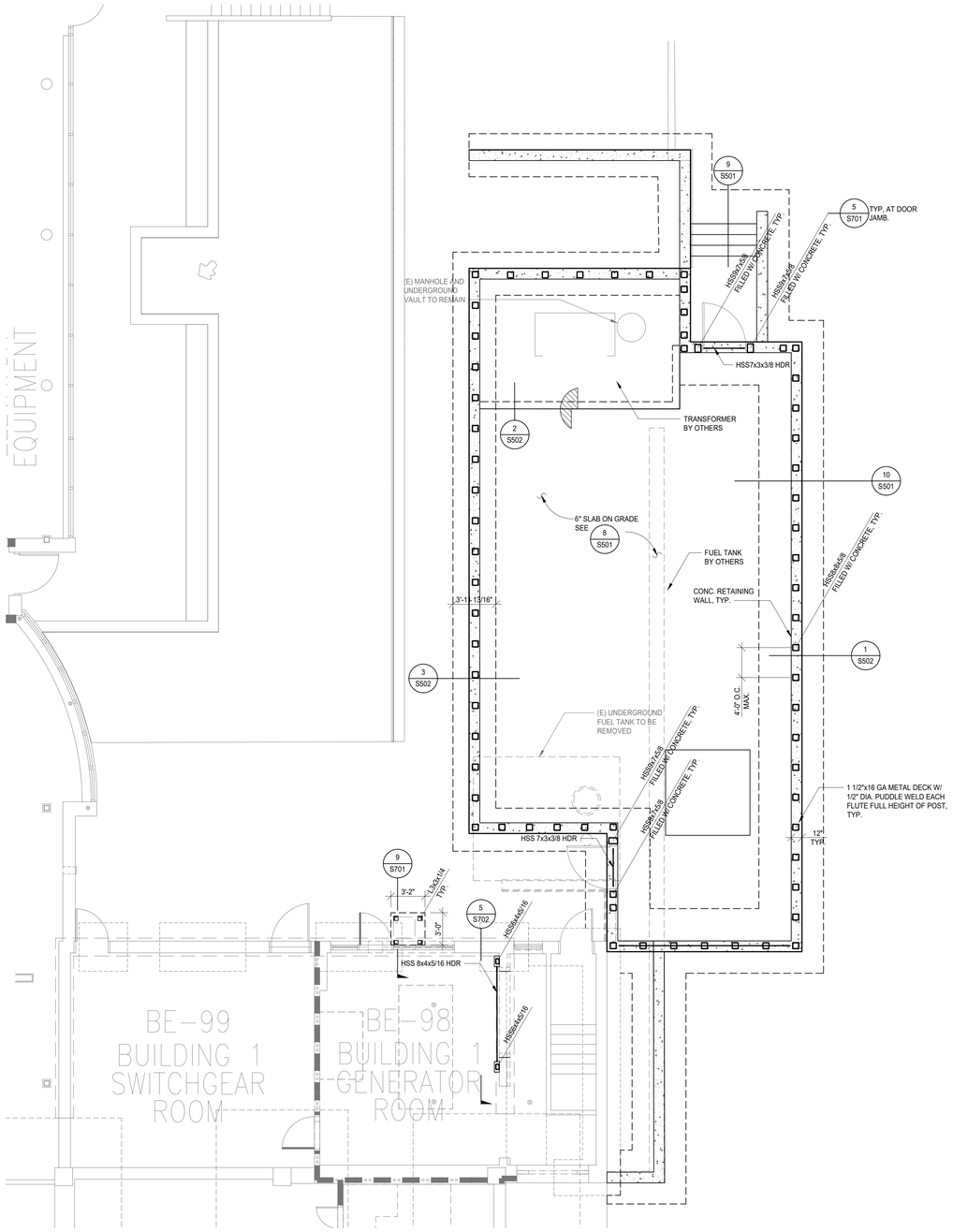

FOUNDATION PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES, SEE SHEETS S100.
2. FOR TYPICAL CONCRETE DETAILS, SEE SHEETS S501 AND S502.
3. FOR LAYOUT AND DIMENSIONS, SEE ARCHITECTURAL DRAWINGS, TYP. U.O.N.
4. FOR FINISH FLOOR ELEVATIONS, DEPRESSIONS, DRAINS, ETC., SEE ARCHITECTURAL DRAWINGS.
5. FOR PAD ELEVATIONS, SEE CIVIL DRAWINGS.
6. FOR MECHANICAL, ELECTRICAL, AND PLUMBING OPENINGS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
7. TOP OF FOOTINGS SHALL BE AT ELEVATION [-2'-0"] BELOW LOWEST ADJACENT SOIL PAD GRADE ELEVATIONS, TYP. U.O.N.
8. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOUNDATION. NO MATERIAL IS TO BE OVER-EXCAVATED UNNECESSARILY.
9. VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. IN THE EVENT THAT SUCH UTILITIES ARE ENCOUNTERED DURING EXCAVATION, NOTIFY ARCHITECT IMMEDIATELY.
10. FOR DRAINAGE DETAILS, SUMPS, PITS, WATERPROOFING, MOISTURE BARRIERS, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
11. SETBACK CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO TRENCHING OR FORMING FOUNDATIONS. THE FOUNDATION SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, SURVEYOR, AND THE ARCHITECT.

N

ENCLOSURE FOUNDATION PLAN

3/16"=1'-0"

ISSUE FOR BID	01-16-24
Revisions:	Date:

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STATE OF CALIFORNIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: ENCLOSURE FOUNDATION PLAN	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number:
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: S200
		Issue Date: 01/16/2024 / Checked / Drawn	

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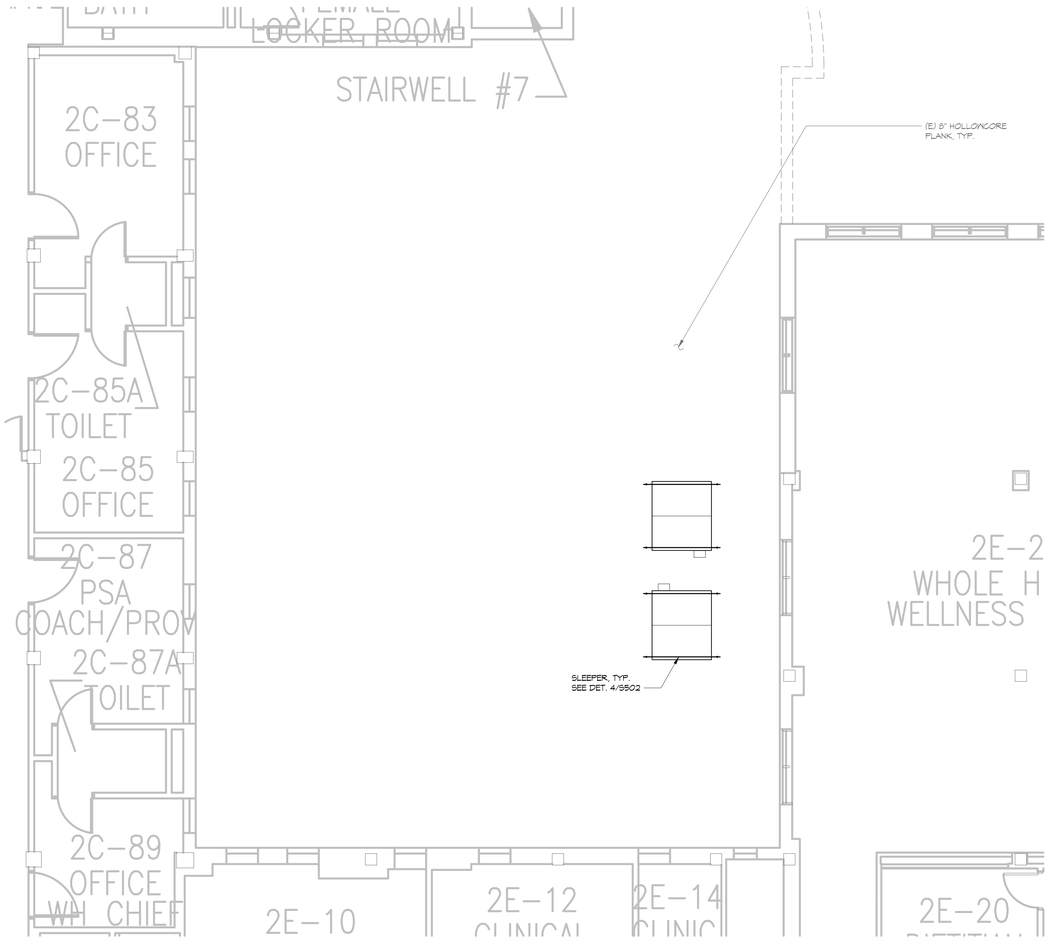

PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES, SEE SHEETS S100 AND S101.
2. FOR TYPICAL CONCRETE DETAILS, SEE SHEETS S502 AND S503.
3. FOR MECHANICAL, ELECTRICAL, AND SHAFT OPENINGS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.

N

PARTIAL 2ND FLOOR ROOF FRAMING PLAN

3/16"=1'-0"

ISSUE FOR BID	01-16-24
Revisions:	Date:

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ISSUE FOR BID - 01/16/2024

Drawing Title: PARTIAL 2ND FLOOR ROOF FRAMING PLAN	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: S201

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HOHBACH-LEWIN: 16709

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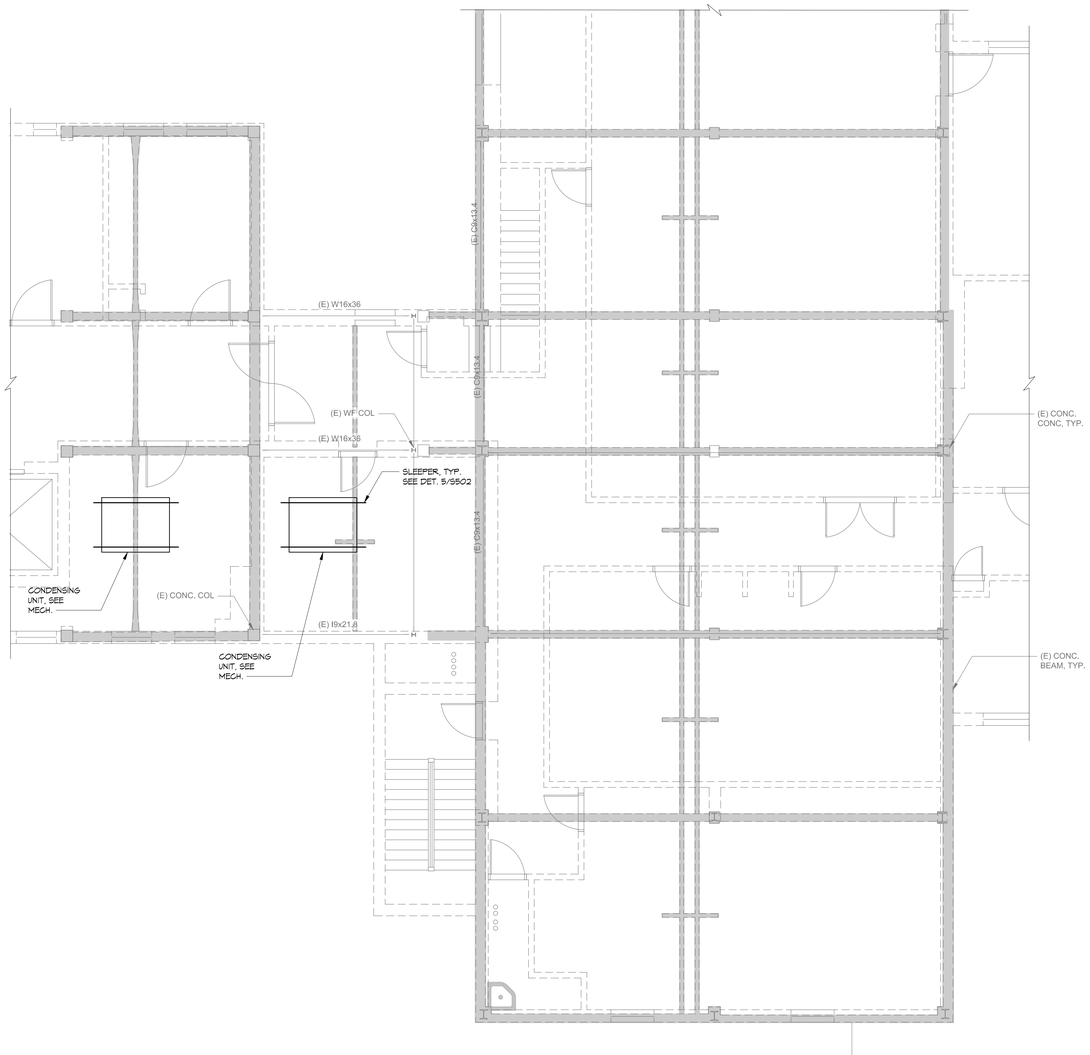

N

PARTIAL 3RD FLOOR ROOF FRAMING PLAN

3/16"=1'-0"

PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES, SEE SHEETS S100 AND S101.
2. FOR TYPICAL CONCRETE DETAILS, SEE SHEETS S502 AND S503.
3. FOR MECHANICAL, ELECTRICAL, AND SHAFT OPENINGS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.

ISSUE FOR BID	01-16-24
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ISSUE FOR BID - 01/16/2024

Drawing Title	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: S202

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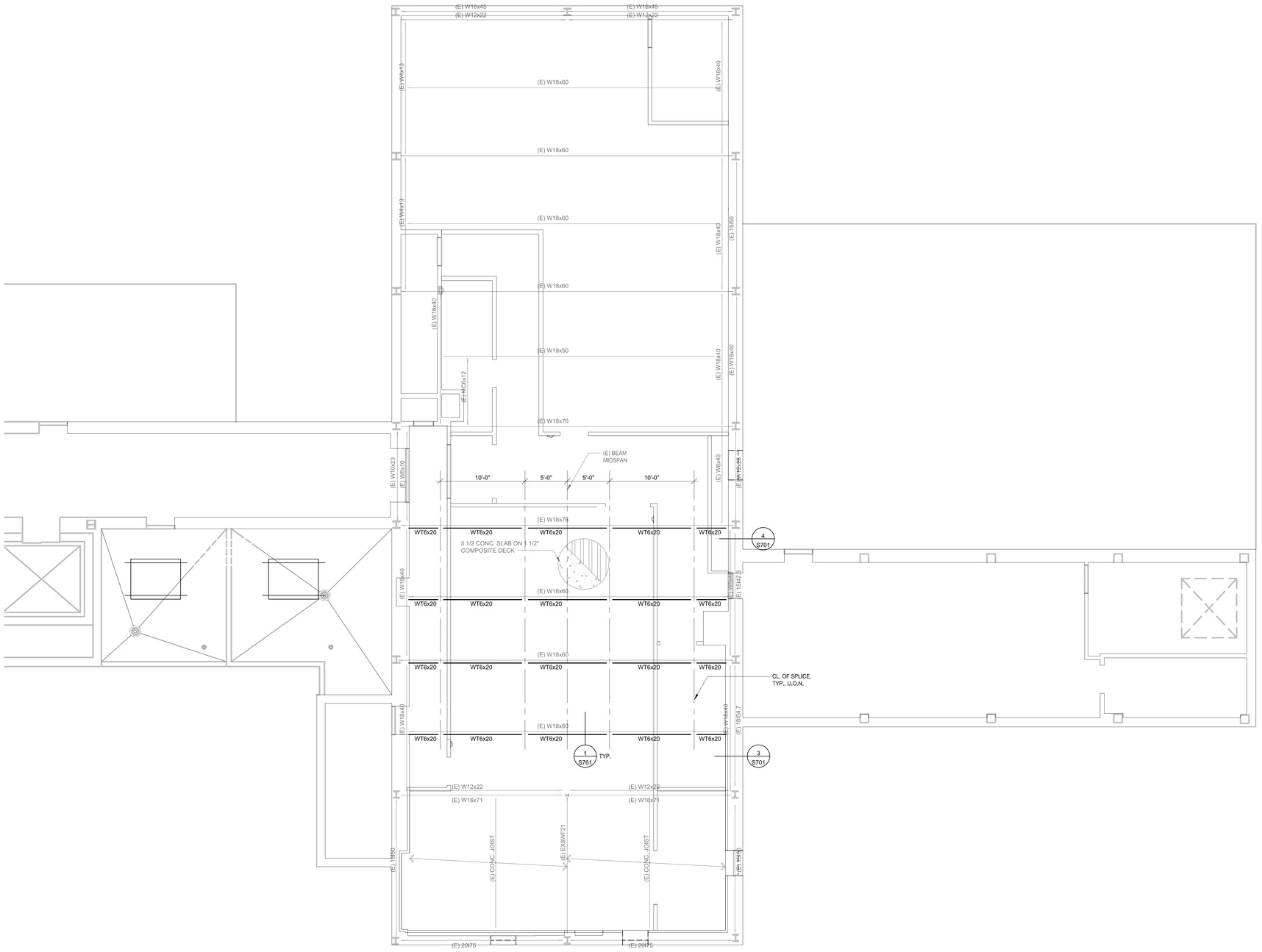

N

PARTIAL 4TH FLOOR FRAMING PLAN

3/16"=1'-0"

PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES, SEE SHEETS S100 AND S101.
2. FOR TYPICAL CONCRETE DETAILS, SEE SHEETS S502 AND S503.
3. FOR MECHANICAL, ELECTRICAL, AND SHAFT OPENINGS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.

ISSUE FOR BID	01-16-24
Revisions:	Date:

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U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: S203
		Issue Date: 01/16/2024 / Checked / Drawn	

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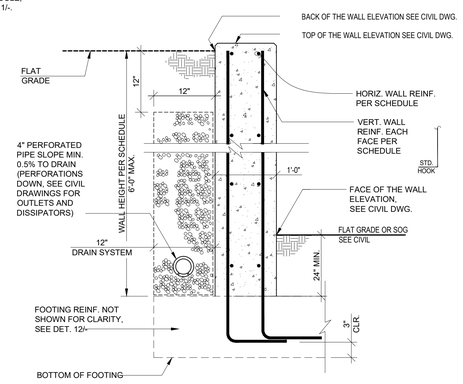
HOHBACH-LEWIN: 16709

NOTES:

1. FOR SCHEDULE, SEE DET. 11/-.



10 12" CONCRETE RETAINING WALL

1"=1'-0"

NOTES:

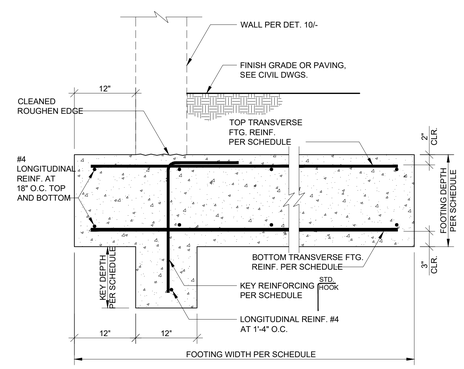
1. DRAINAGE SYSTEM: CONSIST OF OPEN GRADED GRAVEL ENCASED IN A FILTER FABRIC OR GEOTEXTILE
2. RETAINING WALL AND FOUNDATION GEOTECHNICAL DESIGN CRITERIA: (FOR ADDITIONAL CRITERIA, SEE SHEET S1.0)
   A. STRENGTH f'c = 4000 psi AT 28 DAYS.
   B. ALLOWABLE SOIL BEARING PRESSURE: DEAD + LIVE: 1500 psf
   C. COEFFICIENT OF FRICTION: 0.35
   D. PASSIVE PRESSURE: 250 psf
   E. EQUIVALENT FLUID PRESSURE: 55 pcf
   F. LATERAL LOADING: 0 plf
   G. SURCHARGE LOADING: 0 psf

RETAINING WALL SCHEDULE								
MAX. WALL HEIGHT	WALL THICKNESS	WALL	FOOTING				KEY	
		VERT. WALL REINF.	FOOTING DEPTH	FOOTING WIDTH	TOP TRANS. REINF.	BOTTOM TRANS. REINF.	DEPTH	REINF.
3'-0"	12"	#4 AT 12" EACH FACE	2'-0"	2'-8"	#4 AT 16"	#4 AT 16"	-	-
4'-0"	12"	#5 AT 12" EACH FACE	2'-0"	4'-0"	#4 AT 16"	#4 AT 16"	9"	#4 AT 16"
6'-0"	12"	#6 AT 12" EACH FACE	2'-0"	8'-0"	#5 AT 12"	#5 AT 12"	9"	#4 AT 16"
7'-6"	12"	#7 AT 12" EACH FACE	2'-0"	9'-0"	#5 AT 12"	#5 AT 12"	9"	#4 AT 16"

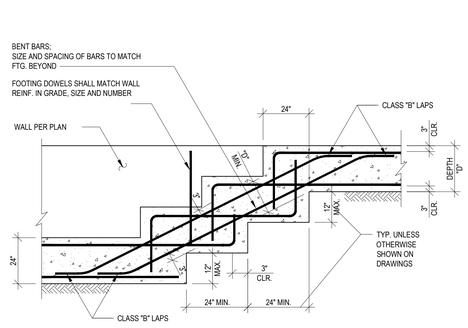
11 CANTILEVERED RETAINING WALL SCHEDULE

NOTE:

1. FOR SCHEDULE, SEE DET. 11/-.



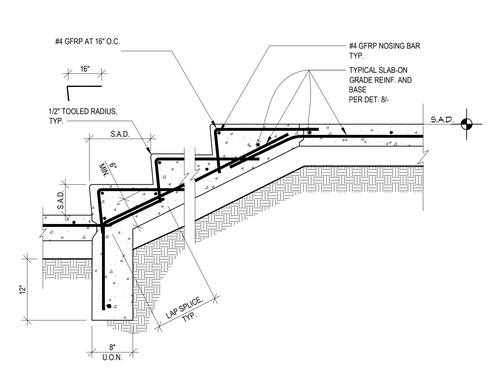
12 SPREAD FOOTING RETAINING WALL



7 TYPICAL STEP IN CONTINUOUS FOOTING

S501-10

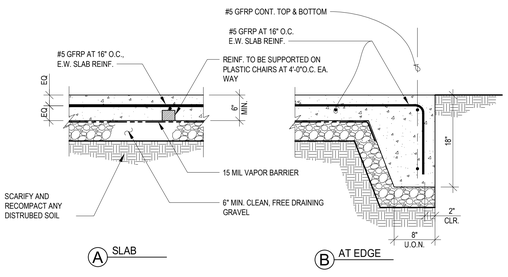
N.T.S.



9 CONCRETE STEPS

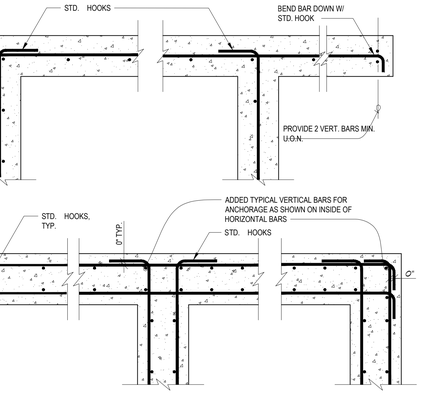
S501-11

1"=1'-0"



8 SLAB-ON-GRADE

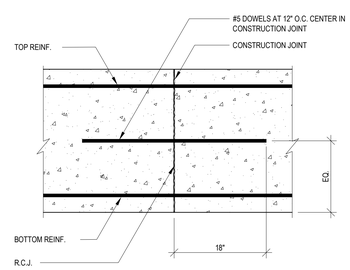
1"=1'-0"



4 TYPICAL CONCRETE MEMBER INTERSECTIONS

S501-04

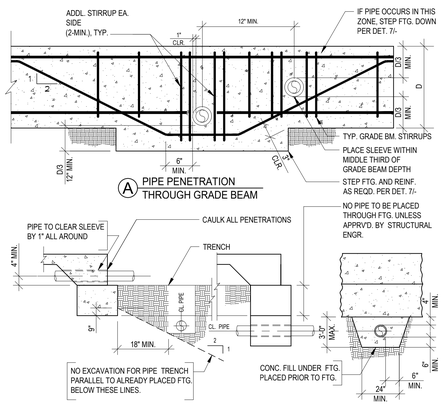
1"=1'-0"



5 TYPICAL CONSTRUCTION JOINT AT FOUNDATION

S501-06A

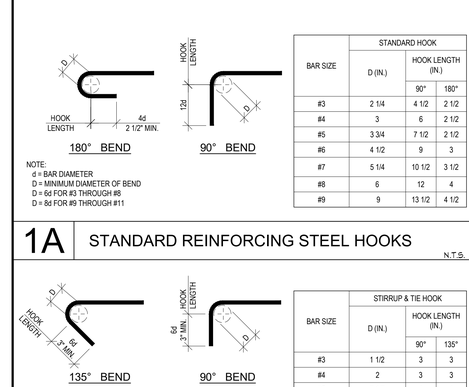
1"=1'-0"



6 TYPICAL PIPE PENETRATION UNDER FOOTING AND TRENCH LIMITATIONS

S501-09

N.T.S.



NOTE:
d = BAR DIAMETER
D = MINIMUM DIAMETER OF BEND
D = 6d FOR #3 THROUGH #8
D = 8d FOR #9 THROUGH #11

BAR SIZE	STANDARD HOOK		
	D (IN.)	HOOK LENGTH (IN.)	
		90°	180°
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2
#8	6	12	4
#9	9	13 1/2	4 1/2

1A STANDARD REINFORCING STEEL HOOKS

N.T.S.

NOTE:
d = BAR DIAMETER
D = MINIMUM DIAMETER OF BEND
D = 4d FOR #5 AND SMALLER

BAR SIZE	STIRRUP & TIE HOOK		
	D (IN.)	HOOK LENGTH (IN.)	
		90°	135°
#3	1 1/2	3	3
#4	2	3	3
#5	2 1/2	4	4

1 TYPICAL STIRRUP AND TIE HOOKS

S501-01

N.T.S.

CLASS B TENSION LAP SPLICE FOR GRADE 60 REINF. [2,3]

f'c	2,500		3,000		4,000		5,000	
BAR SIZE	TOP [1] (IN)	OTHER (IN)	TOP [1] (IN)	OTHER (IN)	TOP [1] (IN)	OTHER (IN)	TOP [1] (IN)	OTHER (IN)
#3	31	24	28	22	25	19	22	17
#4	41	32	38	29	33	25	29	23
#5	51	39	47	36	41	31	36	28
#6	61	47	56	43	49	37	44	34
#7	89	69	81	63	71	54	63	49
#8	102	78	93	72	81	62	72	56
#9	115	88	105	81	91	70	81	63
#10	127	98	116	90	101	78	90	69

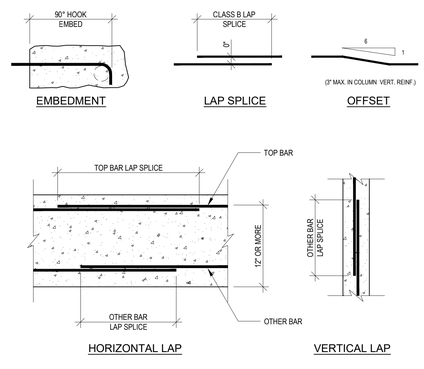
STANDARD HOOK AND HEADED BAR EMBEDMENT GRADE 60 REINF.

f'c	2,500		3,000		4,000		5,000	
BAR SIZE	HOOKED [4] (IN)	HEADED [4,5] (IN)	HOOKED [4] (IN)	HEADED [4,5] (IN)	HOOKED [4] (IN)	HEADED [4,5] (IN)	HOOKED [4] (IN)	HEADED [4,5] (IN)
#3	6	6	6	6	6	6	6	6
#4	8	6	8	6	7	6	7	6
#5	11	8	10	8	10	7	9	7
#6	14	10	13	10	13	9	12	9
#7	18	13	17	12	16	12	15	11
#8	21	16	20	15	19	14	18	14
#9	25	19	24	18	23	17	22	16
#10	30	22	28	21	27	20	26	19

NOTES:
1. TOP BARS = HORIZONTAL BARS WITH 12" OR GREATER OF FRESH CONCRETE CAST BELOW THEM. SEE DET. 3/-.
2. LAP SPLICES ARE BASED UPON A MINIMUM CLEAR COVER GREATER THAN 1.0db AND A MINIMUM CLEAR SPACING GREATER THAN 2db. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE THE LAP LENGTH BY 50%.
3. USE CLASS B TENSION LAP SPLICES FOR ALL BAR SPLICES U.O.N., TYP.
4. HOOKED AND HEADED BAR EMBEDMENTS ARE BASED UPON A MINIMUM CENTER-TO-CENTER SPACING OF 6db MIN. WHERE THIS REQUIREMENT IS NOT MET, INCREASE THE EMBEDMENT LENGTH BY 60%.
5. HEADED BAR SHALL HAVE A MINIMUM CLEAR COVER OF AT LEAST 2db AND NET HEAD BEARING AREA OF AT LEAST 4Ab WHERE Ab IS THE BAR AREA.
6. FOR ADDITIONAL INFORMATION, SEE DET. 3/-.

2 TYPICAL GRADE 60 REINFORCEMENT EMBED AND LAP SPLICE

S501-02A*



3 TYPICAL REINFORCEMENT EMBED, LAP SPLICE AND OFFSET

S501-03

1"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER DANIEL G. TEAL S 3272 CIVIL CALIFORNIA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: CONCRETE DETAILS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number:
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: S501
		Issue Date: 01/16/2024 / Checked / Drawn	

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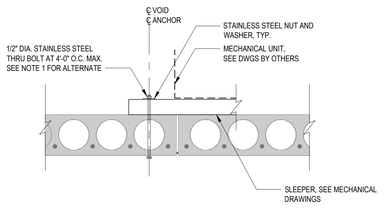
HOHBACH-LEWIN: 16709

VA FORM 08 - 6231

10

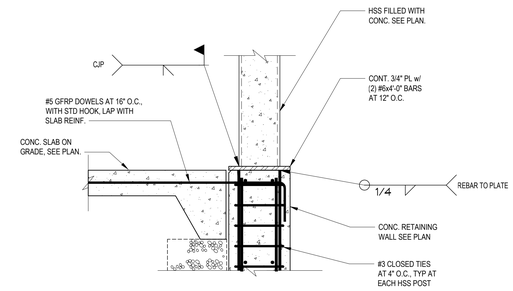
7

NOTES:
1. CONTRACTOR TO X-RAY SLAB TO FIND REINFORCEMENT PRIOR TO DRILLING.



4 EQUIPMENT SUSPENDED FROM HOLLOW CORE PLANKS

1"=1'-0"

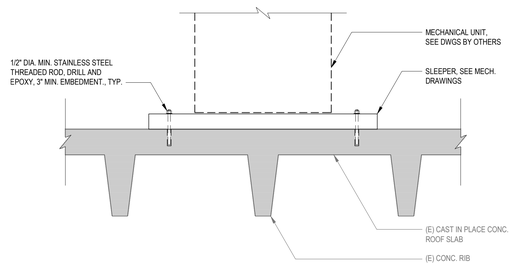


1 HSS ENCLOSURE BASE CONNECTION

1"=1'-0"

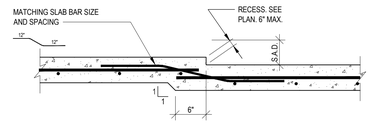
11

8

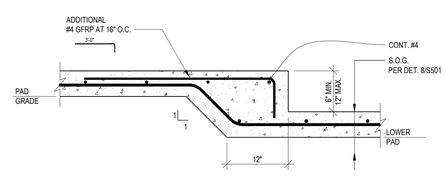


5 MECHANICAL UNIT SLEEPERS AT EXISTING ROOF SLAB

1"=1'-0"



2A



2 TYPICAL SLAB-ON-GRADE STEP

S501-13

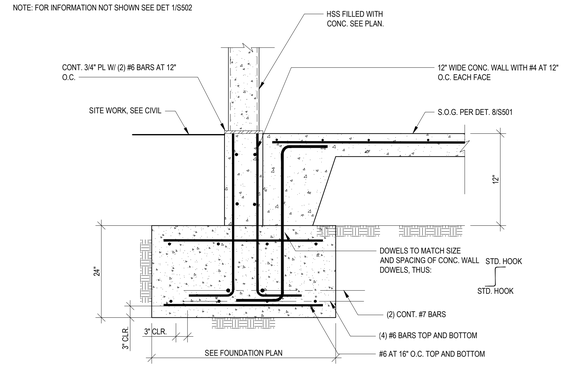
1"=1'-0"

12

9

6

NOTE: FOR INFORMATION NOT SHOWN SEE DET 1/S502



3 ENCLOSURE FOOTING

C-T-SS02-10

3/4"=1'-0"

ISSUE FOR BID	01-16-24
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: CONCRETE DETAILS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: S502

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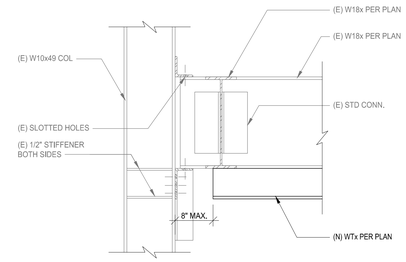
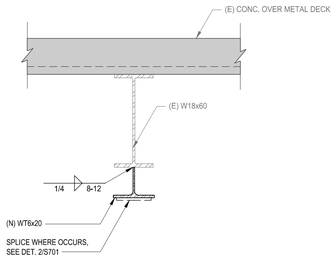
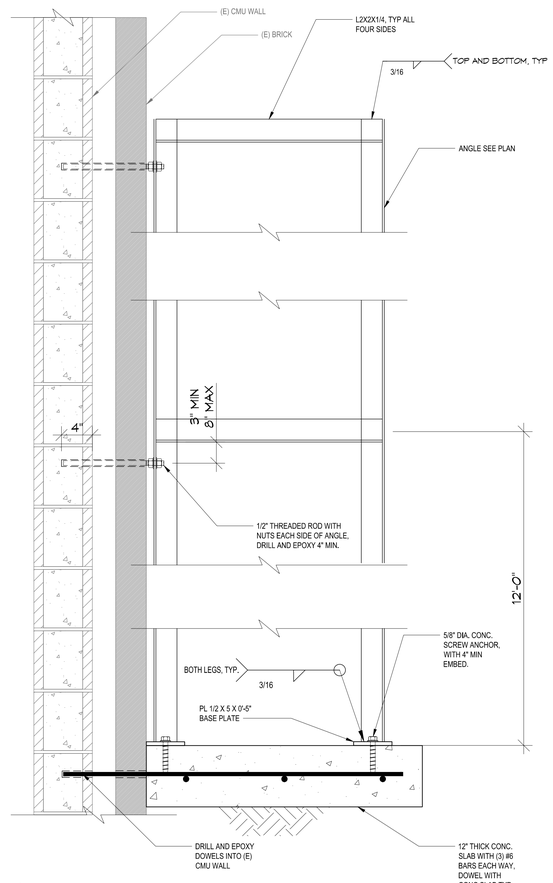
NOTES:
1. WELD LAST 8" OF WT. TYP EA. END.



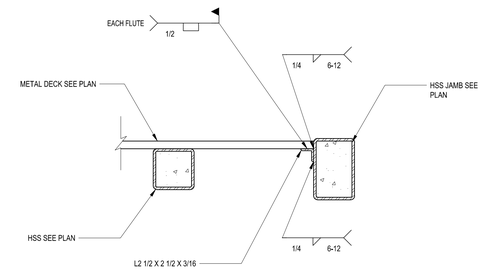
4 EXISTING BEAM / COLUMN CONN. N.T.S.



1 EXISTING BEAM RETRO FIT N.T.S.

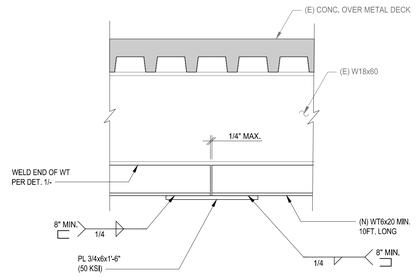


9 GENERATOR EXHAUST SUPPORT FRAME N.T.S.

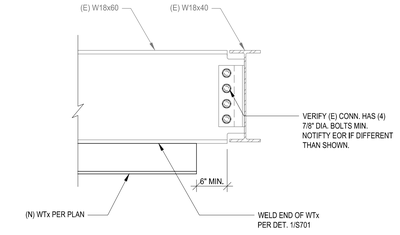


5 METAL DECK TO HSS JAMB N.T.S.

NOTES:
1. SPLICE SHALL NOT BE LOCATED WITHIN 5FT OF EXISTING BEAM MIDSPAN.



2 SPLICE DETAIL 1"=1'-0"



3 EXISTING BEAM TO BEAM CONNECTION 1"=1'-0"

10 | 7 | 4 | 1

11 | 5 | 2

12 | 9 | 6 | 3

ISSUE FOR BID	01-16-24
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VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: STEEL DETAILS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number:
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: S701
		Issue Date: 01/16/2024 / Checked / Drawn	

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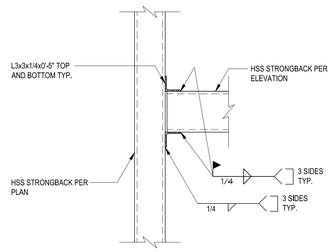
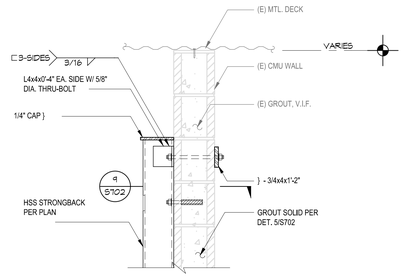
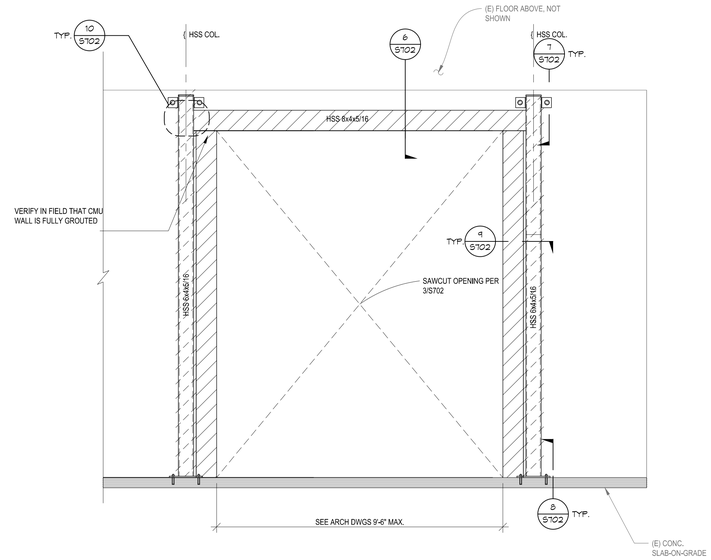


10 HSS TO HSS CONNECTION AT STRONGBACK

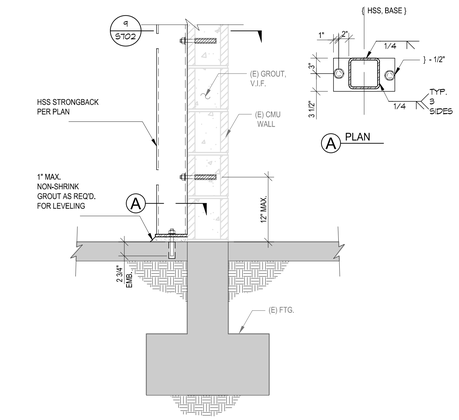


7 HSS STRONGBACK AT TOP OF WALL

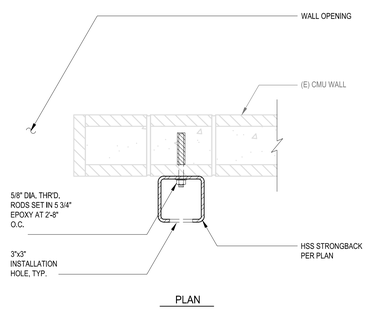
NOTE: SEE DET 3/S702 FOR SAWCUT DETAIL



5 NEW CMU WALL OPENING

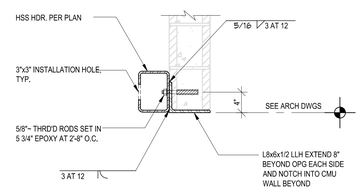


8 HSS STRONGBACK AT BOTTOM OF WALL

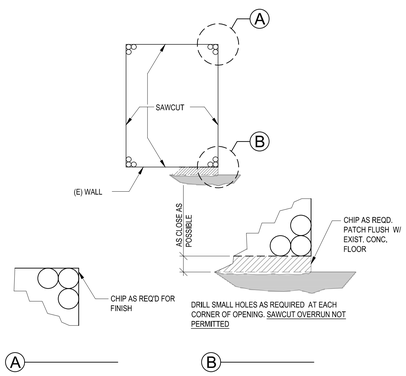


9 HSS STRONGBACK - PLAN

1/2" = 1'-0"



6 HSS STRONGBACK AT TOP OF OPENING



3 SAWCUT DETAIL

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Revisions:	Date:

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VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title: STEEL DETAILS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number
		Issue Date: 01/16/2024 / Checked / Drawn	Drawing Number: S702

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SCOPE OF WORK

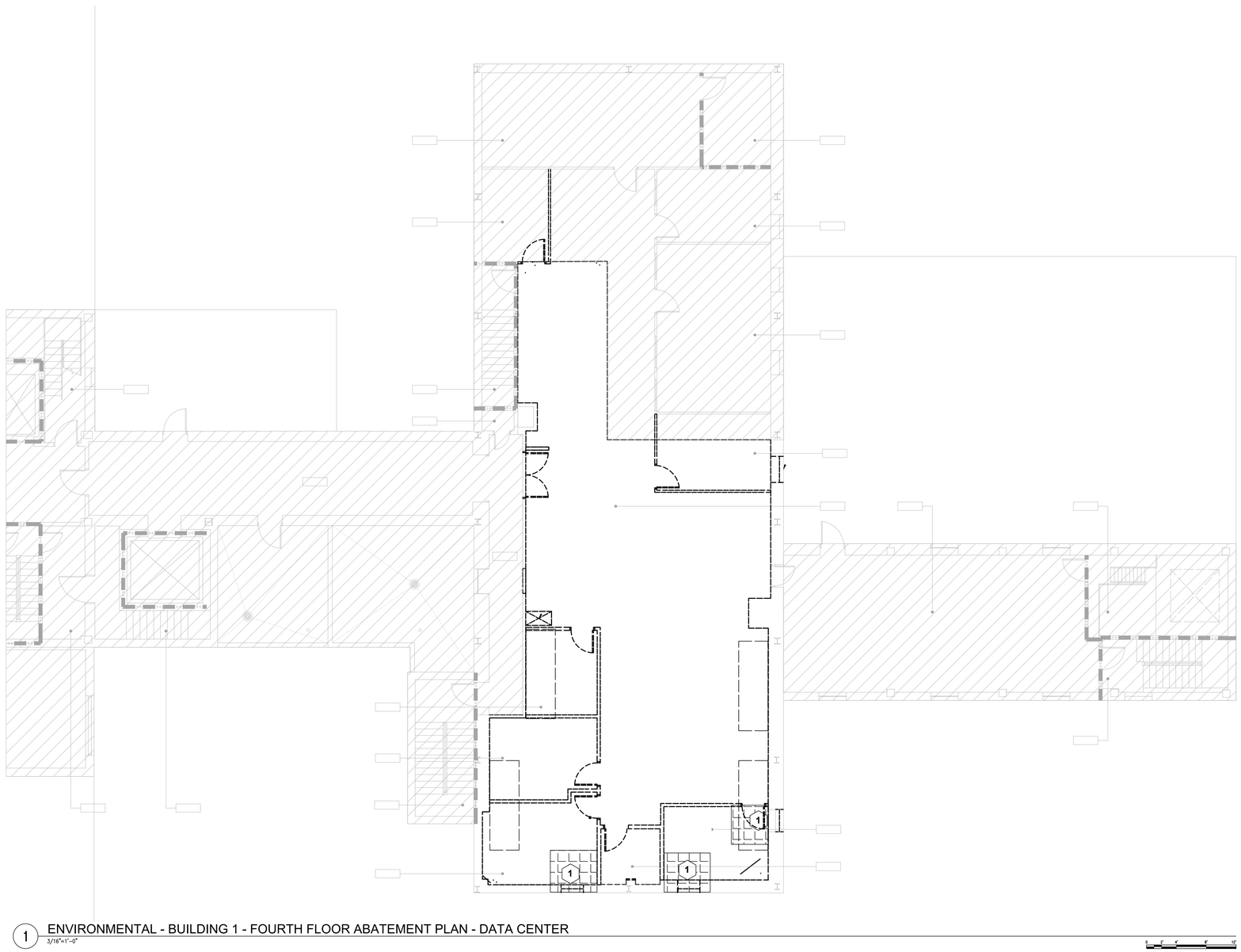
ASBESTOS ABATEMENT: Removal and disposal of asbestos containing materials per specification sections 02 82 11 and 02 82 13.31, and all applicable State, Federal, EPA, and OSHA asbestos regulations. Please refer to AOR Drawings for extent of work.

ASBESTOS ABATEMENT SYMBOLS

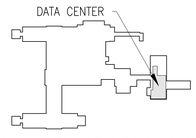
NOTE: NOT ALL NOTES APPLY TO EVERY DRAWING

1 — INDICATES LOCATION OF ASBESTOS CONTAINING TRANSITE TYPE ASSOCIATED WITH RADIATORS BELOW WINDOW PANELS.

INDICATES ABATEMENT WORK AREA.



1 ENVIRONMENTAL - BUILDING 1 - FOURTH FLOOR ABATEMENT PLAN - DATA CENTER
3/16"=1'-0"



2 KEYPLAN BUILDING 1-9-46
NTS

ISSUE FOR BID	01-16-24
100% CONSTRUCTION DOCUMENTS SUBMITTAL	12-18-23
85% CONSTRUCTION DOCUMENTS SUBMITTAL R1	11-14-23
85% CONSTRUCTION DOCUMENTS SUBMITTAL	10-23-23
50% DESIGN DEVELOPMENT SUBMITTAL	09-11-23
ISSUED FOR DCIE AND LIFE SAFETY REVIEW	09-06-23
Revisions:	Date:

CONSULTANT

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ENVIRONMENTAL, INC.

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Bancroft Project No: 22-113

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IDPH 100-00349

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ABATEMENT PLAN - FOURTH FLOOR

Phase: ISSUED FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: D.JUNEAU | Drawn: D.OTTLEY

Project Number: 437-21-210

Building Number: 1

Drawing Number: ENV-01

~~ISSUE FOR BID - 01/16/2024~~

1/12/2024 1:19:54 PM

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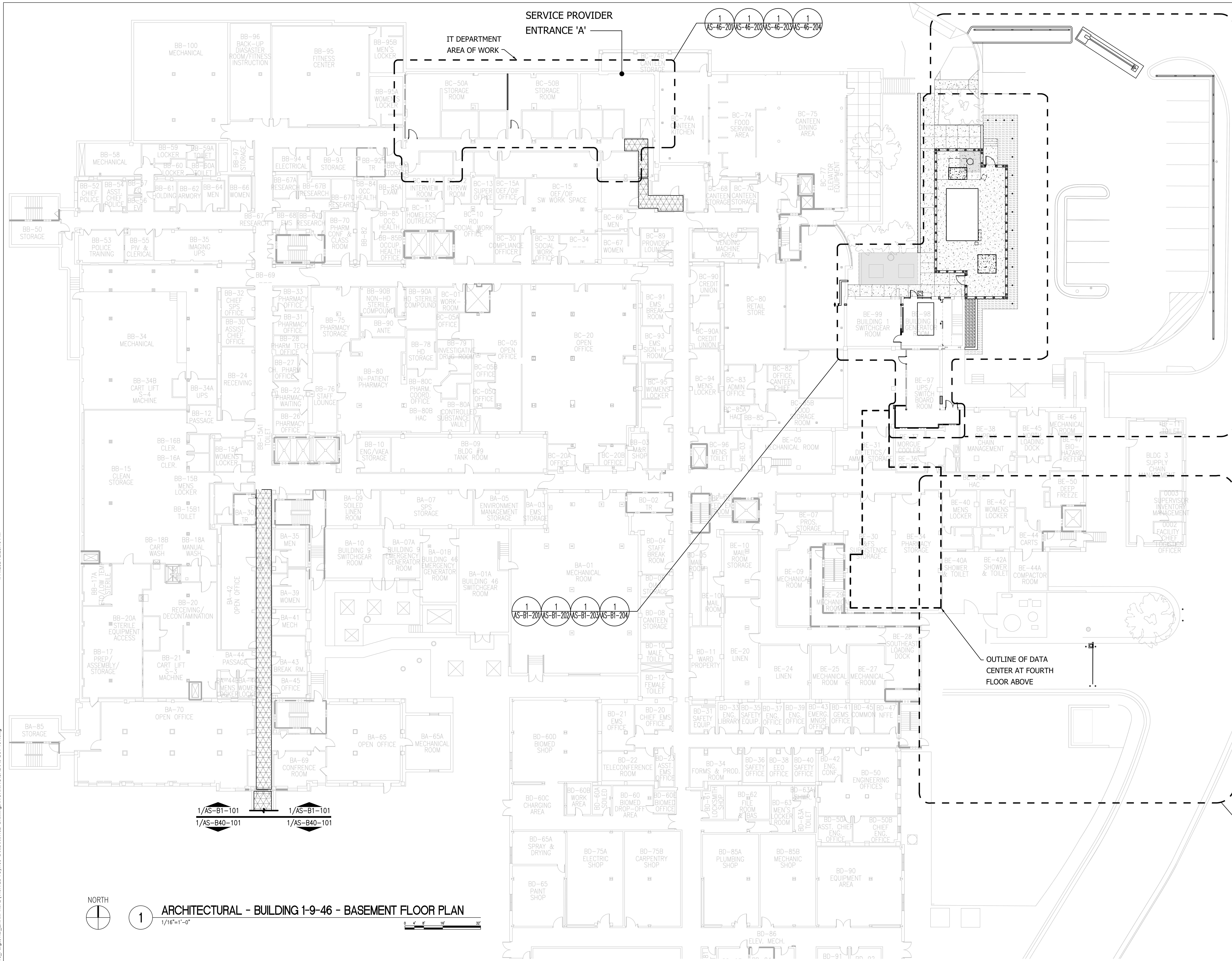


CEILING TEMPORARY DEMOLITION LEGEND

1 KEYNOTE 1

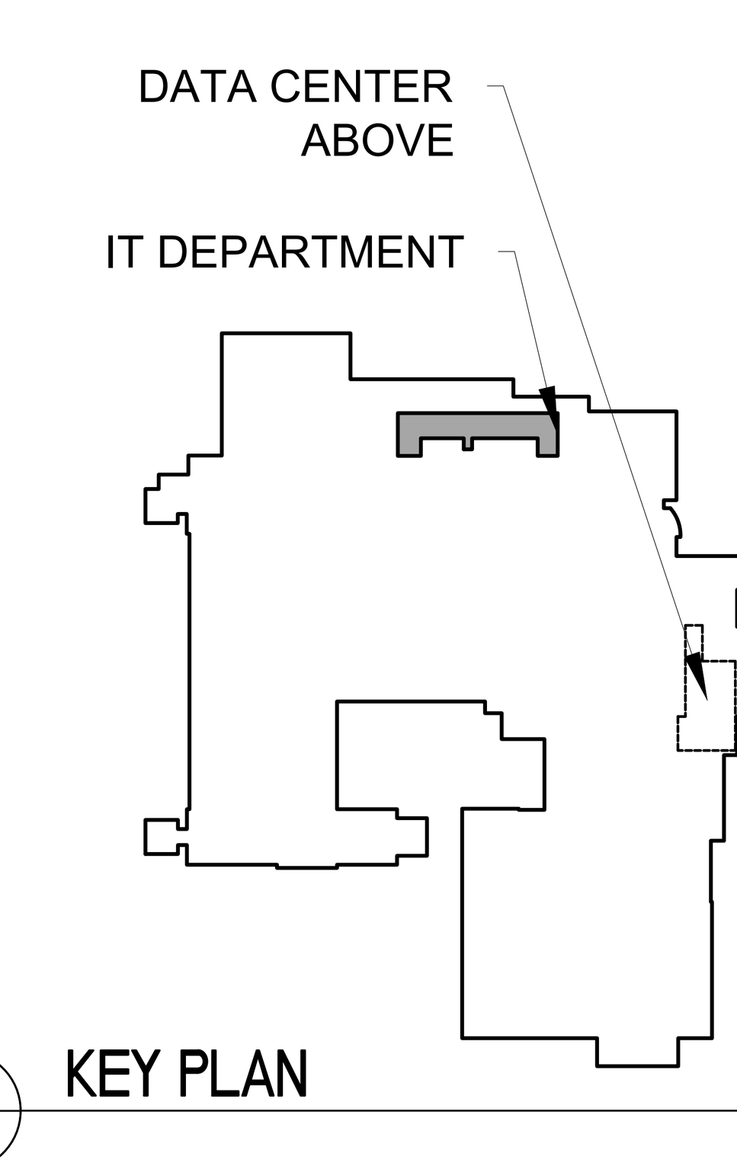
CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER — SMOKE BARRIER (EXISTING)



KEY PLAN

NORTH

1 ARCHITECTURAL - BUILDING 1-9-46 - BASEMENT FLOOR PLAN
1/16"=1'-0"

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - BUILDING 1-9-46 - BASEMENT PLAN
Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location: FARGO VA HEALTH CARE SYSTEM
Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210
Building Number: 1-9-46
Drawing Number: AS-B1-101

VA FORM 08-6231

CEILING TEMPORARY DEMOLITION LEGEND

1 KEYNOTE 1

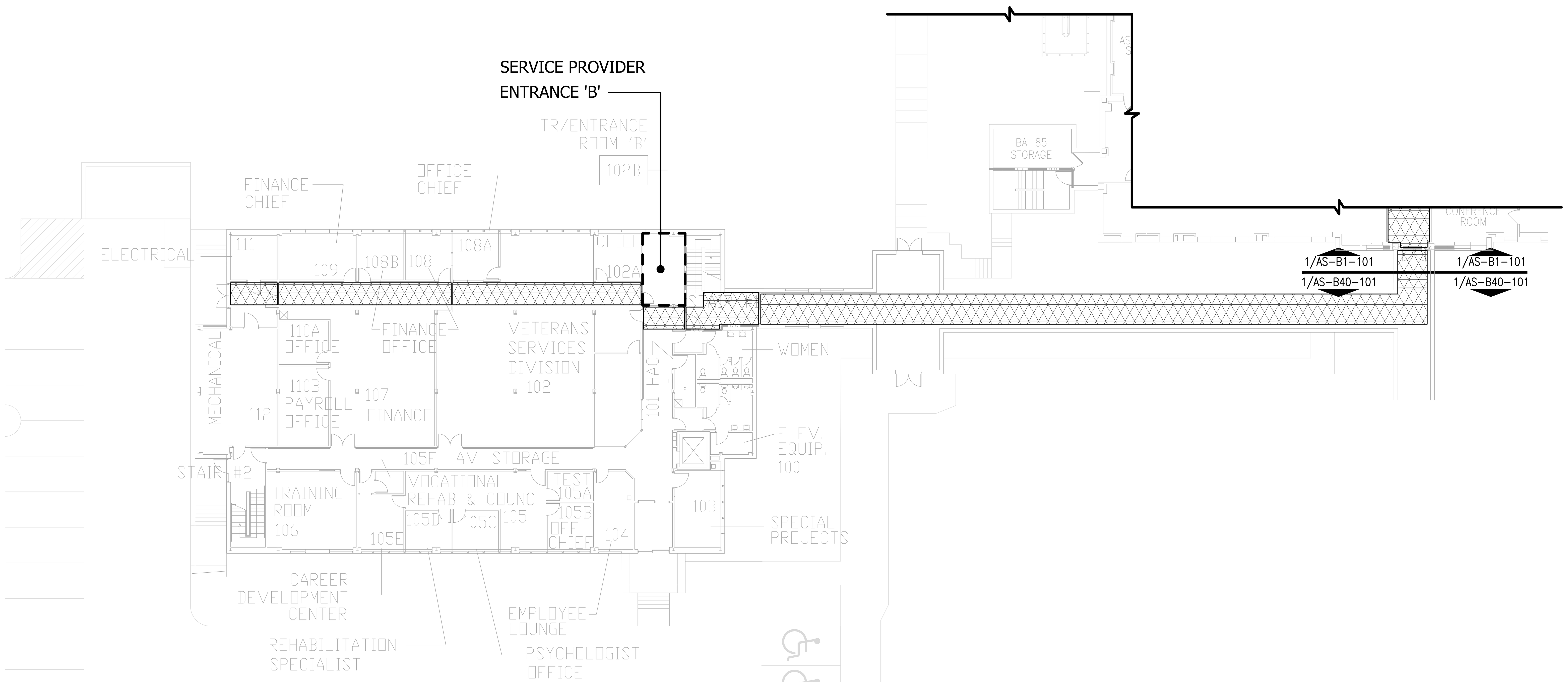
CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

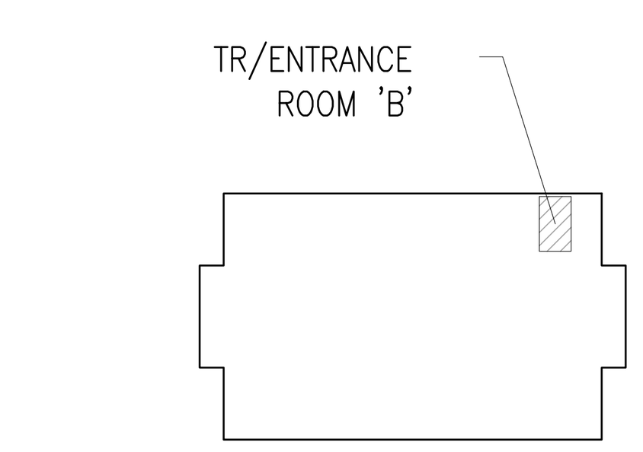
1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)



NORTH

1 ARCHITECTURAL - BUILDING 40 - BASEMENT FLOOR PLAN

1/16"=1'-0"



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KEY PLAN

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ARCHITECTURAL - BUILDING 40 - BASEMENT PLAN	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	437-21-210
			Building Number: 40
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: AS-B40-101
		Issue Date: 01/16/2024; Checked: DA; Drawn: JM	

VA FORM 08 - 6231

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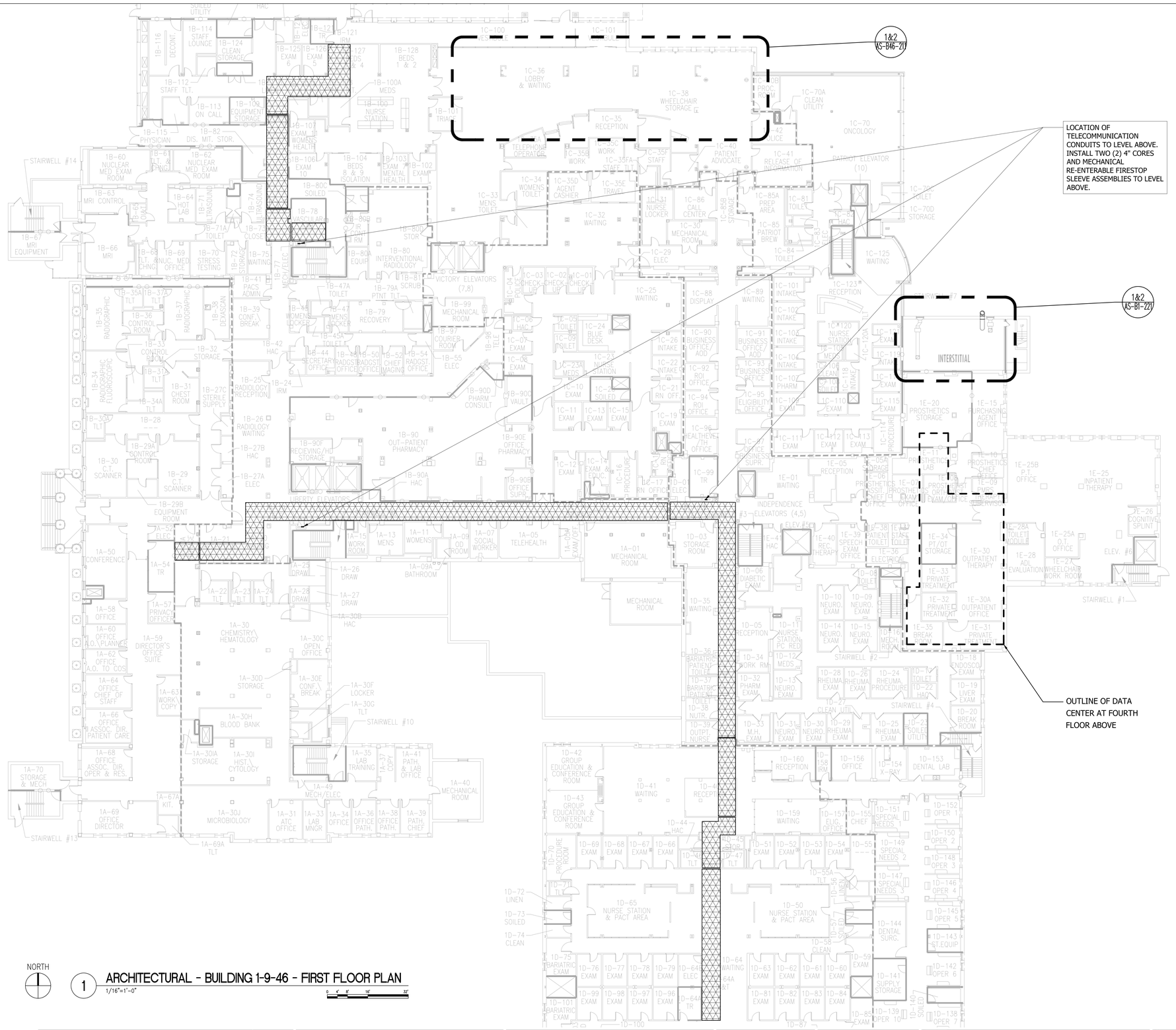

LOCATION OF TELECOMMUNICATION CONDUITS TO LEVEL ABOVE. INSTALL TWO (2) 4" CORES AND MECHANICAL RE-ENTERABLE FIRESTOP SLEEVE ASSEMBLIES TO LEVEL ABOVE.

OUTLINE OF DATA CENTER AT FOURTH FLOOR ABOVE

CEILING TEMPORARY DEMOLITION LEGEND

▨ 1 KEYNOTE 1

X CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER
1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER
2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER
SMOKE BARRIER (EXISTING)

1 ARCHITECTURAL - BUILDING 1-9-46 - FIRST FLOOR PLAN

1/16"=1'-0"

KEY PLAN

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
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LICENSED ARCHITECT
CROTAN D. ZAKARIJA
001-022355
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - BUILDING 1-9-46 - FIRST FLOOR PLAN

Approved: Project Director

Phase
ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location
FARGO VA HEALTH CARE SYSTEM

Issue Date
01/16/2024

Checked
DA

Drawn
JM

Project Number
437-21-210

Building Number
1-9-46

Drawing Number
AS-B1-111

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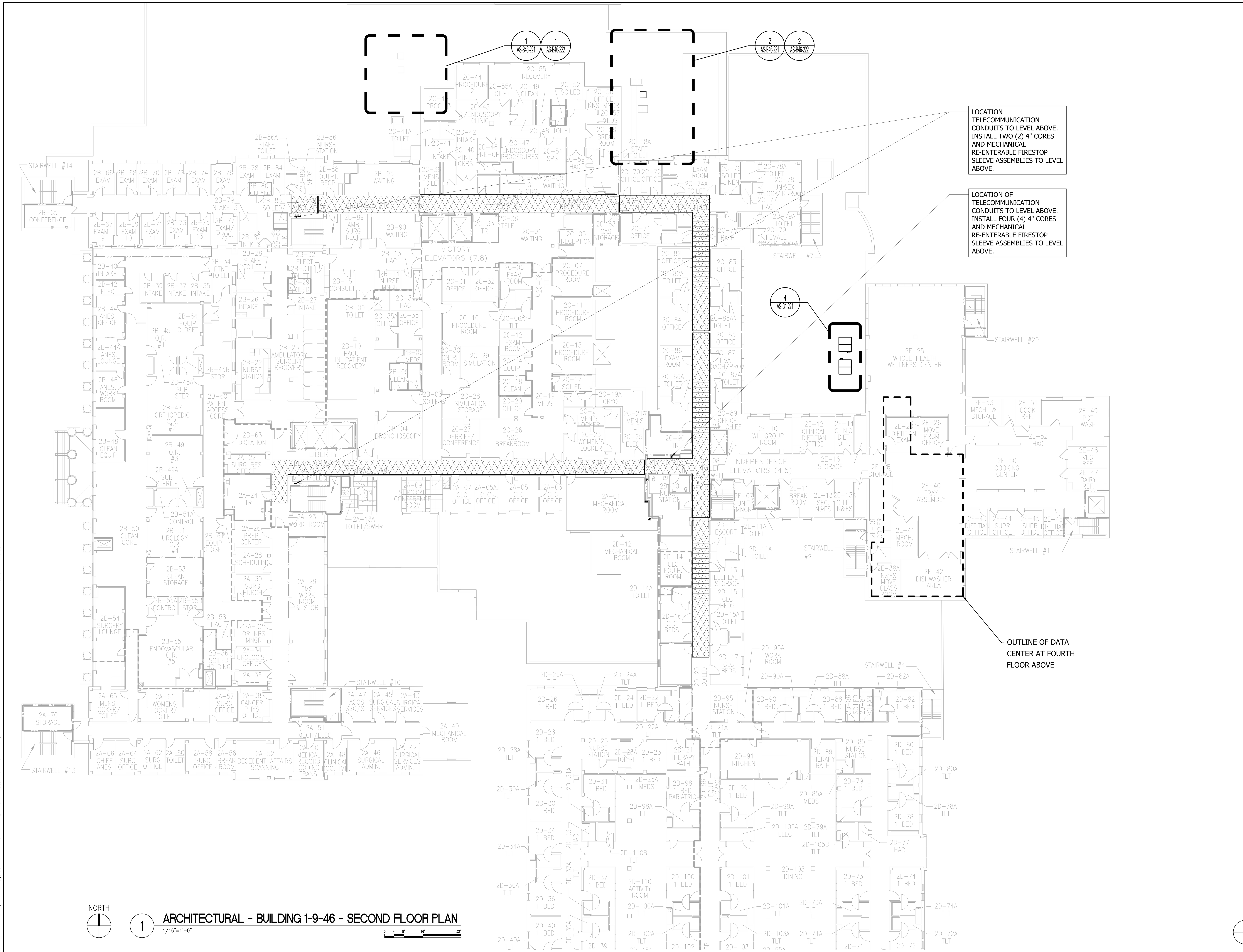

1 ARCHITECTURAL - BUILDING 1-9-46 - SECOND FLOOR PLAN
1/16"=1'-0"

CEILING TEMPORARY DEMOLITION LEGEND

KEYNOTE 1

CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.

RATED WALL LEGEND

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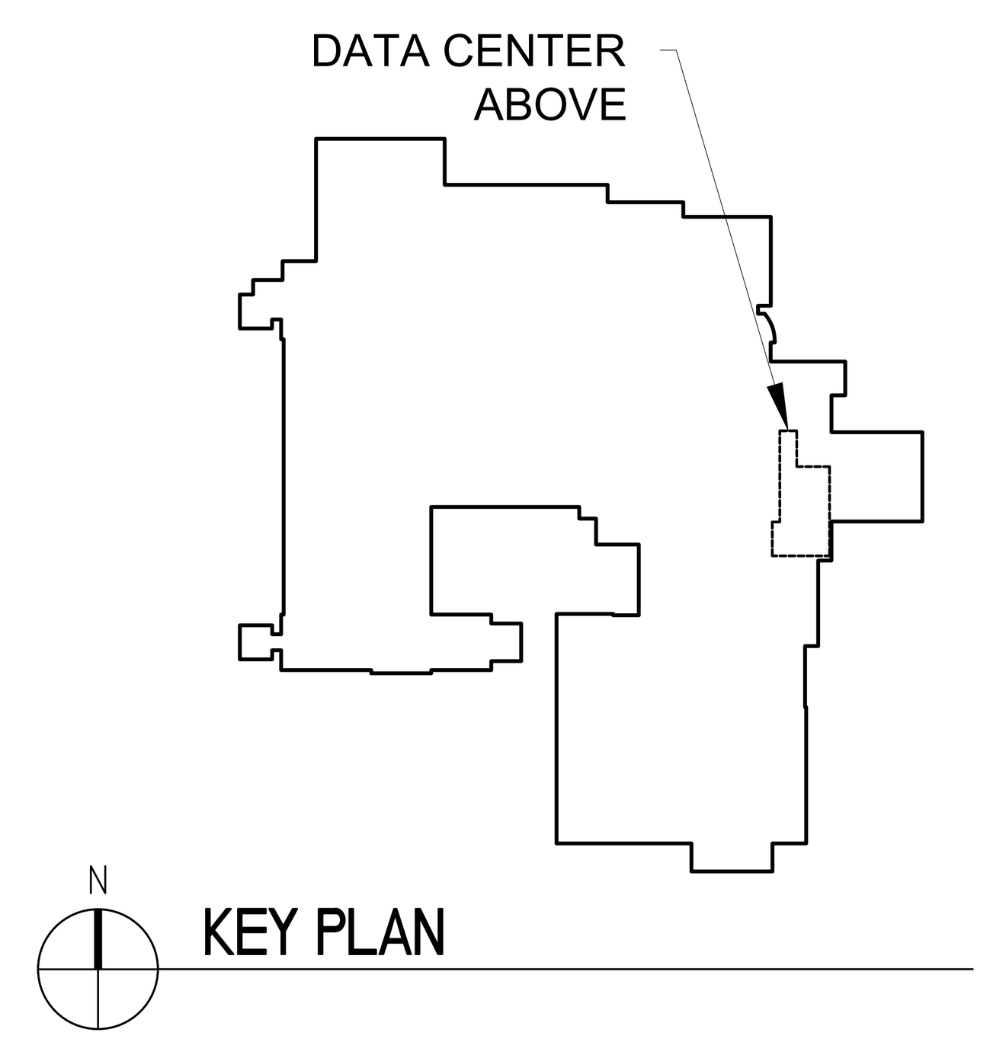
- 1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER — SMOKE BARRIER (EXISTING)



KEY PLAN

ISSUE FOR BID - 01/16/2024

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Drawing Title: ARCHITECTURAL - BUILDING 1-9-46 - SECOND FLOOR PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

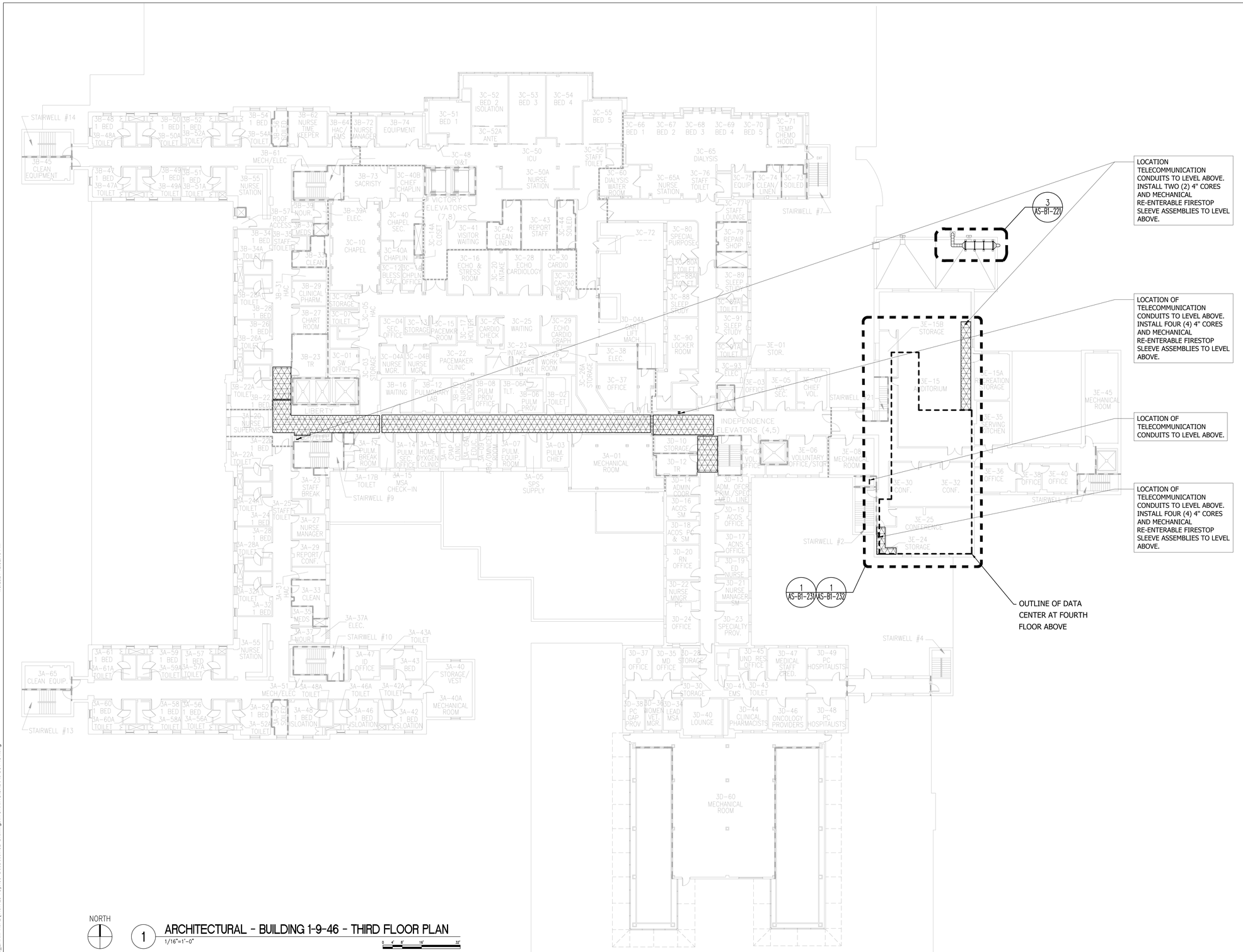
Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: AS-B1-121

VA FORM 08 - 6231



CEILING TEMPORARY DEMOLITION LEGEND

1 KEYNOTE 1

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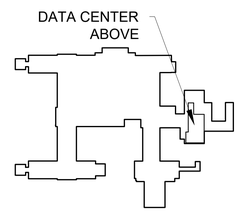
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

NORTH

1 ARCHITECTURAL - BUILDING 1-9-46 - THIRD FLOOR PLAN

1/16"=1'-0"



N KEY PLAN

ISSUE FOR BID - 01/16/2024

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Drawing Title: ARCHITECTURAL - BUILDING 1-9-46 - THIRD FLOOR PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 01-09-46

Drawing Number: AS-B1-131

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CEILING TEMPORARY DEMOLITION LEGEND

[1] KEYNOTE 1

[x] CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.

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2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
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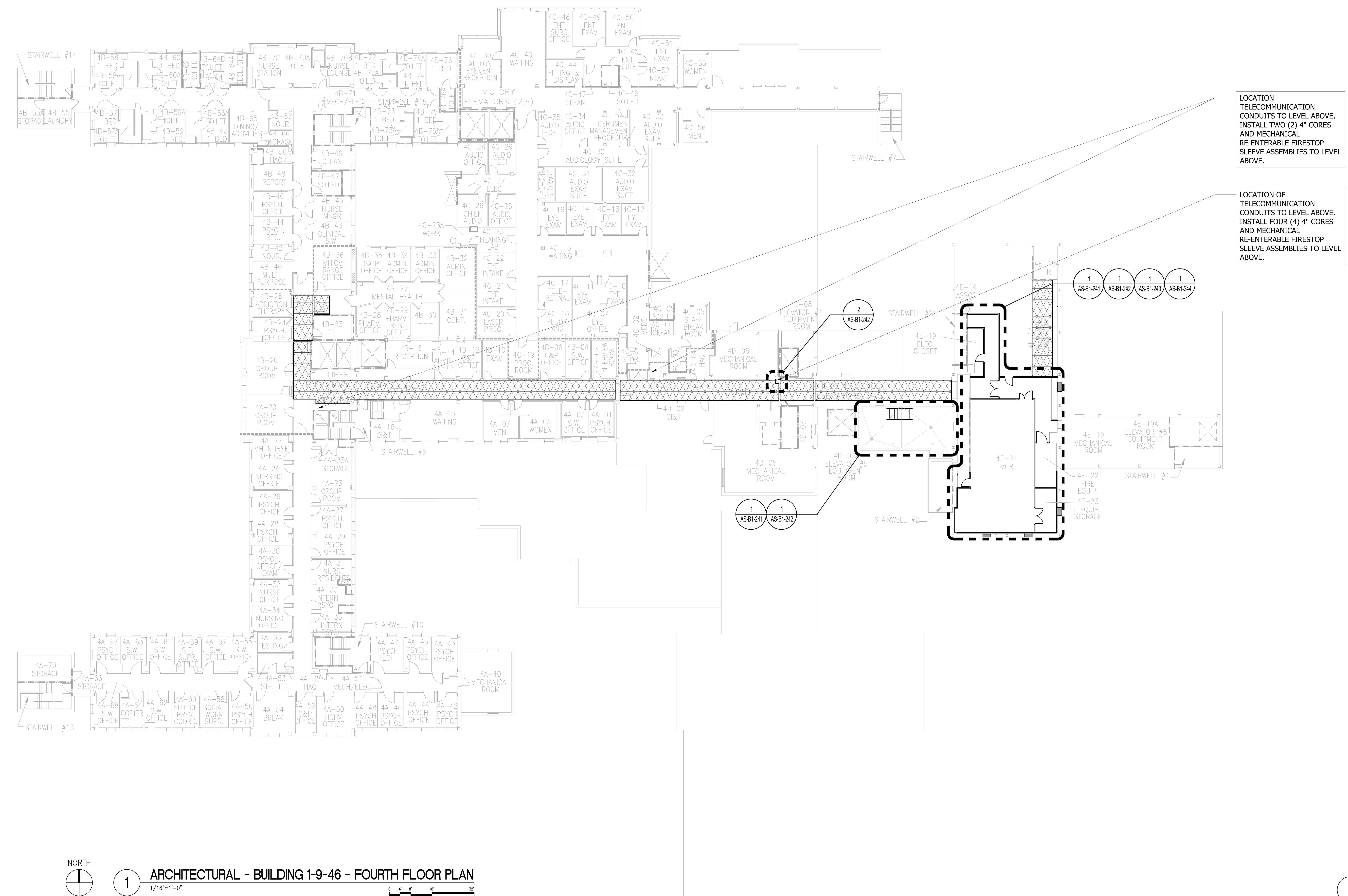
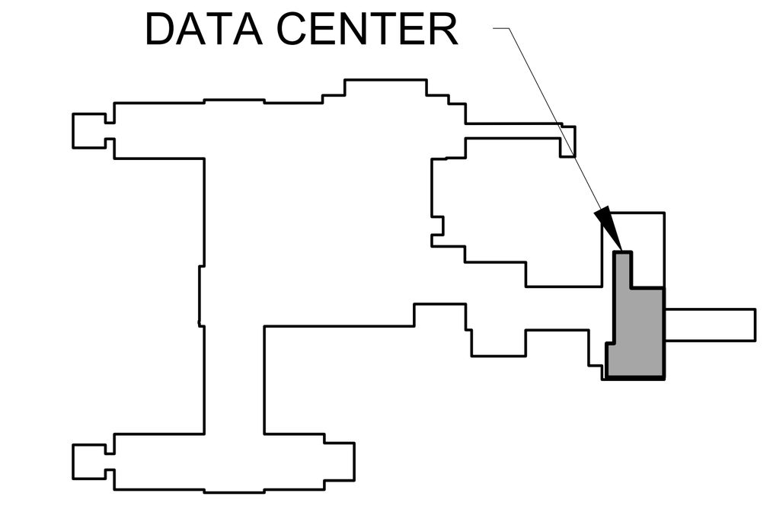


NORTH

1 ARCHITECTURAL - BUILDING 1-9-46 - FOURTH FLOOR PLAN

1/16"=1'-0"

DATA CENTER



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KEY PLAN

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ISSUE FOR BID	01-16-24
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Drawing Title: ARCHITECTURAL - BUILDING 1-9-46 - FOURTH FLOOR PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

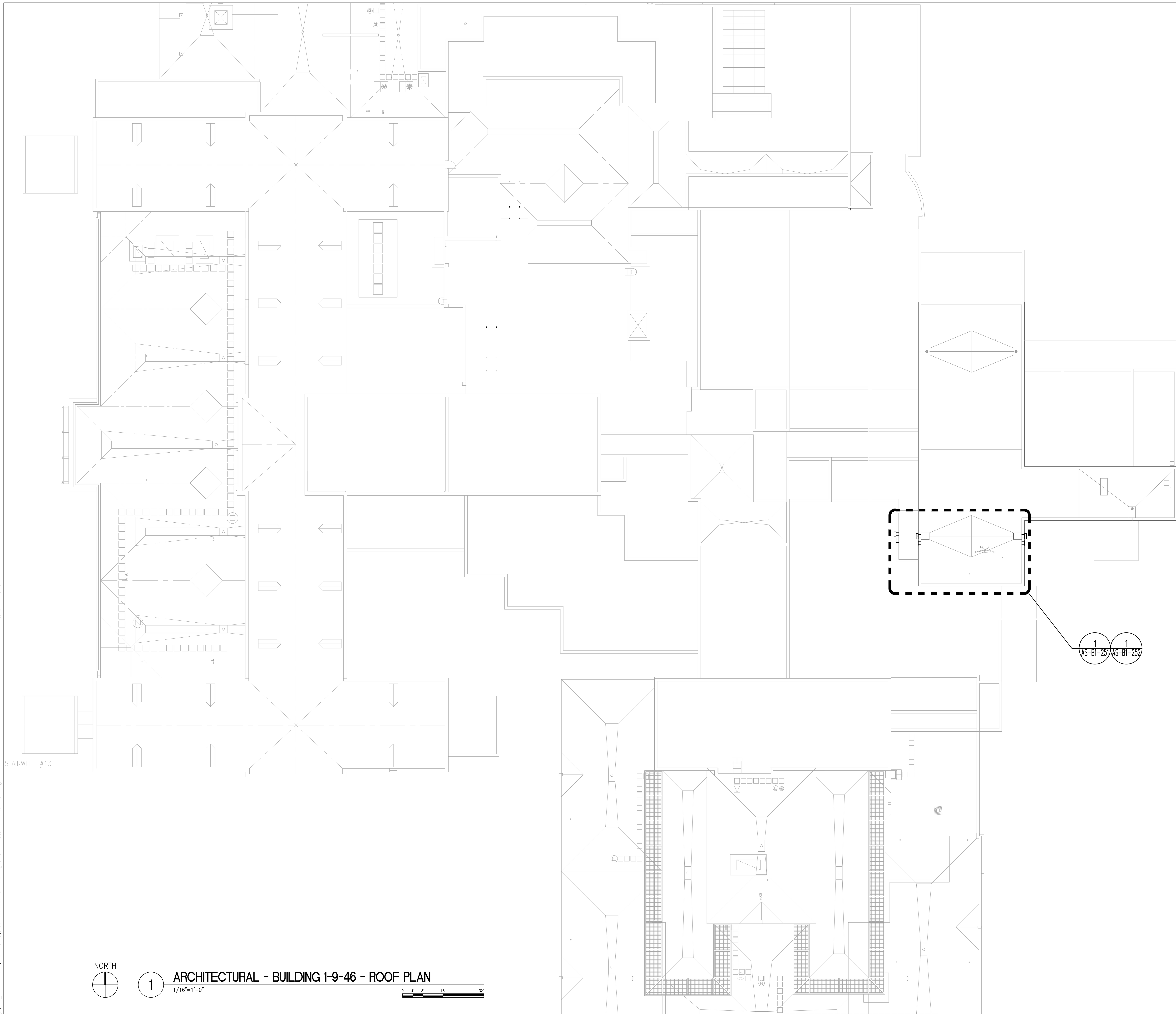
Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: AS-B1-141

VA FORM 08 - 6231



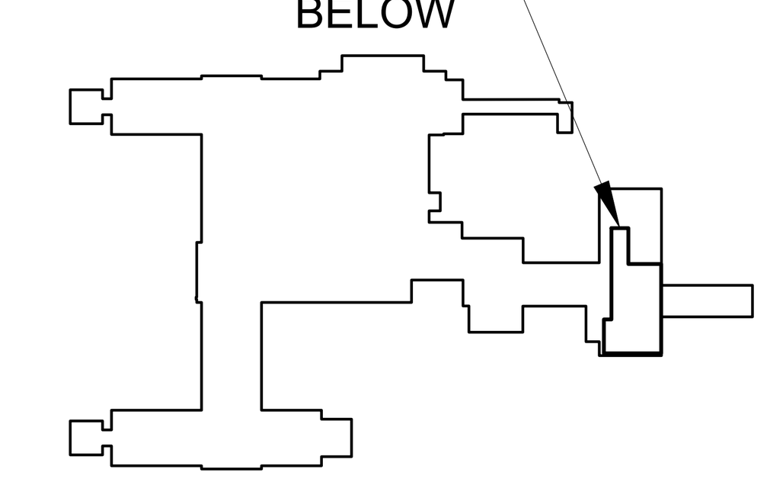
NORTH

1 ARCHITECTURAL - BUILDING 1-9-46 - ROOF PLAN
1/16"=1'-0"

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)



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KEY PLAN

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VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - BUILDING 1-9-46 - ROOF PLAN
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1-9-46
Drawing Number	AS-B1-161

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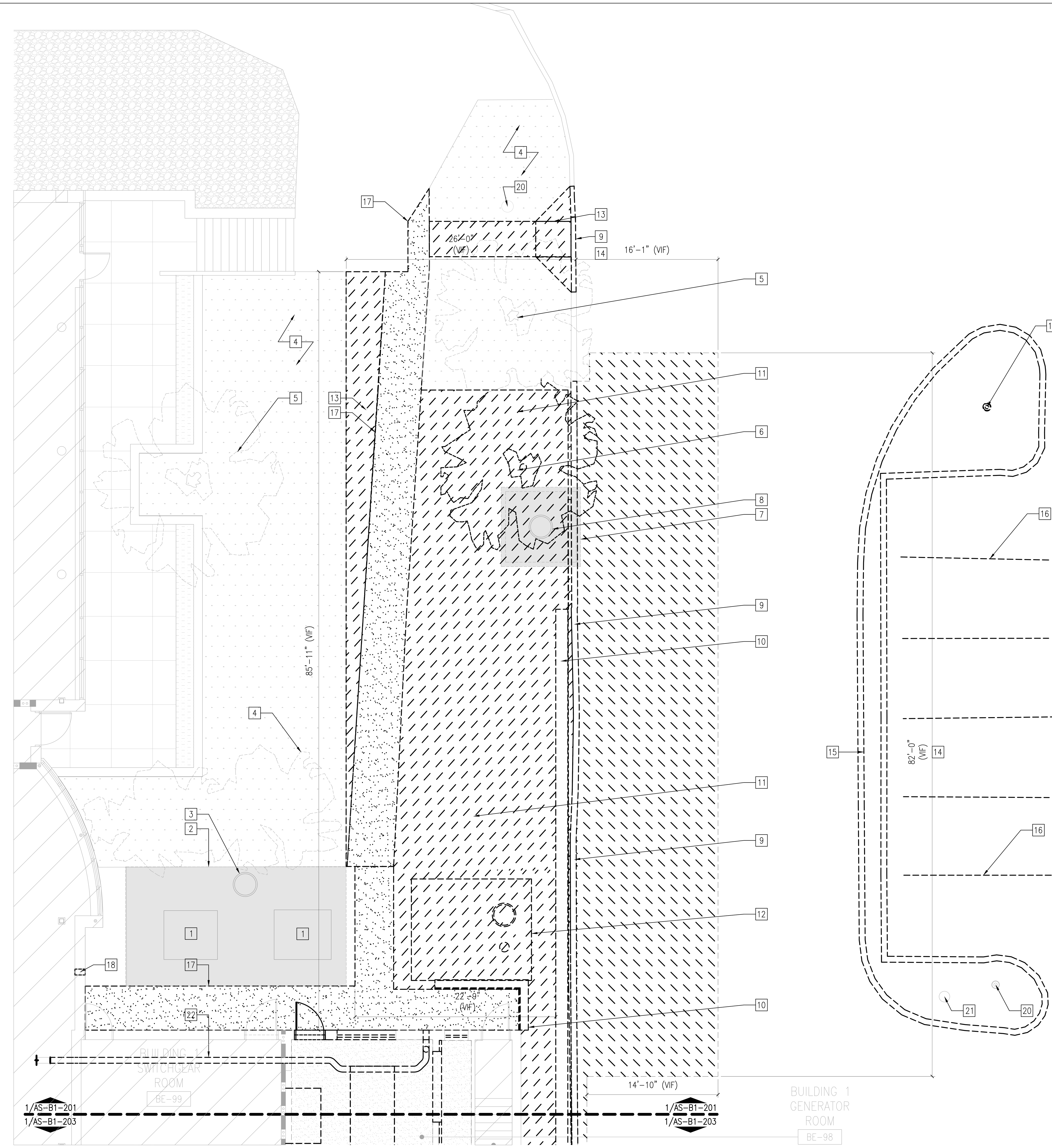


1 ARCHITECTURAL - BUILDING 1 - ARCHITECTURAL SITE DEMOLITION PLAN (NORTH LOADING DOCK)

3/16"=1'-0"

SPECIAL NOTE

THIS DRAWING SHEET IS PROVIDED AS A REFERENCE GUIDE ONLY TO SHOW MULTIPLE ENGINEERING DISCIPLINE DESIGN INTENT ON ONE PLAN. THIS SHEET IS NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. PLAN ELEMENTS SHOWN, KEY NOTES, AND DIMENSIONS ARE TO BE SUPERSEDED BY PHYSICAL ELEMENTS, KEY NOTES, DIMENSIONS AND DETAILS SHOWN ON ENGINEERING DISCIPLINE SPECIFIC SHEETS. THIS INCLUDES THE ENGINEERING DISCIPLINES OF CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL. THE CONTRACTOR IS RESPONSIBLE FOR A DETAILED COORDINATION OF WORK BETWEEN THE ENGINEERING DISCIPLINES' DRAWINGS.

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

PLAN DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY
- EXISTING DOOR, HARDWARE AND FRAME TO BE REMOVED UNLESS OTHERWISE NOTED.
- EXISTING DOOR TO REMAIN
- AREA NOT INCLUDED IN CONTRACT
- REMOVE EXISTING EARTHWORK.
- DEMOLISH EXISTING CONCRETE SIDEWALK.
- REMOVE EXISTING PAVING.

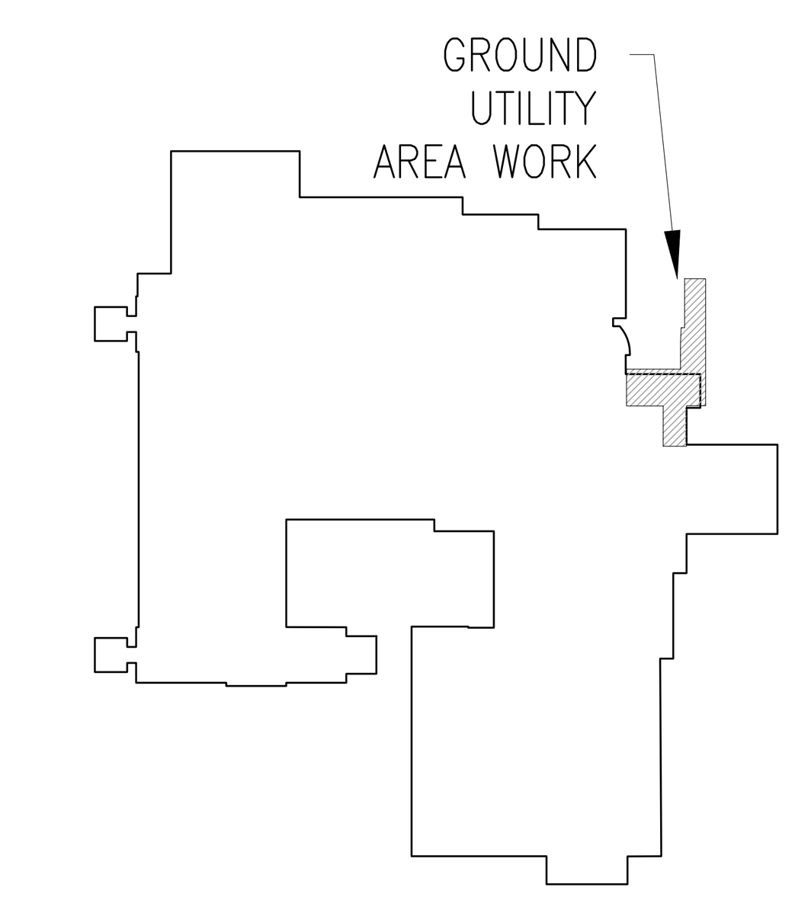
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

X DEMOLITION PLAN KEY NOTES

1. EXISTING TRANSFORMER TO REMAIN.
2. EXISTING VAULT TO REMAIN.
3. EXISTING ELECTRICAL MANHOLE.
4. PROTECT EXISTING LANDSCAPING. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
5. PROTECT EXISTING TREE. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
6. REMOVE EXISTING TREE. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
7. EXISTING ELECTRICAL VAULT. PROTECT FOR REUSE.
8. EXISTING ELECTRICAL MANHOLE.
9. REMOVE CURB. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
10. REMOVE EXISTING RETAINING WALL AND GUARD RAIL. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
11. CUT GRADE AS REQUIRED TO TO RECEIVE NEW INFRASTRUCTURE FOR NEW TRANSFORMER, FUEL TANK, RADIATOR. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION. REMOVE EXISTING FILL AND DISPOSE OFFSITE AS DIRECTED IN THE SPECIFICATIONS.
12. REMOVE EXISTING UNDERGROUND FUEL TANK. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
13. CUT AND FILL GRADE AS REQUIRED TO RECEIVE NEW CONCRETE WALKWAY/RAMP SYSTEM. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
14. REMOVE ASPHALT ROADWAY AS REQUIRED TO INSTALL NEW INFRASTRUCTURE. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
15. NOT USED.
16. REMOVE EXISTING VEHICLE PARKING. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
17. REMOVE EXISTING CONCRETE SIDEWALK TO EXTENT SHOWN. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
18. DEMOLISH PORTION OF WALL TO INSTALL NEW ROOF DRAIN.
19. REMOVE EXISTING LIGHT POLE AND DEMOLISH EXISTING CONCRETE BASE. HOLD FOR REINSTALLATION. SEE ELECTRICAL AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
20. EXISTING LIGHT POLE AND BASE TO REMAIN.
21. EXISTING FIRE HYDRANT AND BASE TO REMAIN.
22. REMOVE ROOF DRAIN LINE THAT PASSES THROUGH ROOM BE-98 & BE-99. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.



KEYPLAN BUILDING 1-9-46

NTS

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - ARCH SITE DEMO PLAN - NORTH DOCK

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024

Checked: DA

Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-201

VA FORM 08 - 6231

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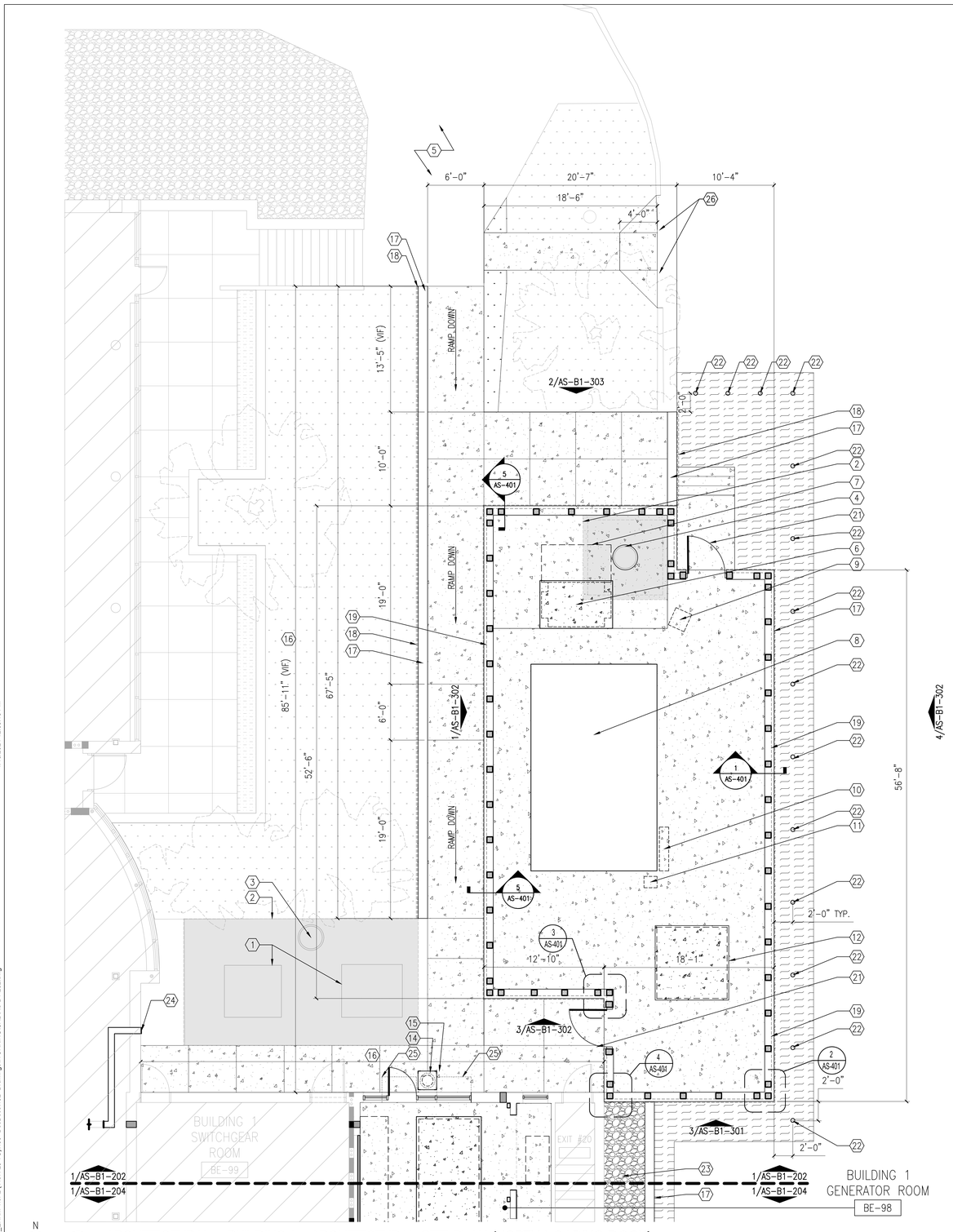

1 ARCHITECTURAL - BUILDING 1 - ARCHITECTURAL SITE PLAN (NORTH LOADING DOCK)
3/16"=1'-0"

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PLAN KEY NOTES

1. EXISTING TRANSFORMER
2. EXISTING VAULT.
3. EXISTING ELECTRICAL MANHOLE.
4. EXISTING ELECTRICAL MANHOLE. MODIFY TO SET AT NEW ELEVATION.
5. EXISTING CONCRETE WALK TO REMAIN.
6. NEW TRANSFORMER ON CONCRETE MAINTENANCE PAD.
7. 4'-0" MIN. DEPTH MAINTENANCE CLEARANCE.
8. NEW GENERATOR FUEL TANK ON STEEL SUPPORT RAILS. SEE MECHANICAL & STRUCTURAL FOR FURTHER INFORMATION.
9. NEW FUEL BOX FILL TANK SEE MECHANICAL FOR FURTHER INFORMATION.
10. NEW FUEL POLISHER. SEE MECHANICAL FOR FURTHER INFORMATION.
11. NEW FUEL PUMP. SEE MECHANICAL FOR FURTHER INFORMATION.
12. NEW GENERATOR RADIATOR ON CONCRETE MAINTENANCE PAD. SEE MECHANICAL FOR FURTHER INFORMATION.
13. NEW CONCRETE SERVICE YARD. SEE CIVIL AND STRUCTURAL FOR FURTHER INFORMATION.
14. GENERATOR EXHAUST STACK. SEE MECHANICAL FOR FURTHER INFORMATION.
15. STEEL SUPPORTS AND SECURITY CAGE.
16. NEW CONCRETE SIDEWALK AND RAMPS. SEE CIVIL FOR FURTHER INFORMATION.
17. NEW RETAINING WALL. SEE CIVIL AND STRUCTURAL FOR FURTHER INFORMATION.
18. NEW GUARDRAIL.
19. NEW BLAST MITIGATION BARRIER. (POST AND PANEL SYSTEM)
20. NOT USED.
21. NEW 4'-0" BLAST HARDENED DOOR.
22. NEW BOLLARD. SEE CIVIL FOR FURTHER INFORMATION.
23. NEW GRAVEL BACKFILL.
24. PROVIDE AND INSTALL NEW COW-TONGUE DRAIN. SEE DETAIL 5/AS-502 FOR DETAIL. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
25. INTAKE HOOD FOR MECHANICAL VENTILATION UNIT. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
26. MODIFY EXISTING CURB TO CUT ALONG NEW RAMP/ACCESSIBLE SIDEWALK TO NEW ADA PARKING SPACES.

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

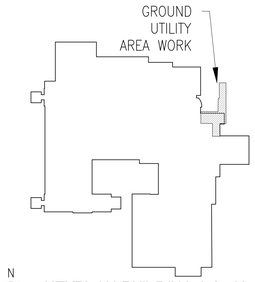
FLOOR PLAN LEGEND

- EXISTING PARTITION WALL
- NEW PARTITION WALL
- EXISTING DOOR
- NEW DOOR
- AREA NOT INCLUDED IN CONTRACT
- NEW ASPHALT PAVEMENT
- NEW GRASS
- FEC — FIRE EXTINGUISHER CABINET
- MATCHLINE
- XX — PARTITION TYPE
- X — SIGN TAG
- XXXXX — DOOR TAG
- NEW GRAVEL
- NEW CONCRETE

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)



N KEYPLAN BUILDING 1-9-46
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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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Bancroft Project No: 22-113

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LICENSED ARCHITECT CROTAN D. ZAKARIA 001-006355 ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - ARCH SITE PLAN - NORTH DOCK

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-202

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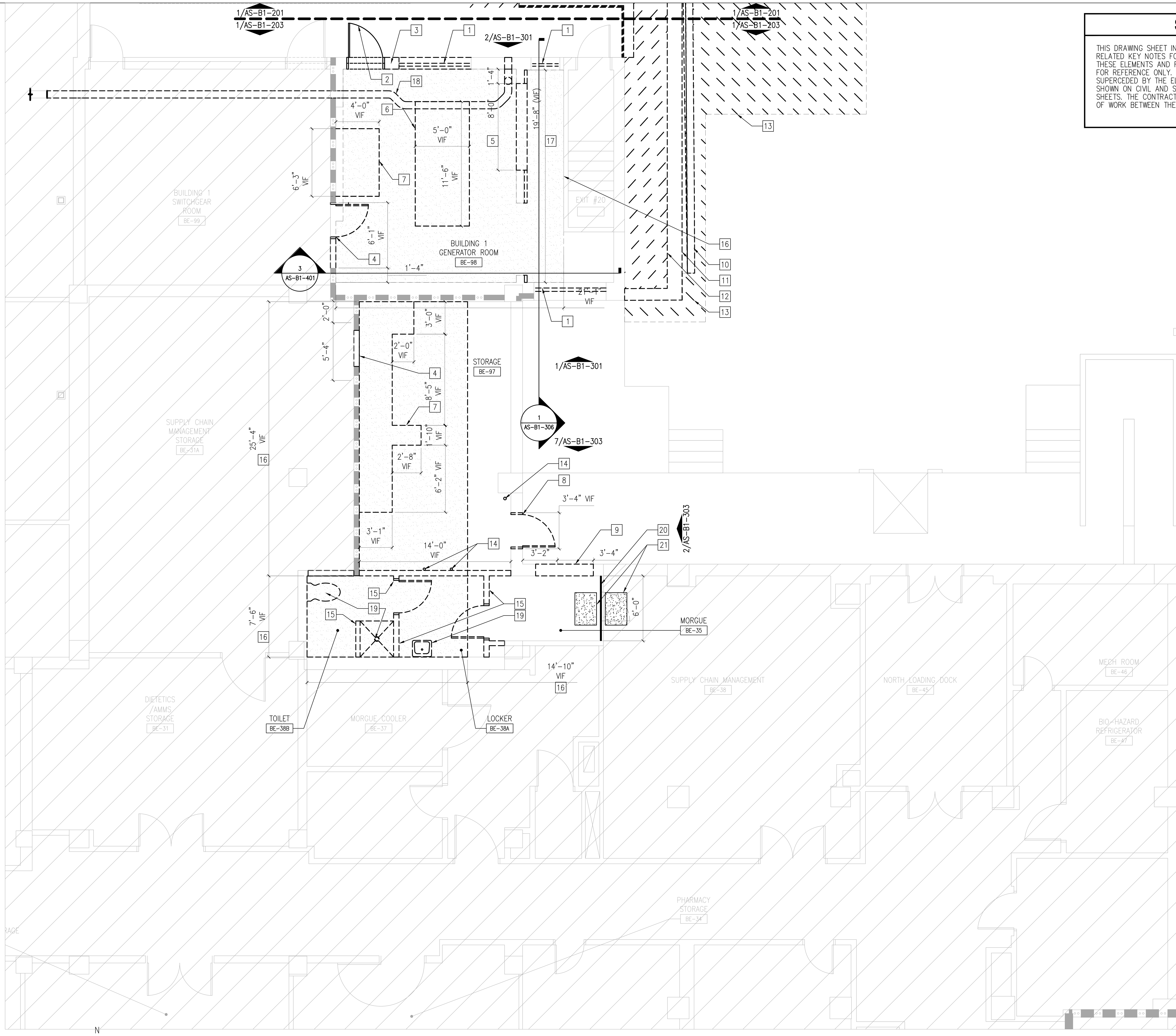


1 ARCHITECTURAL - BUILDING 1 - ROOMS BE-98, BE-97, BE-35, BE-38A, BE-38B ENLARGED FLOOR DEMOLITION PLAN

1/4"=1'-0"

SPECIAL NOTE

THIS DRAWING SHEET INCLUDES DESIGN INTENT PHYSICAL ELEMENTS AND RELATED KEY NOTES FOR CIVIL AND STRUCTURAL ENGINEERING DISCIPLINES. THESE ELEMENTS AND RELATED KEY NOTES ARE PROVIDED ON THIS SHEET FOR REFERENCE ONLY. THESE ELEMENTS AND KEYNOTES ARE TO BE SUPERCEDED BY THE ELEMENTS, KEY NOTES, DIMENSIONS, AND DETAILS SHOWN ON CIVIL AND STRUCTURAL ENGINEERING DISCIPLINE DRAWING SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR A DETAILED COORDINATION OF WORK BETWEEN THE ENGINEERING DISCIPLINES' DRAWINGS.

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

PLAN DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY
- EXISTING DOOR, HARDWARE AND FRAME TO BE REMOVED UNLESS OTHERWISE NOTED.
- EXISTING DOOR TO REMAIN
- AREA NOT INCLUDED IN CONTRACT
- DEMOLISH EXISTING CONCRETE.
- REMOVE EXISTING EARTHWORK.
- REMOVE EXISTING PAVING.

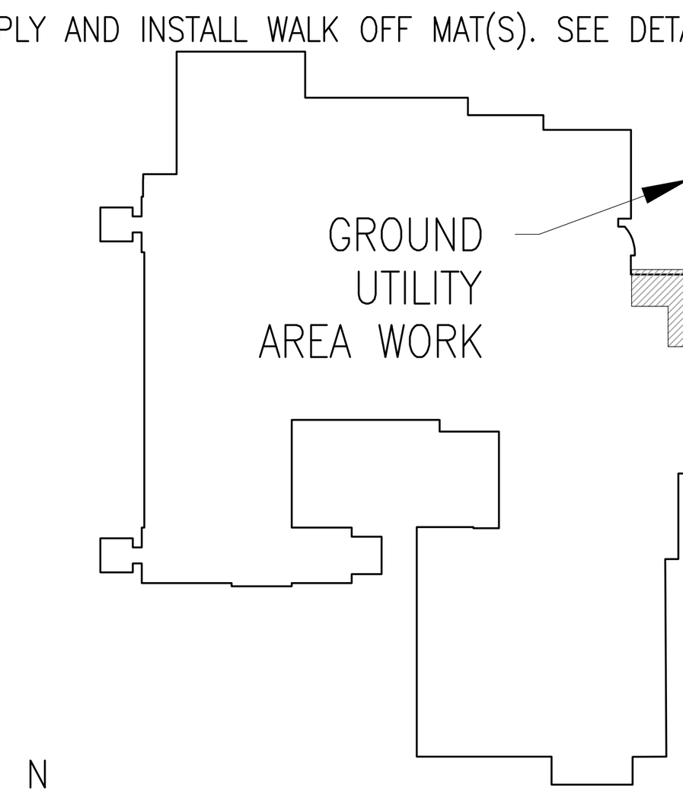
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

X DEMOLITION PLAN KEY NOTES

1. REMOVE EXISTING LOUVER ASSEMBLY.
2. REMOVE EXISTING DOOR AND FRAME.
3. REMOVE EXISTING MASONRY TO EXTENT SHOWN.
4. REMOVE EXISTING DOOR AND MASONRY AND PREP OPENING FOR NEW DOOR.
5. REMOVE WALL TO EXTENT SHOWN. PATCH AND PREP FLOOR TO RECEIVE SEAL FINISH.
6. REMOVE EXISTING CONCRETE GENERATOR PAD. PATCH AND PREP FLOOR TO RECEIVE NEW GENERATOR PAD.
7. REMOVE EXISTING CONCRETE EQUIPMENT PAD. PATCH AND PREP FLOOR TO RECEIVE SEAL FINISH.
8. REMOVE EXISTING DOOR. (PREP OPENING FOR MASONRY INFILL)
9. REMOVE WALL TO EXTENT SHOWN. PREP OPENING FOR NEW DOOR.
10. REMOVE CURB. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
11. REMOVE EXISTING RETAINING WALL. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
12. REMOVE EXISTING FILL. DISPOSE OF OFFSITE AS DIRECTED IN THE SPECIFICATIONS.
13. REMOVE ASPHALT AS REQUIRED TO INSTALL NEW INFRASTRUCTURE. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
14. REMOVE CONDUIT/PIPING. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
15. EXISTING PARTITIONS TO BE REMOVED IN THEIR ENTIRETY. PATCH AND PREPARE CONCRETE TO RECEIVE SEAL COAT.
16. REMOVE CONCRETE FLOOR AND SUB-GRADE AS REQUIRED TO PROVIDE FOR INSTALLATION OF NEW CONDUIT & PIPING.
17. REMOVE ORIGINAL EXTERIOR BRICK WYTHE.
18. REMOVE ROOF DRAIN LINE THAT PASSES THROUGH ROOM BE-98 & BE-99. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
19. REMOVE PLUMBING FIXTURES BACK A DEMOLISH SERVICE LINES BACK TO MAIN AND CAP AT MAIN. REPAIR PORTIONS OF WALL EFFECTED BY DEMOLITION WORK. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
20. INSTALL TEMPORARY INFECTION CONTROL PANEL SYSTEM WITH DOOR ENTRY. BASIS OF DESIGN IS EDGE GUARD OR VA APPROVED EQUAL. SEE ALSO GI-101.
21. SUPPLY AND INSTALL WALK OFF MAT(S). SEE DETAILS ON SHEET GI-101.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - BE-98,BE-97, BE-35,BE-38A,BE-38B DEMO PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024

Checked: DA

Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-203

VA FORM 08 - 6231

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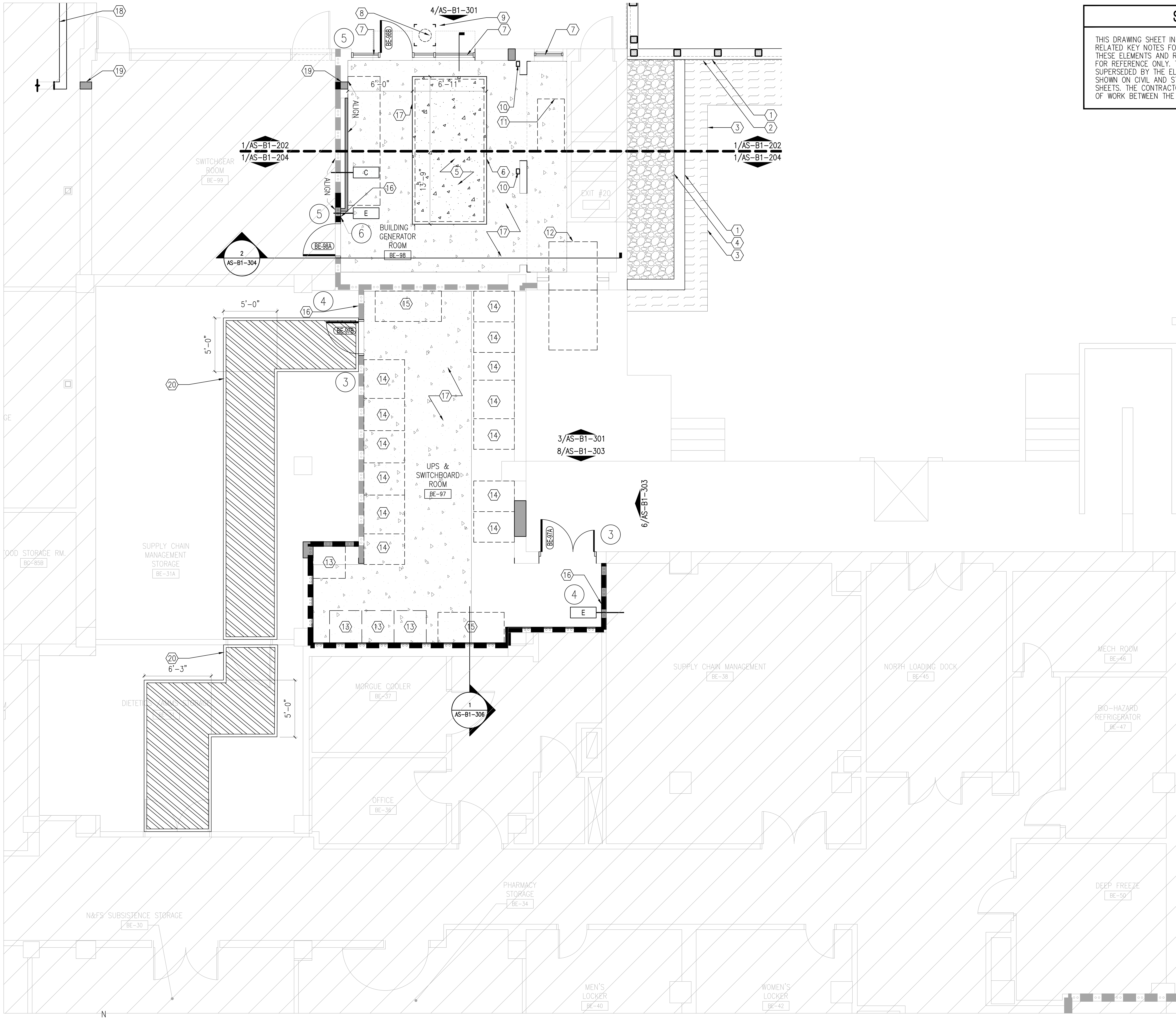

ARCHITECTURAL - BUILDING 1 - BE-98,BE-97, BE-35,BE-38A,BE-38B PLAN

1/4"=1'-0"

SPECIAL NOTE

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ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

C. FOR SIGN TYPES - SEE SIGNAGE SCHEDULE AS-621.

FLOOR PLAN LEGEND

- EXISTING PARTITION WALL
- FIRE EXTINGUISHER CABINET (FEC)
- NEW PARTITION WALL
- MATCHLINE
- EXISTING DOOR
- PARTITION TYPE (XX)
- SIGN TAG (X)
- NEW DOOR
- DOOR TAG (XX-XXX)
- AREA NOT INCLUDED IN CONTRACT
- NEW ASPHALT PAVEMENT
- NEW GRAVEL
- NEW GRASS
- NEW CONCRETE

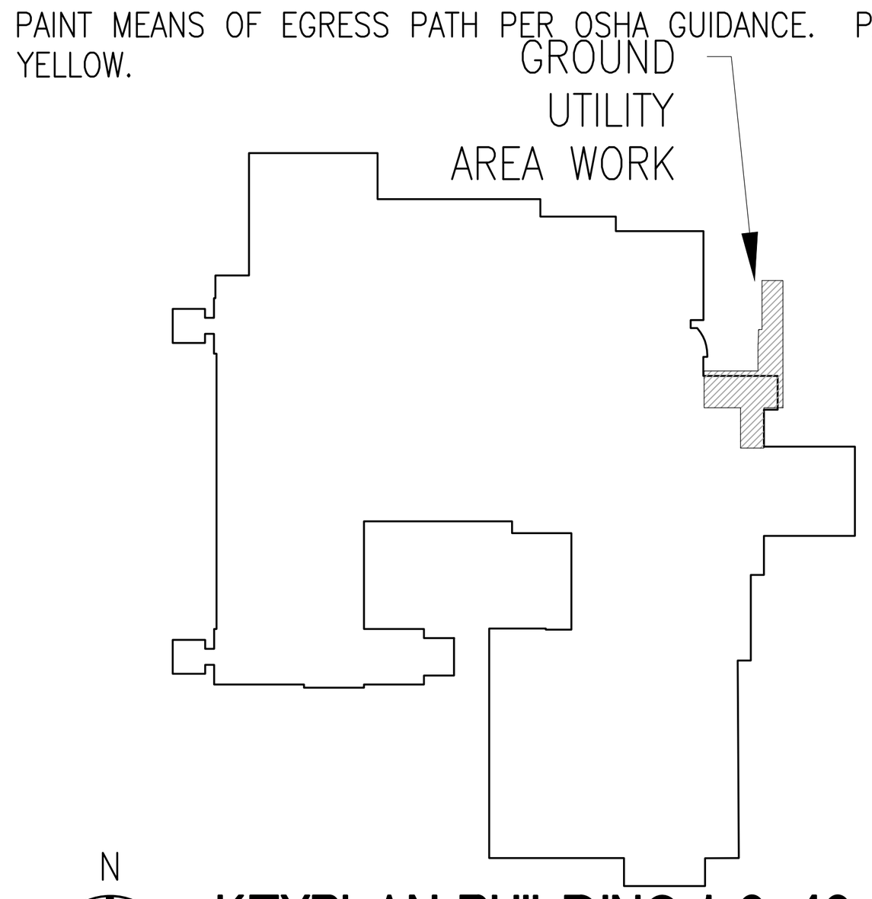
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

PLAN KEY NOTES

1. NEW RETAINING WALL. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
2. NEW BLAST HARDENED ENCLOSURE (POST AND PANEL SYSTEM) SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
3. NEW ASPHALT PAVING. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
4. NEW GRAVEL BACKFILL. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
5. NEW GENERATOR. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
6. CONCRETE HOUSEKEEPING PAD. SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
7. NEW LOUVER SYSTEM.
8. GENERATOR EXHAUST STACK ABOVE. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
9. STEEL SECURITY CAGE.
10. NEW STEEL COLUMN SUPPORTING NEW BEAM ABOVE. SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
11. NEW DAY TANK. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
12. NEW AIR CONDITIONER UNIT. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
13. NEW SWITCHBOARD UNIT. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
14. RELOCATE EXISTING UPS UNIT. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
15. NEW CRAC UNIT. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
16. NEW ABC TYPE FIRE EXTINGUISHER.
17. INSTALL NEW CONCRETE FLOOR AND SUBGRADE TO EXTENT SHOWN. SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
18. NEW ROOF DRAIN LINE TIED INTO THE EXISTING. PROVIDE AND INSTALL NEW COW-TONGUE DRAIN. SEE DETAIL 5/AS-502 FOR DETAIL. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
19. PATCH AND INFILL PIPE CUT LOCATIONS.
20. PAINT MEANS OF EGRESS PATH PER OSHA GUIDANCE. PAINT TO BE SAFETY YELLOW.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - BE-98,BE-97, BE-35,BE-38A,BE-38B PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

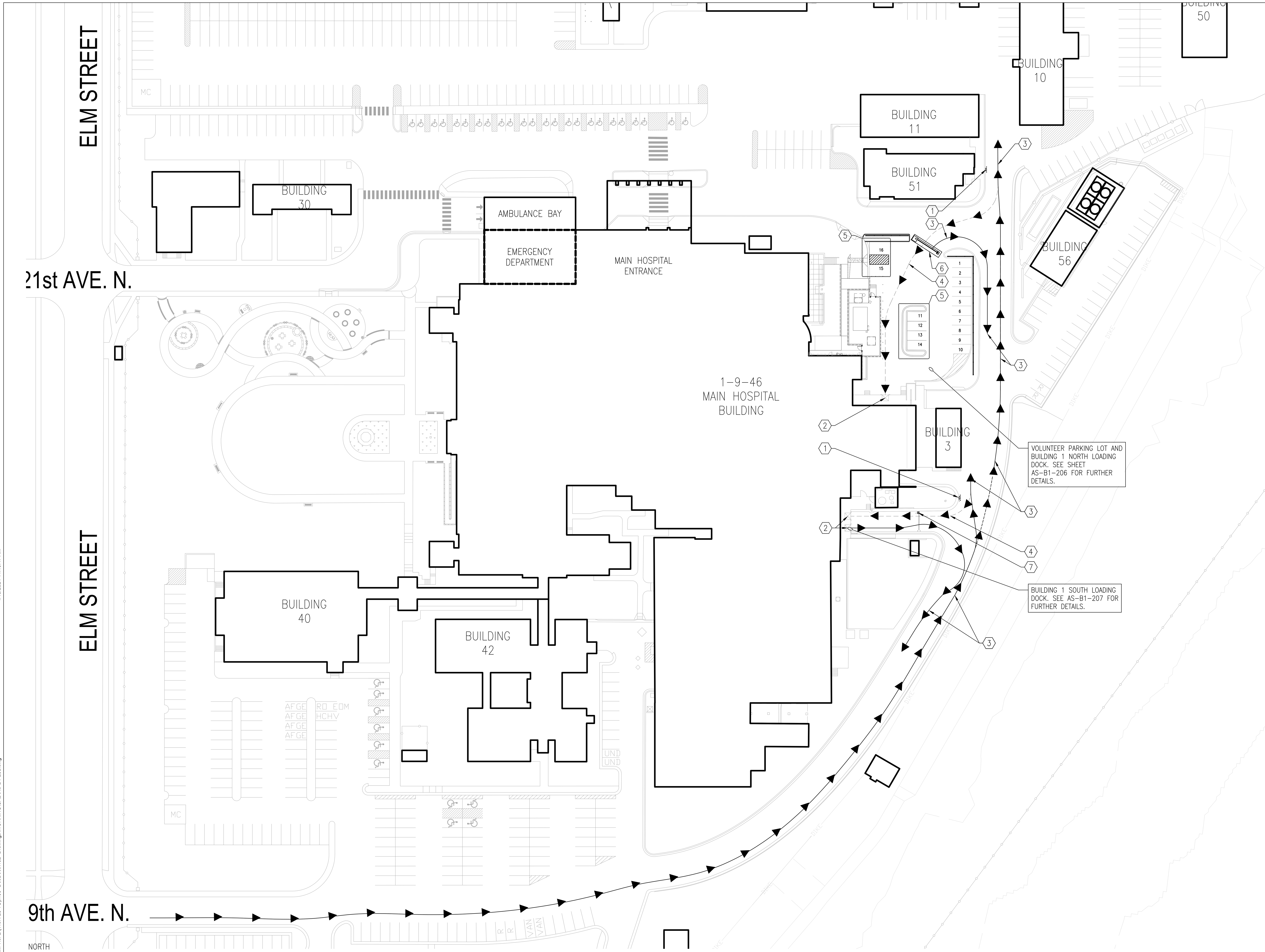
Project Number: 437-21-210

Building Number: 1

Location: FARGO VA HEALTH CARE SYSTEM

Drawing Number: AS-B1-204

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM



NORTH

1 ARCHITECTURAL - BUILDING 1 - SITE SECURITY TRAFFIC PLAN

NTS

SPECIAL NOTE

THIS DRAWING SHEET IS PROVIDED AS A REFERENCE GUIDE ONLY TO SHOW TRAFFIC FLOW FOR DELIVERY TRUCKS. THIS SHEET IS NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. PLAN ELEMENTS SHOWN, KEY NOTES, AND DIMENSIONS ARE TO BE SUPERSEDED BY PHYSICAL ELEMENTS, KEY NOTES, DIMENSIONS AND DETAILS SHOWN ON ENGINEERING DISCIPLINE SPECIFIC SHEETS. THIS INCLUDES THE ENGINEERING DISCIPLINES OF CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL. THE CONTRACTOR IS RESPONSIBLE FOR A DETAILED COORDINATION OF WORK BETWEEN THE ENGINEERING DISCIPLINES' DRAWINGS.

PLAN KEY NOTES

1. 2-WAY COMMUNICATION STATION AND PIV CARD READER FOR GATE ACTIVATION.
2. LOADING DOCK LEVER AND BUMPERS.
3. DELIVERY TRUCK FORWARD TRAFFIC FLOW.
4. DELIVERY TRUCK REVERSE MOVEMENT.
5. PROPOSED NEW PARKING SPOTS.
6. 22'-0" WIDE RATED BARRIER GATE.
7. 17'-0" WIDE DROP ARM GATE.

ISSUE FOR BID - 01/16/2024

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Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - SITE SECURITY PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

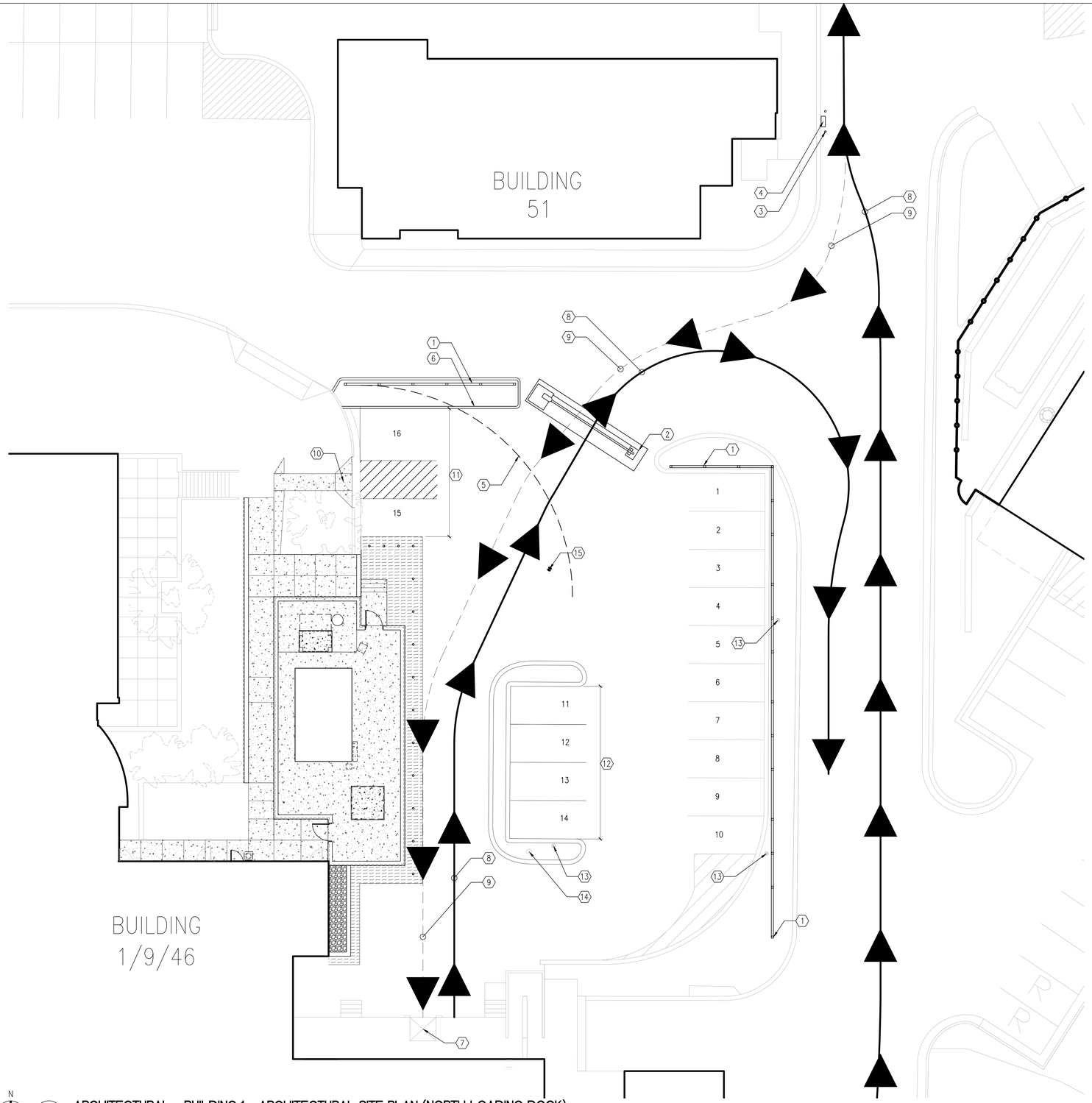
Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-205



SPECIAL NOTE

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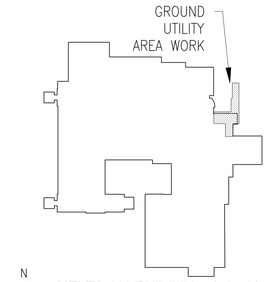
⟨X⟩ PLAN KEY NOTES

1. PROVIDE AND INSTALL WROUGHT IRON FENCE.
2. PROVIDE AND INSTALL 22'-0" WIDE RATED BARRIER GATE.
3. PROVIDE AND INSTALL 2-WAY COMMUNICATION STATION AND PIV CARD READER FOR GATE ACTIVATION.
4. PROVIDE AND INSTALL BOLLARD.
5. 50'-0" BLAST MITIGATION STANDOFF.
6. PROVIDE AND INSTALL CONCRETE WALK.
7. LOADING DOCK LEVELER AND BUMPERS.
8. DELIVERY TRUCK FORWARD TRAFFIC FLOW.
9. DELIVERY TRUCK REVERSE MOVEMENT.
10. PROVIDE AND INSTALL HANDICAP RAMP AND CURB CUT.
11. PROVIDE AND INSTALL STRIPING FOR TWO NEW ACCESSIBLE PARKING SPACES.
12. PROVIDE AND INSTALL STRIPING AND CURB FOR FOUR NEW PARKING SPACES.
13. PROTECT EXISTING LIGHT-POST.
14. PROTECT EXISTING FIRE-HYDRANT.
15. REMOVE AND STORE EXISTING LIGHT-POST. HOLD FOR REINSTALLATION.



KEYPLAN BUILDING 1-9-46
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1 ARCHITECTURAL - BUILDING 1 - ARCHITECTURAL SITE PLAN (NORTH LOADING DOCK)
3/32"=1'-0"

0 4' 8' 16' 24'

ISSUE FOR BID - 01/16/2024

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CONSULTANT

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Bancroft Project No: 22-113

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LICENSED ARCHITECT CROTAN D. ZAKARIA 001-012355 ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - NORTH LOADING DOCK - SITE SECURITY PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

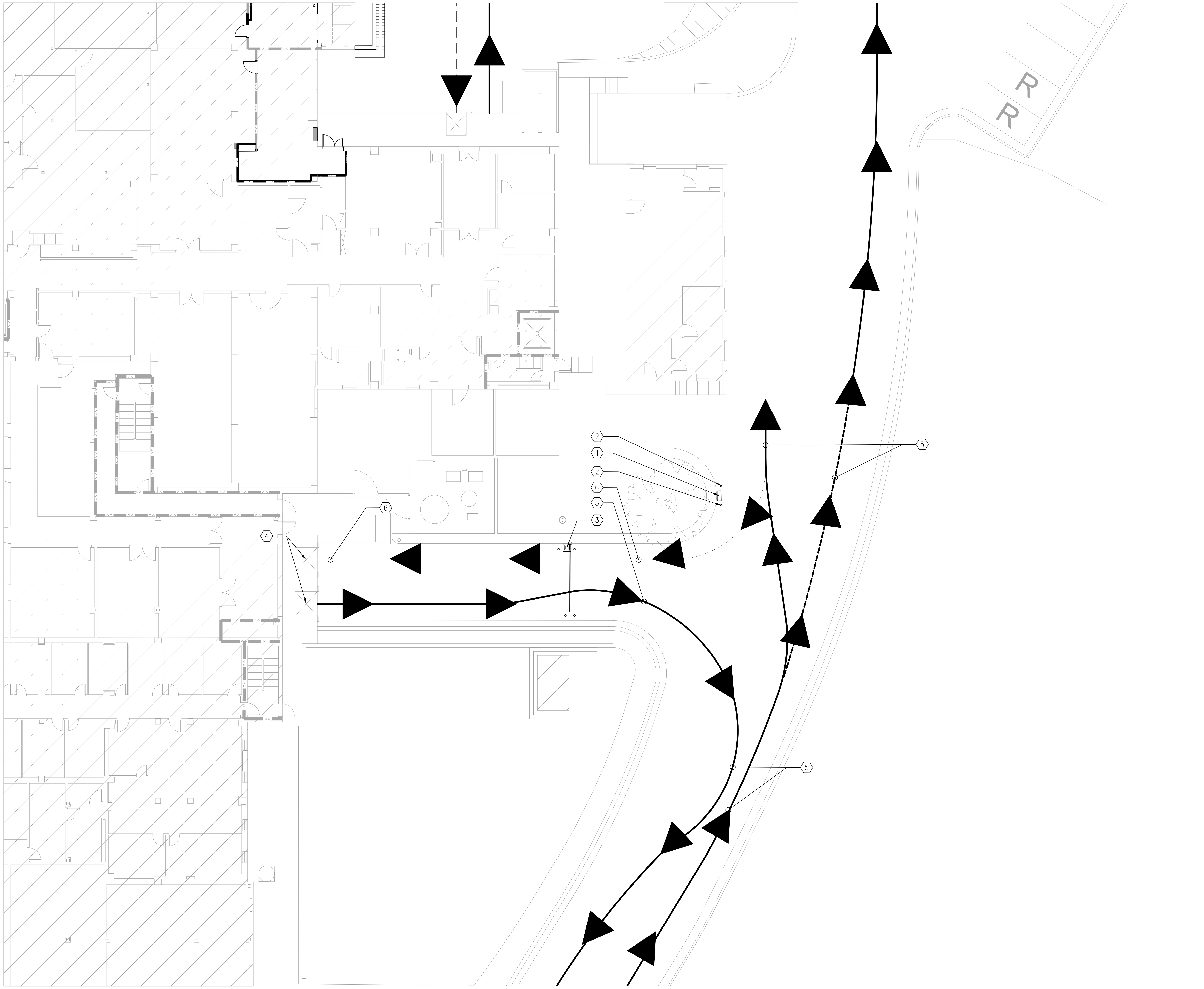
Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-206



1 ARCHITECTURAL - BUILDING 1 - SOUTH LOADING DOCK PLAN

3/32"=1'-0"

0 4 8 16 24

SPECIAL NOTE

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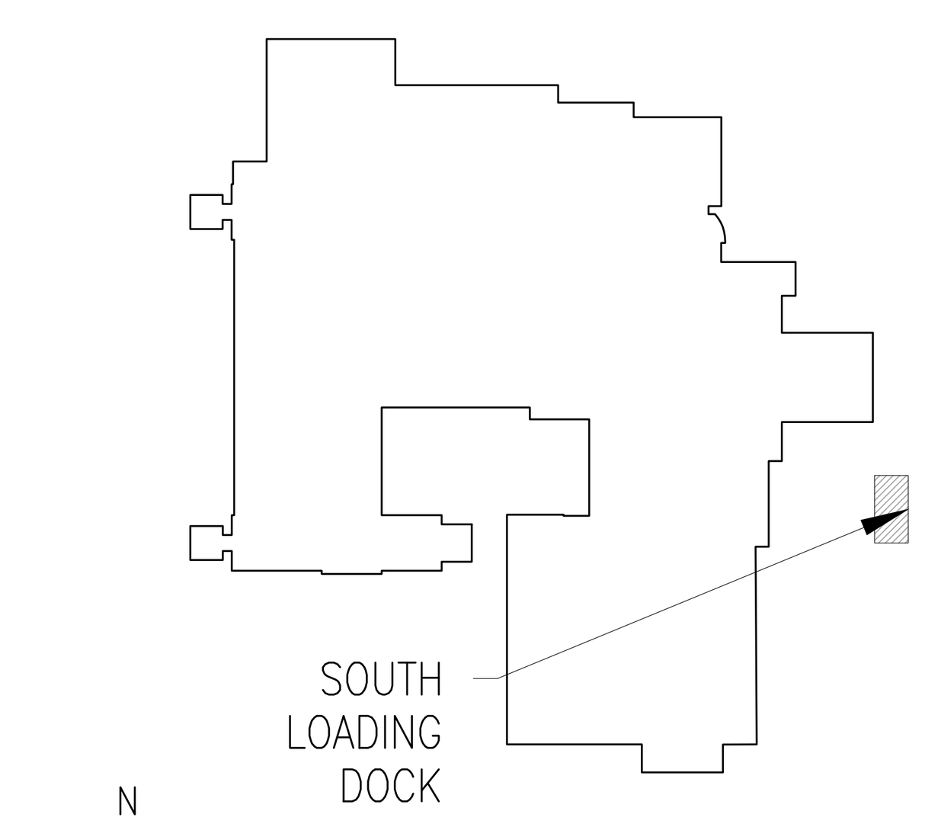
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER — SMOKE BARRIER (EXISTING)

(X) PLAN KEY NOTES

1. PROVIDE AND INSTALL 2-WAY COMMUNICATION STATION AND PIV CARD READER FOR GATE ACTIVATION.
2. PROVIDE AND INSTALL BOLLARD.
3. PROVIDE AND INSTALL 17'-0" WIDE DROP ARM GATE.
4. LOADING DOCK LEVELER AND BUMPERS.
5. DELIVERY TRUCK FORWARD TRAFFIC FLOW.
6. DELIVERY TRUCK REVERSE MOVEMENT.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

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CONSULTANT

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - SOUTH LOADING DOCK - SITE SECURITY PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024

Checked: DA

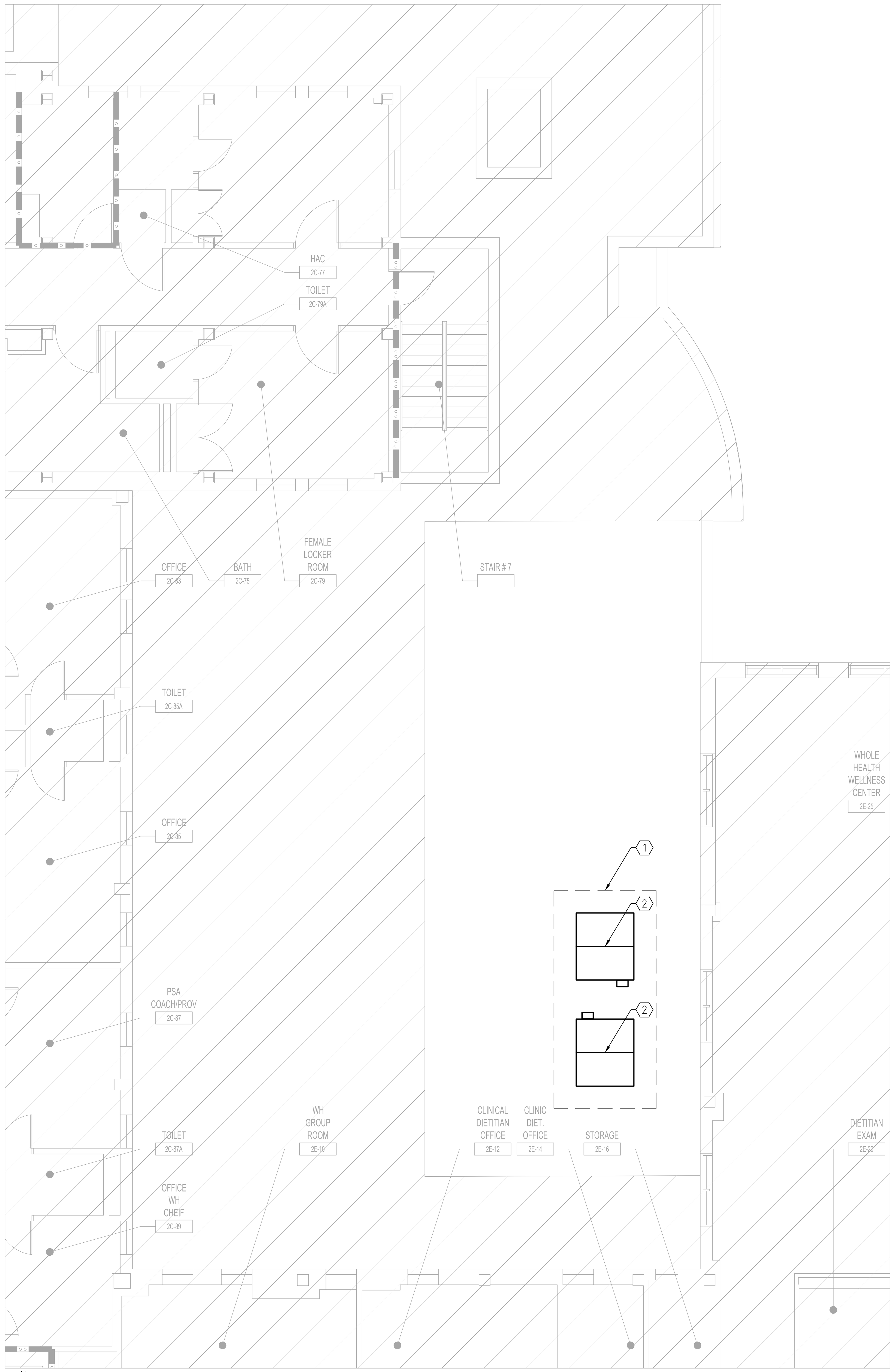
Drawn: JM

Project Number: 437-21-210

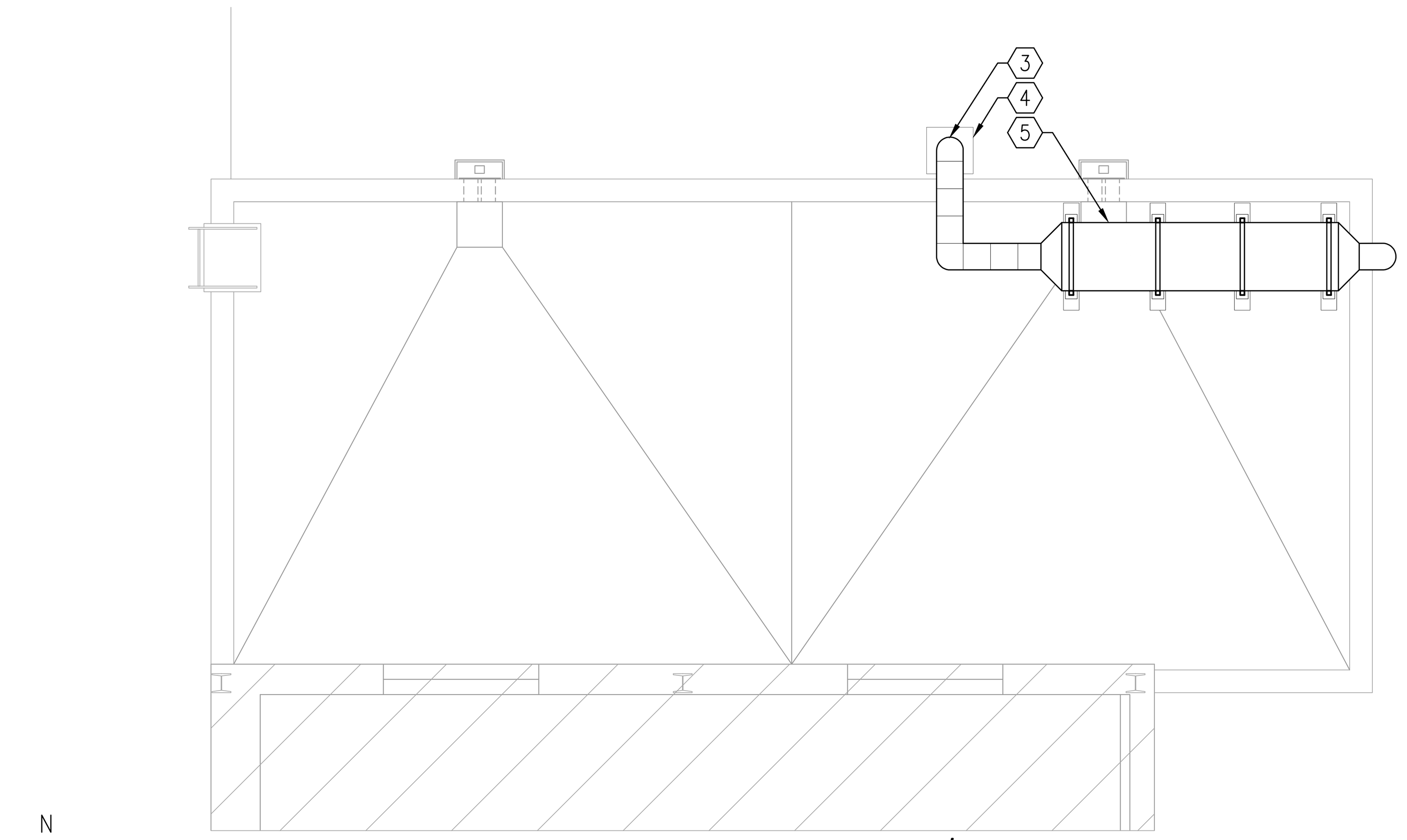
Building Number: 1

Drawing Number: AS-B1-207

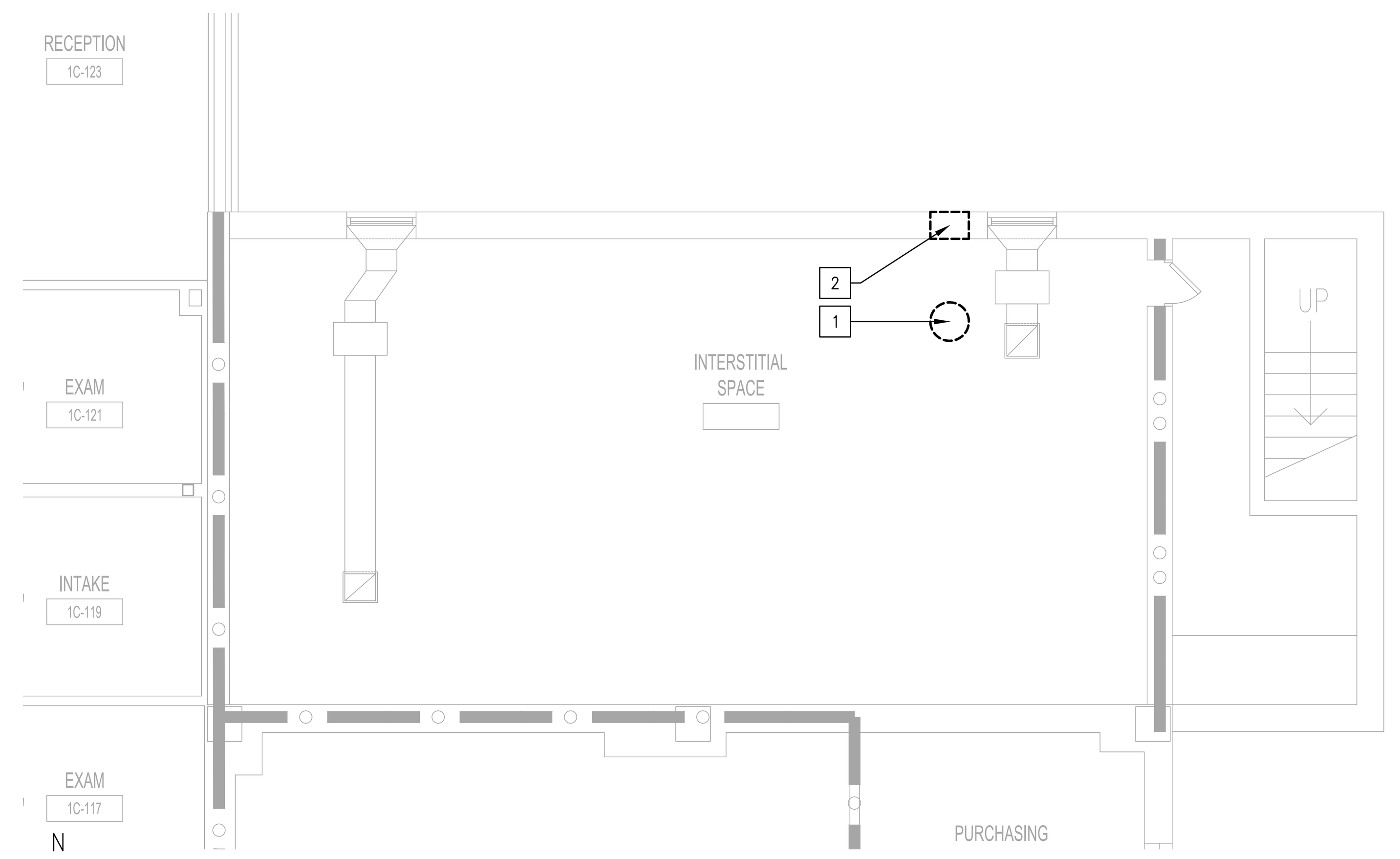
VA FORM 08 - 6231



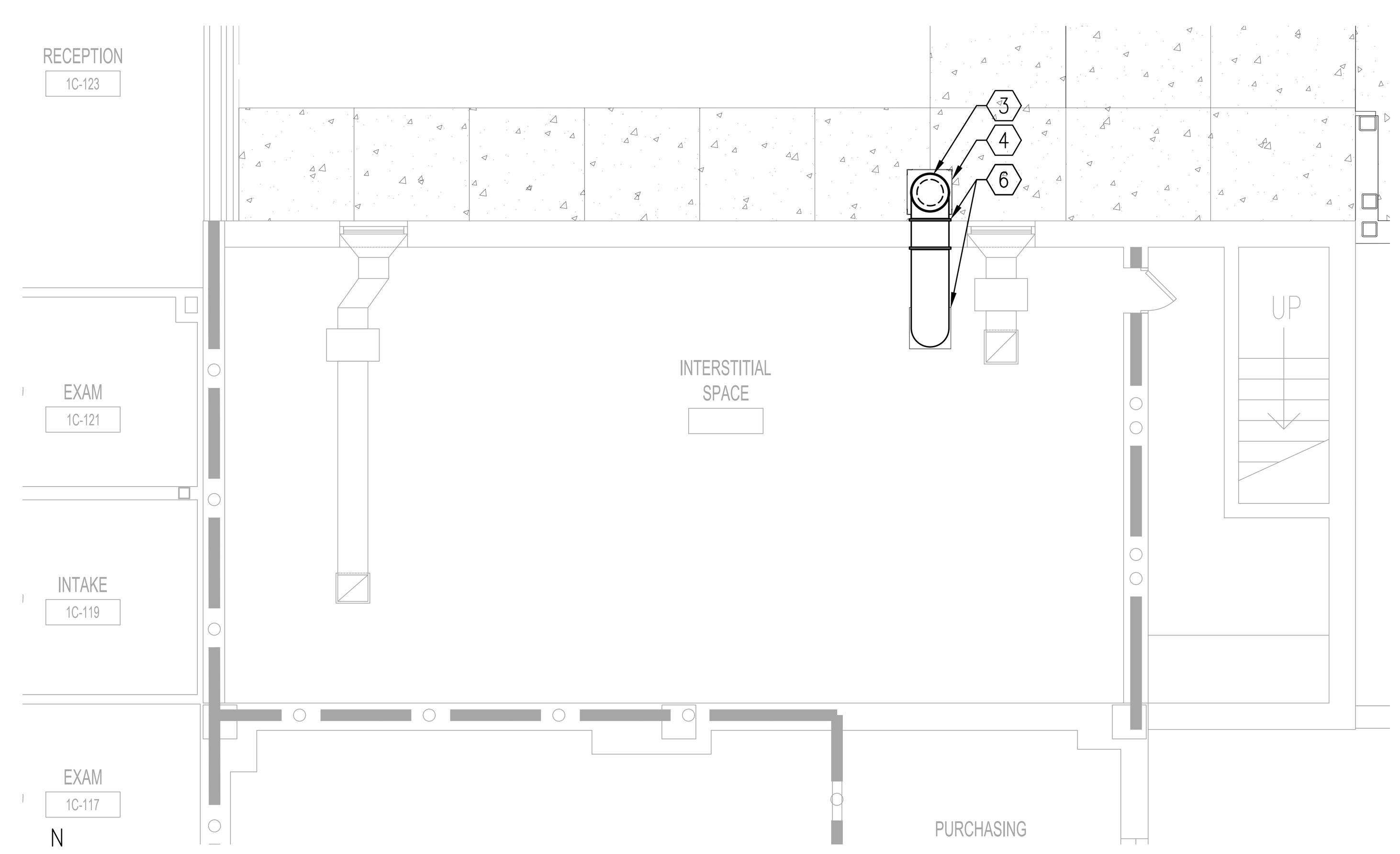
4 ARCHITECTURAL - BUILDING 1 - SECOND FLOOR / ROOF PLAN - ROOF AREA "C"
3/16"=1'-0"



3 ARCHITECTURAL - BUILDING 1 - THIRD FLOOR / SECOND FLOOR ROOF PLAN
3/16"=1'-0"
(ABOVE GENERATOR AND SWITCHGEAR ROOM)



2 ARCHITECTURAL - BUILDING 1 - FIRST FLOOR DEMOLITION PLAN
3/16"=1'-0"
(ABOVE GENERATOR AND SWITCHGEAR ROOM)



1 ARCHITECTURAL - BUILDING 1 - FIRST FLOOR PLAN
3/16"=1'-0"
(ABOVE GENERATOR AND SWITCHGEAR ROOM)

SPECIAL NOTE

THIS DRAWING SHEET INCLUDES DESIGN INTENT PHYSICAL ELEMENTS AND RELATED KEY NOTES FOR MECHANICAL AND STRUCTURAL ENGINEERING DISCIPLINES. THESE ELEMENTS AND RELATED KEY NOTES ARE PROVIDED ON THIS SHEET FOR REFERENCE ONLY. THOSE RELATED ELEMENTS AND KEY NOTES ARE TO BE SUPERCEDED BY THE ELEMENTS, KEY NOTES, DIMENSIONS, AND DETAILS SHOWN ON MECHANICAL AND STRUCTURAL ENGINEERING DISCIPLINE DRAWING SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR A DETAILED COORDINATION OF WORK BETWEEN THE ENGINEERING DISCIPLINES' DRAWINGS.

ARCHITECTURAL GENERAL NOTES

A. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

B. DURING COURSE OF ROOFING WORK, CONTRACTOR TO MAINTAIN WATER-TIGHT WATERPROOFING BARRIER AT THE COMPLETION OF EACH WORK SHIFT.

DEMOLITION PLAN KEY NOTES

1. CUT A PORTION OF SLAB FOR INSTALLATION OF NEW GENERATOR EXHAUST. COORDINATE FINAL PLACEMENT LOCATION WITH GENERATOR LOCATION BELLOW.
2. CORE THROUGH EXTERIOR WALL TO FOR INSTALLATION OF GENERATOR EXHAUST PIPE.

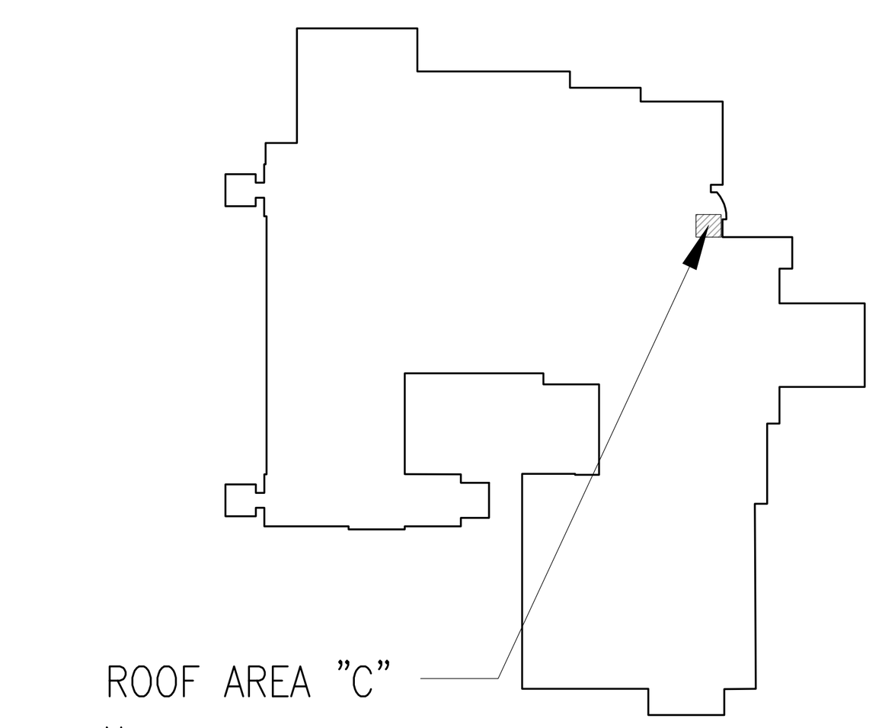
PLAN KEY NOTES

1. PATCH ROOFING ASSEMBLY TO MATCH EXISTING ADJACENT. INSTALLATION SHALL MEET MANUFACTURER'S INSTRUCTIONS AND SHALL BE AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY.
2. NEW AIR COOLED CONDENSING UNIT. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. EXHAUST FROM GENERATOR ROOM. SEE MECHANICAL FOR MORE INFORMATION.
4. STRUCTURAL SUPPORT SYSTEM FOR NEW EXHAUST. SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
5. GENERATOR MUFFLER. SEE MECHANICAL FOR MORE INFORMATION.
6. INSTALL EXHAUST THIMBLE IN FLOOR AND WALL. SEE MECHANICAL FOR FURTHER INFORMATION.

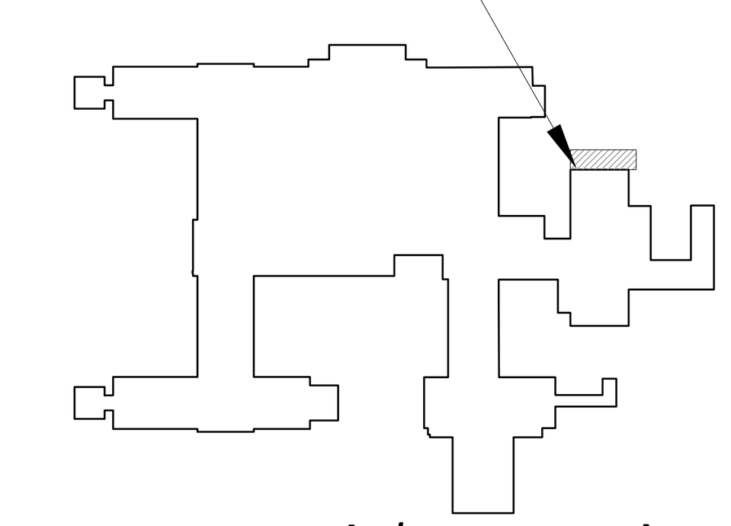
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

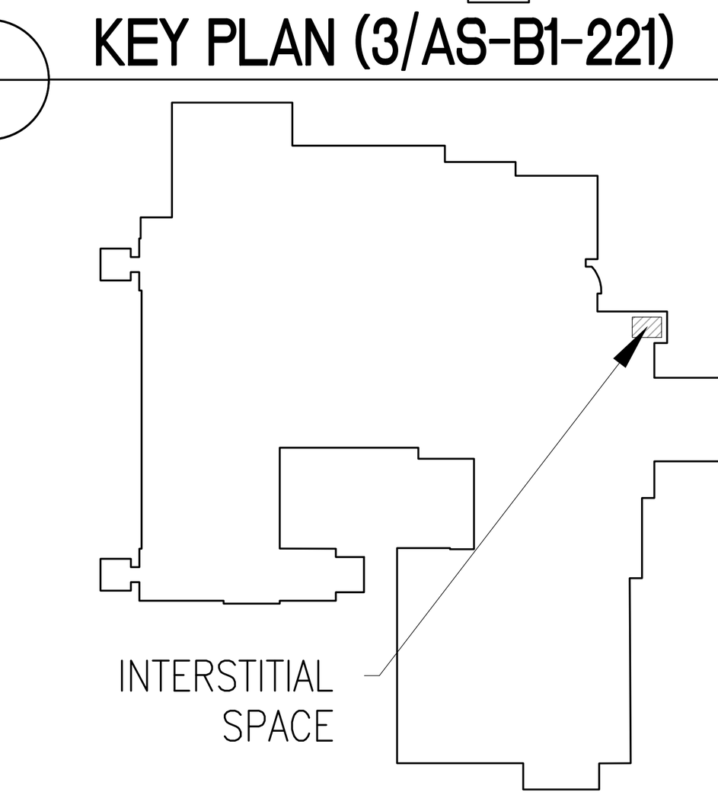
- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)



KEY PLAN (4/AS-B1-221)



KEY PLAN (3/AS-B1-221)



KEY PLAN (1 + 2/AS-B1-221)

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURL - B1 - PARTIAL ROOF PLANS
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1
Drawing Number	AS-B1-221

VA FORM 08 - 6231

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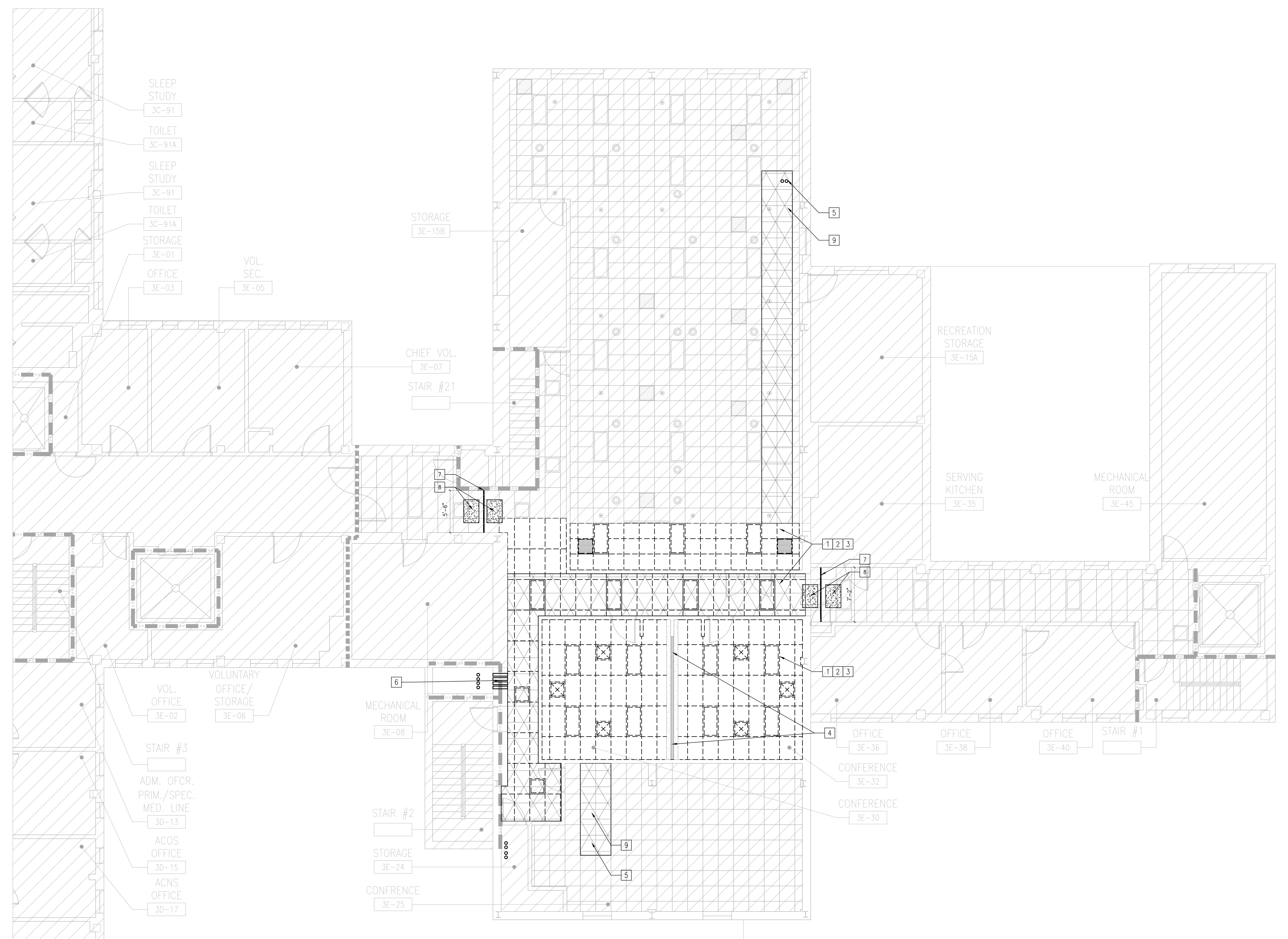


ARCHITECTURAL - BUILDING 1 - THIRD FLOOR REFLECTED CEILING DEMOLITION PLAN

1 — 3/16"=1'-0"

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

CEILING DEMOLITION PLAN LEGEND

- SUSPENDED ACOUSTIC CEILING TILE, GRID AND HANGERS TO BE REMOVED
- 2' X 4' LIGHT FIXTURE TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.
- 2' X 2' LIGHT FIXTURE TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER — SMOKE BARRIER (EXISTING)

X DEMOLITION PLAN KEY NOTES

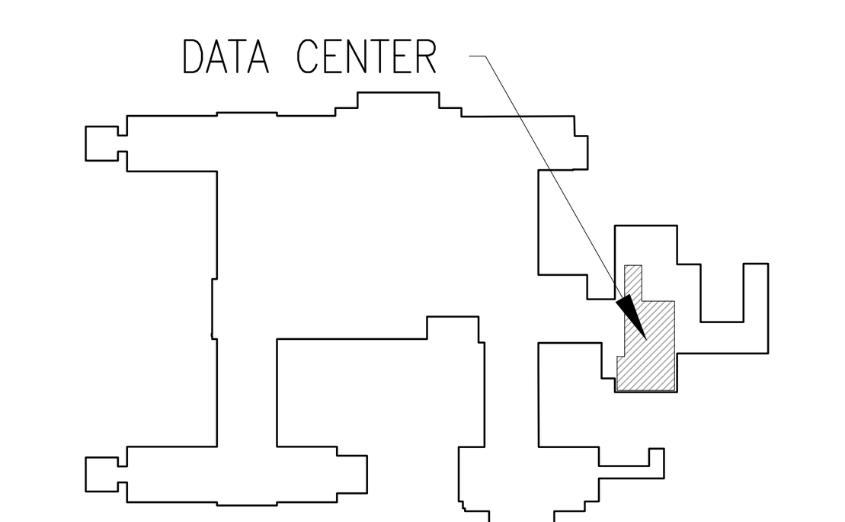
1. REMOVE EXISTING ACOUSTICAL TILE CEILING IN ITS ENTIRETY (WITHIN THE ROOM). INSTALL NEW TILES AND GRID WHEN WORK IS COMPLETED. NEW CEILING SYSTEM TO MATCH EXISTING.
2. EXISTING LIGHT FIXTURES, MECHANICAL SYSTEMS, AND DEVICES IN CEILINGS TO BE PROTECTED AND PREPPED FOR REINSTALLATION.
3. ALL EXISTING SPRINKLER HEADS ARE TO REPLACED WITH TURNED UP SPRINKLER HEADS DURING CONSTRUCTION AND THEN REPLACED WITH TURNED DOWN SPRINKLER HEADS AT TIME OF NEW CEILING INSTALLATION
4. GYPSUM CEILING SYSTEM AND TRACK DOOR ASSEMBLY TO BE PROTECTED.
5. CORE OPENINGS IN EXISTING SLAB ABOVE FOR NEW CONDUIT AND FIBER OPTIC CABLE RUNS. INSTALL RE-ENTERABLE FIRESTOP SLEEVE ASSEMBLY.
6. WHERE CONDUIT PENETRATE THROUGH WALLS (ABOVE CEILING) CORE OPENINGS AND INSTALL RE-ENTERABLE FIRESTOP SLEEVE ASSEMBLY.
7. INSTALL INFECTION CONTROL PANEL SYSTEM WITH DOOR ENTRY. BASIS OF DESIGN IS EDGE GUARD OR VA APPROVED EQUAL. SEE ALSO GI-101.
8. SUPPLY AND INSTALL WALK OFF MAT(S). SEE DETAILS ON SHEET GI-101.
9. PROPOSED ROUTE ABOVE CEILING FOR ROUTING ELECTRICAL CONDUITS AND FIBER OPTIC CABLES TO CORE OPENINGS ABOVE.

CEILING TEMPORARY DEMOLITION LEGEND

1 KEYNOTE 1

X CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - THIRD FLOOR REFLECTED CEILING PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-231

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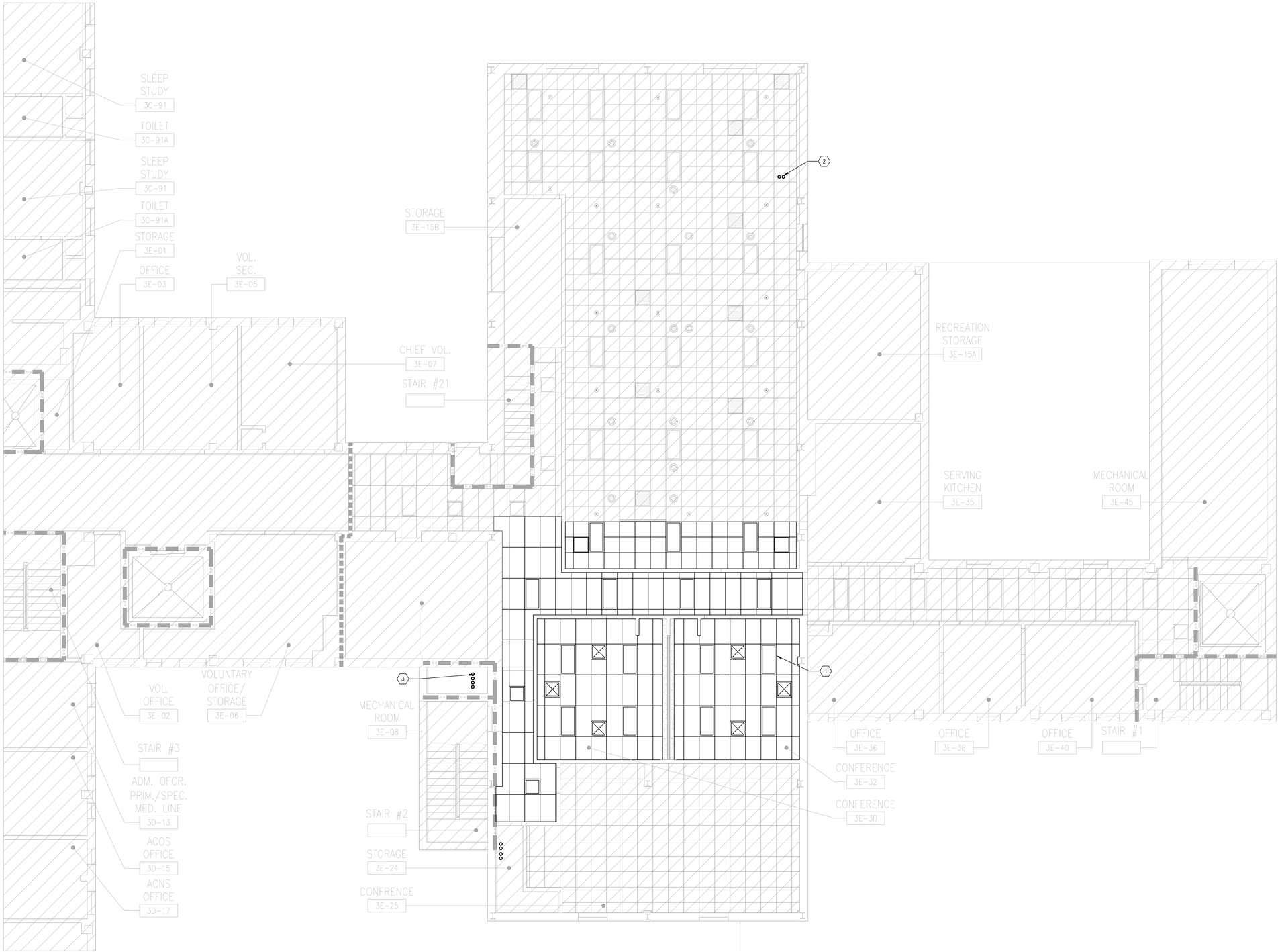


N

1 ARCHITECTURAL - BUILDING 1 - THIRD FLOOR REFLECTED CEILING PLAN

3/16"=1'-0"

0 2' 4' 8' 12'

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

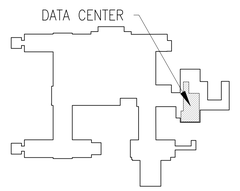
- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

REFLECTED CEILING PLAN LEGEND

- 2' X 2' SUSPENDED ACOUSTIC CEILING TILE
- RETURN REGISTER REFER TO MECHANICAL DRAWINGS.
- 2' X 4' LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS.
- AREA NOT INCLUDED IN CONTRACT

(X) REFLECTED CEILING PLAN KEY NOTES

1. REINSTALL NEW ACT CEILING. CEILING SYSTEM TO MATCH EXISTING. REINSTALL ALL LIGHT FIXTURES AND DEVICES. INSTALL NEW TURNED DOWN SPRINKLER HEADS.
2. PROPOSED ROUTE ABOVE CEILING FOR ROUTING ELECTRICAL CONDUITS AND FIBER OPTIC CABLES TO EXISTING VERTICAL CHASE.
3. PROPOSED RUN OF ELECTRICAL CONDUITS AND FIBER OPTIC CABLES TO BASEMENT BELOW.



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KEY PLAN BUILDING 1-9-46

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ISSUE FOR BID	01-16-24
Revisions:	Date:

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LICENSED ARCHITECT CROTAN D ANKARLO 001-36355 REGISTERED ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - THIRD FLOOR REFLECTED CEILING PLAN

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

ISSUE FOR BID - 01/16/2024

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-232

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ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING PARTITION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
- EXISTING DOOR, HARDWARE AND FRAME TO BE REMOVED UNLESS OTHERWISE NOTED.
- EXISTING DOOR TO REMAIN
- EXISTING FLOOR FINISH TO BE REMOVED.
- AREA NOT INCLUDED IN CONTRACT

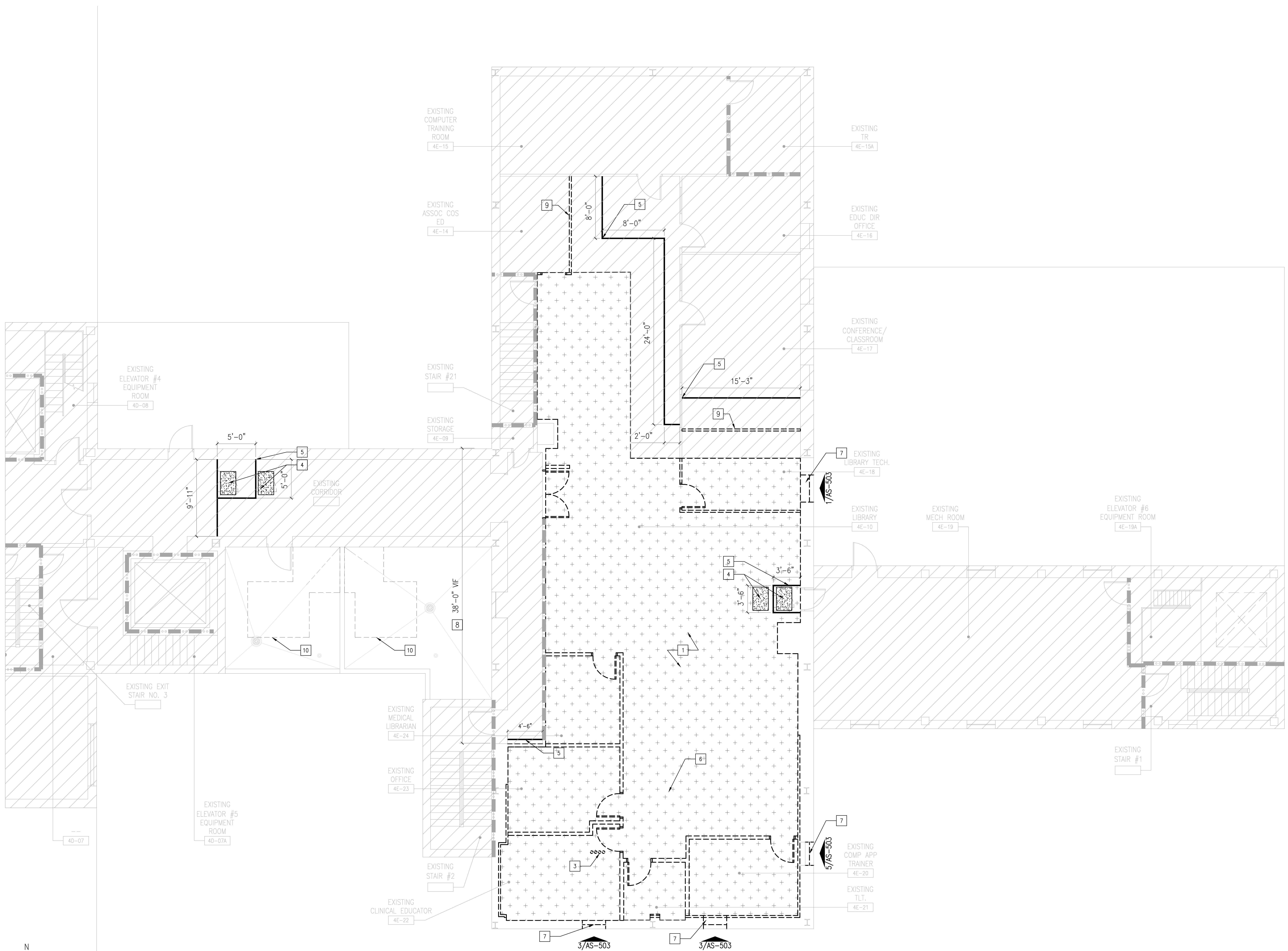
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)

X DEMOLITION PLAN KEY NOTES

1. DESIGN INTENT IS TO ONLY DEMOLISH EXISTING AREA AS REQUIRED TO CONSTRUCT THE MAIN COMPUTER ROOM AND SUPPORT FUNCTIONS. SEE DRAWING SHEET AS-B1-242 FOR DATA CENTER LAYOUT.
2. NOT USED.
3. CORES IN SLAB FOR ROUTING FIBER OPTIC CABLES TO THIRD FLOOR BELOW.
4. SUPPLY AND INSTALL WALK OFF MAT(S). SEE DETAILS ON SHEET GI-101.
5. INSTALL TEMPORARY INFECTION CONTROL PANEL SYSTEM WITH DOOR ENTRY. BASIS OF DESIGN IS EDGE GUARD OR VA APPROVED EQUAL. SEE ALSO GI-101.
6. REMOVE EXISTING EXPANSION JOINT ASSEMBLY. PREP SUBSTRATE FOR INSTALLATION OF NEW EXPANSION JOINT ASSEMBLY.
7. REMOVE WINDOW ASSEMBLY AND PREP FOR BRICK INFILL. SEE SHEET AS-503 FOR DETAILS.
8. FOR THE PARTITION NOTED: THE DESIGN INTENT IS FOR THE PARTITION TO BE A 1-HR RATED ASSEMBLY. CONTRACTOR SHALL INSPECT THE EXISTING ASSEMBLY AND AS NECESSARY INSTALL FIRE RATED SEALANT AT TOP AND BOTTOM AND AT ALL EXISTING PENETRATION. EXTEND GYPSUM BOARD AS NECESSARY TO SEAL TOP AND ENDS OF PARTITION TO ADJACENT CONSTRUCTION. USE TYPE 'X' FOR EXTENSIONS. CONTRACTOR TO INSPECT THE WALL FOR SAB. IF NONE EXISTS, CONTRACTOR TO INSTALL FULL HEIGHT AND WIDTH OF WALL.
9. THIS LOCATION – REMOVE PARTITION AS NECESSARY TO PREVENT A DEAD END CONDITION IN EXISTING ROOM TO REMAIN.
10. AREA OF NEW CONDENSERS AND STEP PLATFORM. REMOVE EXISTING ASSEMBLY AS REQUIRED TO ACCOMMODATE THE CONDENSERS AND PLATFORM SUPPORT. PREP ADJACENT ROOF ASSEMBLY TO RECEIVE PATCHING AS REQUIRED TO MAINTAIN ROOF WARRANTY.



1 ARCHITECTURAL - BUILDING 1 - FOURTH FLOOR DEMOLITION PLAN - DATA CENTER
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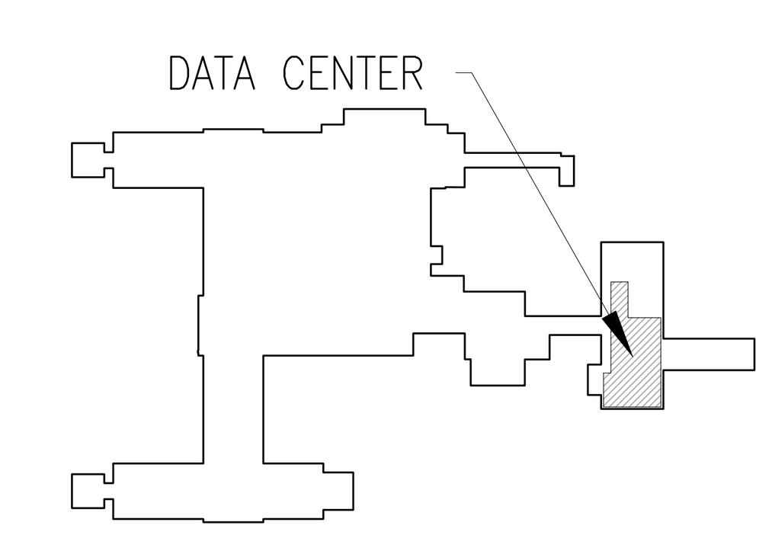

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ISSUE FOR BID - 01/16/2024

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VA U.S. Department of Veterans Affairs

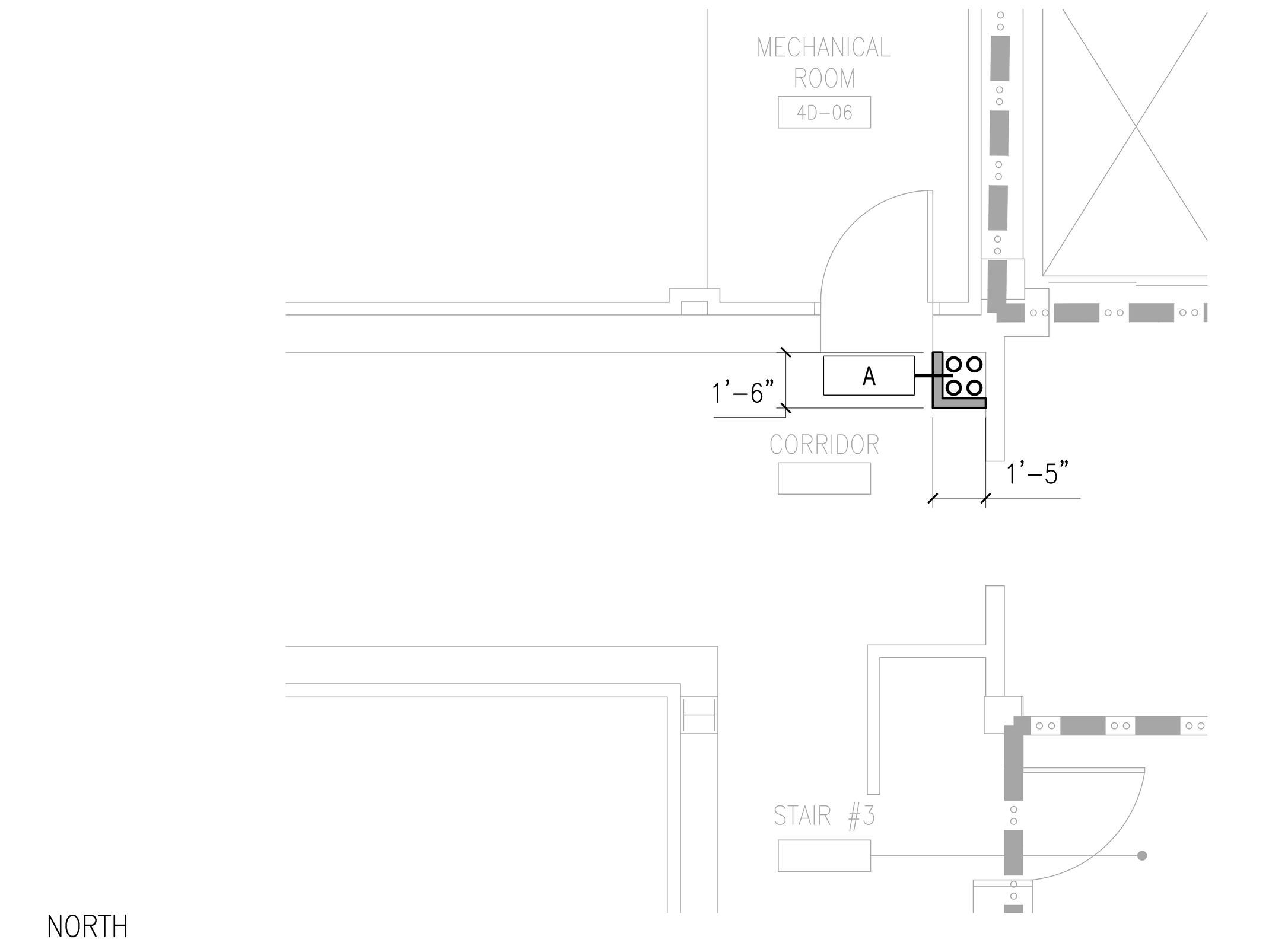
Drawing Title: ARCHITECTURAL - B1 - FOURTH FLOOR DEMOLITION PLAN - DATA CENTER
Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

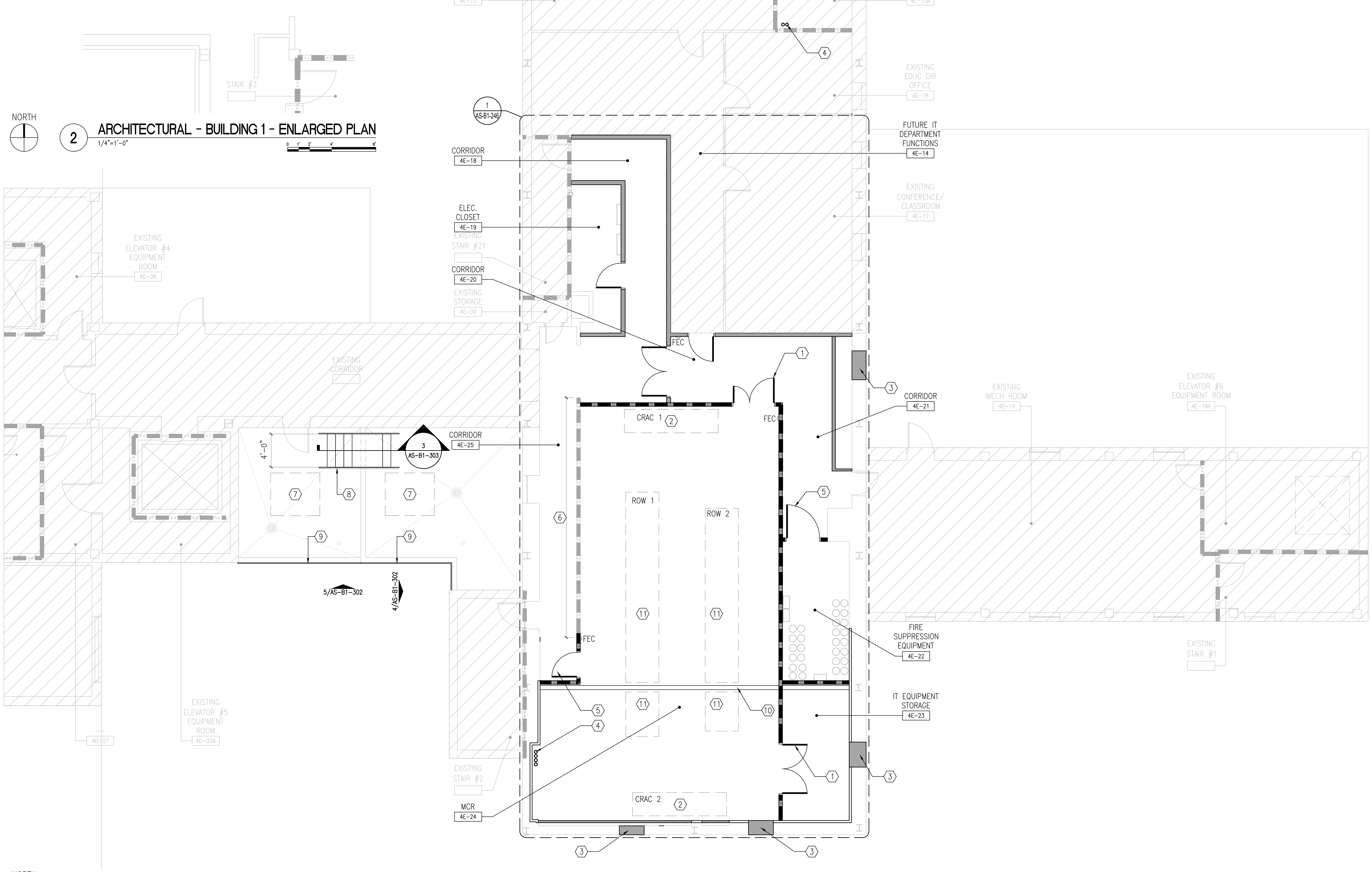
Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2
Project Number: 437-21-210
Building Number: 1
Location: FARGO VA HEALTH CARE SYSTEM
Drawing Number: AS-B1-241
Issue Date: 01/16/2024
Checked: DA
Drawn: JM

VA FORM 08 - 6231



2 ARCHITECTURAL - BUILDING 1 - ENLARGED PLAN

1/4"=1'-0"



1 ARCHITECTURAL - BUILDING 1 - FOURTH FLOOR PLAN - DATA CENTER

3/16"=1'-0"

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

FLOOR PLAN LEGEND

- EXISTING PARTITION WALL
- NEW PARTITION WALL
- EXISTING DOOR
- NEW DOOR
- AREA NOT INCLUDED IN CONTRACT
- FEC – FIRE EXTINGUISHER CABINET
- MATCHLINE
- XX – PARTITION TYPE
- SIGN TAG
- DOOR TAG

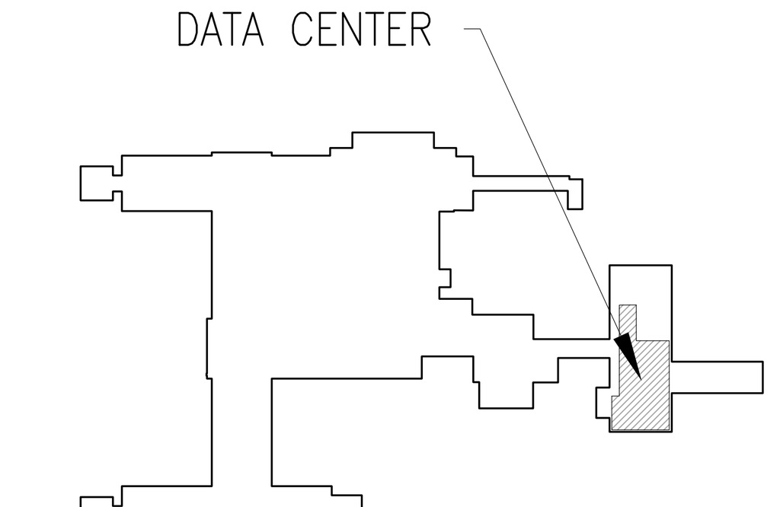
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

PLAN KEY NOTES

1. NEW DOOR PAIR WITH DUAL AUTHENTICATION SECURITY.
2. CRAC.
3. INFILL WINDOW OPENING WITH BRICK. SEE SHEET AS-503 FOR DETAILS.
4. NEW 4" CORES WITH RE-ENTERABLE FIRESTOP SLEEVE. COORDINATE LOCATION WITH FINAL PLACEMENT OF RACKS, SEE TELECOMMUNICATIONS DRAWINGS FOR FURTHER INFORMATION.
5. NEW DOOR WITH DUAL AUTHENTICATION SECURITY.
6. EXISTING CORRIDOR WALL TO REMAIN.
7. CONDENSERS FOR CRAC UNITS.
8. METAL STAIRS & HANDRAILS.
9. METAL GUARDRAILS, TYP.
10. NEW EXPANSION JOINT.
11. TELECOMMUNICATION RACKS AND CABINETS.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - B1 - FOURTH FLOOR PLAN - DATA CENTER
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1
Drawing Number	AS-B1-242

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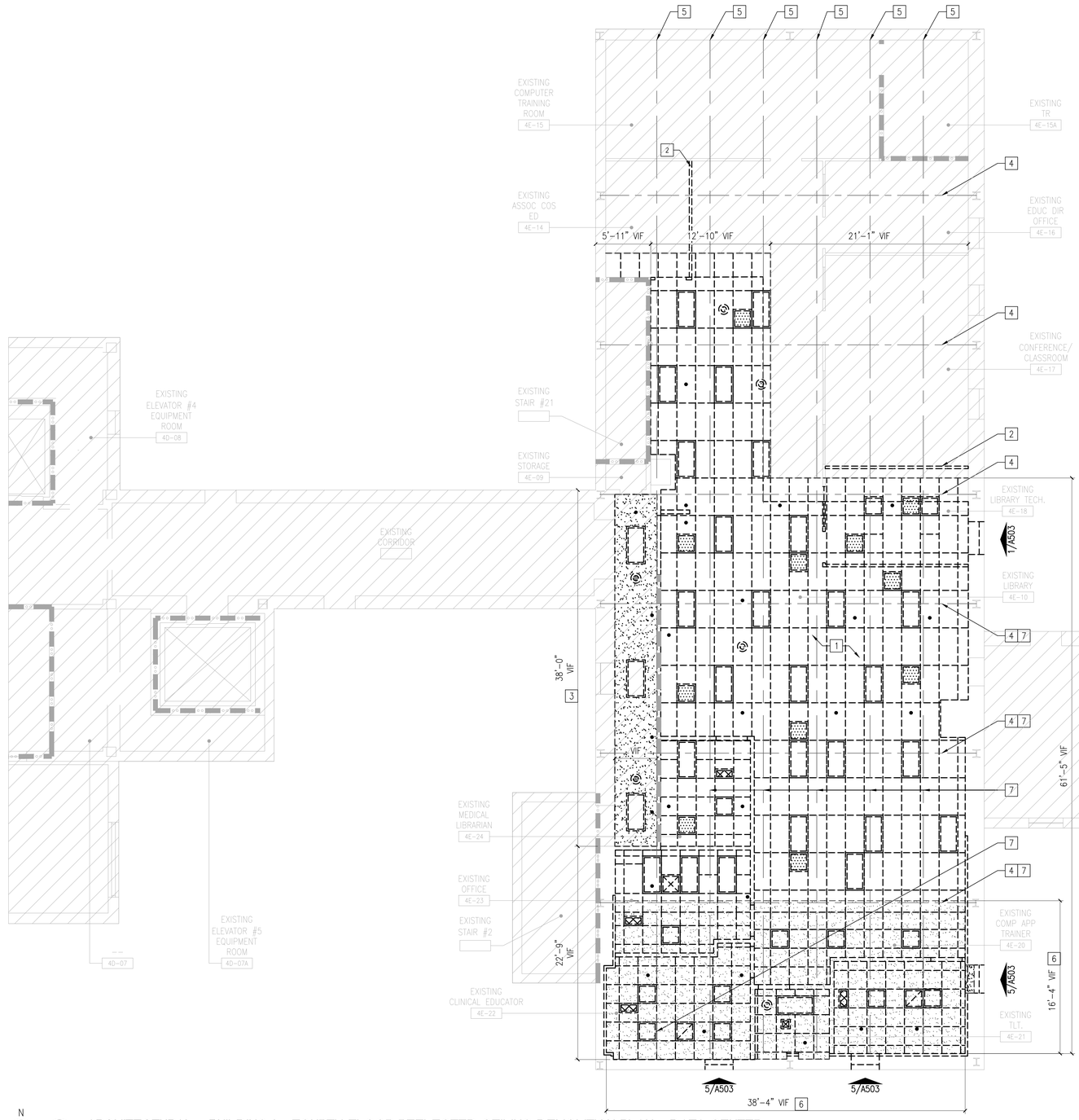


ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

CEILING DEMOLITION PLAN LEGEND

- SUSPENDED ACOUSTIC CEILING TILE, GRID AND HANGERS TO BE REMOVED
- 2' X 4' LIGHT FIXTURE TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.
- 2' X 2' LIGHT FIXTURE TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.
- COVERED DIFFUSER TO BE REMOVED. REFER TO MECHANICAL DRAWINGS.
- EXISTING PARTITION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
- EXTENT OF PLASTER CEILING ABOVE LAY-IN CEILING TO BE REMOVED.
- AREA NOT INCLUDED IN CONTRACT

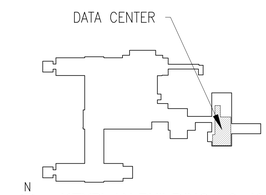
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

[X] DEMOLITION PLAN KEY NOTES

1. REMOVE EXISTING ACOUSTICAL CEILING IN ITS ENTIRETY. REMOVE ALL LIGHT FIXTURES AND CEILING DEVICES IN AREA OF CEILING DEMOLITION – SEE ALSO ELECTRICAL DRAWINGS. SEE MECHANICAL DRAWINGS FOR DEMOLITION OF/MODIFICATIONS TO THE MECHANICAL DUCTWORK AND SYSTEMS. ALL EXISTING SPRINKLER HEADS IN AREA OF WORK ARE TO BE REPLACED WITH WITH TURNED UP SPRINKLER HEADS DURING DEMOLITION. PREP REMAINING VERTICAL SURFACES TO RECEIVE NEW CEILINGS AND FINISHES AS SCHEDULED.
2. THIS LOCATION – REMOVE PARTITION AS NECESSARY TO PREVENT A DEAD END CONDITION IN EXISTING ROOM TO REMAIN.
3. FOR THE PARTITION NOTED: THE DESIGN INTENT IS FOR THE PARTITION TO BE A 1-HR RATED ASSEMBLY. CONTRACTOR SHALL INSPECT THE EXISTING ASSEMBLY AND AS NECESSARY INSTALL FIRE RATED SEALANT AT TOP AND BOTTOM AND AT ALL EXISTING PENETRATION. EXTEND GYPSUM BOARD AS NECESSARY TO SEAL TOP AND ENDS OF PARTITION TO ADJACENT CONSTRUCTION. USE TYPE 'X' FOR EXTENSIONS. CONTRACTOR TO INSPECT THE WALL FOR SAB, IF NONE EXISTS, CONTRACTOR TO INSTALL FULL HEIGHT AND WIDTH OF WALL.
4. EXISTING TRUSS.
5. EXISTING CROSS FRAMING.
6. REMOVE FULL EXTENT OF PLASTER CEILING ASSEMBLY INCLUDING FRAMING SUPPORTS IN IT'S ETERNITY.
7. REMOVE EXISTING SPRAY ON FIREPROOFING FROM ROOF TRUSSES AND CROSS FRAMING WITHIN THE PERIMETER OF THE NEW MAIN COMPUTER ROOM 4E-24. SEE ALSO AS-B1-305 FOR FURTHER CLARIFICATION OF EXTENT.



KEYPLAN BUILDING 1-9-46
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1 ARCHITECTURAL - BUILDING 1 - FOURTH FLOOR REFLECTED CEILING DEMOLITION PLAN - DATA CENTER
3/16"=1'-0"

0 2' 4' 8' 12'

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

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Bancroft Project No: 22-113

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LICENSED ARCHITECT CROTAN D. ZAKARIA 001-006355 STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - B1 - FOURTH FLOOR DEMO CEILING PLAN -DATA CENTER

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024 | Checked: DA | Drawn: JM

Project Number: 437-21-210

Building Number: 1

Drawing Number: AS-B1-243

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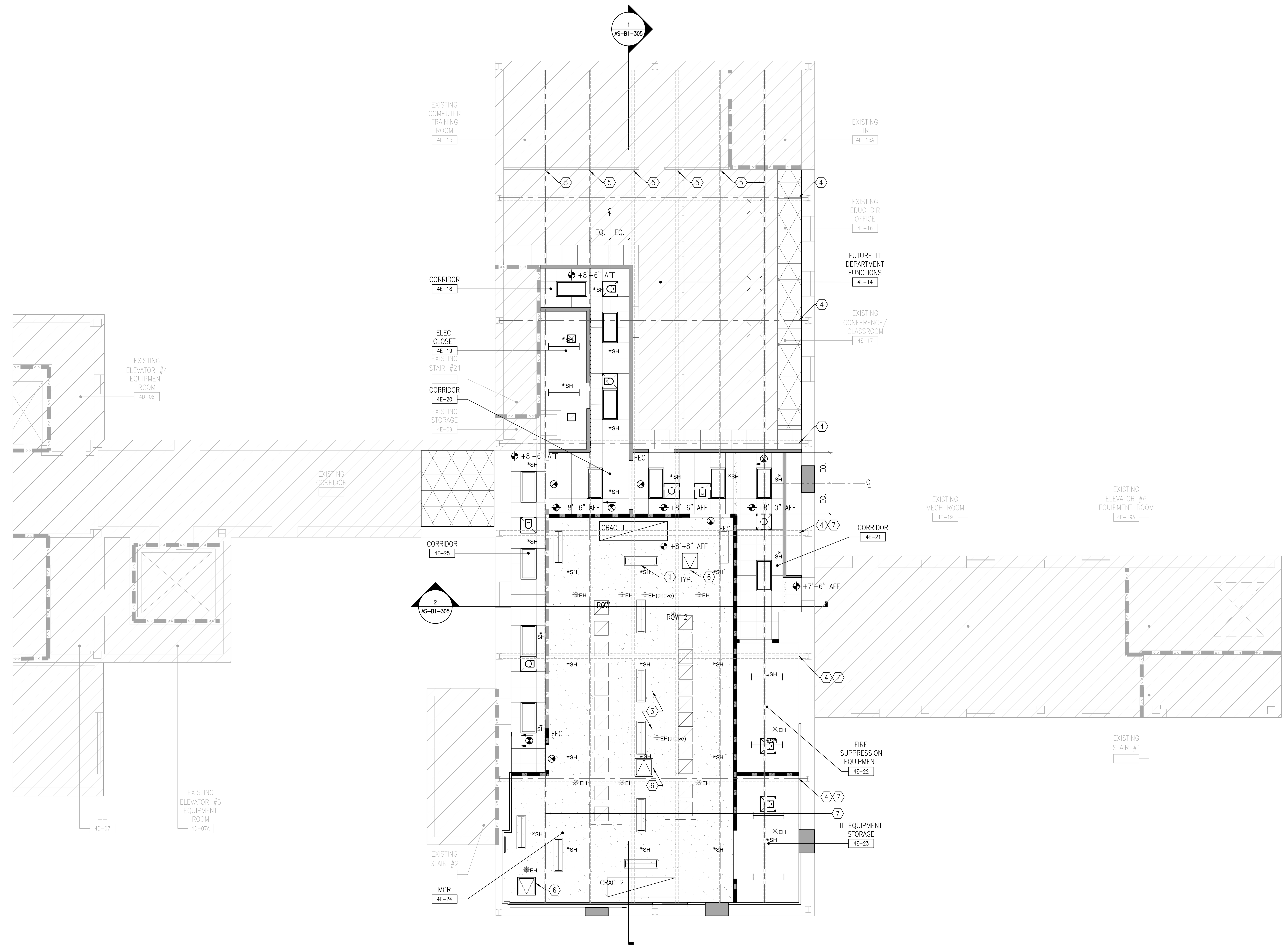


1 **ARCHITECTURAL - BUILDING 1 - FOURTH FLOOR REFLECTED CEILING PLAN - DATA CENTER**

3/16"=1'-0"

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

C. UNLESS NOTED OTHERWISE CEILING GRIDS AND LIGHT FIXTURES TO BE CENTERED WITHIN ROOMS OR CORRIDORS AND ALIGNED.

D. SEE ALSO AS-B1-305 FOR DESIGN INTENT POSITIONING OF GYPSUM BOARD CEILING, LIGHT FIXTURES AND CABLE TRAYS.

RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)

REFLECTED CEILING PLAN LEGEND

2' X 2' SUSPENDED ACOUSTIC CEILING TILE	RETURN REGISTER REFER TO MECHANICAL DRAWINGS.
2' X 4' LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.	SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS.
GYPSUM BOARD CEILING SYSTEM	4' PENDENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
AREA NOT INCLUDED IN CONTRACT	4' SURFACE MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
EH ENERGEN HEAD	EXIT SIGNS REFER TO ELECTRICAL DRAWINGS
SH SPRINKLER HEAD	
EXISTING TRUSSES AND CROSS FRAMING ABOVE	

(X) REFLECTED CEILING PLAN KEY NOTES

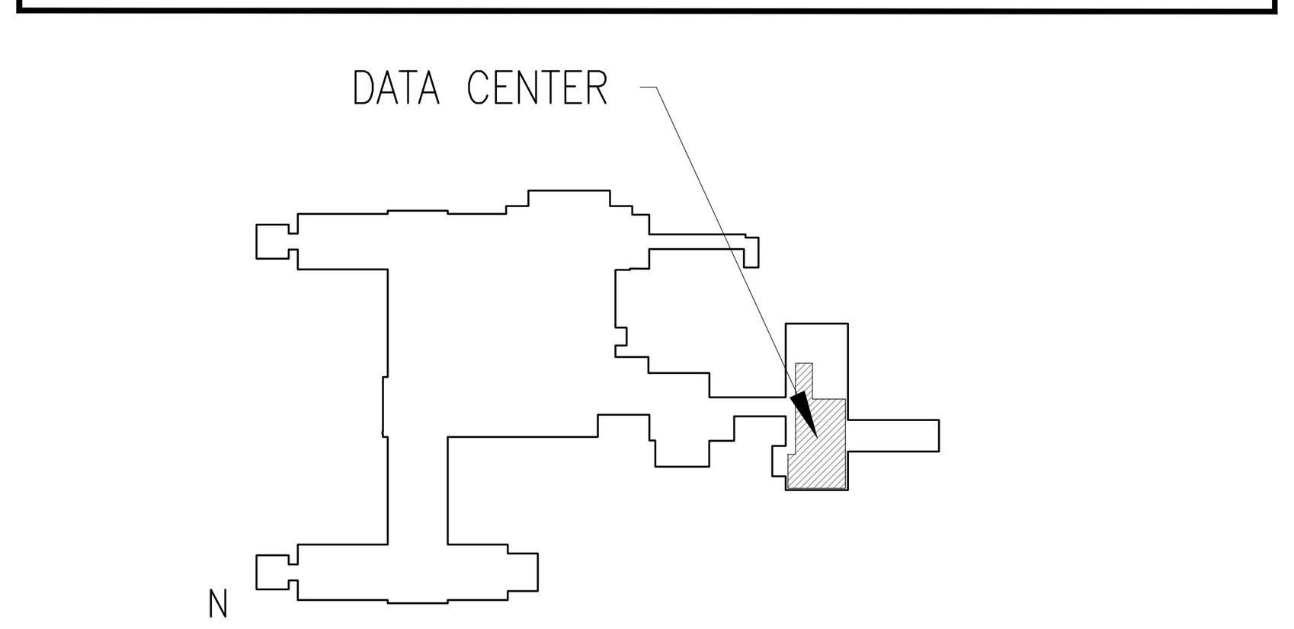
1. DESIGN INTENT IS FOR PENDANT FIXTURES TO BE ALIGNED WITH EACH OTHER AND CENTERED IN AISLES BETWEEN ROWS OF EQUIPMENT. COORDINATE WITH FINAL EQUIPMENT PLACEMENT. SEE ALSO THE MECHANICAL AND TECHNOLOGY DRAWINGS.
2. INSTALL GYPSUM BOARD CEILING ASSEMBLY TO BE FLUSH WITH EXISTING. PAINT FULL EXTENT OF CORRIDOR 4E-25 CEILING.
3. GYPSUM BOARD CEILING ASSEMBLY. BOTTOM OF CEILING SET AT 8'-8" AFF. CONTRACTOR TO PLACE CONTROL JOINT EVERY AT A MINIMUM 30'-0" UNLESS OTHERWISE NOTED. CEILING ASSEMBLY TO BE USG DRYWALL SUSPENDEND CEILING SYSTEM OR VA APPROVED EQUAL.
4. EXISTING TRUSS.
5. EXISTING CROSS FRAMING.
6. INSTALL 2'-0" X 2'-0" ACCESS HATCH. SEE DETAIL 2/AS-502 FOR INSTALLATION DETAILS.
7. INSTALL INTUMESCENT COATING ON ROOF TRUSSES AND CROSS FRAMING MEMBERS WITHIN THE PERIMETER OF THE NEW MAIN COMPUTER ROOM 4E-24. SEE ALSO AS-B1-305 FOR FURTHER CLARIFICATION OF INTENT.

CEILING TEMPORARY DEMOLITION LEGEND

[1] KEYNOTE 1

[X] CEILING TEMP DEMOLITION KEY NOTES

1. REMOVE AND STORE CEILING TILES IN THIS AREA AS REQUIRED FOR ELECTRICAL CONDUIT, TECHNOLOGY EQUIPMENT AND/OR SECURITY INSTALLATION. REINSTALL TILES AND GRID WHEN WORK IS COMPLETED. REPLACE ANY DAMAGED TILES AND GRIDS TO MATCH EXISTING. G.C. SHALL TEMPORARILY ERECT INFECTION CONTROL PANELS TO SEAL OFF AROUND AREA OF CEILING WORK TO BE PERFORMED DURING ONE SHIFT AND G.C. SHALL REMOVE PANELS AT THE END OF SHIFT. G.C. SHALL MOP CLEAN THIS AREA OF WORK. PRIOR TO TURNING OVER AREA TO VA. AFTER WORK HOURS WILL REQUIRE ADDITIONAL COORDINATION WITH THE VA.



KEYPLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
Revisions:	Date:

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Bancroft Project No: 22-113

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - B1 - FOURTH FLOOR CEILING PLAN - DATA CENTER
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1
Drawing Number	AS-B1-244

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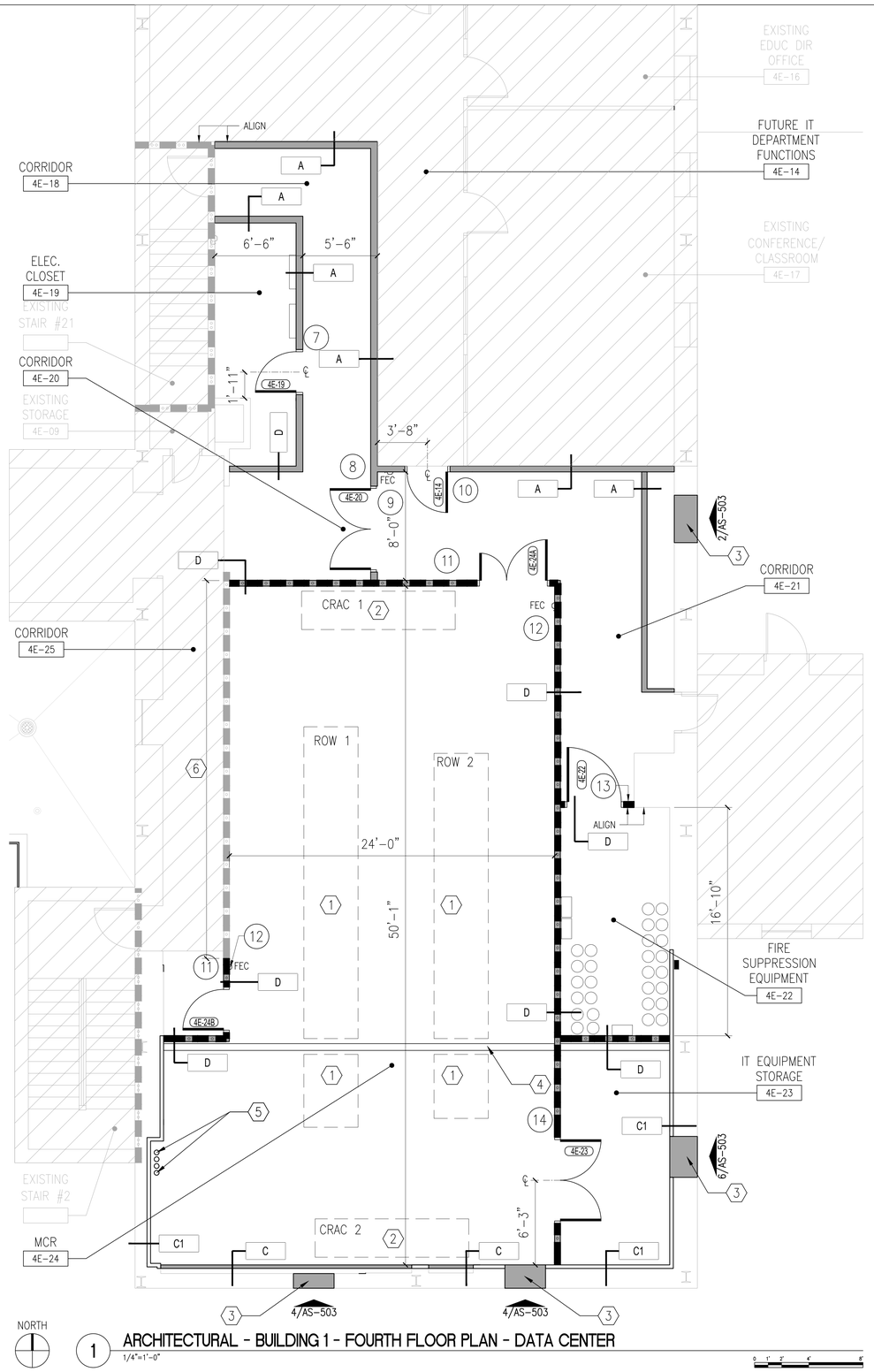


1 ARCHITECTURAL - BUILDING 1 - FOURTH FLOOR PLAN - DATA CENTER
1/4"=1'-0"

ARCHITECTURAL GENERAL NOTES

A. VERIFY IN FIELD ALL EXISTING CONDITIONS ILLUSTRATED ON THESE DRAWINGS. CONSTRUCTION DRAWINGS HAVE BEEN DEVELOPED REFERENCING AS-BUILT DRAWINGS PROVIDED BY THE VA AND LIMITED FIELD VERIFICATION CONDUCTED THROUGH VISUAL INVESTIGATION. NO SELECTIVE DEMOLITION OR EXPLORATORY INVESTIGATION WERE ABLE TO BE PERFORMED. THIS RESULTED IN LIMITED ACCESS TO HIDDEN AREAS AND THEIR CONDITIONS DURING SITE INVESTIGATION. ALL DIMENSIONS, EXISTING CONSTRUCTION COMPONENTS, AND EXISTING STRUCTURAL MEMBERS MUST BE VERIFIED IN FIELD.

B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

C. FOR SIGN TYPES – SEE SIGNAGE SCHEDULE ON AS-621.

FLOOR PLAN LEGEND

- EXISTING PARTITION WALL
- NEW PARTITION WALL
- EXISTING DOOR
- NEW DOOR
- AREA NOT INCLUDED IN CONTRACT
- FEC — FIRE EXTINGUISHER CABINET
- MATCHLINE
- XX — PARTITION TYPE
- X — SIGN TAG
- XXXXX — DOOR TAG

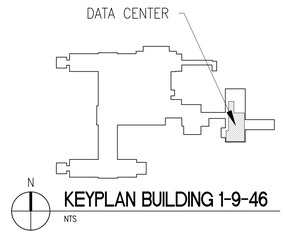
RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 1 HR FIRE BARRIER (EXISTING)
- 2 HR FIRE BARRIER
- 2 HR FIRE BARRIER (EXISTING)
- SMOKE BARRIER
- SMOKE BARRIER (EXISTING)

PLAN KEY NOTES

1. TELECOMMUNICATIONS RACKS AND CABINETS.
2. CRAC.
3. INFILL WINDOW OPENING WITH BRICK. SEE SHEET AS-503 FOR DETAILS.
4. NEW FLOOR EXPANSION JOINT.
5. NEW 4" CORES WITH RE-ENTERABLE FIRESTOP SLEEVE. COORDINATE LOCATION WITH FINAL PLACEMENT OF RACKS, SEE TELECOMMUNICATIONS DRAWINGS FOR FURTHER INFORMATION.
6. FOR THE PARTITION NOTED: THE DESIGN INTENT IS FOR THE PARTITION TO BE A 1-HR RATED ASSEMBLY. CONTRACTOR SHALL INSPECT THE EXISTING ASSEMBLY AND AS NECESSARY INSTALL FIRE RATED SEALANT AT TOP AND BOTTOM AND AT ALL EXISTING PENETRATIONS. EXTEND GYPSUM BOARD AS NECESSARY TO SEAL TOP AND ENDS OF PARTITION TO ADJACENT CONSTRUCTION. USE TYPE 'X' FOR EXTENSIONS. CONTRACTOR TO INSPECT THE WALL FOR SOUND ATTENUATION BATT INSULATION. IF NONE EXISTS, CONTRACTOR TO INSTALL FULL HEIGHT AND WIDTH OF WALL.



KEYPLAN BUILDING 1-9-46
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ISSUE FOR BID	01-16-24
Revisions:	Date:

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LICENSED ARCHITECT CROTAN D. ZAKARIA 001-026355 STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - B1 - ENLARGED FOURTH FLOOR PLAN
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1
Drawing Number	AS-B1-246

ISSUE FOR BID - 01/16/2024

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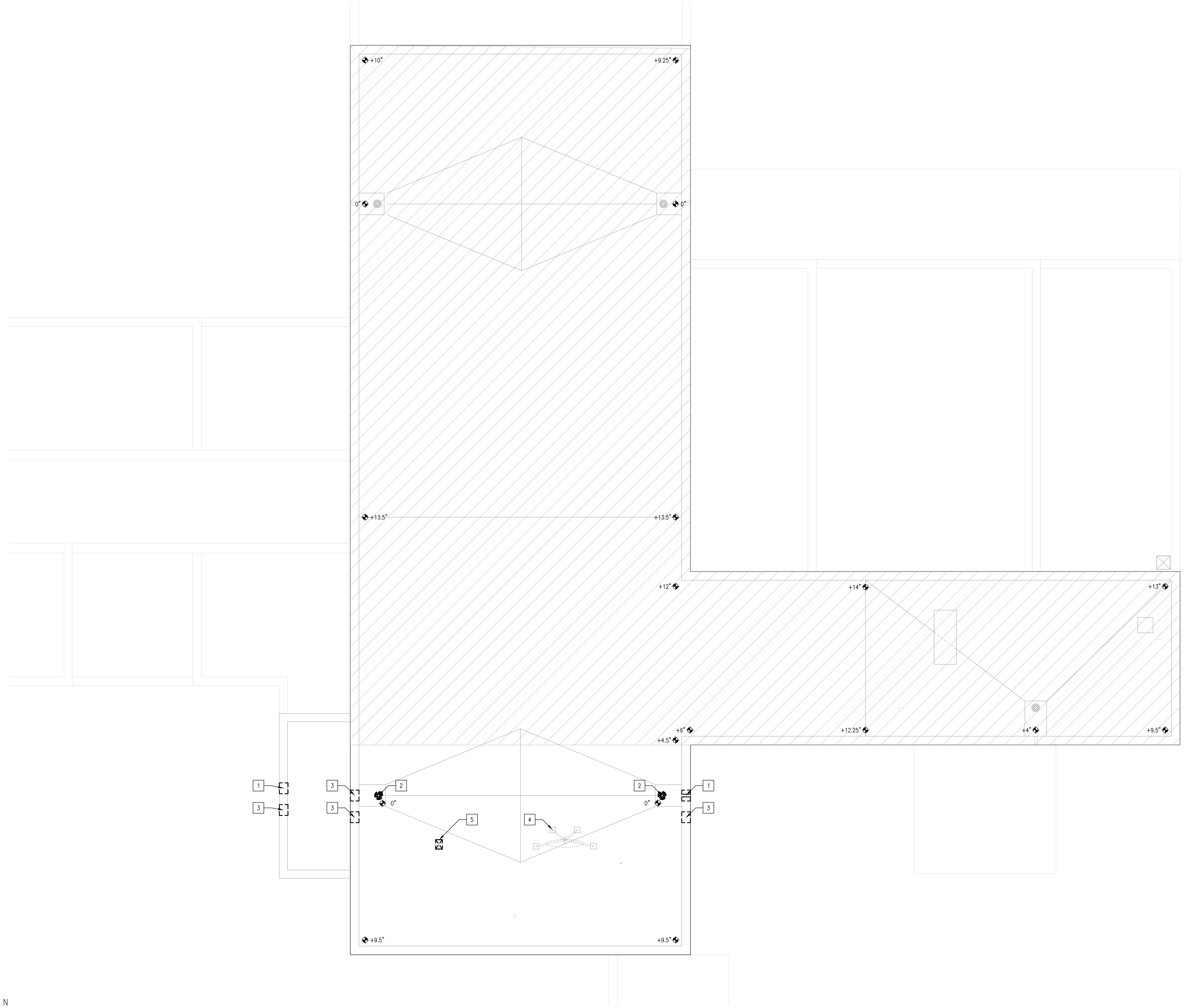

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B. IF A RATED ASSEMBLY IS NOT INSTALLED BY END OF SHIFT IT MUST BE PROTECTED BETWEEN SHIFTS.

C. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING PLUMBING, DRAWINGS FOR FULL SCOPE OF WORK.

D. DURING COURSE OF ROOFING WORK, CONTRACTOR TO MAINTAIN WATER-TIGHT WATERPROOFING BARRIER AT THE COMPLETION OF EACH WORK SHIFT.

X PLAN KEY NOTES

1. EXISTING SCUPPER OPENING TO BE LOWERED TO LEVEL OF EXISTING DRAIN PAN.
2. REMOVE EXISTING ROOF DRAIN ASSEMBLY IN ITS ENTIRETY. PREP ROOF SUBSTRATE FOR PATCHING ROOF ASSEMBLY.
3. REMOVE MASONRY AT PARAPET WALL AS REQUIRED TO INSTALL NEW THRU-WALL SCUPPER.
4. EXISTING SATELLITE DASH, PROTECT DURING DEMOLITION.
5. REMOVE EXISTING DUCT AND VIR. PATCH ROOFING ASSEMBLY TO MATCH EXISTING ADJACENT. INSTALLATION SHALL MEET MANUFACTURER'S INSTRUCTIONS AND SHALL BE AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY.

DEMOLITION PLAN LEGEND

AREA NOT INCLUDED IN CONTRACT

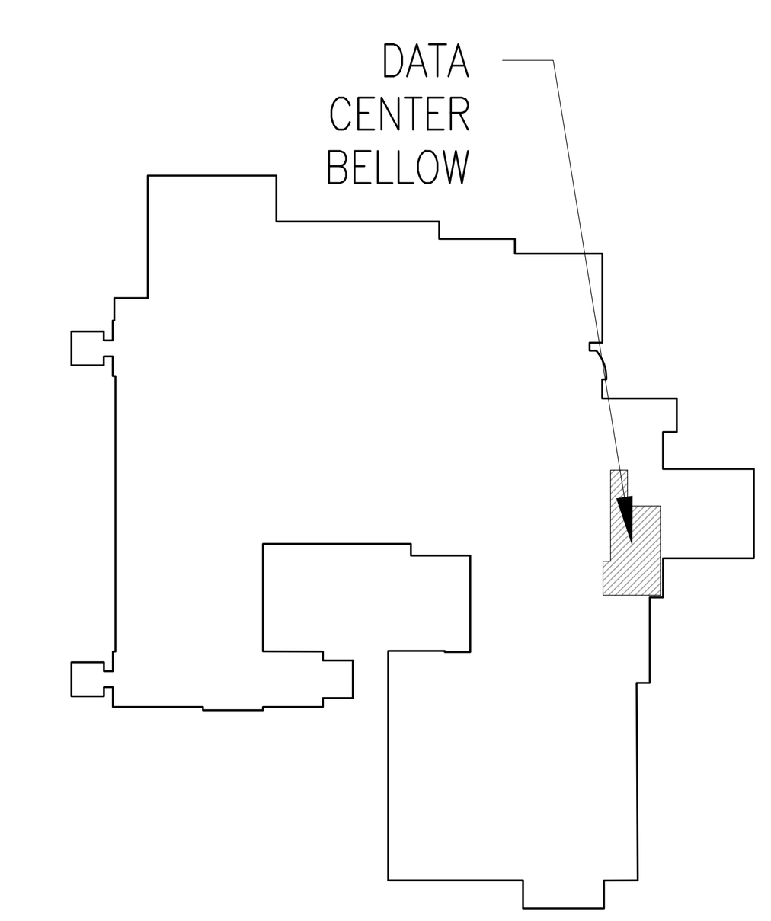
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER — 1 HR FIRE BARRIER (EXISTING)

2 HR FIRE BARRIER — 2 HR FIRE BARRIER (EXISTING)

SMOKE BARRIER — SMOKE BARRIER (EXISTING)



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1 ARCHITECTURAL - BUILDING 1 - DEMOLITION ROOF PLAN - DATA CENTER

3/16"=1'-0"

N

KEY PLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
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Drawing Title: ARCHITECTURAL - B1 - DEMOLITION ROOF PLAN - DATA CENTER

Approved: Project Director

Phase: ISSUE FOR BID

BUILDING FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2

Project Number: 437-21-210

Building Number: 1

Location: FARGO VA HEALTH CARE SYSTEM

Issue Date: 01/16/2024

Checked: DA

Drawn: JM

Drawing Number: AS-B1-251

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RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER	1 HR FIRE BARRIER (EXISTING)
2 HR FIRE BARRIER	2 HR FIRE BARRIER (EXISTING)
SMOKE BARRIER	SMOKE BARRIER (EXISTING)

ARCHITECTURAL GENERAL NOTES

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C. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING PLUMBING DRAWINGS FOR FULL SCOPE OF WORK.

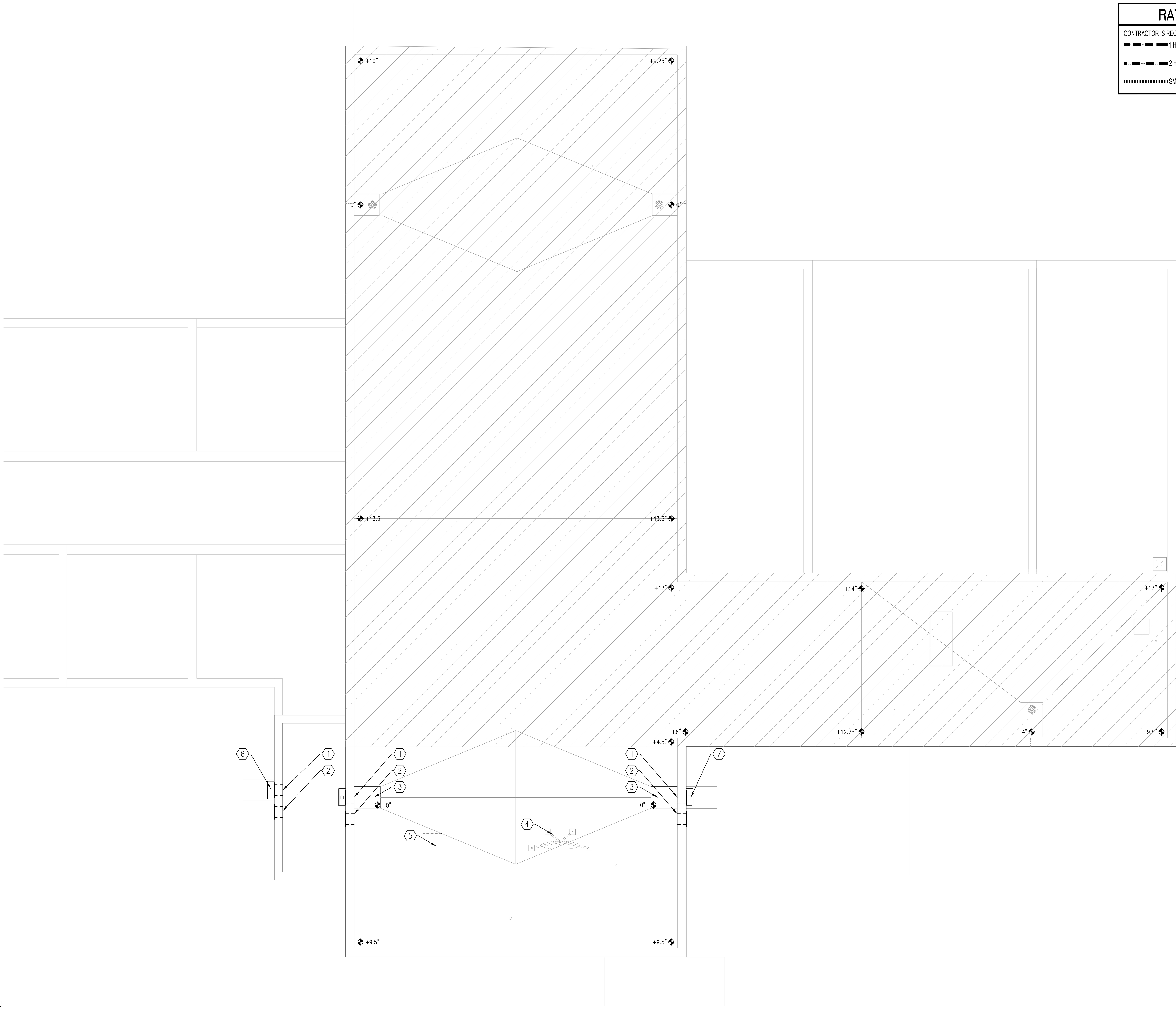
D. DURING COURSE OF ROOFING WORK, CONTRACTOR TO MAINTAIN WATER-TIGHT WATERPROOFING BARRIER AT THE COMPLETION OF EACH WORK SHIFT.

(X) PLAN KEY NOTES

1. PROVIDE AND INSTALL THRU WALL SCUPPER ASSEMBLY, CONDUCTOR HEAD AND OPEN-FACED DOWNSPOUT. EXTEND DOWNSPOUT TO ROOF SURFACE OR TO GRADE BELLOW. PROVIDE AND INSTALL CONCRETE SPLASH PAN AT BASE OF DOWNSPOUT.
2. PROVIDE AND INSTALL THRU WALL OVERFLOW SCUPPER ASSEMBLY.
3. PATCH ROOF ASSEMBLY TO MATCH EXISTING. EDPM PATCHING SHALL BE PERFORMED PER MANUFACTURER'S INSTRUCTIONS AND AS REQUIRED TO MAINTAIN WARRANTY OF EXISTING ROOF SYSTEM.
4. EXISTING SATELLITE DASH, PROTECT DURING DEMOLITION.
5. PATCH ROOFING ASSEMBLY TO MATCH EXISTING ADJACENT. INSTALLATION SHALL MEET MANUFACTURER'S INSTRUCTIONS AND SHALL BE AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY.
6. 36" OF VERTICAL DOWNSPOUT VERIFY IN FIELD.
7. 59" OF VERTICAL DOWNSPOUT VERIFY IN FIELD.

PLAN LEGEND

AREA NOT INCLUDED IN CONTRACT



1 ARCHITECTURAL - BUILDING 1 - ROOF PLAN - DATA CENTER

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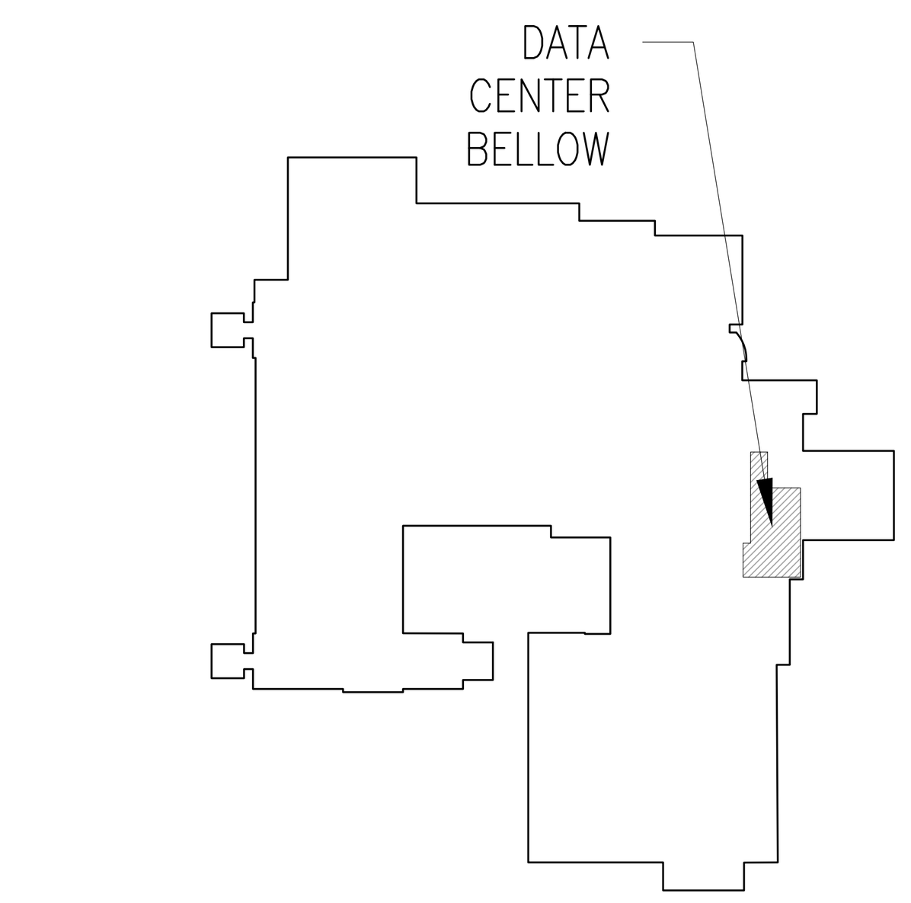

KEY PLAN BUILDING 1-9-46

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ISSUE FOR BID - 01/16/2024

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Office of Construction and Facilities Management

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Drawing Title	ARCHITECTURAL - B1 - ROOF PLAN - DATA CENTER
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	DA
Drawn	JM
Project Number	437-21-210
Building Number	1
Drawing Number	AS-B1-252

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