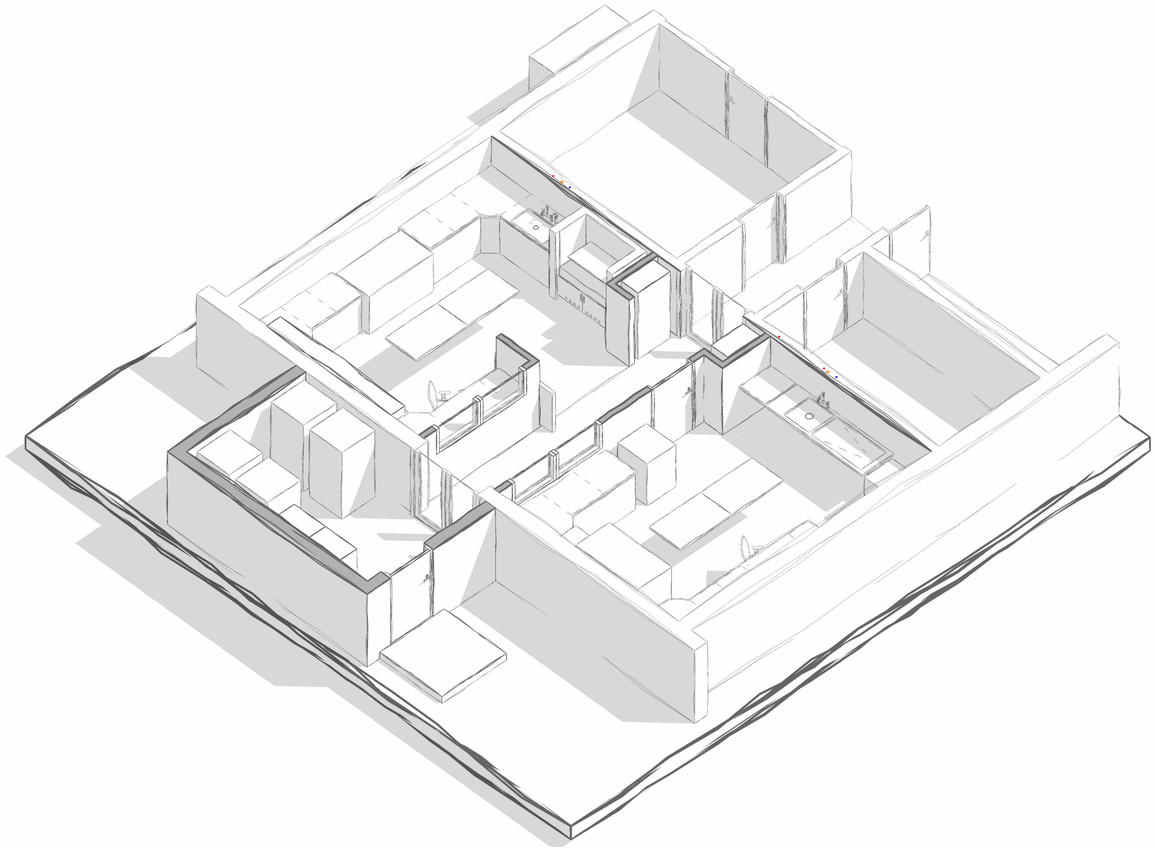
NCCOS COOPERATIVE LABORATORY LABORATORY RENOVATION PROJECT

LABORATORY RENOVATION PROJECT

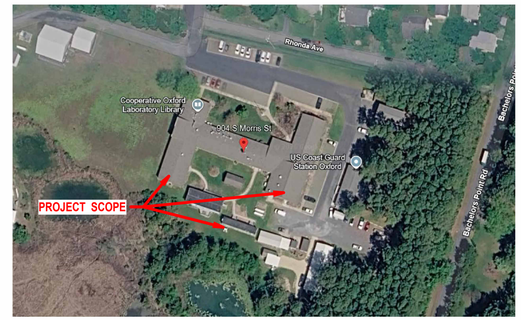


BSL 2 LAB - OXFORD, MARYLAND

05/08/2026

LIST OF SHEETS

SHEET NO. NO.	SHEET	SHEET TITLE
GENERAL		
1	G001	COVER SHEET
2	G101	NEW WORK
CIVIL		
3	C101	SITE PLAN - EXISTING
ARCHITECTURE		
4	A100	PARTIAL FIRST FLOOR PLAN DEMOLITION
5	A101	NEW WORK
6	A102	PARTIAL RCP
7	A201	NEW WORK-VESTIBULE
8	A301	EQUIPMENT PLAN - NEW WORK
9	A302	LABORATORY CASEWORK ELEVATIONS
10	A401	LABORATORY FIXTURES CUT SHEETS
11	A601	SCHEDULES
MECHANICAL		
12	M100.	COVER SHEET
13	M101	LAB MECHANICAL DEMO PLAN
14	M102	LAB MECHANICAL NEW WORK PLAN
15	M103	CONFERENCE ROOM MECHANICAL DEMO PLAN
16	M104	CONFERENCE ROOM MECHANICAL NEW WORK PLAN
PLUMBING		
17	PL101	LAB SANITARY DEMO PLAN
18	PL102	LAB SANITARY NEW PLAN
19	PL103	LAB DOMESTIC WATER DEMO PLAN
20	PL104	LAB DOMESTIC WATER NEW PLAN
ELECTRICAL		
21	ED101	PARTIAL LIGHTING PLAN DEMOLITION
22	EL101	PARTIAL LIGHTING PLAN NEW WORK
23	EP101	POWER/DATA PLAN NEW WORK
ARCHITECTURE		
24	A901	ISOMETRICS VIEWS
25	A902	PHOTOGRAPHS



NORTH

2 **LOCATION MAP.**

SCALE: NOT TO SCALE

NORTH

3 **VICINITY MAP**

SCALE: NOT TO SCALE

BUILDING CODE:

ACCESSIBILITY CODE:

AMERICANS WITH DISABILITIES ACT (ADA)

MECHANICAL CODE:

INTERNATIONAL MECHANICAL CODE (IMC)

ELECTRICAL CODE:

NFPA 70, NATIONAL ELECTRIC CODE

PLUMBING CODE:

INTERNATIONAL PLUMBING CODE (IPC)

FIRE PREVENTION & LIFE SAFETY CODE:

NFPA 101, LIFE SAFETY CODE

GENERAL NOTES

1. WHERE EXISTING CONSTRUCTION IS DAMAGED BY CONSTRUCTION REQUIRED BY THESE DOCUMENTS. REPAIR THE DAMAGED ITEM(S) WITH MATERIALS TO MATCH THE ADJACENT MATERIAL, TEXTURE AND COLOR.
2. FIELD VERIFY EXISTING DIMENSIONS, PRIOR TO ORDERING MATERIALS OR BEGINNING
3. ALL ITEMS NOT SHOWING AS "EXISTING" MUST BE PROVIDED AND INSTALLED UNDER THE REQUIREMENTS OF THIS CONTRACT.
4. COORDINATE LAY DOWN AREA WITH THE CONTRACTING OFFICER PRIOR TO THE PRE-CONSTRUCTION MEETING. THE ALLOWABLE AREA SIZE MUST BE ESTABLISHED BY THE CONTRACTING OFFICER.
5. MANUFACTURER'S TRADE NAMES LISTED ARE NOT INTENDED TO BE PROPRIETARY. PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE PROVIDED THEY MATCH THE COLOR, FINISHES, TEXTURES AND PATTERNS OF THE MANUFACTURER LISTED, AND MEET THE TECHNICAL REQUIREMENTS OF THE SPECIFICATIONS.
6. OBSERVE AND MAINTAIN BUILDING AND COMPOUND SECURITY REQUIREMENTS AS DIRECTED BY THE CONTRACTING OFFICER.
7. CONSTRUCTION WILL BE ACCOMPLISHED IN AND AROUND AREAS WHICH WILL REMAIN OPERATIONAL. AVOID INTERFERENCE WITH THE OPERATIONAL WORK ROUTINE.
8. ALL SUBMITTALS REQUIRED BY THESE DRAWINGS OR SPECIFICATIONS MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL TO COMMENCEMENT OF RELATED WORK.

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH. MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459 NOS
DRAWN BY:	GW
CHECKED BY:	JB
SCALE:	As indicated
ISSUE DATE:	

SOLICITATION:	DATE:

DRAWING TITLE:

COVER SHEET

G001

5/8/2026 4:51:34 PM Autodesk Docs://21CNAAJ0027 - NOS Oxford MD BSL 2/21CNAAJ0027 - NOS Oxford MD BSL 2.rvt

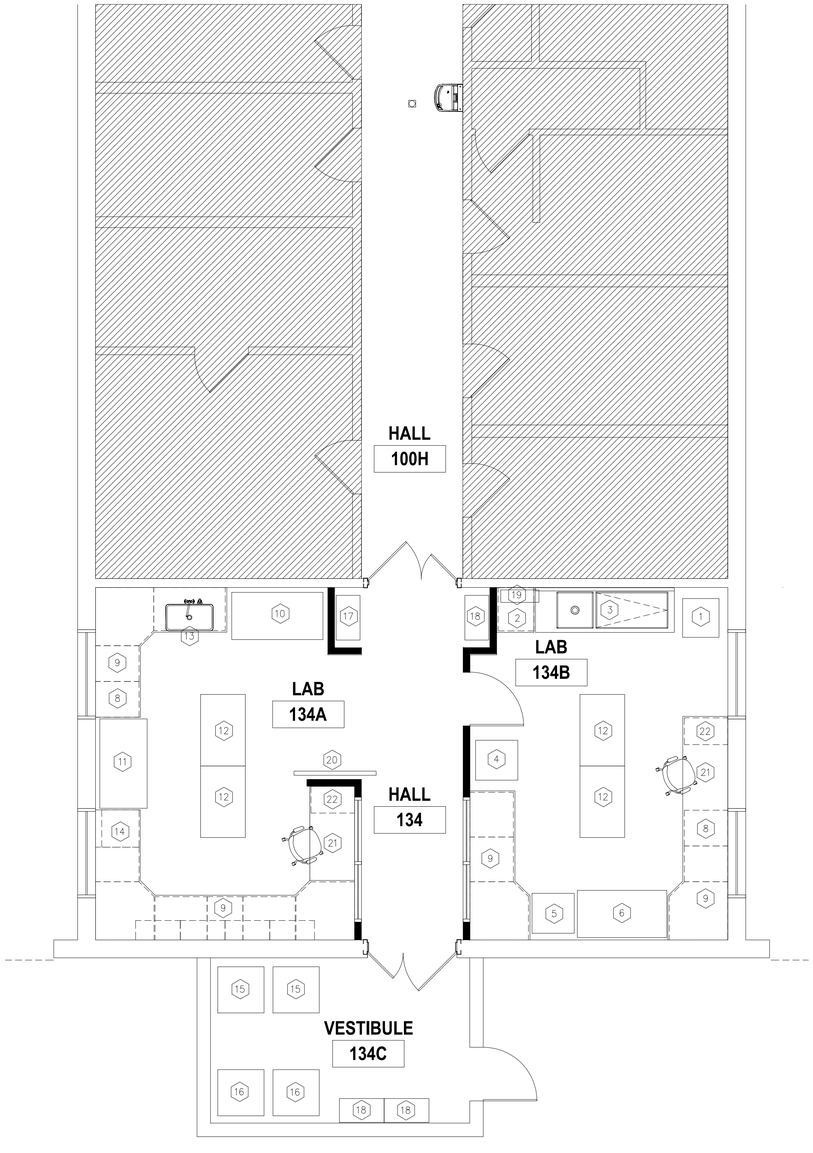
1. AUTOCLAVE (BY OWNER)
2. DISHWASHER (OWNER PROVIDED CONTRACTOR INSTALLED)
3. SCULLERY SINK, STAINLESS STEEL, WITH DRAINBOARD AND BACKSPLASH
4. INCUBATOR (BY OWNER)
5. INCUBATORS, STACKED (BY OWNER)
6. BIO SAFETY CABINET (BY OWNER)
7. NOT USED
8. FLAMMABLE STORAGE CABINET, UNDER COUNTER
9. METAL LAB CASEWORK, AS SCHEDULED, WITH EPOXY RESIN COUNTERTOPS AND SPLASHES
10. FUME HOOD (BY OWNER)
11. PCR HOOD (BY OWNER)
12. 30"X48" "SMITHSONIAN TABLE" WITH ADJUSTABLE SHELVING AND BASE CABINET
13. UNDERMOUNT EPOXY RESIN SINK
14. UNDER COUNTER FREEZER (BY OWNER)
15. FREEZER UNIT (BY OWNER)
16. REFRIGERATOR UNIT (BY OWNER)
17. STORAGE CABINET (BY OWNER)
18. 30"X84" STORAGE CABINET
19. 24" SHELF, BRACKETS, AND STANDARDS FOR OWNER'S DI SYSTEM
20. MONITOR (BY OWNER)
21. SIT-DOWN WORKSURFACE. TOP OF COUNTER AT 30" AFF.
22. 29" HIGH STORAGE CABINET WITH PULL-OUT BREAD BOARD.

EQUIPMENT LIST NOTES:
1. ALL EQUIPMENT PROCURED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE, OR DESIGNATED AS "BY OWNER."

EQUIPMENT LIST	3
	N.T.S.

DRAWING LEGEND:

AREA NOT IN SCOPE



EQUIPMENT PLAN - NEW WORK	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

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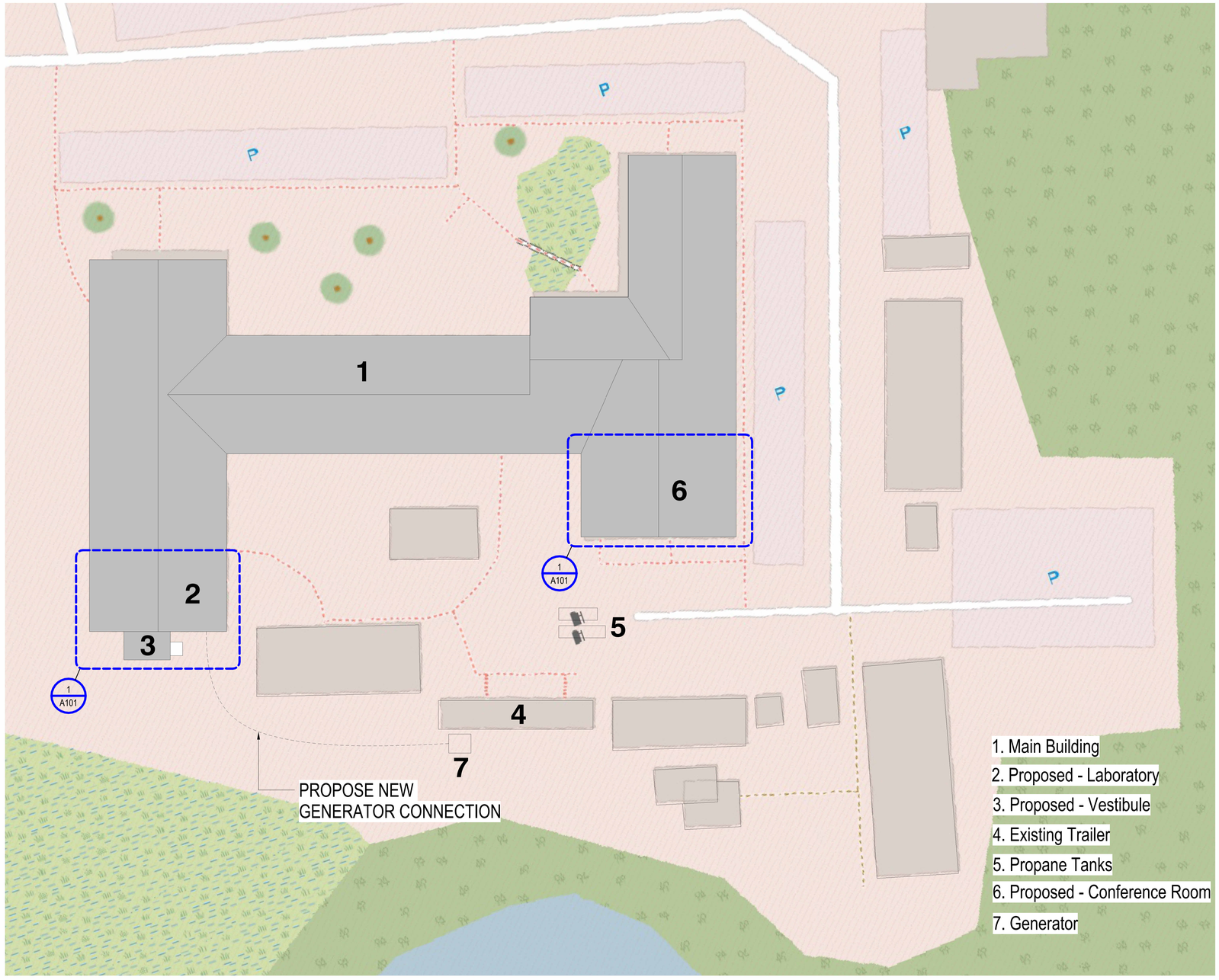
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
EQUIPMENT PLAN
NEW WORK

G-101

GENERAL NOTES

1. THE SITE PLAN IS DIAGRAMMATIC AND INTENDED TO ILLUSTRATE THE GENERAL EXTENT OF THE PROPOSED WORK.
2. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
3. EXISTING UNDERGROUND UTILITIES MAY BE PRESENT WITHIN THE PROJECT. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO EXCAVATION OR CONSTRUCTION ACTIVITIES.
4. FINAL LOCATIONS OF EQUIPMENT, UTILITIES, AND ASSOCIATED SITE IMPROVEMENTS SHALL BE COORDINATED BY THE DESIGN-BUILDER BASED ON FIELD CONDITIONS AND APPROVED EQUIPMENT SUBMITTALS.
5. THE DESIGN-BUILDER SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES TO MINIMIZE DISRUPTION TO ONGOING NOAA OPERATIONS.
6. CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN AND VEHICULAR ACCESS THROUGHOUT CONSTRUCTION.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES, UTILITIES, PAVEMENTS, LANDSCAPING, AND SITE FEATURES NOT DESIGNATED FOR REMOVAL.
8. ANY AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION
9. CONTRACTOR SHALL COORDINATE EQUIPMENT ACCESS, STAGING, AND INSTALLATION ACTIVITIES WITH EXISTING SITE CONDITIONS AND ONGOING FACILITY OPERATIONS.
10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED DURING ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS.
11. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.



NORTH

1 **SITE - EXISTING/PROPOSED**

SCALE: 1" = 20'-0"

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH. MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459 NOS
DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	As indicated
ISSUE DATE:	

SOLICITATION:	DATE:

DRAWING TITLE:

SITE PLAN - EXISTING

C101

5/8/2026 4:17:24 PM Autodesk Docs://21CNAAJ0027 - NOS Oxford MD BSL 2/21CNAAJ0027 - NOS Oxford MD BSL 2.rvt

1. DEMOLITION PLANS SHOW THE APPROXIMATE LAYOUT OF THE EXISTING BUILDING AND ARE NOT INTENDED TO DOCUMENT "AS-BUILT" CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ACTUAL CONDITIONS WHEN BIDDING THE WORK, PRIOR TO THE START OF CONSTRUCTION.
2. WALLS, PARTITIONS, DOORS, FRAMES, AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. SERVICES WITHIN THE WALLS AND PARTITIONS SHALL BE REMOVED. EDGES OF WALLS SHOWN TO REMAIN SHALL BE SAW CUT OR CLEANLY TOOTHED TO ACCEPT NEW CONSTRUCTION. REPAIR AND PATCH OF EXISTING WALLS SHOWN TO REMAIN WHERE INTERSECTING WALLS, DOORS, FRAMES, ETC. ARE SHOWN TO BE REMOVED WHERE EXISTING CONSTRUCTION WILL NOW BE EXPOSED IN THE NEW CONSTRUCTION.
3. AFTER OR DURING DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT OF ANY CONDITIONS THAT ARE MADE EVIDENT THAT WILL ALTER OR CONFLICT WITH THE COMPLETION OF THE WORK OR REQUIRE ADDITIONAL DEMOLITION TO MEET PROJECT REQUIREMENTS.
4. EXISTING CONSTRUCTION SHOWN TO REMAIN, INCLUDING WALLS, PARTITIONS, DOORS, FRAMES, ETC. SHALL BE PROTECTED DURING EXECUTION OF THE WORK. DAMAGE TO EXISTING CONSTRUCTION SHOWN TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED CONDITION AT NO COST TO THE GOVERNMENT.
5. THE CONTRACTOR SHALL REMOVE, STORE, AND PROTECT MATERIALS TO BE REINSTALLED OR RETAINED TO PREVENT DAMAGE. COORDINATE STORAGE LOCATION WITH THE GOVERNMENT.
6. BEFORE SAWCUTTING, CORING, OR PENETRATING THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL TAKE DELIBERATE STEPS TO DETERMINE IF THE STRUCTURAL INTEGRITY OF THE SLAB WILL BE COMPROMISED. IF THE STRUCTURAL INTEGRITY WILL BE COMPROMISED BY THE WORK, THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT AND RECEIVE DIRECTION BEFORE PROCEEDING.

GENERAL NOTES	3
	NO SCALE

(1) REMOVE EXISTING CONCRETE SLAB.

(2) REMOVE THE EXISTING CARPET TILE FLOORING IN THIS AREA, INCLUDING WALL BASE. REMOVE ADHESIVE FOR FLOOR SUBSTRATE AND PREP SLAB FOR NEW FLOORING FINISHES.

(3) REMOVE EXISTING CARD READER DEVICE. RETURN DEVICE TO THE OWNER. REMOVE WIRE BACK TO PANEL AND SAFELY TERMINATE. PROVIDE BLANK COVERPLATE FOR OUTLET BOX.

(4) REMOVE FIRE ALARM STROBE DEVICE. REMOVE WIRE BACK TO PANEL AND SAFELY TERMINATE. PROVIDE BLANK COVERPLATE FOR OUTLET BOX.

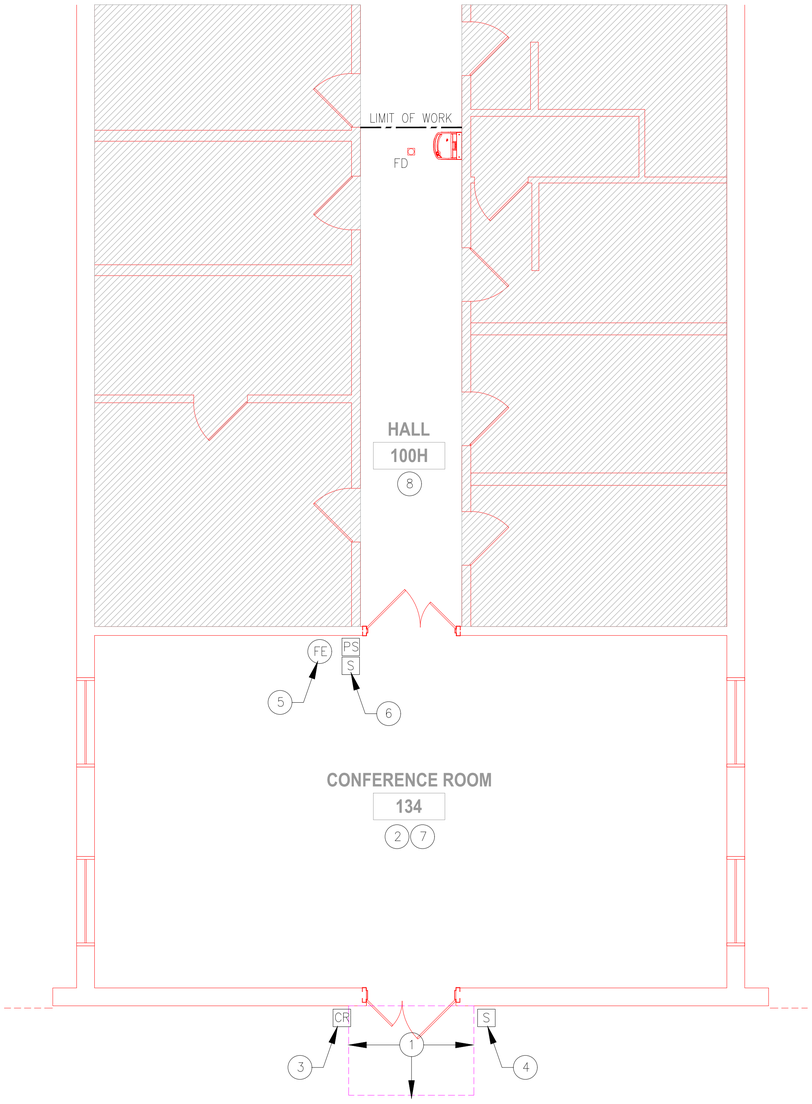
(5) SALVAGE FIRE EXTINGUISHER FOR REINSTALLATION.

(6) REMOVE FIRE ALARM PULL STATION AND STROBE. REMOVE WIRE AND CONDUIT BACK TO PANEL AND SAFELY TERMINATE.

(7) REMOVE ALL SURFACE-MOUNTED RACEWAYS, CONDUITS, AND DEVICES. REMOVE WIRING BACK TO SOURCE AND SAFELY TERMINATE. TYPICAL ALL WALLS IN THIS AREA.

(8) REMOVE VINYL FLOORING AND WALL BASE. SLAB IN HALL 100H TO BE SAW CUT FOR ACCESS TO FLOOR DRAIN. REMOVE ADHESIVE AND PREP SLAB FOR NEW FLOORING FINISH. LIMIT OF WORK AS INDICATED.

KEYED NOTES	2
	NO SCALE



DRAWING LEGEND:

AREA NOT IN SCOPE

0' 1' 2' 4' 8'
1/4" = 1'-0"

N

PARTIAL FIRST FLOOR PLAN - DEMOLITION	1
	1/4" = 1'-0"

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CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL FIRST FLOOR PLAN
DEMOLITION

AD101

P1 3 5/8" METAL STUDS @ 16" O.C., W/ ONE LAYER OF 1/2" GYP. BOARD ON EACH SIDE AND UNFACED BATT INSULATION FULL WIDTH AND DEPTH OF STUD CAVITY.

P2 3 5/8" METAL STUDS @ 16" O.C., W/ ONE LAYER OF REGULAR 1/2" GYP. BOARD ON CORRIDOR SIDE, ONE LAYER OF 1/2" MOISTURE RESISTANT GYP. BOARD ON LABORATORY SIDE, AND UNFACED BATT INSULATION FULL WIDTH AND DEPTH OF STUD CAVITY.

P3 3 5/8" METAL STUDS @ 16" O.C., W/ ONE LAYER OF 1/2" MOISTURE RESISTANT GYP. BOARD ON EACH SIDE AND UNFACED BATT INSULATION FULL WIDTH AND DEPTH OF STUD CAVITY.

P4 6" METAL STUDS @ 16" O.C., W/ ONE LAYER OF 1/2" MOISTURE RESISTANT GYP. BOARD ON EACH SIDE AND UNFACED BATT INSULATION FULL WIDTH AND DEPTH OF STUD CAVITY.

P5 CHASE WALL: 3 5/8" METAL STUDS, W/ ONE LAYER OF 1/2" MOISTURE RESISTANT GYP. BOARD ON ONE SIDE.

PARTITION TYPES NOTES:
1. ALL PARTITIONS SHALL BE TAPED, MUDDED, AND SANDED. READY FOR SCHEDULED FINISH.
2. PROVIDE BLOCKING BETWEEN STUDS IN WALLS SCHEDULED TO RECEIVE CASEWORK OR OTHER WALL-HUNG EQUIPMENT.
3. PROVIDE BRACING PER THE INTERNATIONAL BUILDING CODE, LATEST EDITION, ASTM C645, AND ASTM C745.

PARTITION TYPES	4
	NO SCALE

(1) PAINT ALL WALLS IN THIS AREA.

(2) PROVIDE FINISH FLOORING AND WALL BASE IN THIS AREA AS SCHEDULED.

(3) CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED P.E. TO DESIGN AND ENGINEER THE STRUCTURE OF THE VESTIBULE ADDITION. EXTERIOR WALL CONSTRUCTION: METAL PANELS, OVER VAPOR BARRIER, OVER HORIZONTAL PURLINS, OVER 6" STRUCTURAL GAUGE (16 GA.) METAL STUDS, 16" O.C., BATT INSULATION FULL DEPTH OF STUDS, 1/2" GYPSUM BOARD ON THE BUILDING INTERIOR TAPED AND FINISH TO LEVEL 5 FINISH.

(4) CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED P.E. TO DESIGN AND ENGINEER THE CONCRETE SLAB-ON-GRADE WITH TURNED DOWN FOOTINGS FOUNDATION FOR THE VESTIBULE ADDITION. ASSUME 6-IN. 4000 PSI CONCRETE, REINFORCED WITH 6X6 W2.9XW2.9 WWF PLACED 2-INCHES DOWN FROM TOP OF SLAB. PROVIDE 10 MIL VAPOR BARRIER OVER 12-IN. MIN. COMPACTED MDOT CLASS II GRANDULAR FILL OR MDOT 6AA AGGREGATED FILL COMPACTED TO 95 PERCENT COMPACTION. PROVIDE BULL FLOAT FINISH. MATCH FINISH FLOOR ELEVATION INSIDE BUILDING.

(5) NEW 4-IN. THICK CONCRETE STOOP, 3000 PSI WITH 4X4 W2.9XW2.9 WWF REINFORCEMENT, BROOM FINISH IN ONE DIRECTION.

(6) NEW LAB CASEWORK AND COUNTERTOP WITH SPLASHES AS SCHEDULED.

(7) NEW SINK. TIE INTO EXISTING SUPPLY AND SANITARY PLUMBING.

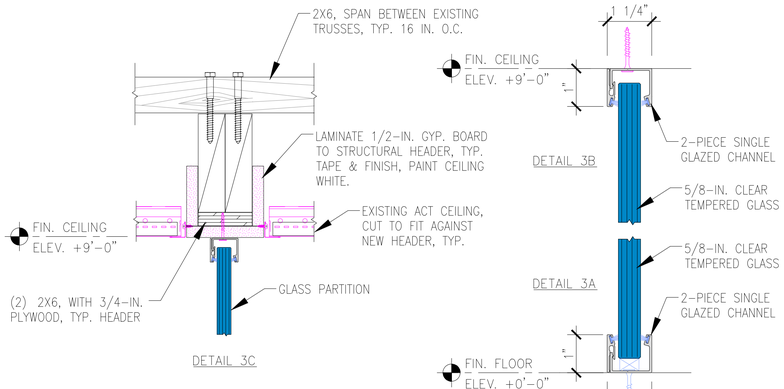
(8) BRING FINISH GRADE UP TO LEVEL OF NEW CONCRETE STOOP. PROVIDE GRASS SEED AND HAY MULCH.

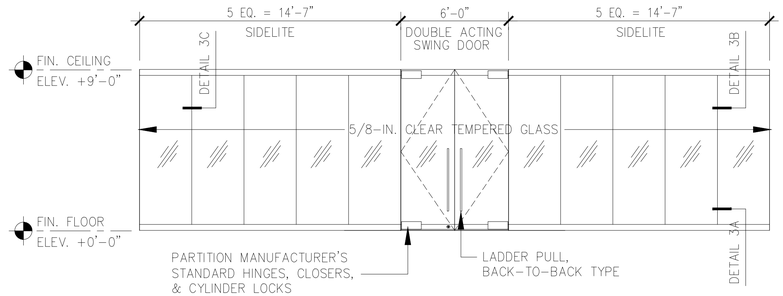
(9) APPLY CLEAR SEALER TO CONCRETE SLAB.

(10) REPAIR CONCRETE SLAB AFTER TIE-IN OF NEW SANITARY LINE TO THE EXISTING PLUMBING SYSTEM. FINISH OF CONCRETE REPAIR SHALL SUITABLE FOR NEW SCHEDULE FLOORING FINISH.

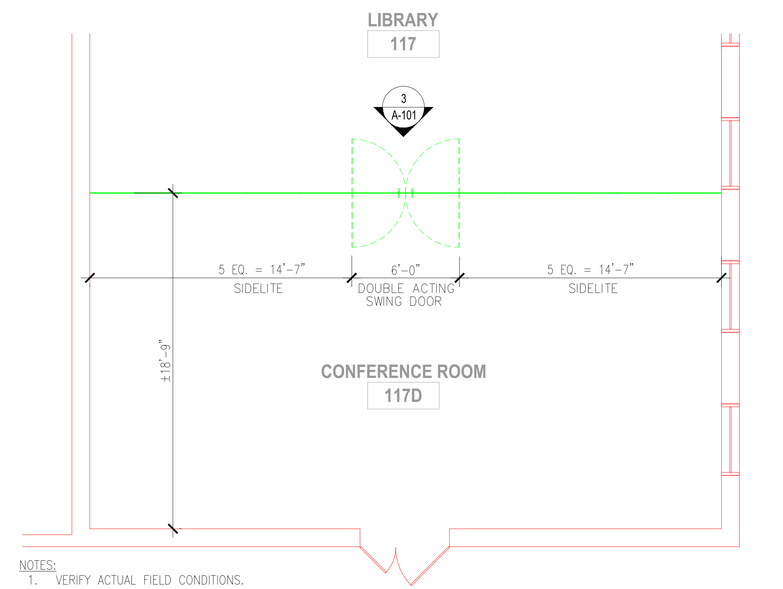
(11) OWNER-FURNISHED EQUIPMENT. PROVIDE REQUIRED POWER CONNECTIVITY.

KEYED NOTES	3
	NO SCALE



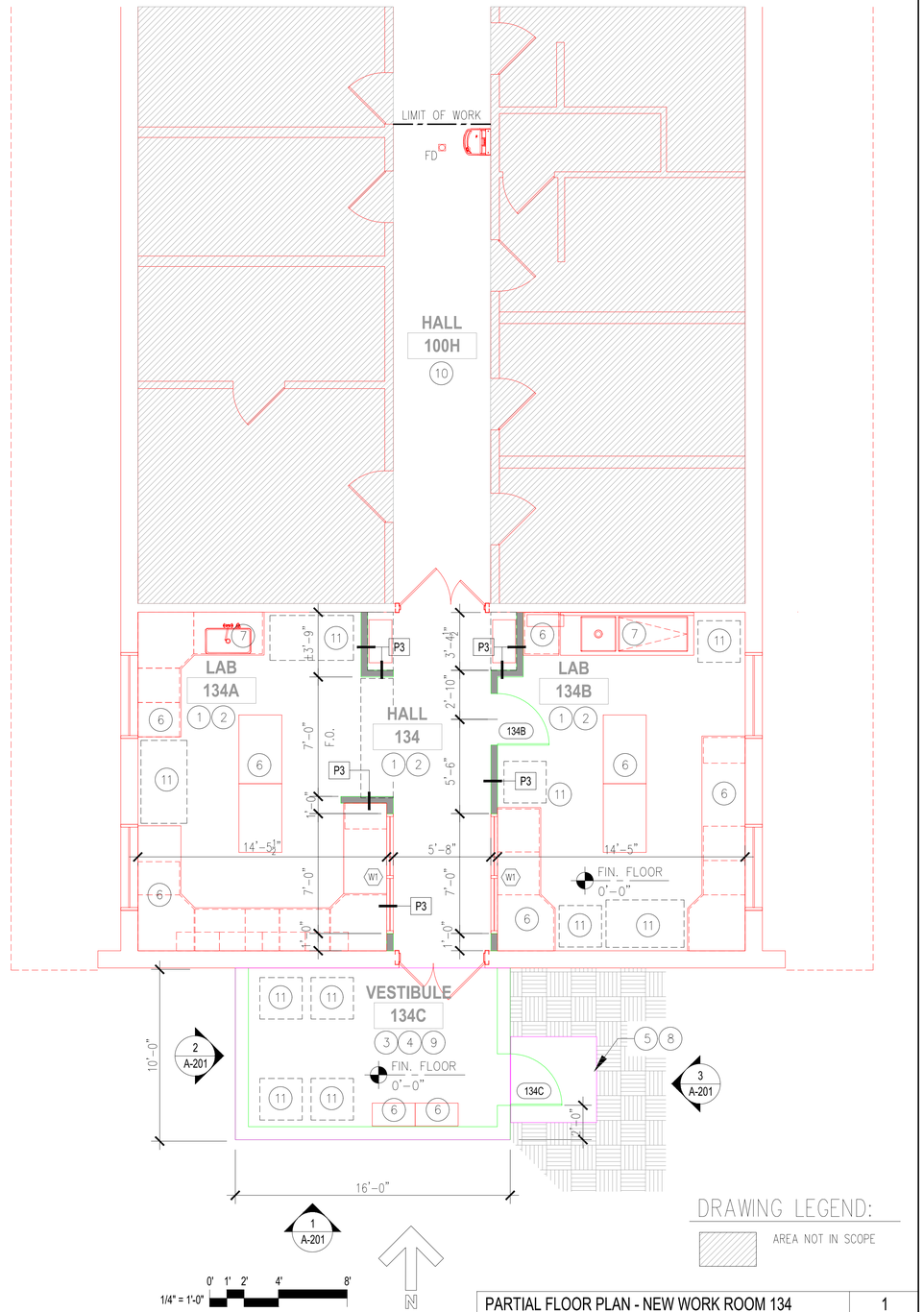


ELEVATION - ALL GLASS PARTITION	3
CONFERENCE ROOM 117D	1/4" = 1'-0"



NOTES:
1. VERIFY ACTUAL FIELD CONDITIONS.
2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
3. SUBMIT SHOP DRAWINGS FOR FINAL REVIEW AND APPROVAL BY OWNER.
4. VERIFY LOCATION OF NEW GLASS PARTITION WALL WITH OWNER.

PARTIAL FLOOR PLAN - NEW WORK	2
CONFERENCE ROOM 117D	1/4" = 1'-0"



PARTIAL FLOOR PLAN - NEW WORK ROOM 134	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
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SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL FLOOR PLANS
NEW WORK

A-101

CASEWORK, METAL:
LABORATORY DESIGN & SUPPLY, INC., BUFORD, GA
BMC / METAL ARC STEEL LABORATORY CASEWORK
STYLE: STEEL INSET
COLOR: TBD, SELECTED FROM VENDOR'S STANDARD COLORS
PULL STYLE: RECESSED

COUNTERTOP & SPLASHES, EPOXY RESIN:
1–INCH THICKNESS
COLOR: BLACK

PEGBOARD BOTTLE DRYING RACK:
30 IN. X 30 IN.
OBTAIN FROM SAME MANUFACTURER AS METAL CASEWORK

SINKS, EPOXY:
PII PRIME INDUSTRIES
#P61 EPOXY UNDERMOUNT SINK
31" X 19" X 18 1/2"
COLOR: BLACK ONYX

FAUCET, METALLIC:
PII PRIME INDUSTRIES
DECK–MOUNTED LABORATORY MIXING FAUCET
GOOSENECK TYPE WITH VACUUM BREAKER
#L411VB, WITH SERRATED HOSE END

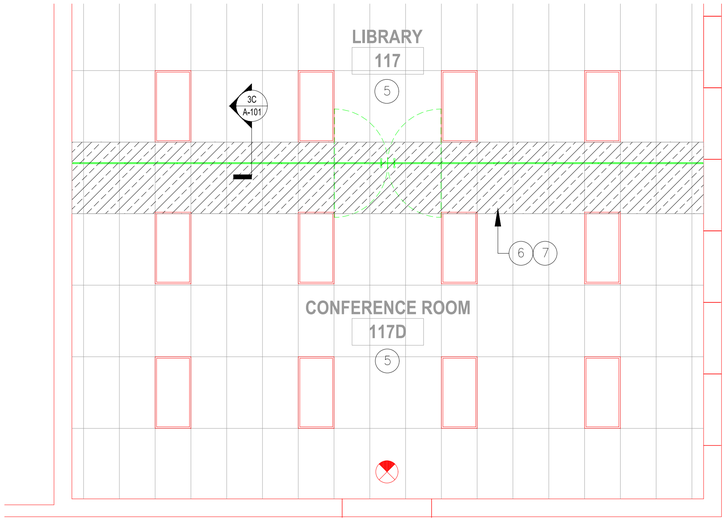
EMERGENCY EYEWASH/SHOWER:
WATERSAVER, CHICAGO, IL
#SS902, SAFETY STATION WITH EYEWASH, STAINLESS STEEL BOWL
FURNISH WITH THERMOSTATIC MIXING VALVE, HAWS AXIOM #9201H

DRENCH HOSE EYEWASH STATION, DECKMOUNT:
PII PRIME INDUSTRIES
EYEWASH DRENCH HOSE UNIT
#EW1022

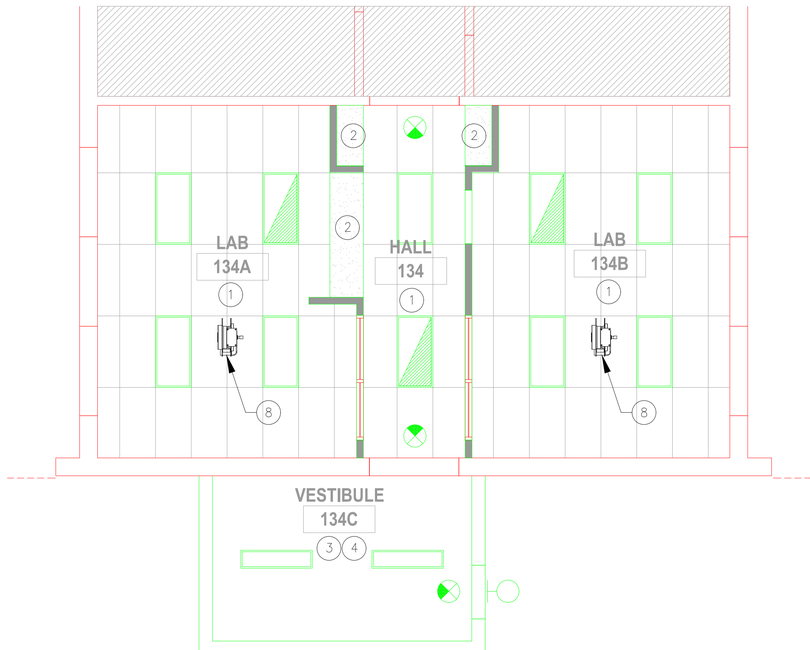
CASEWORK SPECIFICATIONS 4
NO SCALE

1. 2'X4' ACT CEILING INSTALLED AT 9"–0" AFF. INSTALL NEW CEILING CENTERED IN THE ROOM/AREA, WITH EQUAL BORDERS, UNLESS NOTED OTHERWISE.
2. GYPSUM BOARD SOFFIT. BOTTOM OF SOFFIT AT 7'–4" AFF. PAINT SOFFIT THE SAME COLOR AS THE ADJACENT WALLS.
3. NO FINISHED CEILING IN THIS AREA. OPEN TO STRUCTURE.
4. SECURE LIGHT FIXTURES IN THIS AREA TO UNDERSIDE OF ROOF STRUCTURE.
5. ACT CEILING IN THIS AREA IS EXISTING.
6. VERIFY THE LOCATION OF THE NEW ALL GLASS PARTITION WALL WITH THE OWNER. TEMPORARILY REMOVE THE ACT CEILING AND GRID IN THE HATCHED REGION. SALVAGE MATERIALS FOR REINSTALLATION.
7. INSTALL NEW HEADER ABOVE CEILING TO SUPPORT THE NEW ALL GLASS PARTITION WALL. REINSTALL THE ACT CEILING. CUT ACT TO ABUT NEW HEADER. PROVIDE NEW WALL ANGLE. PAINT NEW HEADER CEILING WHITE.
8. PROVIDE CEILING–MOUNTED 20 AMP QUADRAPLEX PULL–DOWN ELECTRICAL CABLE REEL. PROVIDE ATTACHMENT TO STRUCTURE ABOVE ACT CEILING.

KEYED NOTES 3
NO SCALE



PARTIAL REFLECTED CEILING PLAN - NEW WORK 2
CONFERENCE ROOM 117D 1/4" = 1'-0"



0' 1' 2' 4' 8'
1/4" = 1'-0"
N

DRAWING LEGEND:
AREA NOT IN SCOPE

PARTIAL REFLECTED CEILING PLAN - NEW WORK 1
1/4" = 1'-0"

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PROJECT NO.	
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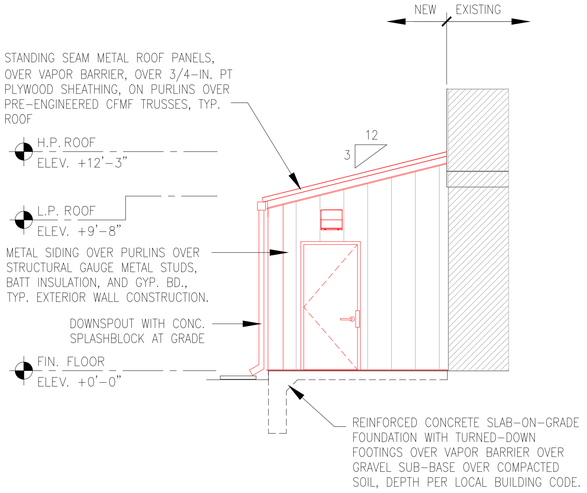
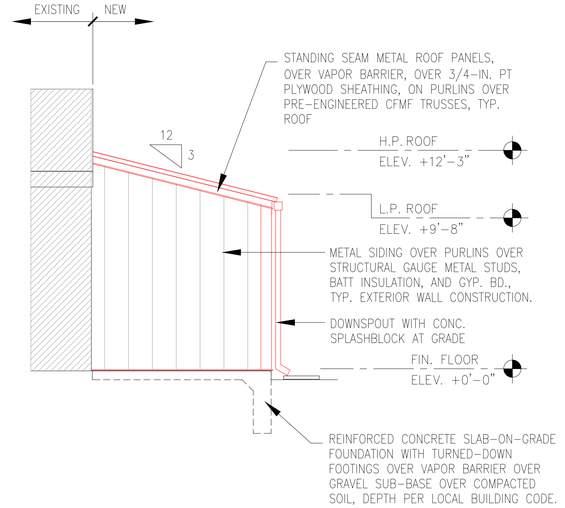
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL REFLECTED CEILING PLANS
NEW WORK

A-102



EAST ELEVATION - VESTIBULE	3
	1/4" = 1'-0"

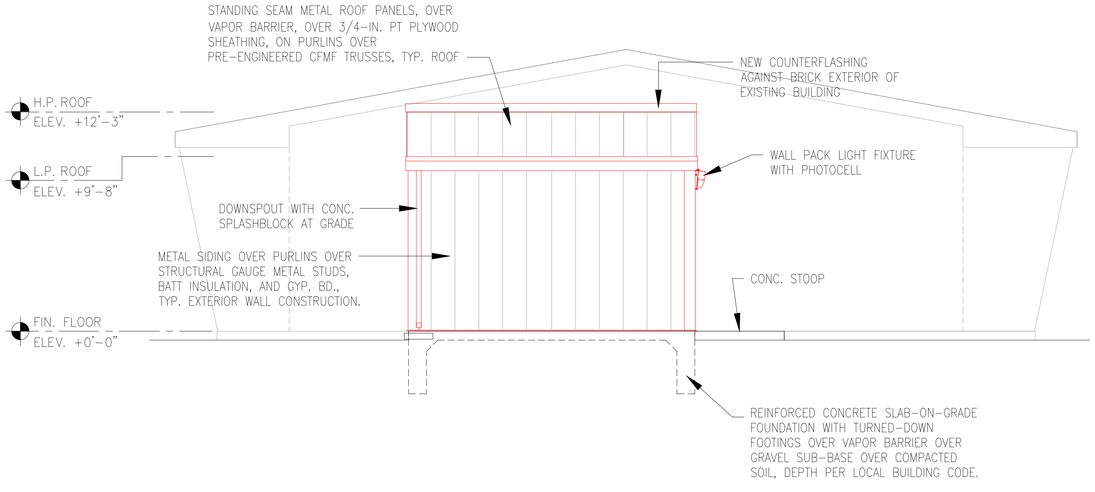


WEST ELEVATION - VESTIBULE	2
	1/4" = 1'-0"

ROOF:
MCELROY METALS, OR EQUIVALENT
- MERIDIAN SERIES
- .91-IN. RIB HEIGHT, FACTORY-EAVE NOTCH
- 12-IN. PANEL WIDTH, MINOR RIB
- COATING: KYNAR 500 (PVDF) FACTORY-APPLIED FINISH
- COLOR: TBD, SELECTED FROM MANUFACTURER'S STANDARD COLORS

SIDING:
MCELROY METALS, OR EQUIVALENT
- MULTI-RIB SERIES, WITH MOISTURE-LOK OPTION
- 1.1875-IN. PANEL HEIGHT
- 12-IN. PANEL RIBS
- COATING: KYNAR 500 (PVDF) FACTORY-APPLIED FINISH
- COLOR: TBD, SELECTED FROM MANUFACTURER'S STANDARD COLORS

METAL PANEL SPECIFICATIONS	4
	NO SCALE



0' 1' 2' 4' 8'
1/4" = 1'-0"

SOUTH ELEVATION - VESTIBULE	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
VESTIBULE ELEVATIONS
NEW WORK

A-201

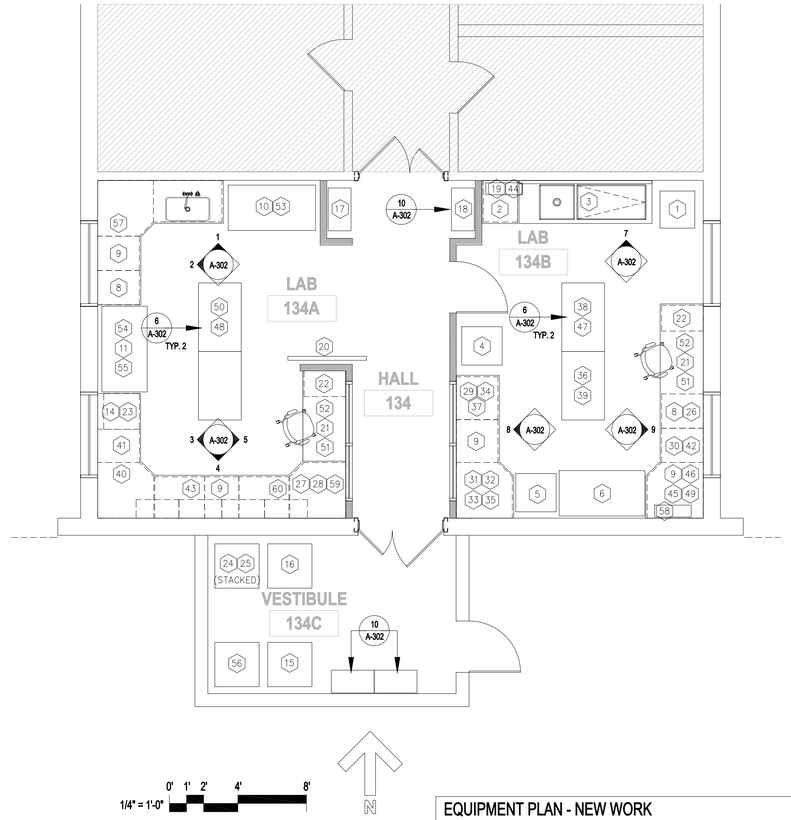
1. AUTOCLAVE, BENCHTOP
2. DISHWASHER
3. SCULLERY SINK, (BY CONTRACTOR)
4. INCUBATOR, LOW TEMPERATURE
5A. INCUBATOR
5B. INCUBATOR
6. BIOSAFETY CABINET
7. NOT USED
8. FLAMMABLE STORAGE CABINET, UNDER COUNTER (BY CONTRACTOR)
9. METAL LAB CASEWORK, AS SCHEDULED, WITH EPOXY RESIN COUNTERTOPS AND SPLASHES (BY CONTRACTOR)
10. FUME HOOD
11. PCR CABINET/HOOD
12. 30"X48" "SMITHSONIAN TABLE" WITH ADJUSTABLE SHELVING AND BASE CABINET (BY CONTRACTOR)
13. UNDERMOUNT EPOXY RESIN SINK (BY CONTRACTOR)
14. UNDER COUNTER FREEZER
15. FREEZER, ULTRA LOW TEMPERATURE
16. REFRIGERATOR FREEZER
17. STORAGE CABINET, GLASSWARE
18. 30"X84" STORAGE CABINET (BY CONTRACTOR)
19. 24" SHELF, BRACKETS, AND STANDARDS FOR OWNER'S DI SYSTEM (BY CONTRACTOR)
20. MONITOR, WALL-MOUNT
21. SIT-DOWN WORK SURFACE. TOP OF COUNTER AT 30" AFF. (BY CONTRACTOR)
22. 29" HIGH STORAGE CABINET WITH PULL-OUT BREAD BOARD. (BY CONTRACTOR)
23. REFRIGERATOR (STACKED WITH #14)
24. FREEZER, MINI
25. FREEZER, MINI (STACKED WITH #24)
26. PLATE READER
27. THERMAL CYCLER
28. THERMAL CYCLER
29. WATER BATH
30. SPECTROPHOTOMETER
31. SCALE
32. SCALE
33. SCALE
34. PH PROBE
35. DRI-BATH
36. PERISTALTIC PUMP
37. AUTOMATIC PIPETTOR CHARGER
38. HOT PLATE
39. HOT PLATE
40. MINI PLATE SPINNER
41. VORTEXER
42. REFRIGERATED CENTRIFUGE
43. VACUFUGE
44. DE-IONIZED WATER SYSTEM
45. MICROSCOPE
46. VORTEXER
47. LABORATORY BLENDER
48. MINI CENTRIFUGE
49. VACUUM PUMP
50. THERMO MIXER
51. LAPTOP COMPUTER
52. COMPUTER MONITOR
53. VORTEXER WITH ADAPTORS
54. MINI TUBE SPINNER
55. VORTEXER
56. FREEZER, ULTRA LOW TEMPERATURE
57. REPEAT PIPETTOR CHARGER
58. SHELF FOR VACUUM PUMP, SAME AS #19 (BY CONTRACTOR)
59. THERMAL CYCLER LAPTOP
60. BATTERY BACKUP
61. SHAKING INCUBATOR

EQUIPMENT LIST NOTES:
1. UNLESS OTHERWISE NOTED (I.E., "BY CONTRACTOR"), ALL EQUIPMENT LISTED ABOVE WILL BE OWNER-PROVIDED AND INSTALLED BY CONTRACTOR.

EQUIPMENT LIST	3
	N.T.S.

DRAWING LEGEND:

AREA NOT IN SCOPE



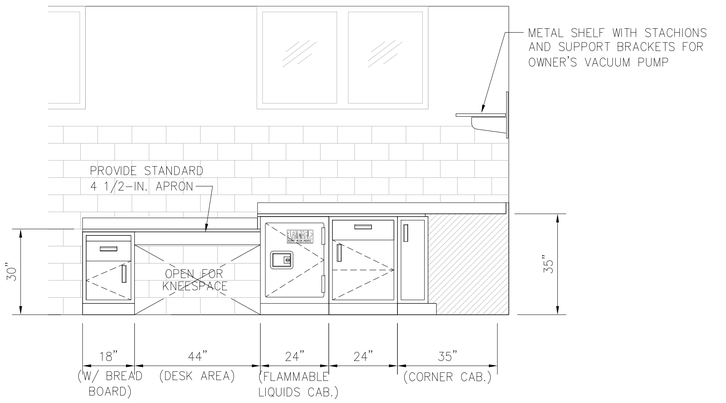
EQUIPMENT PLAN - NEW WORK	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

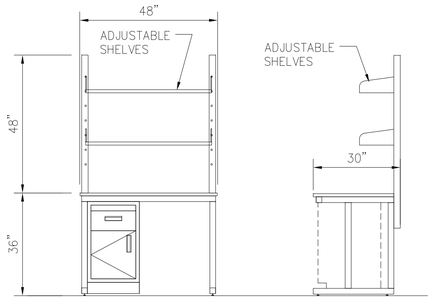
PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
LABORATORY CASEWORK
KEY PLAN

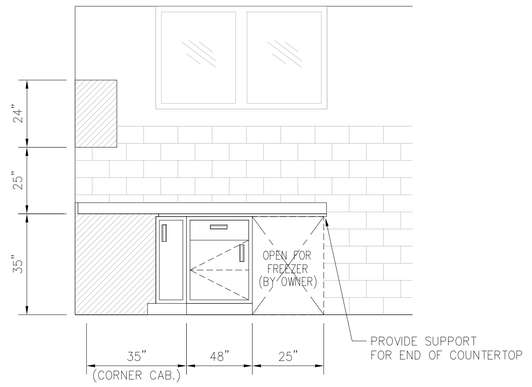
A-301



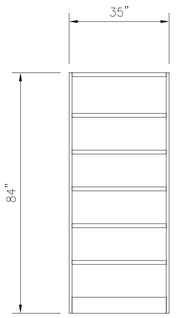
ELEVATION - LAB 1034B	9
	1/2" = 1'-0"



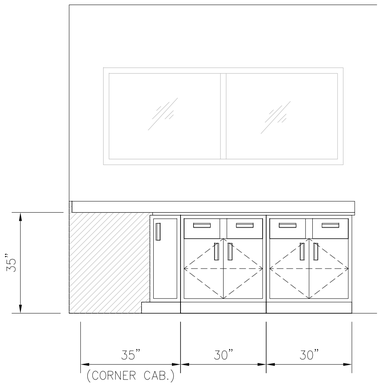
ELEVATION	6
	1/2" = 1'-0"



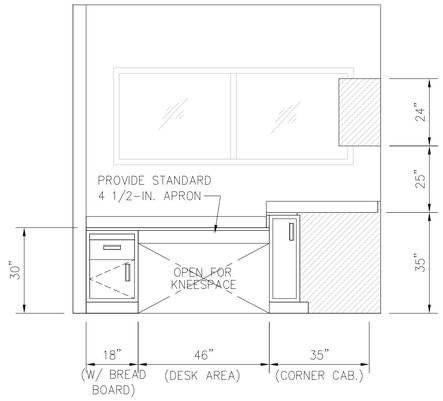
ELEVATION - LAB 1034A	3
	1/2" = 1'-0"



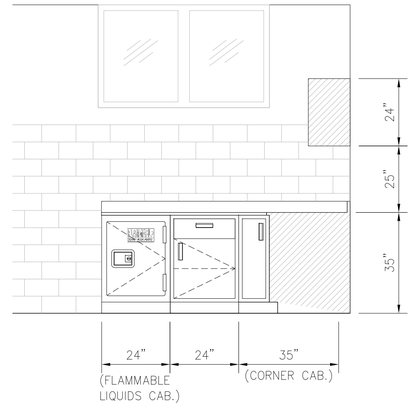
ELEVATION - LAB 1034B	10
	1/2" = 1'-0"



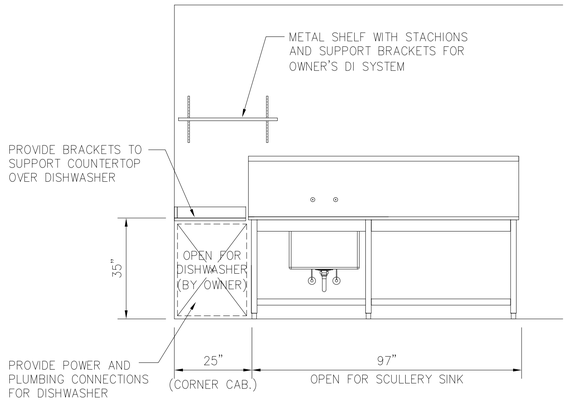
ELEVATION - LAB 1034B	8
	1/2" = 1'-0"



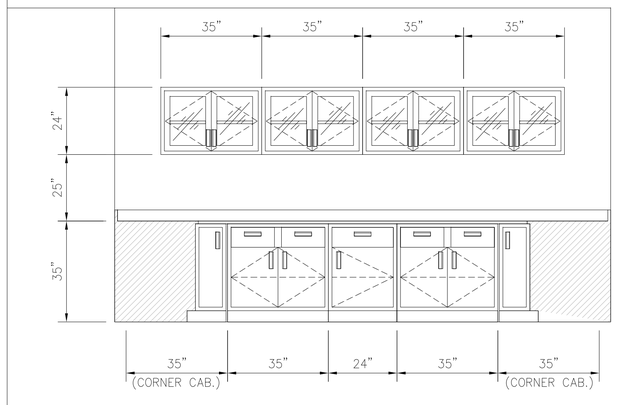
ELEVATION - LAB 1034A	5
	1/2" = 1'-0"



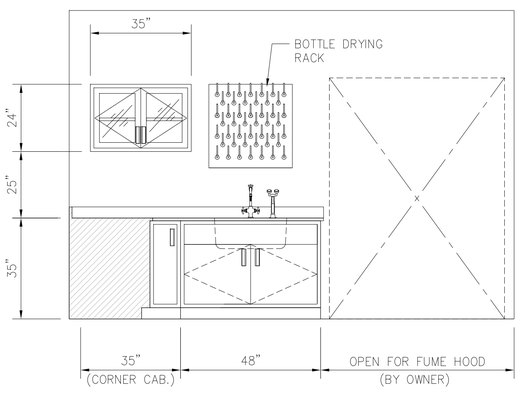
ELEVATION - LAB 1034A	2
	1/2" = 1'-0"



ELEVATION - LAB 1034B	7
	1/2" = 1'-0"



ELEVATION - LAB 1034A	4
	1/2" = 1'-0"



ELEVATION - LAB 1034A	1
	1/2" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
LABORATORY CASEWORK ELEVATIONS

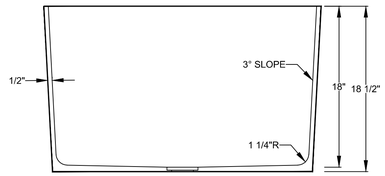
A-302

..\..\..\..\PMEL\PMEL Lab Block Renovation\Cut Sheets\page 3.jpg

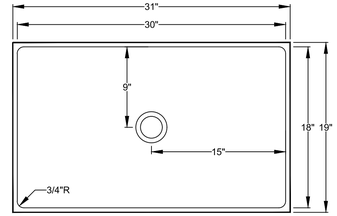
SCULLERY SINK FAUCET	6
OPEN STORAGE 1077	NO SCALE

..\..\..\..\PMEL\PMEL Lab Block Renovation\Cut Sheets\page 1.jpg

EMERGENCY EYEWASH STATION/SHOWER	4
LAB 1037	NO SCALE



SECTION VIEW

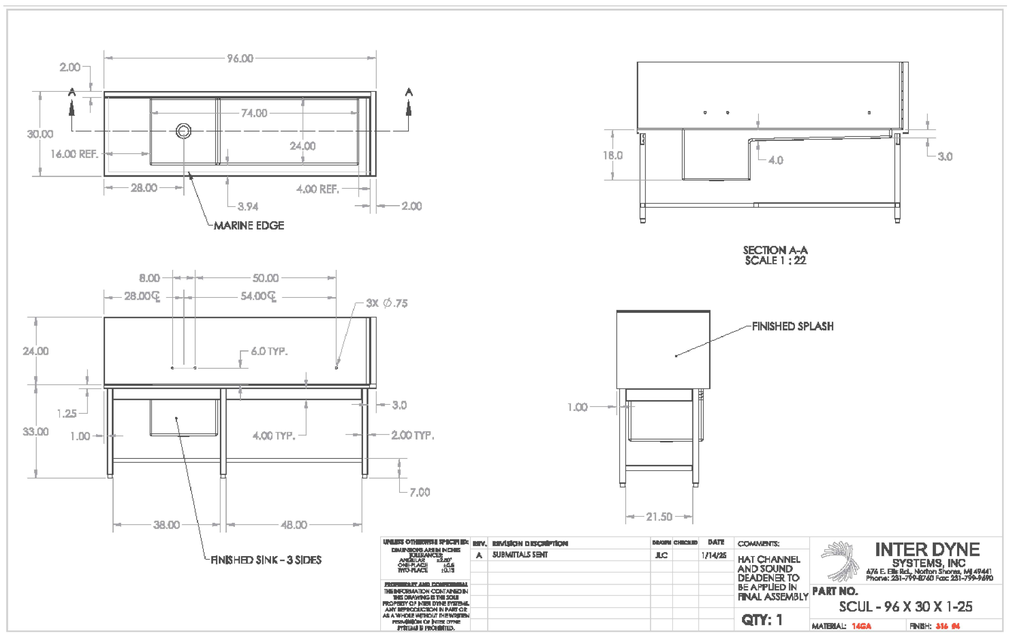


TOP VIEW

NOTES:
1. FURNISH SINK WITH ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A WORKING INSTALLATION.
2. PROVIDE BASKET STRAINER AND STOPPER.

SINK MOLDED FROM EPOXY RESIN	SINK COLOR: ■BLACK - □ OTHER: _____
PRIME industries inc. 4611 Main St. Lisle, IL 60532 ph: 630/725-9200 - fax: 630/725-9201 www.piilab.com	THIS SINK SHIPS FROM TAYLOR, TX 76574
REV. DATE 12/11/14	WEIGHT 108 lbs.
SINK MODEL P61	

EPOXY RESIN LAB SINK DETAIL	2
ALL LABS EXCEPT LABS 1033 & 1034	NO SCALE



REV.	REVISION DESCRIPTION	DRAWN	CHECKED	DATE
A	SUBMITTALS SENT	JLC		1/14/25

COMMENTS:
HAT CHANNEL AND SOUND DEADENER TO BE APPLIED IN FINAL ASSEMBLY

QTY: 1

INTER DYNE SYSTEMS, INC
476 E. Ellis Rd., Norton Shores, MI 49441
Phone: 231-799-8040 Fax: 231-799-8490

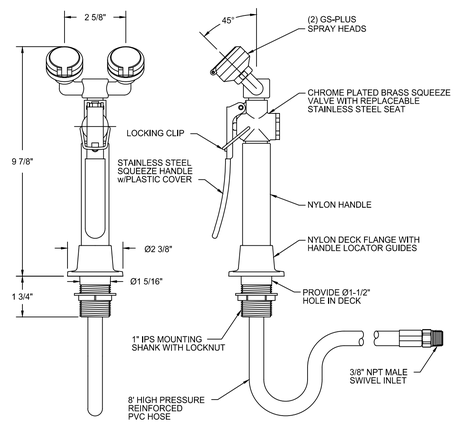
PART NO. SCUL - 96 X 30 X 1-25

MATERIAL: 14GA FINISH: 316 #4

SCULLERY SINK DETAIL	5
OPEN STORAGE 1077	NO SCALE

PRIME industries inc.

EW1022
EYE WASH/DRENCH HOSE UNIT, DECK MOUNT

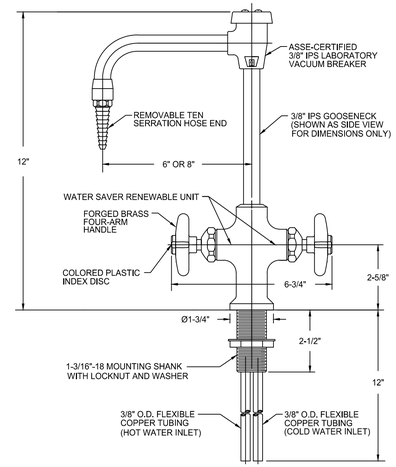


2600 Warrenville Road, Suite 205, Downers Grove, IL 60194 630-725-9200

DECK MOUNTED EYEWASH STATION DETAIL	3
ALL LABS	NO SCALE

PRIME industries inc.

L411VB or L411-8VB
LABORATORY MIXING FAUCET, DECK MOUNTED, RIGID VACUUM BREAKER GOOSENECK



2600 Warrenville Road, Suite 205, Downers Grove, IL 60194 630-725-9200

DECK MOUNTED LAB FAUCET DETAIL	1
ALL LABS EXCEPT LABS 1033 & 1034	NO SCALE

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

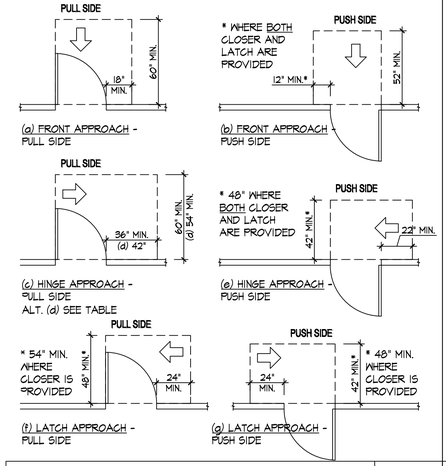
DRAWING TITLE:
LABORATORY FIXTURES
CUT SHEETS

A-401

TYPE OF USE		MINIMUM CLEARANCES	
APPROACH DIRECTION	DOOR SIDE	PERPENDICULAR TO DOOR (1)	BEYOND LATCH PARALLEL TO DOOR
(a) FRONT	PULL	60 INCHES	18 INCHES
(b) FRONT	PUSH	52 INCHES	0 INCHES (2)
(c) HINGE	PULL	60 INCHES	36 INCHES
(d) HINGE		54 INCHES	42 INCHES
(e) HINGE	PUSH	42 INCHES (3)	54 INCHES
(f) LATCH	PULL	48 INCHES (4)	24 INCHES
(g) LATCH	PUSH	42 INCHES (4)	24 INCHES

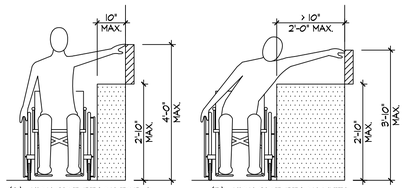
(1) MANEUVERING SPACE SHALL INCLUDE FULL WIDTH OF DOORWAY.
(2) ADD 12 INCHES IF CLOSER AND LATCH PROVIDED.
(3) ADD 6 INCHES IF CLOSER AND LATCH PROVIDED.
(4) ADD 6 INCHES IF CLOSER PROVIDED.

GENERAL NOTES:
1. MANEUVERING CLEARANCES AT SWINGING DOORS IN ACCORDANCE WITH ICC/ANSI A117.1 AND ADAAG.



ADA DOOR CLEARANCE DETAILS	11
	NO SCALE

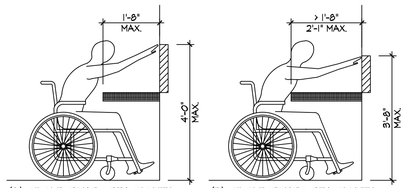
REACH RANGES SHALL COMPLY WITH SECTION 308 OF ICC/ANSI A117.1
- OBSTRUCTED HIGH SIDE REACH: WHERE A CLEAR FLOOR SPACE ALLOWS A PARALLEL APPROACH TO AN OBJECT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24" MAXIMUM



(A) HIGH SIDE REACH FOR A REACH DEPTH OF 10 INCHES MAXIMUM

(B) HIGH SIDE REACH WHEN DEPTH EXCEEDS 10 INCHES. THE REACH DEPTH SHALL BE 24 INCHES MAXIMUM

REACH RANGES SHALL COMPLY WITH SECTION 308 OF ICC/ANSI A117.1
- OBSTRUCTED HIGH REACH: WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION



(A) HIGH FORWARD REACH WHEN DEPTH IS 20 INCHES MAXIMUM

(B) HIGH FORWARD REACH WHEN DEPTH EXCEEDS 20 INCHES. THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM

ADA DETAILS	8
	NO SCALE

HW SET #1

1	HINGES, PIVOT TOP AND BOTTOM		MANUF STANDARD	
1	CYLINDER LOCKSET W/ THUMBTURN		MANUF STANDARD	
1	CLOSER, CONCEALED		MANUF STANDARD	
1	PUSH BAR		MANUF STANDARD	
1	PULL HANDLE, OFFSET		MANUF STANDARD	

HW SET #2

3	HINGES, FULL MORTISE	STANLEY	#F179	4.5"X4.5"	US26D
1	LOCKET, LEVER HANDLE	FALCON	#T571D	PRIVACY	626
1	DOOR STOP, WALL MOUNTED	IVES	#438	DOME	US26D
1	CLOSER, HEAVY DUTY	LCN	#H11979	W/HOLD OPEN	SILVER
1	DRIP GUARD	NATL GUARD	#16A–76		US26D
1	WEATHERSTRIPPING				
1	LATCH GUARD	PRIMELINE	#U9496		GRAY
1	THRESHOLD, SADDLE	PEMKO	#2005AT36		US26D

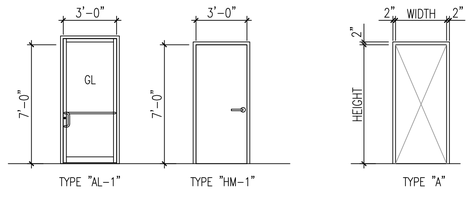
HARDWARE NOTES:
1. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF ANSI 117.1.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DOOR HARDWARE FOR REVIEW AND APPROVAL BY OWNER PRIOR TO ORDERING.

DOOR HARDWARE SETS	4
	NO SCALE

MATERIAL & FINISH LEGEND

SYMBOL	MATERIAL	MANUFACTURER	PRODUCT NO.	COLOR	REMARKS
PT–1	PAINT	SHERWIN WILLIAMS	#SW7007	WHITE	EGGSHELL FINISH ON WALLS, SEMI–GLOSS FINISH ON TRIM AND METAL DOOR FRAMES.
PT–2	PAINT	SHERWIN WILLIAMS	#SW7007	WHITE	FLAT CEILING WHITE.
VCT–1	VINYL COMPOSITION TILE	ARMSTRONG	#1903	BLUE GRAY	
VS–1	VINYL SHEET	TARKETT	#202	TBD	ACCZENT EXCELLENCE GENIUS SOLID VINYL SHEET FLOORING
CT–1	CERAMIC TILE	DALTILE	#UB04	URBANIZE GRAY	12"X 24", CUT TILES TO 4" HEIGHT FOR WALL BASE. 2/3 RUNNING BOND, COLOR MATCH GROUT TO TILE.
EP–1	EPOXY	TBD	TBD	TBD	
VB–1	VINYL WALL BASE	JOHNSONITE	38	PEWTER	4" COVE
ACT–1	ACOUSTICAL CEILING	ROCKFON	#31101	WHITE	HYGIENIC PLUS SQUARE LAY–IN, 24"X24". ARMSTRONG PRELUDE XL 15/16" EXPOSED GRID.
PL–1	PLASTIC LAMINATE	FORMICA	#961	FOG MATTE	
SS–1	SOLID SURFACE	FORMICA	#VP008	BLACK	PROVIDE 4" SPLASHES, LOOSE, FIELD–INSTALLED.
SS–2	SOLID SURFACE	CORIAN	–	ASH CONCRETE	PROVIDE 4" SPLASHES, LOOSE, FIELD–INSTALLED.
CPT–1	CARPET TILE	SHAW	#5T671	QUILT	#62505, 24"X 24", ASHLAR PATTERN.
CS–1	CONCRETE SEALER	VALSPAR	#82092	CLEAR	

FINISHES SCHEDULE	10
	NO SCALE



DOOR AND FRAME TYPES	3
	NO SCALE

GENERAL DOOR NOTES:
1. REFER TO FLOOR PLANS FOR DOOR HANDING.
2. DOOR OPENING FORCE: THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS. FOR OTHER SWINGING DOORS THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15-POUND FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE.
3. HARDWARE: DOOR HANDLES, PULLS, LATCHES AND OTHER OPERATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE
4. ALL INTERIOR DOOR FRAMES SHALL BE KNOCK DOWN HOLLOW METAL.
5. ALL METAL FRAMES SHALL BE PAINTED.

ABBREVIATIONS: ALUM=ALUMINUM, WD=SOLID CORE WOOD, WD-GL= SOLID CORE WOOD DOOR W/ VISION PANEL, WD/LV= SOLID CORE WOOD W/ METAL LOUVER, HM=HOLLOW METAL, T.G.= TEMPERED GLASS, AG-I = FULL GLASS DOOR, OHD= OVERHEAD DOOR

DOOR SCHEDULE								FRAME SCHEDULE					RATING	NOTES
TAG	LOCATION	TYPE	MATERIAL	WIDTH	HEIGHT	THK	FINISH	TYPE	MATERIAL	HEAD	FINISH	HARDWARE		
1034B	LAB	AL–1	ALUM	3'–0"	7'–0"	1–3/4"	MILL	–	ALUM	–	ANODIZED	SET #1	NONE	2
1034C	LAB	HM–1	HM	3'–0"	7'–0"	1–3/4"	PAINTED	A	HM	–	PAINTED	SET #2	NONE	1

DOOR & FRAME SCHEDULE NOTES:
1. PAINT DOOR AND FRAME PER SCHEDULE.
2. SOURCE STOREFRONT DOOR AND FRAME FROM THE SAME MANUFACTURER.

DOOR & FRAME SPECIFICATIONS:
1. WOOD DOORS: VT INDUSTRIES, ARCHITECTURAL WOOD DOORS, HERITAGE SERIES PC–5, 5–PLY PARTICLE CORE, FACTORY–APPLIED STAIN FINISH. PROVIDE MANUFACTURER'S VISION LITE KIT WITH STANDARD METAL TRIM.
2. HOLLOW METAL DOORS: INSULATED EXTERIOR HM DOOR, STEELCRAFT SL SERIES, SQUARE EDGE FLUSH DOOR, FL–16–UL–4–5.75–70–SJ–LHRB–RPD, PAINTED FINISH.
3. PROVIDE 20"X30" LITE KIT WITH CLEAR TEMPERED GLASS AND MANUFACTURER'S STANDARD METAL FRAME.
4. STOREFRONT DOORS: KAWNEER, 190 SERIES NARROW STILE SWING DOORS, MANUFACTURER'S STANDARD ANODIZED ALUMINUM FINISH, STANDARD 1/4–IN. TEMPERED GLASS, CLEAR. PROVIDE MANUFACTURER'S STANDARD ALUMINUM FRAME WITH SAME FINISH AS DOOR.

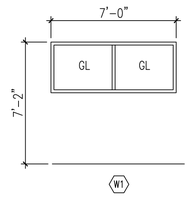
DOOR AND FRAME SCHEDULE	2
	NO SCALE

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	WALL BASE	CEILING	CEILING HGT.	ELEVATION 1	ELEVATION 2	ELEVATION 3	ELEVATION 4	NOTES
1034	HALL	VS–1	VS–1	ACT–1	9'–0"	PT–1	PT–1	PT–1	PT–1	
1034A	LAB	VS–1	VS–1	ACT–1	9'–0"	PT–1	PT–1	PT–1	PT–1	
1034B	LAB	VS–1	VS–1	ACT–1	9'–0"	PT–1	PT–1	PT–1	PT–1	
1034C	VESTIBULE	CONC	CS–1	–	–	–	–	–	–	
100H	HALL	VS–1	VS–1	–	–	–	–	–	–	

ROOM FINISH SCHEDULE NOTES:
1. XXXX

ROOM FINISH SCHEDULE	9
	NO SCALE



STOREFRONT, INTERIOR:
INDUSTRY STANDARD, 2–IN. EXTRUDED ALUMINUM FRAMES, MILL FINISH
1/4–IN. CLEAR TEMPERED GLASS

WINDOW SCHEDULE	1
	NO SCALE

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
SCHEDULES

A-601

GENERAL MECHANICAL NOTES

1 THESE GENERAL MECHANICAL NOTES APPLY TO ALL MECHANICAL DRAWINGS IN THIS SET. SHEET SPECIFIC NOTES ARE INDICATED ON EACH SHEET UNDER GENERAL SHEET NOTES.

2 PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.

3 INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, APPLICABLE CODES, AND REGULATIONS.

4 EXISTING DUCT AND PIPING SIZES INDICATED ARE APPROXIMATE. FIELD VERIFY ALL EXISTING CONDITIONS.

5 PATCH ALL HOLES FROM REMOVAL OF PIPING, DUCTWORK, OR EQUIPMENT TO MATCH ADJACENT CONSTRUCTION.

6 CONCEAL ALL DUCTWORK AND PIPING ABOVE SUSPENDED CEILINGS AND IN WALLS, UNLESS OTHERWISE NOTED.

7 GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH MECHANICAL DRAWING OF THIS SET. GENERAL NOTES SPECIFIC TO INDIVIDUAL MECHANICAL DRAWINGS WILL BE SHOWN ON THE RESPECTIVE MECHANICAL DRAWING.

MECHANICAL LEGEND

DUCTWORK

12"x20"	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN
SA	DUCT SECTION, SUPPLY AIR
RA	DUCT SECTION, RETURN AIR
EA	DUCT SECTION, EXHAUST AIR
	SUPPLY GRILLE
	RETURN DIFFUSER
	EXHAUST GRILLE
	SUPPLY DUCT DOWN
	RETURN DUCT DOWN
	EXHAUST DUCT DOWN
	SUPPLY DUCT UP
	RETURN DUCT UP
	EXHAUST DUCT UP

MECHANICAL ABBREVIATIONS

AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
EA	EXHAUST AIR
RA	RETURN AIR
SA	SUPPLY AIR
VAV	VARIABLE AIR VOLUME

DEMOLITION LEGEND

DEMOLITION LINE WEIGHT

GENERAL PLUMBING NOTES

1 PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, SPECIFIED AND AS REQUIRED BY CODE.

2 FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO BEGINNING WORK. EXISTING PIPE AND EQUIPMENT SIZES AND LOCATIONS ARE BASED ON AS-BUILT DRAWINGS AND ARE NOTED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT.

3 CUT OPENINGS, AS REQUIRED, IN EXISTING CONSTRUCTION FOR THE INSTALLATION OF PIPING AND EQUIPMENT. PATCH AND REPAIR ALL HOLES FROM REMOVAL OF PIPING AND/OR EQUIPMENT TO MATCH ADJACENT CONSTRUCTION. OPENINGS IN EXISTING CONCRETE MASONRY CONSTRUCTION SHALL BE SAW- CUT.

4 COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN PLUMBING FIXTURES. FIXTURES MUST BE LOCATED AS DETAILED ON THE ARCHITECTURAL DRAWINGS.

5 INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

6 SLOPES AND INVERT ELEVATIONS OF ALL INTERIOR PIPING MUST BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING MUST BE RUN TO AVOID CONFLICT WITH OTHER TRADES.

7 MAKE PROPER HOT AND COLD WATER, HOT WATER RECIRCULATING, WASTE, VENT, AND GAS, ETC PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCHES, FITTINGS AND CONNECTIONS MAY NOT BE SHOWN.

8 ALL CLEANOUT MUST BE FULL SIZE OF PIPE.

9 GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH PLUMBING DRAWING OF THIS SET. GENERAL NOTES SPECIFIC TO INDIVIDUAL PLUMBING DRAWINGS WILL BE SHOWN ON THE RESPECTIVE PLUMBING DRAWING.

PLUMBING LEGEND

PIPE LINES TYPES

CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
S	SANITARY
V	VENT
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY

PLUMBING ABBREVIATIONS

CW	DOMESTIC COLD WATER
DWV	DRAIN, WASTE, VENT
FCO	FLOOR CLEANOUT
HHWR	HYDRONIC HOT WATER SUPPLY
HHWS	HYDRONIC HOT WATER RETURN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN

PIPE ACCESSORIES

	CIRCUIT SETTER
	PIPE CAP
	PIPE DOWN
	PIPE UP
	REDUCER
	WYE STRAINER

GENERAL PLUMBING FIXTURES

FCO	FLOOR CLEAN OUT

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	Author
CHECKED BY:	
SCALE:	
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
COVER SHEET

M100

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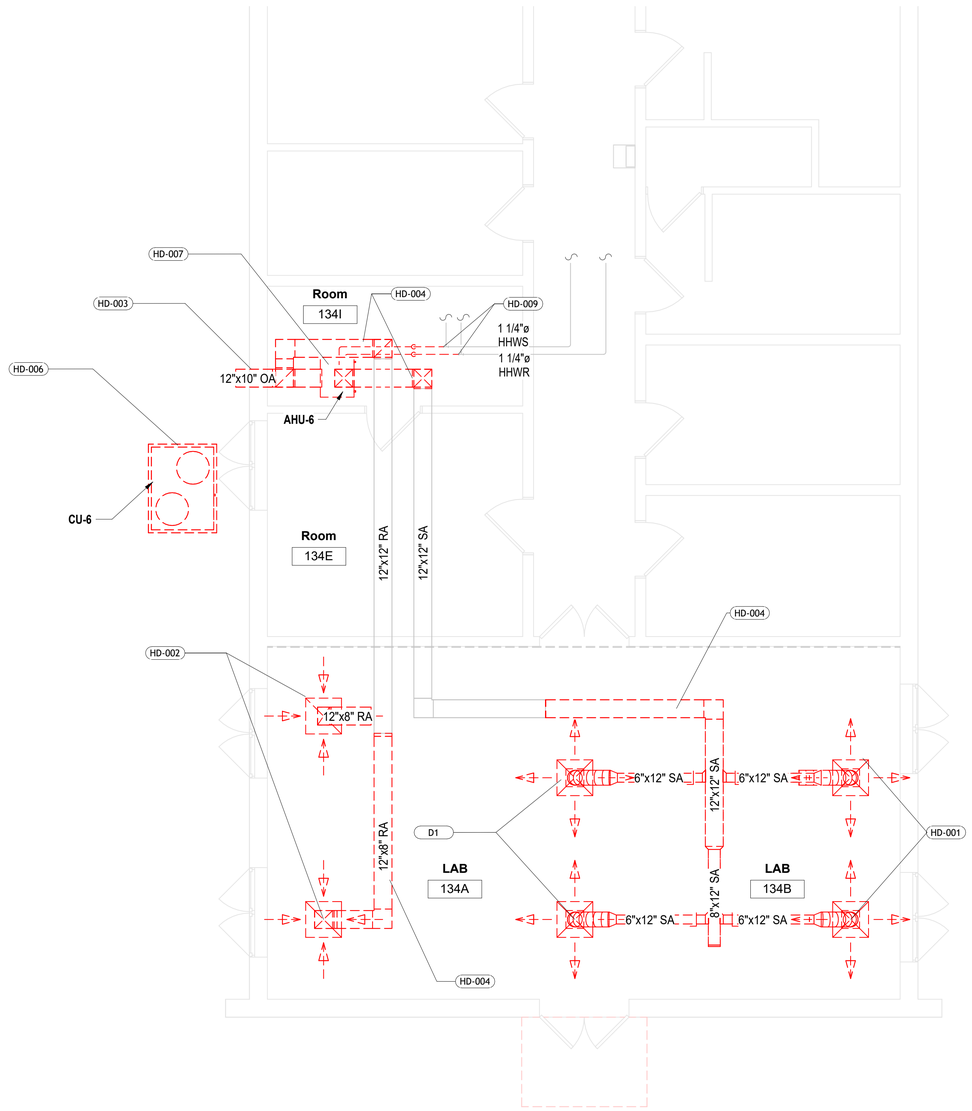
GENERAL NOTES:

1. FIELD VERIFY SIZE, MATERIAL, AND LOCATION OF REQUIRED ELEMENTS.

KEYNOTES:

HD-001	REMOVE SUPPLY GRILLE
HD-002	REMOVE RETURN DIFFUSER
HD-003	REMOVE OUTDOOR AIR DUCTWORK AND ASSOCIATED LOUVER
HD-004	REMOVE DUCTWORK
HD-006	REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REGRIGERANT LINE SET
HD-007	REMOVE EXISTING AIR HANDLING AND ASSOCIATED DUCTWORK AS SHOWN
HD-009	REMOVE HYDRONIC PIPING AND ACCOMPANYING COMPONENTS AS SHOWN. CAP REMAINING PIPING AS CLOSE TO NEXT BRANCH AS POSSIBLE



M1 FIRST FLOOR LAB MECHANICAL DEMOLITION

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

2' 4' 8' 12'
1/4" = 1'-0"

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
LAB MECHANICAL DEMO PLAN

M101

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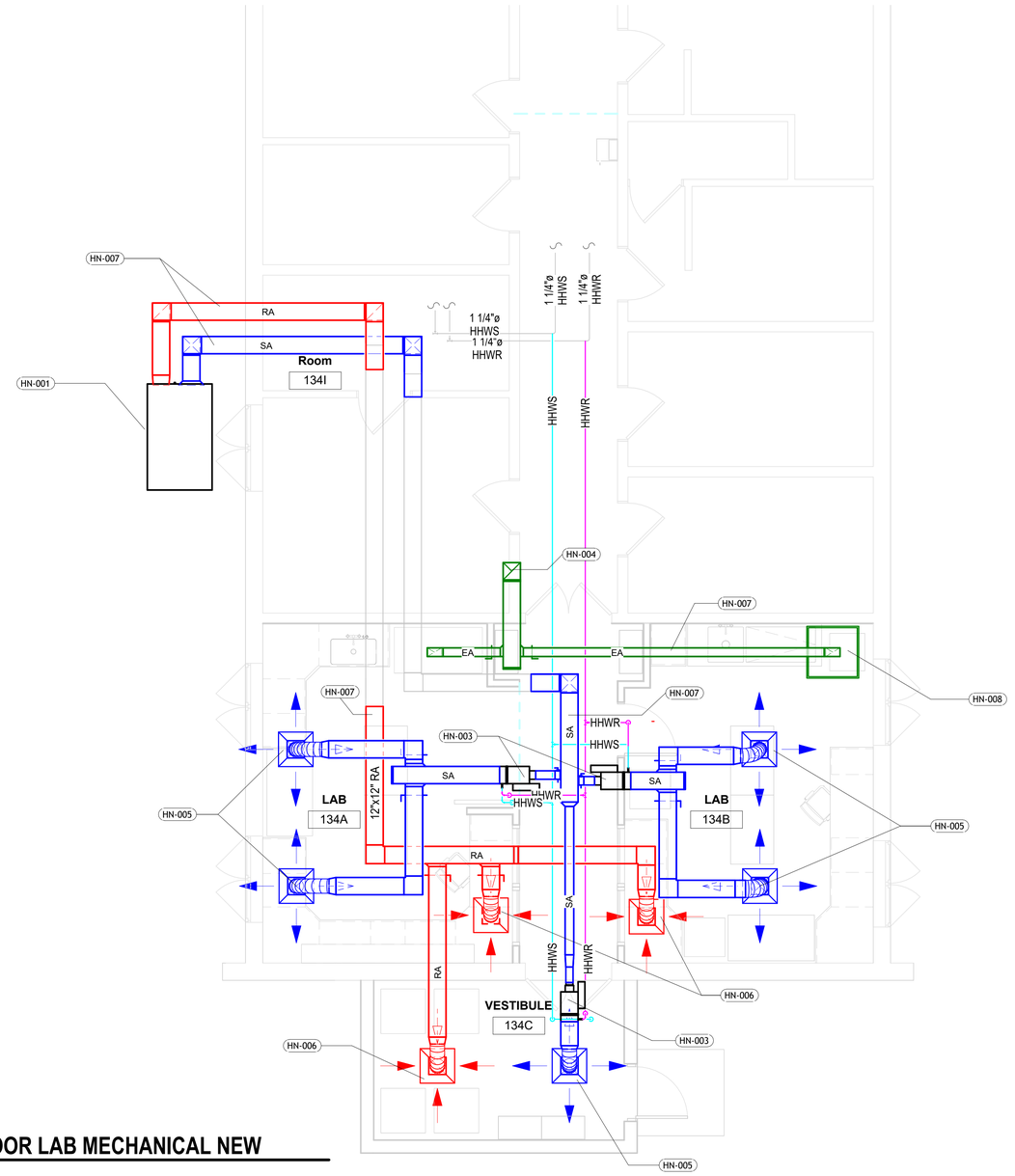
GENERAL NOTES:

1. PERFORM HEAT AND COOLING LOAD CALCULATIONS IN ACCORDANCE WITH ASHRAE/ACCA STANDARD 183.
2. ENSURE THAT VENTILATION MEETS MINIMUM OUTDOOR AIR AND EXHAUST RATES AS DETAILED IN ASHRAE 62.1.
3. SIZE EQUIPMENT, DUCTWORK, AND PIPING BASED ON LOAD CALCULATIONS AND VENTILATION REQUIREMENTS.
4. LAB 134B MUST BE NEGATIVELY PRESSURIZED RELATIVE TO THE ADJACENT BUILDING SPACES AND LAB 134A MUST BE NEGATIVELY PRESSURIZED RELATIVE TO ROOM 134B.
5. VERIFY THAT EXISTING HEATING HOT WATER SYSTEM HAS ENOUGH CAPACITY TO SERVE PROPOSED SYSTEM.
6. LOCATION AND SIZING OF EXISTING DUCTWORK, EQUIPMENT, AND PIPING MUST BE FIELD VERIFIED.
7. COORDINATE WITH STRUCTURAL ENGINEER TO VERIFY LAB EXHAUST FAN PLACEMENT ON ROOF.
8. COORDINATE FINAL POSITIONING OF DIFFUSERS AND REGISTERS WITH OTHER DISCIPLINES AND FUME HOOD REQUIREMENTS.

KEYNOTES:

HN-001	INSTALL NEW VAV PACKAGE UNIT HEAT PUMP
HN-003	INSTALL VAV WITH HOT WATER REHEAT AND ASSOCIATED HYDRONIC PIPING
HN-004	INSTALL LAB EXHAUST FAN ON ROOF CURB WITH EXHAUST DICHARGING 6 FEET ABOVE ROOF
HN-005	INSTALL NEW SUPPLY GRILLE AND ASSOCIATED DUCTWORK
HN-006	INSTALL NEW RETURN DIFFUSER AND ASSOCIATED DUCTWORK
HN-007	INSTALL NEW DUCTWORK
HN-008	INSTALL NEW EXHAUST FUME HOOD WITH CLEARANCE FOR STEAM RELEASE



M1 FIRST FLOOR LAB MECHANICAL NEW

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

2' 4' 8' 12'

1/4" = 1'-0"

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
LAB MECHANICAL NEW WORK PLAN

M102

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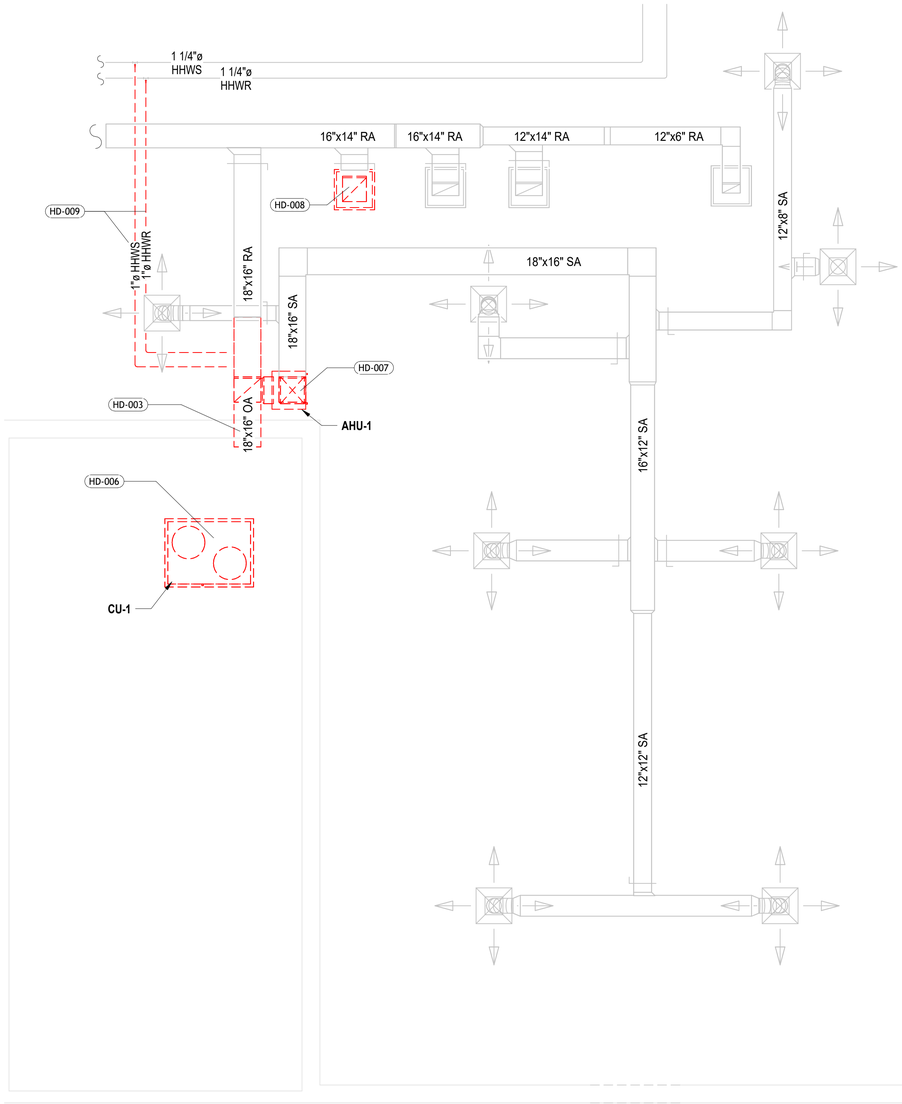
GENERAL NOTES:

1. LOCATION AND SIZING OF EXISTING DUCTWORK, EQUIPMENT, AND PIPING MUST BE FIELD VERIFIED.

KEYNOTES:

HD-003	REMOVE OUTDOOR AIR DUCTWORK AND ASSOCIATED LOUVER
HD-006	REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REGRIGERANT LINE SET
HD-007	REMOVE EXISTING AIR HANDLING AND ASSOCIATED DUCTWORK AS SHOWN
HD-008	REMOVE RETURN GRILLE
HD-009	REMOVE HYDRONIC PIPING AND ACCOMPANYING COMPONENTS AS SHOWN. CAP REMAINING PIPING AS CLOSE TO NEXT BRANCH AS POSSIBLE



M1 FIRST FLOOR LIBRARY MECHANICAL DEMOLITION

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

2' 4' 8' 12'

1/4" = 1'-0"

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
CONFERENCE ROOM
MECHANICAL DEMO PLAN

M103

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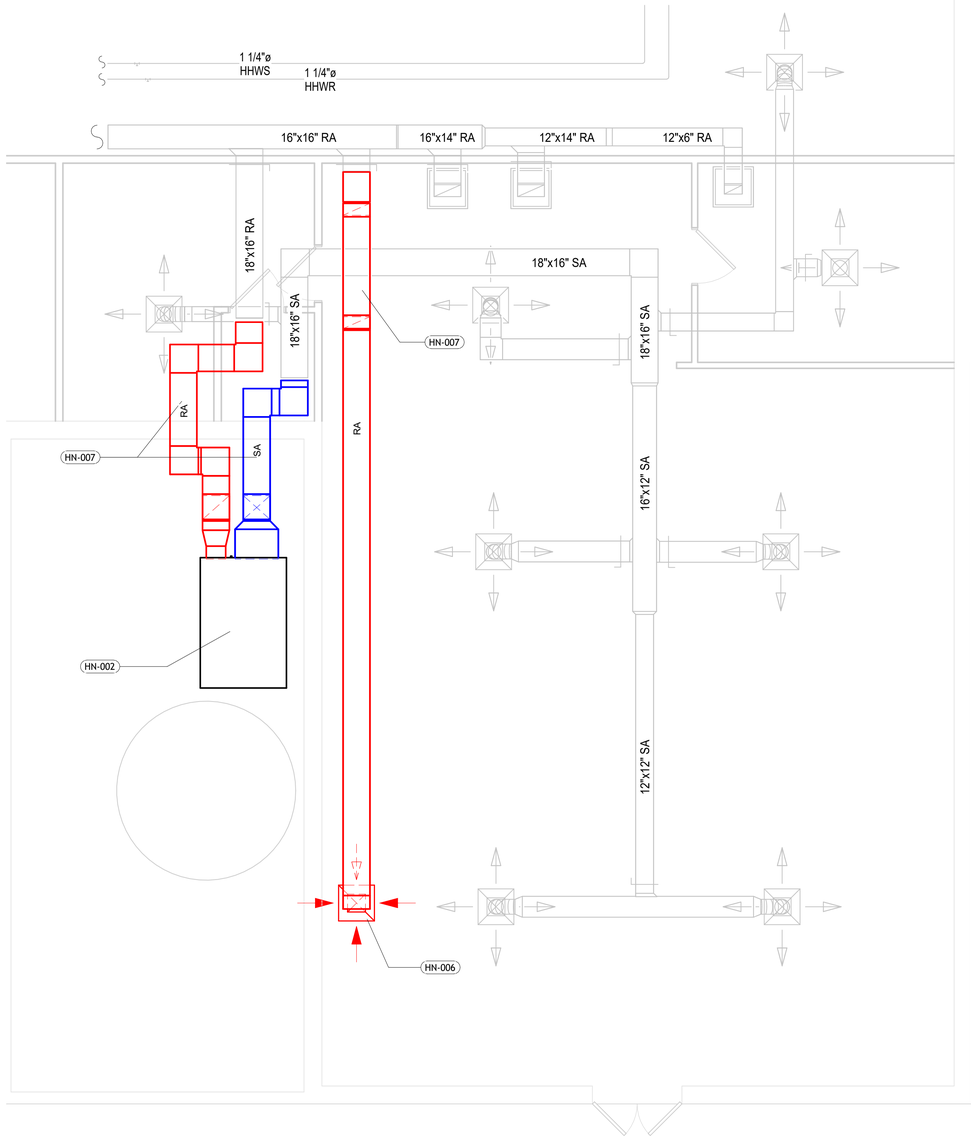
GENERAL NOTES:

1. PERFORM HEAT AND COOLING LOAD CALCULATIONS IN ACCORDANCE WITH ASHRAE/ACCA STANDARD 183.
2. ENSURE THAT VENTILATION MEETS MINIMUM OUTDOOR AIR AND EXHAUST RATES AS DETAILED IN ASHRAE 62.1.
3. SIZE EQUIPMENT, DUCTWORK, AND PIPING BASED ON LOAD CALCULATIONS AND VENTILATION REQUIREMENTS.
4. LOCATION AND SIZING OF EXISTING DUCTWORK, EQUIPMENT, AND PIPING MUST BE FIELD VERIFIED.
5. COORDINATE FINAL POSITIONING OF DIFFUSERS AND REGISTERS WITH OTHER DISCIPLINES.

KEYNOTES:

HN-002	INSTALL NEW PACKAGE UNIT HEAT PUMP
HN-006	INSTALL NEW RETURN DIFFUSER AND ASSOCIATED DUCTWORK
HN-007	INSTALL NEW DUCTWORK



M1 FIRST FLOOR LIBRARY MECHANICAL NEW

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

2' 4' 8' 12'
1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
CONFERENCE ROOM
MECHANICAL NEW
WORK PLAN

M104

PRELIMINARY (NOT FOR CONSTRUCTION)

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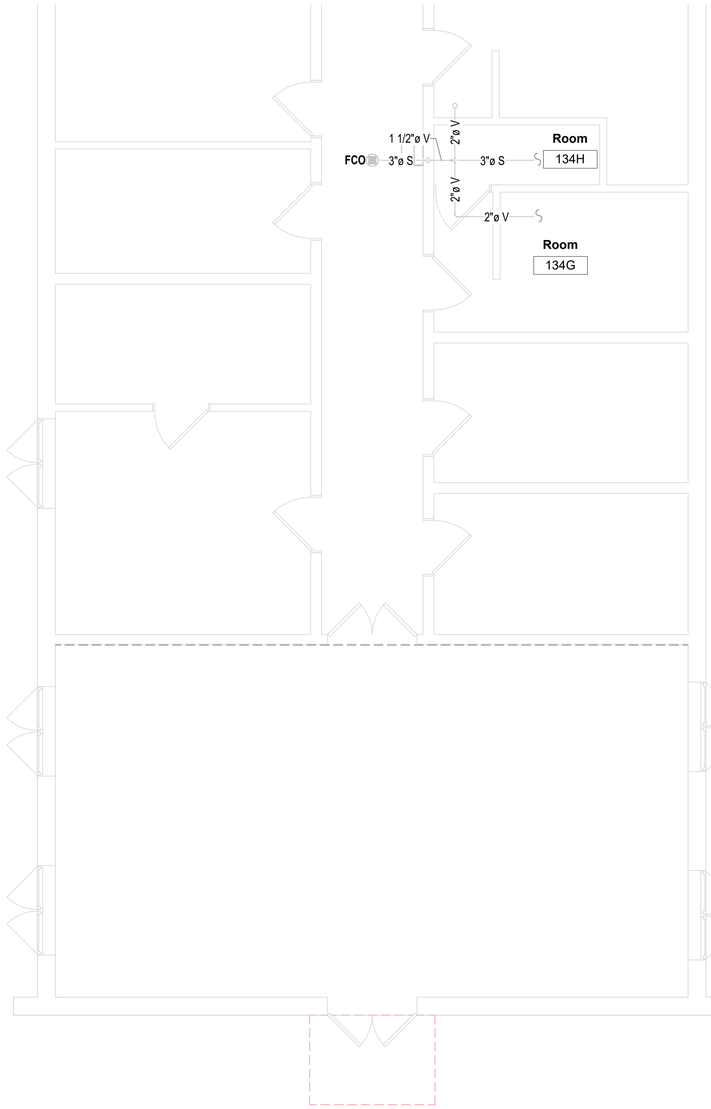
GENERAL NOTES:

1. FIELD VERIFY SIZE, MATERIAL, AND LOCATION OF ALL EXISTING DRAINAGE/WASTE/VENT PIPING AS REQUIRED.
2. NO DEMO REQUIRED FOR SANITARY SEWER OR VENT PIPING.

KEYNOTES:



P1 **FIRST FLOOR DWV DEMOLITION**
SCALE: 1/4" = 1'-0"

2' 4' 8' 12'
1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
LAB SANITARY DEMO PLAN

PL101

PRELIMINARY (NOT FOR CONSTRUCTION)

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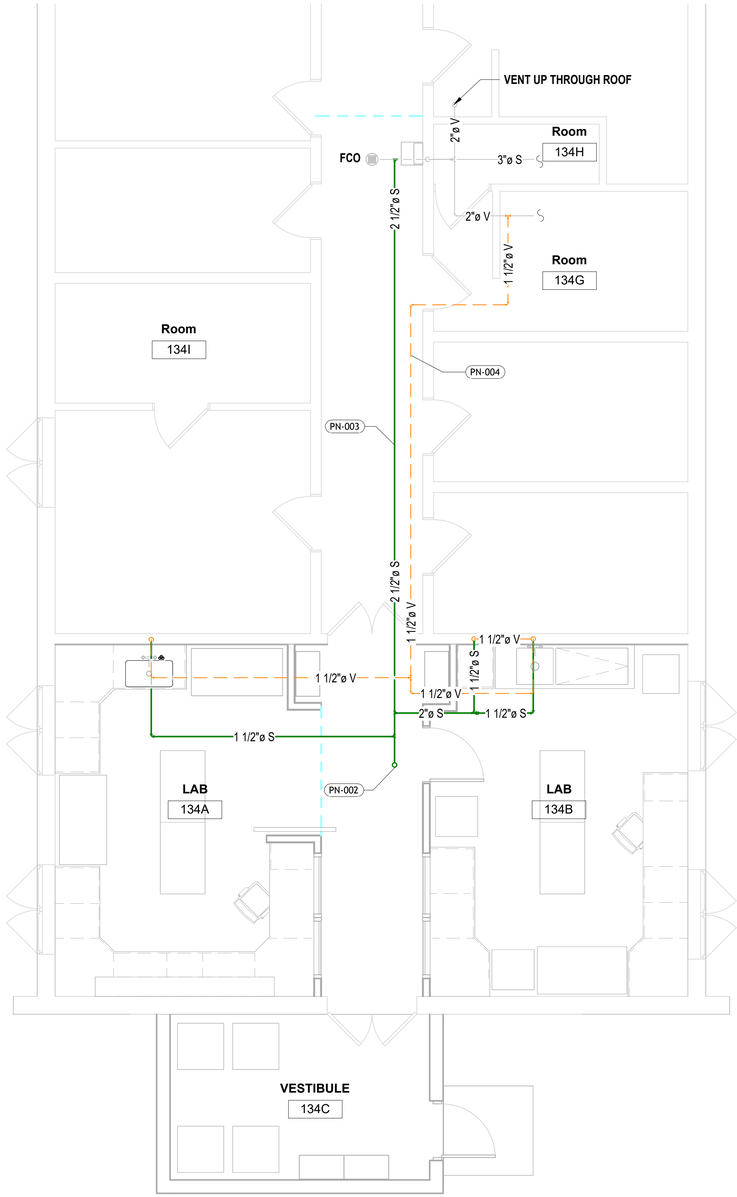
GENERAL NOTES:

1. FIELD VERIFY SIZE, MATERIAL, AND LOCATION OF ALL EXISTING DRAINAGE/WASTE/VENT PIPING AS REQUIRED.
2. VERIFY FIXTURE LOCATIONS FROM ARCHITECTURAL DRAWINGS.
3. ENSURE ALL SANITARY AND VENTING PIPING IS SLOPED IN ACCORDANCE WITH APPLICABLE BUILDING CODES.

KEYNOTES:

PN-002	INSTALL NEW FCO FOR SANITARY PIPING
PN-003	INSTALL NEW SANITARY PIPING
PN-004	INSTALL NEW SANITARY VENT PIPING

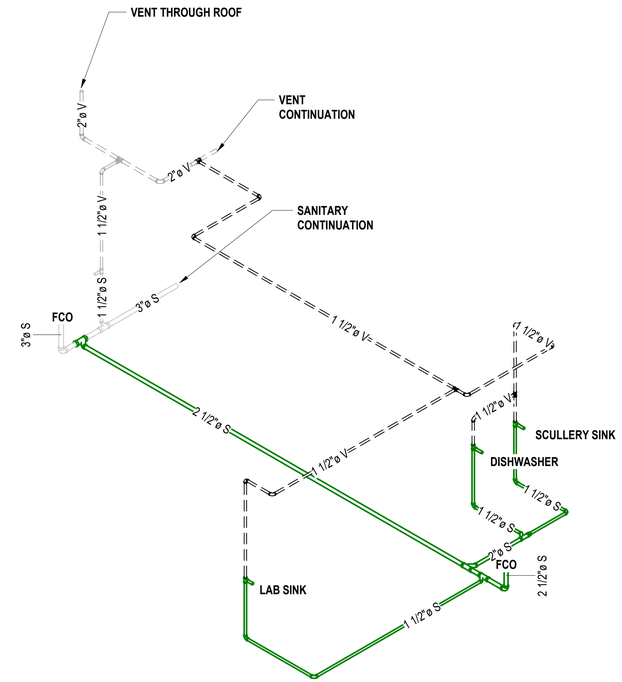


P1 FIRST FLOOR DWV NEW

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

2' 4' 8' 12'

1/4" = 1'-0"



P2 DWV ISOMETRIC DIAGRAM

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

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026
SOLICITATION:	DATE:

DRAWING TITLE:
LAB SANITARY NEW PLAN

PL102

PRELIMINARY (NOT FOR CONSTRUCTION)

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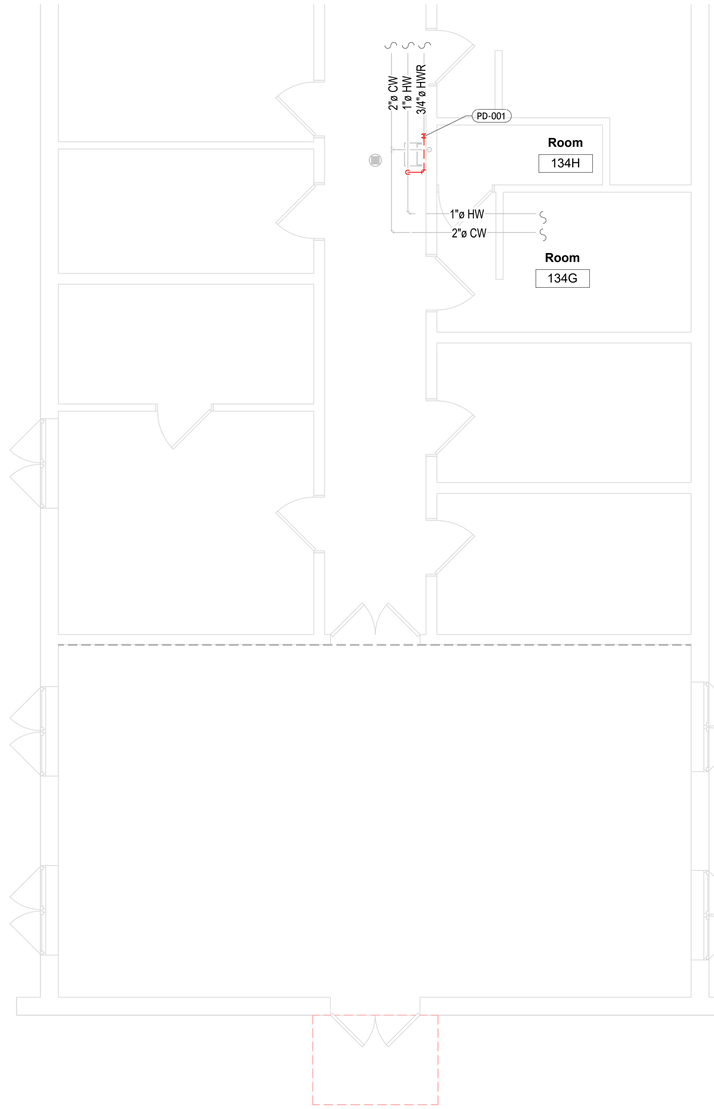
GENERAL NOTES:

1. FIELD VERIFY SIZE, MATERIAL, AND LOCATION OF ALL EXISTING DOMESTIC WATER PIPES AS REQUIRED.

KEYNOTES:

PD-001 REMOVE EXISTING DOMESTIC HOT WATER LOOP AND CAP LINE TO DOMESTIC HOT WATER AS CLOSE TO MAIN AS POSSIBLE



P1 **FIRST FLOOR LAB DOMESTIC WATER DEMOLITION**
SCALE: 1/4" = 1'-0"

2' 4' 8' 12'
1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
LAB DOMESTIC WATER DEMO PLAN

PL103

PRELIMINARY (NOT FOR CONSTRUCTION)

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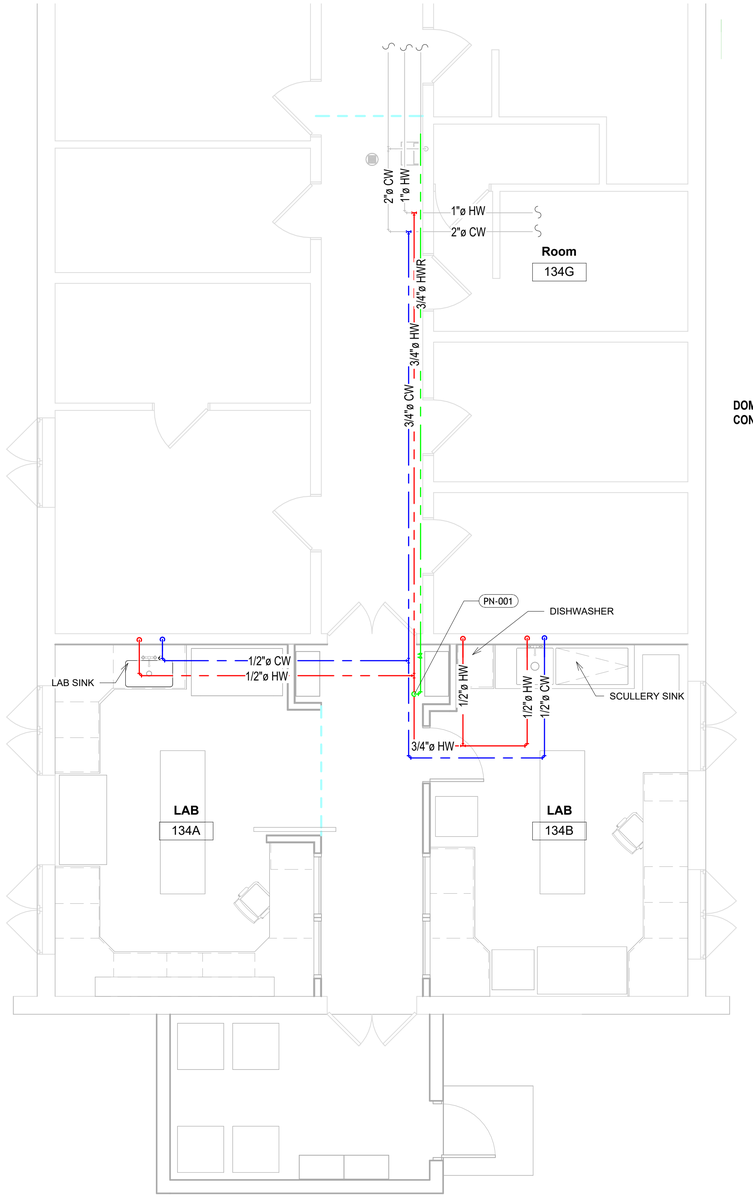
GENERAL NOTES:

1. FIELD VERIFY SIZE, MATERIAL, AND LOCATION OF ALL EXISTING DOMESTIC WATER PIPES AS REQUIRED.
2. VERIFY FIXTURE LOCATIONS FROM ARCHITECTURAL DRAWINGS.

KEYNOTES:

PN-001 INSTALL NEW DOMESTIC HOT WATER RETURN LOOP WITH NEW CIRCUIT SETTER VALVE

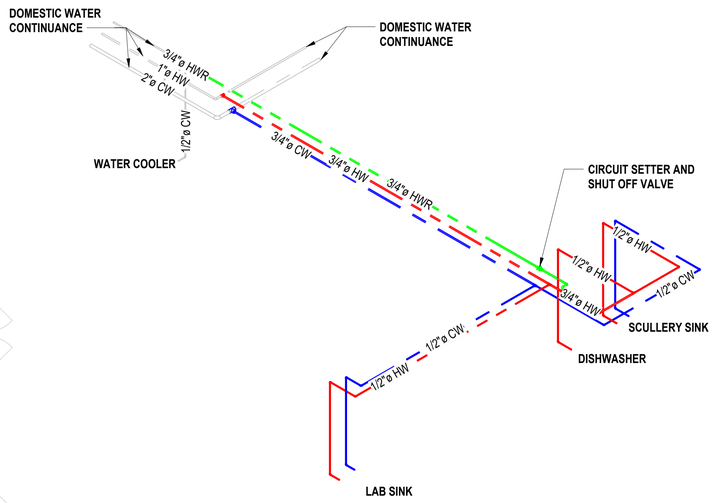


P1 **FIRST FLOOR LAB DOMESTIC WATER NEW**

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

2' 4' 8' 12'

1/4" = 1'-0"



P2 **LAB DOMESTIC WATER ISOMETRIC DIAGRAM**

SCALE:

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT

904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	P0459
DRAWN BY:	AW
CHECKED BY:	
SCALE:	1/4" = 1'-0"
ISSUE DATE:	5/8/2026

SOLICITATION:	DATE:

DRAWING TITLE:
LAB DOMESTIC WATER NEW PLAN

PL104

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2'X2' LAY-IN LIGHT FIXTURE TO BE REMOVED

2'X4' LAY-IN LIGHT FIXTURE TO BE REMOVED

2'X4' LAY-IN LIGHT FIXTURE, UNSWITCHED, ON EMERGENCY POWER TO BE REMOVED

1'X4' LAY-IN LIGHT FIXTURE TO BE REMOVED

1'X4' LAY-IN LIGHT FIXTURE, UNSWITCHED, ON EMERGENCY POWER TO BE REMOVED

LIGHTED EXIT SIGN FIXTURE TO BE REMOVED

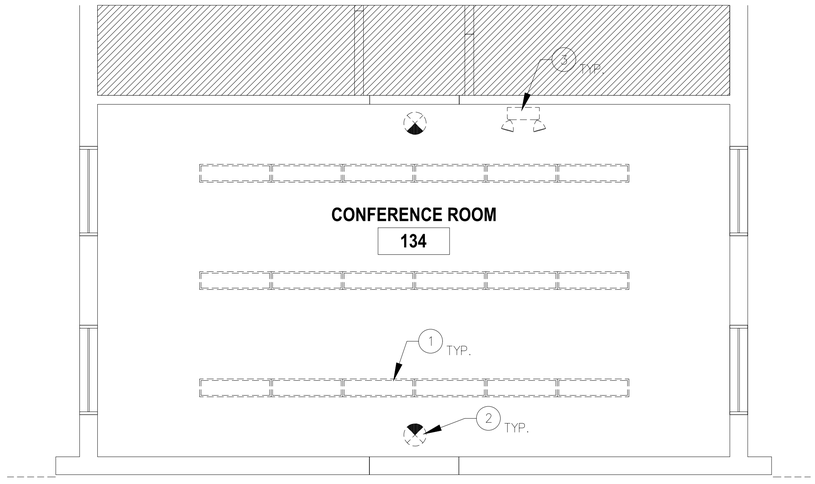
EMERGENCY LIGHT W/ BATTERY TO BE REMOVED

ETR EXISTING TO REMAIN

LEGEND	3
	NO SCALE

1. REMOVE EXISTING LIGHT FIXTURE. REMOVE WIRE AND CONDUIT BACK TO SOURCE AND SAFELY TERMINATE. SALVAGE LIGHTING CIRCUIT FOR RE-USE.
2. REMOVE EMERGENCY EXIT FIXTURE. REMOVE WIRE AND CONDUIT BACK TO SOURCE AND SAFELY TERMINATE. SALVAGE LIGHTING CIRCUIT FOR RE-USE.
3. REMOVE WALL-MOUNTED LIGHT FIXTURE. REMOVE WIRE AND CONDUIT BACK TO SOURCE AND SAFELY TERMINATE. SALVAGE LIGHTING CIRCUIT FOR RE-USE.

KEYED NOTES	2
	NO SCALE



0' 1' 2' 4' 8'
1/4" = 1'-0"

N

DRAWING LEGEND:

AREA NOT IN SCOPE

PARTIAL LIGHTING PLAN - DEMOLITION	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH MORRIS STREET, OXFORD, MD 21654

PROJECT NO.	
DRAWN BY:	
CHECKED BY:	
SCALE: AS NOTED	
ISSUED FOR:	
SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL LIGHTING PLAN
DEMOLITION

ED101

2'X2' LAY-IN LIGHT FIXTURE

2'X4' LAY-IN LIGHT FIXTURE

2'X4' LAY-IN LIGHT FIXTURE, UNSWITCHED ON EMERGENCY POWER

CEILING-MOUNTED LIGHTED EXIT SIGN FIXTURE

CEILING-MOUNTED LIGHTED EXIT SIGN, DIRECTIONAL FIXTURE

EMERGENCY LIGHT W/ BATTERY

ETR EXISTING TO REMAIN

(N) NEW

LEGEND — 5

NO SCALE

TAG	DESCRIPTION
A	2'X4' LED LAY-IN TYPE TROFFER FIXTURE LITHONIA LIGHTING # 2BLT4-40L-ADP-EZ1-LP840
B	2'X2' LED LAY-IN TYPE TROFFER FIXTURE LITHONIA LIGHTING #2BLT2-40L-ADP-EZ1-LP840
C	1'X4' SURFACE-MOUNTED LED FIXTURE WITH WRAP AROUND LENS LITHONIA LIGHTING #FML4W 48 AL06 8SWW2 TD
D	CEILING-MOUNTED LED LIGHTED EXIT SIGN COMPASS LIGHT FIXTURE #CER WHITE PLASTIC WITH RED LETTERS
E	WALL-MOUNTED EMERGENCY FIXTURE COMPASS LIGHT FIXTURE #CU2
F	SURFACE-MOUNTED LED CLOSET FIXTURE WITH PIR SENSOR LITHONIA LIGHTING #FMMCL 840 PIR M4
G	EXTERIOR COMMERCIAL GRADE WALL PACK LIGHT FIXTURE WITH PHOTOCELL ULINE #H-9996 7,000 LUMENS

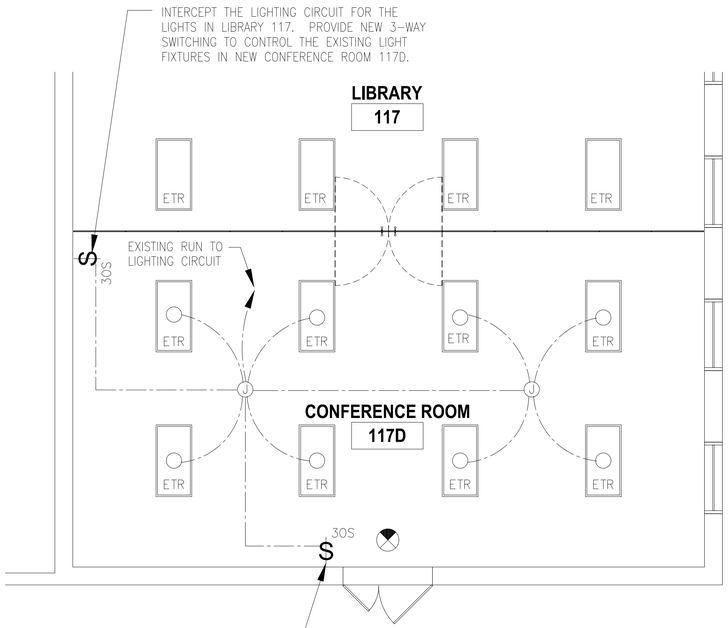
LIGHTING FIXTURE SCHEDULE — 4

NO SCALE

1. ELECTRICAL CONTRACTOR SHALL INSTALL NEW SWITCHES AND OTHER LIGHTING DEVICES AS SPECIFIED.
2. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ALL LIGHTING LOCATIONS.
3. ALL ELECTRICAL COMPONENTS INCLUDING: FIRE/SMOKE DETECTION AND ALARM SYSTEMS SHALL BE INSTALLED, WIRED, AND MODIFIED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES (INCLUDING ADA) AS REQUIRED BY THE NEW WORK PLANS.
4. SWITCHING INDICATES LOCATION ONLY, NOT WIRING OR CIRCUITRY. RE-USE EXISTING LIGHTING CIRCUITS.
5. ALL SWITCHES, OCCUPANCY SENSORS, AND FAN CONTROLS SHALL BE MOUNTED AT 48-INCHES AFF AND MIN. 4-INCHES FROM DOOR FRAMES, CORNERS, ETC. UNLESS OTHERWISE NOTED. SWITCHES INDICATED AS ADJACENT SHALL BE GANGED. SWITCH PLATES THROUGHOUT SHALL MATCH THE BUILDING STANDARD.
6. EMERGENCY LIGHTING AND LIGHTED EXIT SIGNS SHALL BE BATTERY BACKUP TYPE. THESE ITEMS SHALL BE CIRCUITED THE SAME AS THE GENERAL LIGHTING IN THE AREA SERVED, CONNECTED AHEAD OF ANY LOCAL SWITCHES/CONTROLS. EMERGENCY FIXTURES (E.G., EXIT SIGNS, EMERGENCY WALL PACK FIXTURES, NIGHT LIGHT FIXTURES, ETC.) SHALL BE UNSWITCHED.
7. LIGHTING CONTROLS SHALL BE INSTALLED PER THE DRAWINGS. OCCUPANCY SENSORS SHALL BE EQUIPPED WITH MANUAL OVERRIDE AND BE INSTALLED OR BE INTEGRAL TO THE SENSOR DEVICE.
8. ELECTRICAL CONTRACTOR SHALL FOLLOW EXISTING EMERGENCY LIGHTING LAYOUT FOR CONNECTION OF NEW FIXTURES.

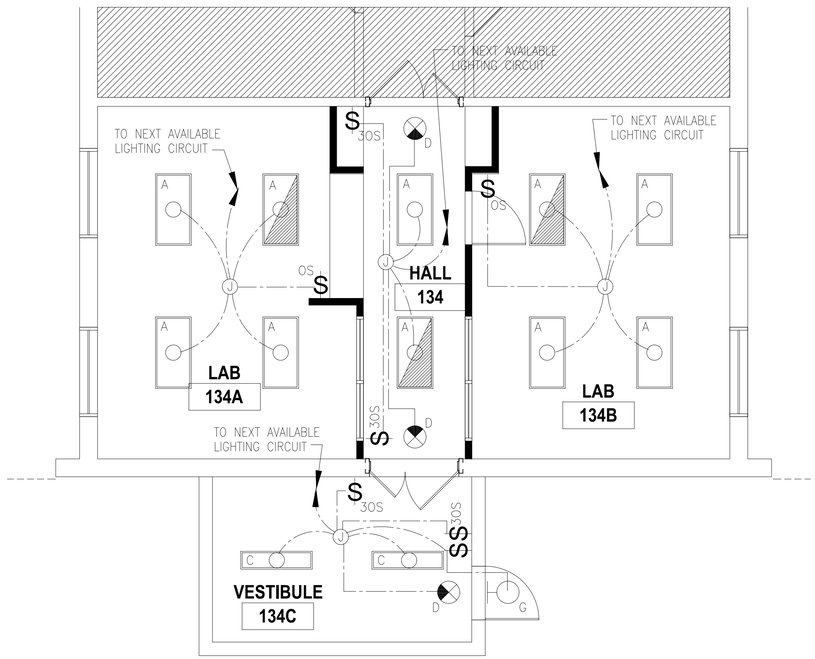
GENERAL NOTES — 3

NO SCALE



PARTIAL REFLECTED CEILING PLAN - NEW WORK — 2

CONFERENCE ROOM 117D — 1/4" = 1'-0"



DRAWING LEGEND:

AREA NOT IN SCOPE

0' 1' 2' 4' 8'

1/4" = 1'-0"

N

PARTIAL LIGHTING PLAN - NEW WORK — 1

1/4" = 1'-0"

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SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL LIGHTING PLAN
NEW WORK

EL101

⊕	DUPLEX OUTLET
⊕	QUADRAPLEX OUTLET
▽	DATA OUTLET – SINGLE GANG METAL ELECTRICAL RING
+48	DEVICE INSTALLED 48 IN. AFF
+64	DEVICE INSTALLED 64 IN. AFF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
ΦV	RECESSED TV/DATA BOX FOR MONITOR – ARLINGTON #TVBS507, PROVIDE BLANK COVER PLATE #TVFR3C FOR LOCATIONS WHERE MONITORS WILL NOT BE INSTALLED
EF–1 M	EXHAUST FAN
	FIRE ALARM HORN/STROBE DEVICE
PS	FIRE ALARM PULL STATION
	FIRE ALARM HORN DEVICE
W	4" PVC ELECTRICAL RING BOX IN ACT CEILING TILE (FOR WASP)
C	4"X4" ELECTRICAL RING FOR CUSTOMER'S SECURITY CAMERA
R	BORE THROUGH DOOR FRAME FOR CUSTOMER'S DOORBELL TYPE SECURITY CAMERA

LEGEND	3
	NO SCALE

1. ELECTRICAL CONTRACTOR SHALL INSTALL NEW SWITCHES AND OTHER LIGHTING DEVICES AS SPECIFIED.
2. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ALL LIGHTING LOCATIONS.
3. ALL ELECTRICAL COMPONENTS INCLUDING: FIRE/SMOKE DETECTION AND ALARM SYSTEMS SHALL BE INSTALLED, WIRED, AND MODIFIED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES (INCLUDING ADA) AS REQUIRED BY THE NEW WORK PLANS.
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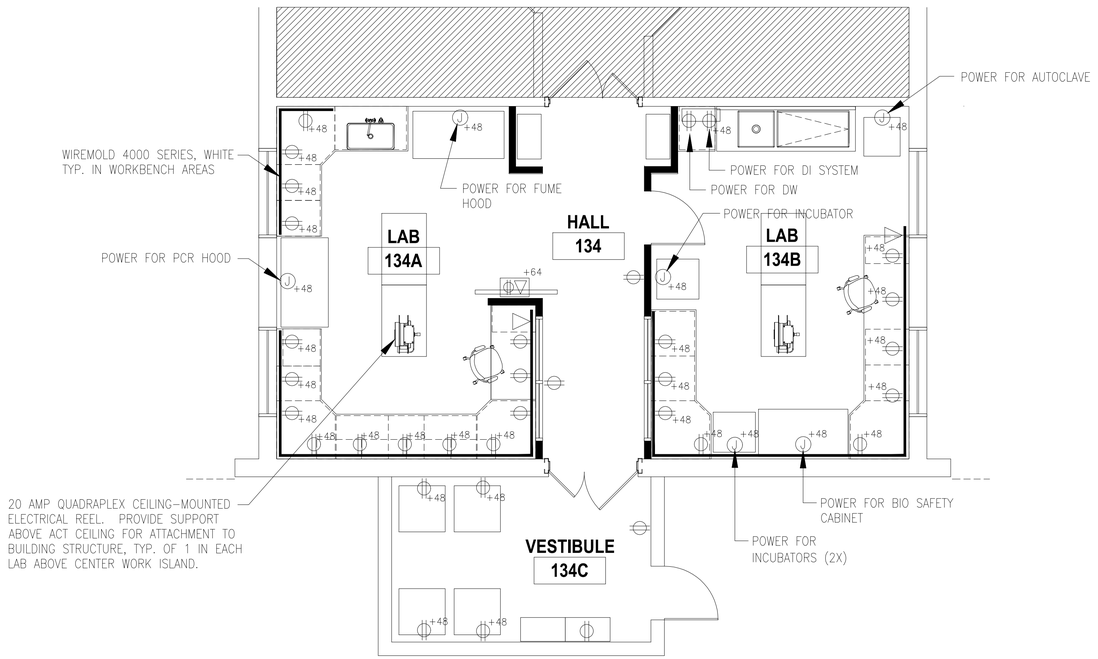
8. ELECTRICAL CONTRACTOR SHALL FOLLOW EXISTING EMERGENCY LIGHTING LAYOUT FOR CONNECTION OF NEW FIXTURES.

GENERAL NOTES	2
	NO SCALE



DRAWING LEGEND:

AREA NOT IN SCOPE

1/4" = 1'-0" 0' 1' 2' 4' 8'

N

PARTIAL POWER/DATA PLAN - NEW WORK	1
	1/4" = 1'-0"

NCCOS COOPERATIVE LABORATORY
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PROJECT NO.	
DRAWN BY:	
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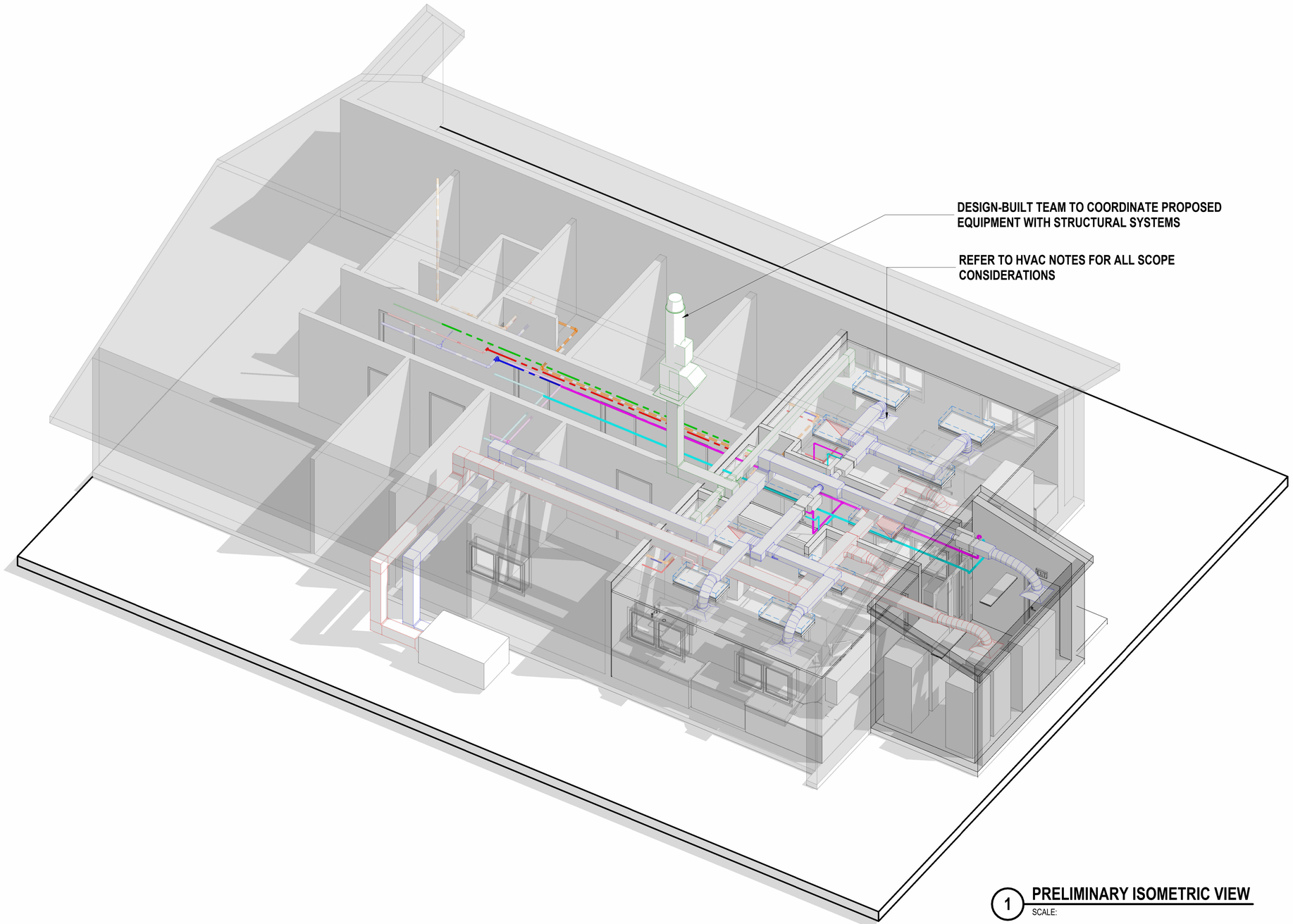
SOLICITATION	XX/XX/XX

DRAWING TITLE:
PARTIAL POWER/DATA PLAN
NEW WORK

EP101



1 **PRELIMINARY ISOMETRIC VIEW**
SCALE:

PRELIMINARY (NOT FOR CONSTRUCTION)

NCCOS COOPERATIVE LABORATORY
LABORATORY RENOVATION PROJECT
904 SOUTH. MORRIS STREET, OXFORD, MD 21654

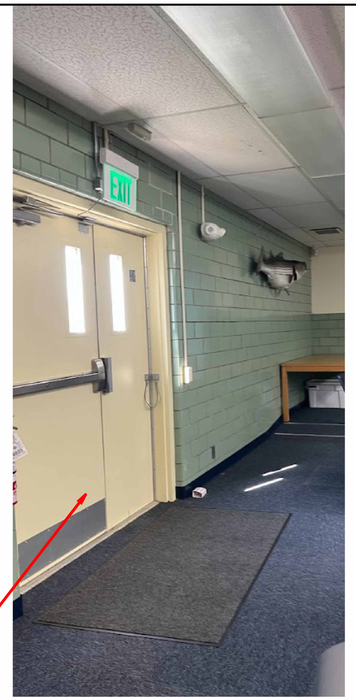
PROJECT NO.	P0459 NOS
DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
ISSUE DATE:	

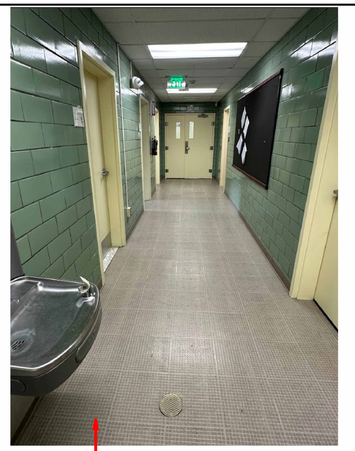
SOLICITATION:	DATE:

DRAWING TITLE:
ISOMETRICS VIEWS

A901

5/8/2026 4:17:18 PM Autodesk Docs://21CNAAJ0027 - NOS Oxford MD BSL 2/21CNAAJ0027 - NOS Oxford MD BSL 2.rvt



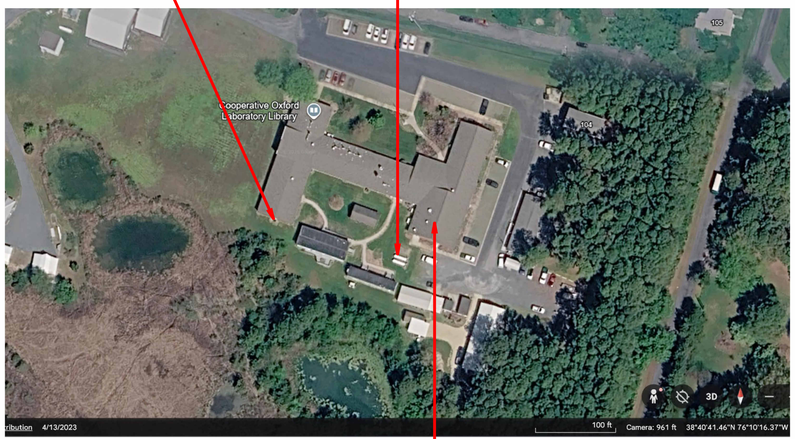


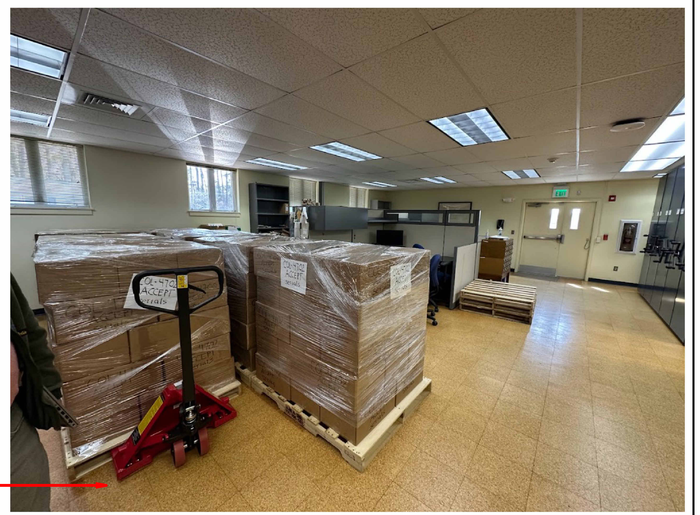
TO PROPOSED LAB AND FROM PROPOSED LAB TO HALL

EXISTING EAST AND WEST ELEVATIONS AT PROPOSED LAB

EXTERIOR DOORS FROM PROPOSED LAB

PROPANE TANKS LOCATION





PROPOSED TRANSFORMATION FROM LIBRARY TO CONFERENCE ROOM

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PROJECT NO.	P0459 NOS
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SCALE:	
ISSUE DATE:	

SOLICITATION:	DATE:

DRAWING TITLE:
PHOTOGRAPHS

A902

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