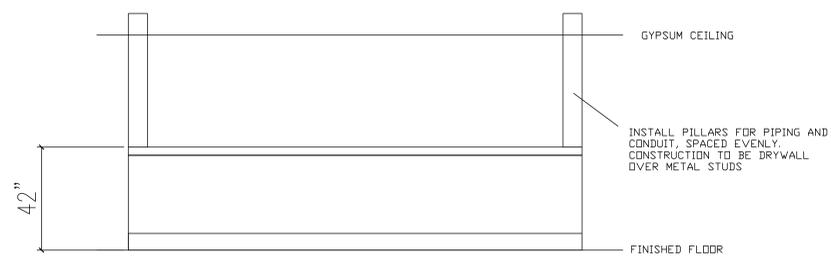
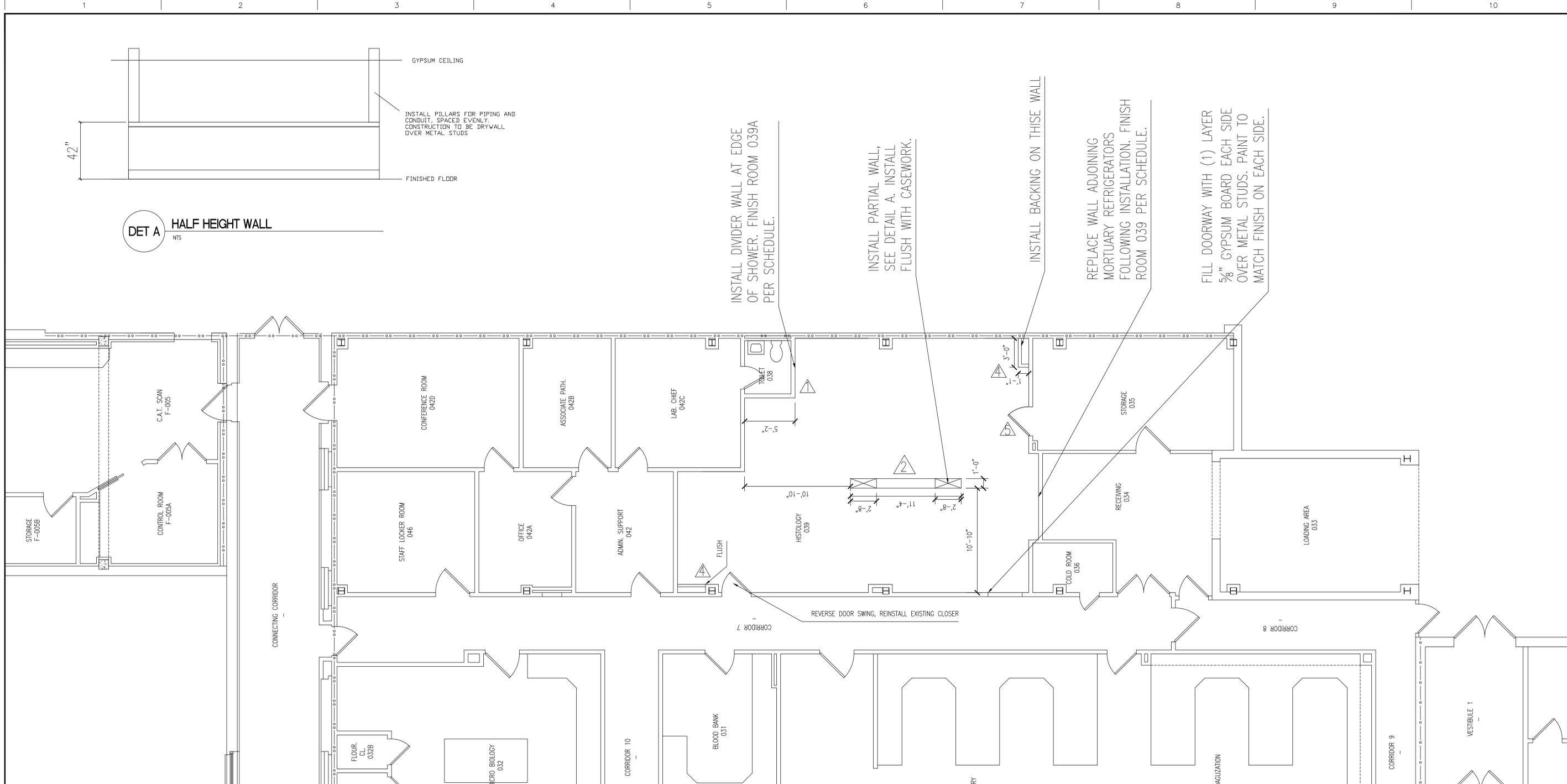


three eighths inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



DET A HALF HEIGHT WALL
 NIS



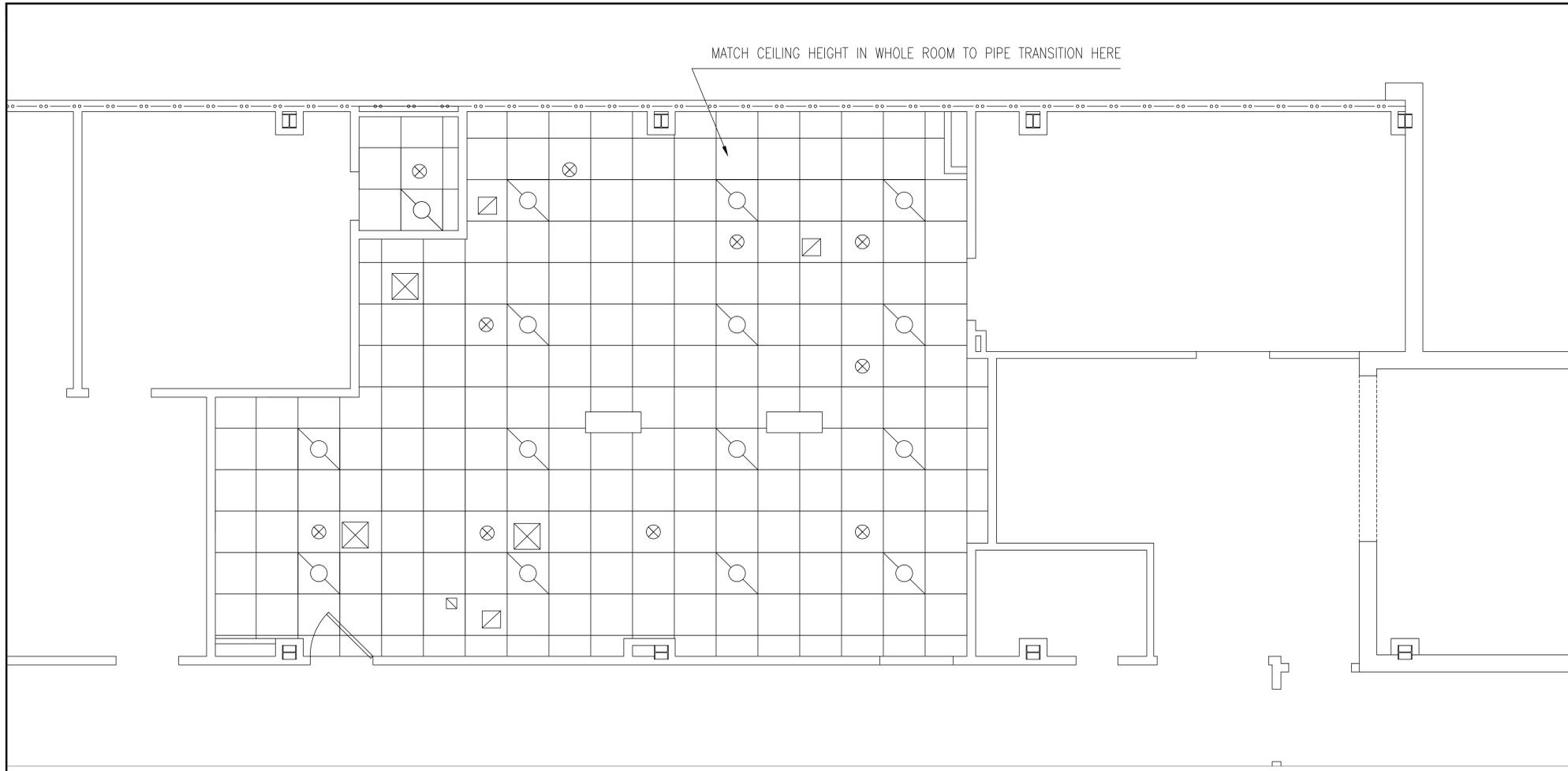
- NOTES:**
1. INSTALL WALL, (1) LAYER $\frac{5}{8}$ " GYPSUM WALL BOARD EACH SIDE PARALLEL TO $3\frac{5}{8}$ " 22 GAUGE METAL STUDS 16" OC, FROM FINISH FLOOR TO CEILING DECK. FINISH PER SCHEDULE. SEE SECTION A1 ON PAGE AS-15-2.
 2. INSTALL WALL, (1) LAYER $\frac{5}{8}$ " GYPSUM WALL BOARD EACH SIDE PARALLEL TO $3\frac{5}{8}$ " 22 GAUGE METAL STUDS 16" OC, FROM FINISH FLOOR TO 42" AFF. FINISH PER SCHEDULE. SEE SECTION A2 ON PAGE AS-15-2.
 3. CEILING IN ALL ROOMS EXCEPT 035 TO BE 8'-0" AFF. FINISH PER SCHEDULE. CEILING IN ROOM 035 TO BE OPEN.
 4. ENCLOSE NON-RATED CHASE WITH (1) LAYER $\frac{5}{8}$ " GYPSUM WALL BOARD PARALLEL TO $3\frac{5}{8}$ " 22 GAUGE METAL STUDS 16" OC, FROM FINISH FLOOR TO 6" ABOVE FINISHED CEILING ON ROOM SIDE ONLY. FINISH PER SCHEDULE.

5. INSTALL NEW DOOR, SIZE TO MATCH EXISTING. DOOR TO BE 45 MINUTE RATED, $1\frac{3}{4}$ " SOLID WOOD. INCLUDE CLOSER. DOOR HARDWARE TO BE CORBIN RUSSWIN CL-3357-NZD-626-CL OR EQUAL.

CONSULTANTS:		ARCHITECT/ENGINEERS:		NORTH:		APPROVED:		Drawing Title		Project Title		Project Number	
						APPROVED:		CONSTRUCTION GROUND FLOOR SE-1		LAB RENOVATION		620A4-10-238	
						APPROVED:						Building(s) Number	
						APPROVED:		Approved Director, VAHVHCS		Location		15E	
						APPROVED:		Approved Chief of Engineering		CASTLE POINT, NEW YORK		Drawing Number	
UPDATED FROM PRELIM REVIEW Revisions:		9-7-2010 Date:								Date 9-7-10		Checked Drawn JEF	
												AS-15-1 SHEET 2 OF 21	



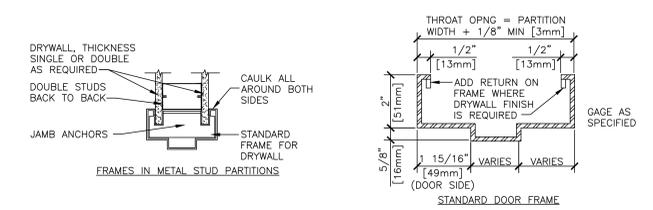
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



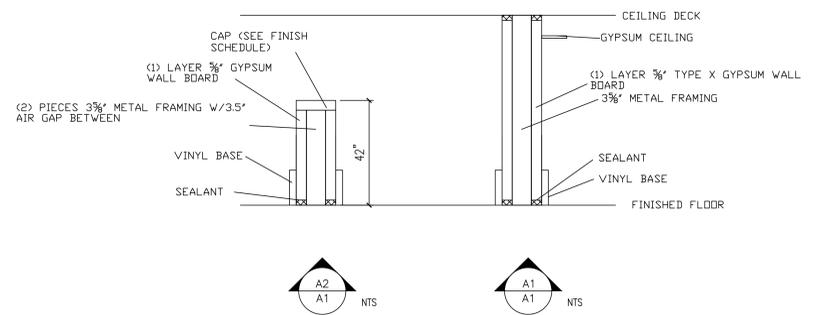
REFLECTED CEILING PLAN
 3/8" = 1'

LEGEND

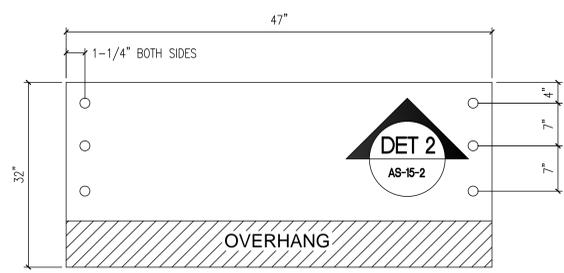
- PENDANT SPRINKLER HEAD
- 2'X2' LIGHT FIXTURE, TYPE A
- CEILING EXHAUST VENT
- CEILING SUPPLY VENT



INTERIOR DOOR FRAMES
 NTS

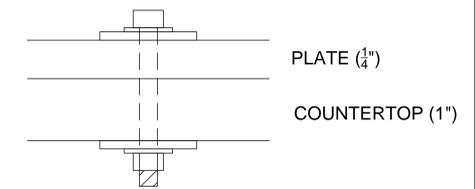


A2 NTS
A1 NTS



DET 1 PLATE TOP VIEW
F-15-1 NTS

- NOTES:**
1. ROUND CORNERS AND EDGES $\frac{1}{8}$ " OR LARGER RADIUS. DEBURR COMPLETE.
 2. MATERIAL TO BE $\frac{1}{4}$ " THICK STEEL.
 3. SECURE TO TABLE W/ (6) GRADE 5, $\frac{1}{2}$ "X20-2" BOLTS AS SHOWN IN THIS DETAIL AND DETAIL 2.

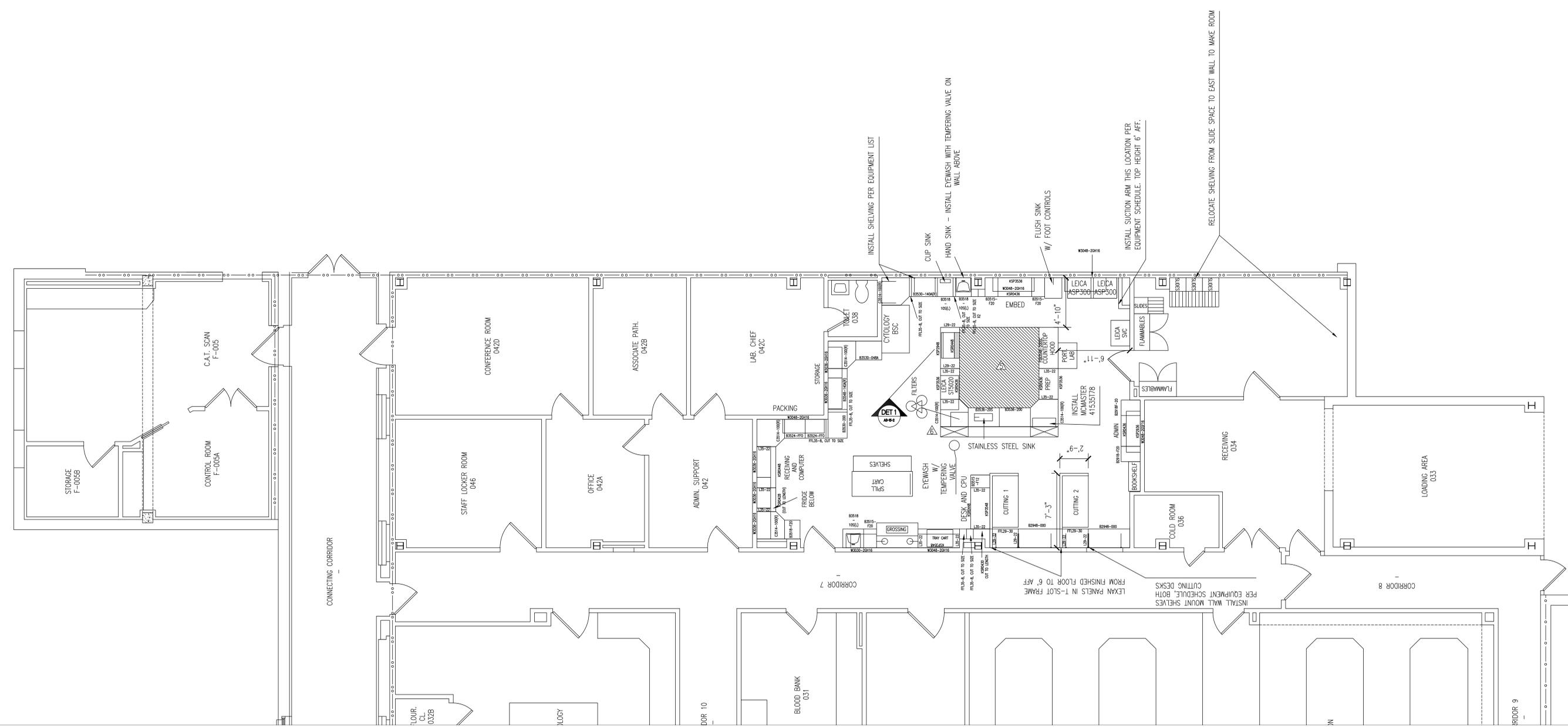


DET 2 BOLT INSTALLATION
AS-15-2 NTS

- NOTES:**
1. INSTALL EACH BOLT WITH 1" OD AND 2" OD WASHERS TOP AND BOTTOM AS SHOWN.
 2. SECURE ALL NUTS WITH LOCTITE 243.

CONSULTANTS: UPDATED FROM PRELIM REVIEW Revisions:		ARCHITECT/ENGINEERS: 9-7-2010 Date:		NORTH: 		APPROVED: APPROVED: APPROVED: APPROVED: APPROVED:		Drawing Title CONSTRUCTION GROUND FLOOR 10E Approved: Director, VA/HCS Approved: Chief of Engineering		Project Title LAB RENOVATION Location CASTLE POINT, NEW YORK Date 9-7-10		Project Number 620A4-10-238 Building(s) Number 15E Drawing Number AS-15-2 SHEET 3 OF 21		Engineering Service Department of Veterans Affairs	
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three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



EQUIPMENT NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND RE-CERTIFICATION OF LAMINAR FLOW STATION, THE GROSSING STATION, THE CYTOLOGY STATION, AND THE STAINING WATER FILTERS. INSTALLATION MUST BE BY OEM APPROVED PERSONNEL. THIS EQUIPMENT WILL BE PROVIDED BY THE VA.
2. CONTRACTOR IS RESPONSIBLE FOR PURCHASE, SUPPLY, INSTALLATION, AND CERTIFICATION OF PREP HOOD SHOWN IN "HORSESHOE" AREA. INSTALLATION MUST BE BY OEM APPROVED PERSONNEL.
3. CONTRACTOR IS RESPONSIBLE FOR PURCHASE, SUPPLY, AND INSTALLATION OF ALL CASEWORK.

GENERAL NOTES:

1. ALL CASEWORK TO BE METAL. ALL COUNTERTOP TO BE PHENOLIC.
2. ALL WALLMOUNT CASEWORK TO BE INSTALLED WITH A BOTTOM HEIGHT 54" AFF.
3. ALL SINKS TO BE STAINLESS STEEL.
4. INSTALL MOUNTING PLATE FOR DOWNDRAFT UNIT, SEE DETAILS 1 AND 2 ON DRAWING A2.
5. FLOOR TILE IN THIS AREA TO BE VCT1 (SEE 090600), REMAINDER TO BE VCT2.
6. METAL CASEWORK IN THIS "HORSESHOE" TO BE E-6320 DEEP BLUE. REMAINDER TO BE E-2731 PLATINUM.

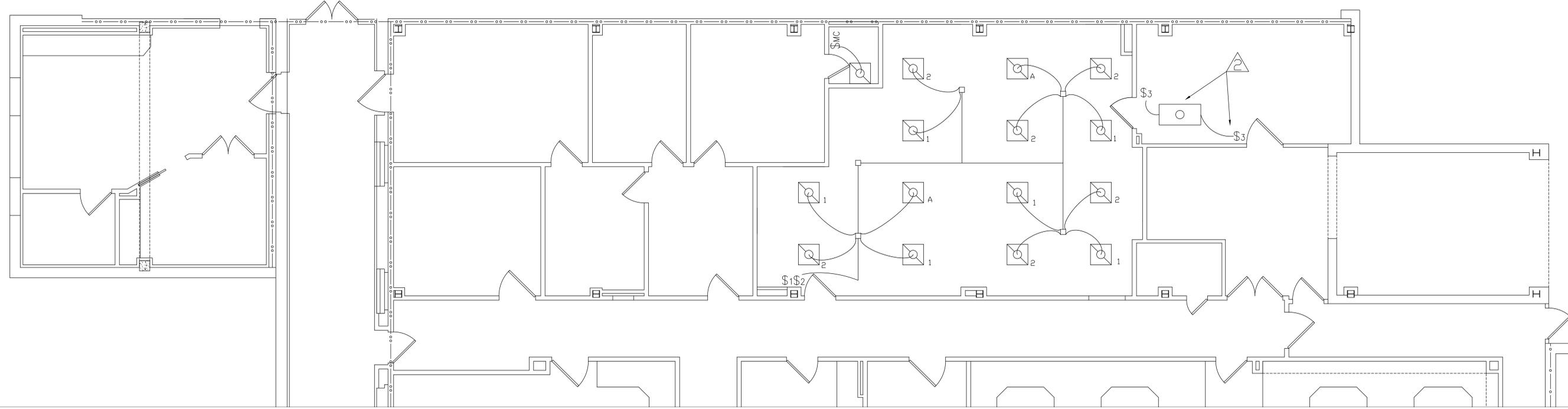
CONSULTANTS: UPDATED FROM PRELIM REVIEW Revisions:		ARCHITECT/ENGINEERS: 9-7-2010 Date:		NORTH: 		APPROVED: APPROVED: APPROVED: APPROVED: APPROVED:		Drawing Title FLOOR PLAN GROUND FLOOR 9F-1		Project Title LAB RENOVATION		Project Number 620A4-10-238		Engineering Service Department of Veterans Affairs
						Approved Director, VA/HVCS:		Location CASTLE POINT, NEW YORK		Building(s) Number 15E		Drawing Number IF-15-1		
						Approved Chief of Engineering:		Date 9-7-10		Checked Drawn JEF		SHEET 4 OF 21		

LEGEND

- \$ LIGHT SWITCH
- \$MC LIGHT SWITCH, MOTION CONTROLLED
- \$3 LIGHT SWITCH, THREE WAY
- # 2X2 RECESSED LIGHT, TYPE A
- # INDICATES WHICH SWITCH TO TIE TO
- # A INDICATES LIGHT IS ALWAYS ON
- 4X2 SUSPENDED LIGHT, TYPE B

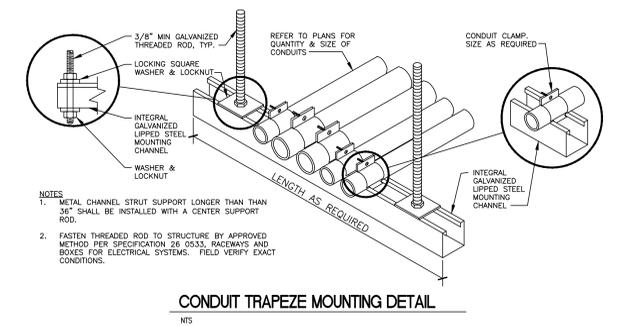
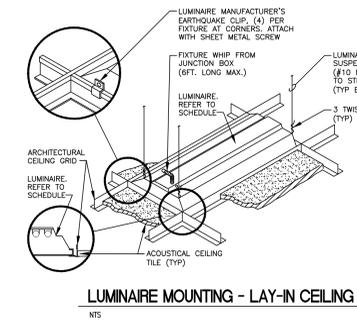
NOTES:

1. USE EXISTING LIGHTING CIRCUITS, TIE IN TO SWITCHES AS SHOWN. IT IS PERMISSIBLE TO REROUTE WIRING TO USE EXISTING CONDUIT.
2. REPLACE LIGHT SHOWN. REPLACE SWITCHES WITH 3-WAY TYPE, TIE ALL LIGHTS IN THIS ROOM TO THE SAME CIRCUIT.
3. INSTALL SWITCHES AT SAME HEIGHT AS EXISTING.



LIGHTING FIXTURE SCHEDULE

Type	Symbol	Volts	No. of Lamps	Lamp Type	Total Watts	Description	Remarks
A		120	2	PHILIPS P/N 20423-0 FB32T8/U (CRI=85 OR BETTER) 4100k	50	-2'X2' RECESSED FLUORESCENT WITH ACRYLIC LENS & ELECTRONIC BALLAST	
B		120	2	PHILIPS P/N 13783-6 FB32T8 (CRI=85 OR BETTER) 4100k	50	-4'X2' SUSPENDED FLUORESCENT WITH ELECTRONIC BALLAST	



CONSULTANTS:	ARCHITECT/ENGINEERS:	NORTH:
UPDATED FROM PRELIM REVIEW	9-7-2010	
Revisions:	Date:	

APPROVED:	APPROVED:	APPROVED:	APPROVED:

APPROVED:	APPROVED:	APPROVED:	APPROVED:

Project Title	Project Number
LAB RENOVATION	620A4-10-238
Location	Building(s) Number
CASTLE POINT, NEW YORK	19E
Date	Checked
9-7-10	JEF
Drawn	Drawn
JEF	JEF

Drawing Title	Drawing Number
LIGHTING PLAN GROUND FLOOR	ES-15-1
Approved Director, VAHVCS	SHEET 5 OF 21
Approved Chief of Engineering	

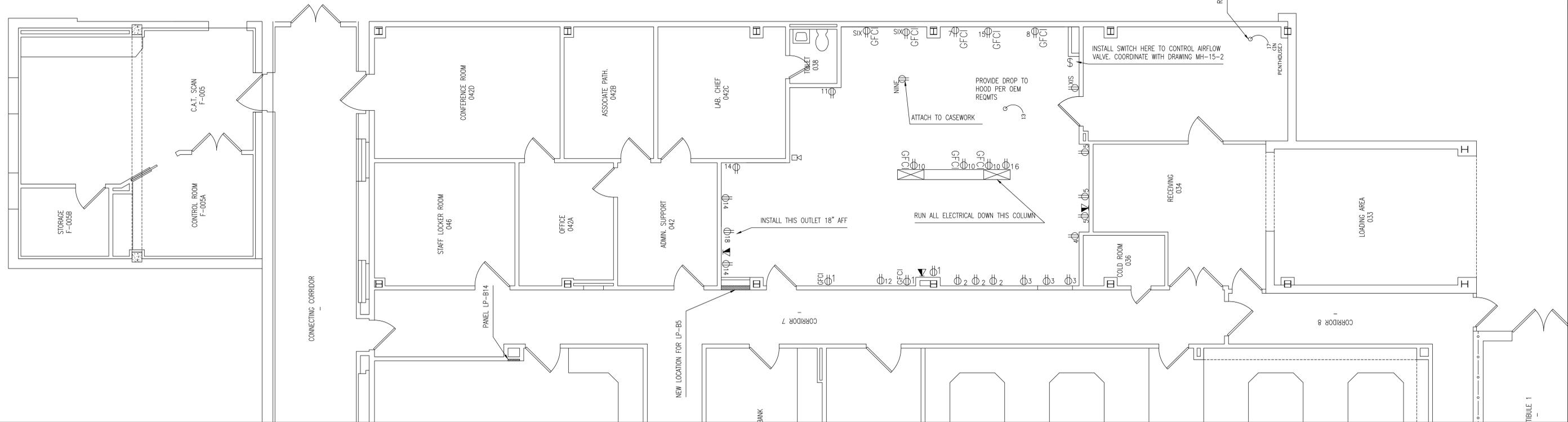
Engineering Service

Department of Veterans Affairs

LEGEND



DUPLEX OUTLET, X DENOTES CKT
 COMMUNICATION PORT, 2 DATA, 2 PHONE
 FIRE ALARM, HORN/LIGHT, ONE ASSEMBLY



NOTES:

1. RUN CIRCUITS M1 THROUGH M5 BEFORE REMOVING PANEL LP-B5 FROM SERVICE. FOR REDUNDANT CIRCUITS ON CONDENSORS, MOVE ONE AT A TIME AND RESTORE SERVICE PRIOR TO MOVING NEXT.
2. INSTALL ALL OUTLETS 42" AFF UNLESS OTHERWISE NOTED.
3. FIRESTOP ALL CEILING, FLOOR, AND FIREWALL PENETRATIONS MIN. 2 HOUR RATING.
4. STROBE ALARM TO BE INSTALLED BY NY STATE LICENSED FIRE ALARM CONTRACTOR.

CONSULTANTS: 		ARCHITECT/ENGINEERS: 		NORTH: 		APPROVED: APPROVED: APPROVED: APPROVED: APPROVED:		Drawing Title POWER PLAN GROUND FLOOR 19-1		Project Title LAB RENOVATION		Project Number 620A4-10-238		Engineering Service Department of Veterans Affairs
UPDATED FROM PRELIM REVIEW Revisions:		9-7-2010 Date:		APPROVED:		Approved Director, VAHVCS		Location CASTLE POINT, NEW YORK		Building(s) Number 19E		Drawing Number ES-15-2		
						Approved Chief of Engineering		Date 9-7-10		Checked Drawn		SHEET 6 OF 21		
										JEF				

LP-B14 (Microbiology Room) Bus 225A													
Description	Wattage			Breaker		CKT	CKT	Breaker		Wattage			Description
	A	B	C	Amp	Pole			Amp	Pole	A	B	C	
OUTLETS	600			20	1	1	2	20	1	600			OUTLETS
OUTLETS/LTG		650		20	1	3	4	20	1		800		OUTLETS
CO2 INC			840	20	1	5	6	20	1			1040	REFRIGERATOR
CO2 INC	1080			20	1	7	8	20	1	800			OUTLETS
OUTLETS		400		20	1	9	10	20	1		800		OUTLETS
REFRIGERATOR			1200	20	1	11	12	20	1			800	OUTLETS
VITECK	1400			20	1	13	14	20	1	1640			BIOSAFE
CENTRIFUGE		2100		30	2	15	16	20	2		1500		GLASS WASH
CENTRIFUGE			2100	30	2	17	18	20	2			1500	GLASS WASH
208V OUTLET	1500			20	2	19	20	20	1	1000			AUTOCLAVE
208V OUTLET		1500		20	2	21	22	20	1		1000		AUTOCLAVE
OUTLETS			400	20	1	23	24	15	3	1500			LOADING DOOR
OUTLETS	600			20	1	25	26	15	3		1500		LOADING DOOR
MORGUE CONDENSOR		790		20	2	27	28	15	3			1500	LOADING DOOR
MORGUE CONDENSOR			790	20	2	29	30	20	2	560			COLD STORAGE
SPACE						31	32	20	2		560		COLD STORAGE
SPACE						33	34						SPACE
SPACE						35	36						SPACE

NOTES:
 1. CIRCUITS M1, M2, AND M3 MUST BE MOVED FROM PANEL LP-B5 TO LP-B14 WITH SERVICE RE-ESTABLISHED PRIOR TO SHUT DOWN OF PANEL LP-B5.
 2. CIRCUITS R1 AND R2 MUST BE REMOVED FROM PANEL LP-B5 AT ITS CURRENT LOCATION AND REINSTALLED AS SHOWN AT ITS NEW LOCATION.

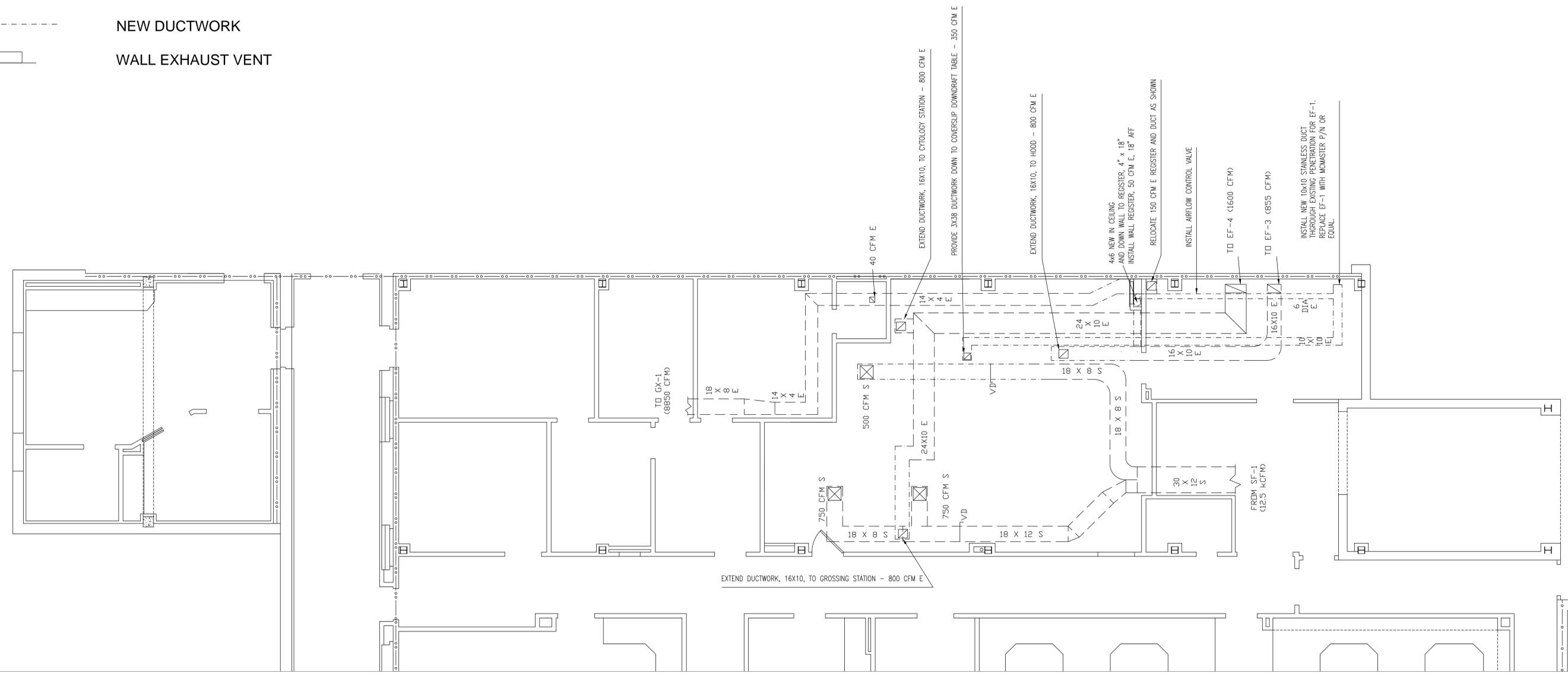
Electrical Run Schedule - Building 15E								
RUN#	FROM	AMPERAGE	VOLTS	POLES	Description	Wire size and qty	Conduit size	Critical Branch?
M1	LP-B14	15	208	3	LOADING DOCK DOOR	(4) #10	3/4"	N
M2	LP-B14	20	208	2	CONDENSOR UNIT	(4) #8	3/4"	N
M3	LP-B14	20	120	1	CONDENSOR UNIT	(3) #8	3/4"	N
R1	LP-B14	20	120	1	BLOWER DOOR HEATER	(3) #8	3/4"	N
R2	LP-B14	20	120	1	BLOWER DOOR HEATER	(3) #8	3/4"	N
1	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
2	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
3	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
4	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
5	LP-B5	20	120	1	OUTLETS	(3) #10	3/4"	N
6	LP-B5	20	120	1	OUTLETS	(3) #10	3/4"	N
7	LP-B5	20	120	1	EMBEDDING HOOD	(3) #10	3/4"	N
8	LP-B5	20	120	1	TISSUE PROCESSOR	(3) #10	3/4"	N
9	LP-B5	20	120	1	DOWNDRAFT TABLE	(3) #12	3/4"	N
10	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
11	LP-B5	20	120	1	CYTOLOGY STATION	(3) #12	3/4"	N
12	LP-B5	20	120	1	GROSSING STATION	(3) #12	3/4"	N
13	LP-B5	20	120	1	CRYOSTAT	(3) #12	3/4"	N
14	LP-B5	20	120	1	OUTLETS	(3) #12	3/4"	N
15	LP-B5	20	120	1	PARAFFIN HEATER	(3) #10	3/4"	N
16	LP-B5	20	120	1	HOT & COLD PLATES	(3) #12	3/4"	N
17	PP-1	15	120	1	EXHAUST	(3) #12	3/4"	N
18	LP-B5	20	120	1	REFRIGERATOR	(3) #12	3/4"	N

Electrical Run Schedule - Building 18D							
RUN#	AMPERAGE	VOLTS	POLES	Description	Wire size and qty	Conduit size	Critical Branch?
P-1	20	120	1	OUTLETS	(3) #12	3/4"	N
P-2	20	120	1	OUTLETS	(3) #12	3/4"	N
P-3	20	120	1	OUTLETS	(3) #12	3/4"	N
P-4	20	120	1	OUTLETS	(3) #12	3/4"	N
P-5	20	120	1	OUTLETS	(3) #10	3/4"	N
P-6	20	120	1	EMBEDDING HOOD	(3) #10	3/4"	N
P-7	20	120	1	TISSUE PROCESSOR	(3) #10	3/4"	N
P-8	20	120	1	DOWNDRAFT TABLE	(3) #12	3/4"	N
P-9	20	120	1	CYTOLOGY STATION	(3) #12	3/4"	N
P-10	20	120	1	GROSSING STATION	(3) #12	3/4"	N
P-11	20	120	1	PARAFFIN HEATER	(3) #10	3/4"	N
P-12	20	120	1	HOT & COLD PLATES	(3) #12	3/4"	N
P-13	20	208	3	EXHAUST	(4) #10	3/4"	N
P-14	20	120	1	SINK PUMP	(3) #12	3/4"	N
P-15	20	120	1	REFRIGERATOR	(3) #12	3/4"	N

CONSULTANTS: UPDATED FROM PRELIM REVIEW Revisions:	ARCHITECT/ENGINEERS: 9-7-2010 Date	NORTH: 	APPROVED: APPROVED: APPROVED: APPROVED: APPROVED:	Drawing Title POWER PLAN GROUND FLOOR #P-1	Project Title LAB RENOVATION	Project Number 620A4-10-238	Building(s) Number 15E	Drawing Number ES-15-3	Date 9-7-10	Checked JEF	Drawn JEF	SHEET 7 OF 21	Engineering Service  Department of Veterans Affairs
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LEGEND

-  EXISTING DUCTWORK
-  CEILING EXHAUST VENT
-  CEILING SUPPLY VENT
-  NEW DUCTWORK
-  WALL EXHAUST VENT



- NOTES:**
1. REVERIFY FLOW ON ALL HOODS FOLLOWING INSTALLATION.
 2. LOCATIONS APPROXIMATE, COORDINATE WITH DRAWING A-2.
 4. ALL DIFFUSERS 4-WAY.
 5. ALL NEW EXHAUST DUCTWORK TO BE STAINLESS STEEL. ALL NEW SUPPLY DUCTWORK TO BE GALVANIZED.
 6. FIRESTOP ALL CEILING, FLOOR, AND FIREWALL PENETRATIONS MIN. 2 HOUR RATING.
 7. REPLACE ALL REGISTERS AND DIFFUSERS IN ROOM TO MATCH.

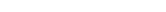
CEILING REGISTER SCHEDULE				CEILING DIFFUSER SCHEDULE				
AIR FLOW RANGE (CFM)	EQUIVALENT ROUND NECK SIZE (IN DIAMETER)	NOISE CRITERIA (dBA)	REMARKS	AIR FLOW RANGE (CFM)	EQUIVALENT ROUND NECK SIZE (IN DIAMETER)	MIN-MAX THROW DISTANCES (FT)	NOISE CRITERIA (dBA)	REMARKS
0-150	8X8	< 20		0-100	6	1-5	< 20	
160-250	12X12	< 20		101-200	8	3-9	< 20	
260-350	14X14	< 20		201-300	10	3-11	< 20	
360-500	16X16	< 20		301-450	12	5-15	< 20	
510-800	18X18	< 20		451-600	14	6-16	< 20	
				601-800	15	8-20	< 20	

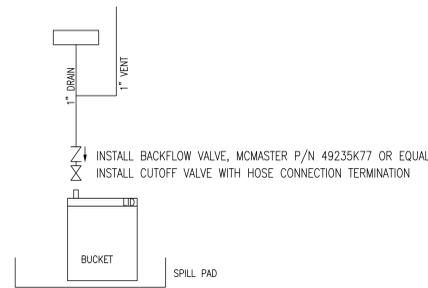
1. PROVIDE DUCT MOUNTED MANUAL VOLUME DAMPERS AS SHOWN

	CONSULTANTS:	ARCHITECT/ENGINEERS:	NORTH: 	APPROVED: APPROVED: APPROVED: APPROVED:	Drawing Title MECHANICAL CONSTRUCTION GROUND FLOOR 10E	Project Title LAB RENOVATION	Project Number 620A4-10-238	Engineering Service 
UPDATED FROM PRELIM REVIEW				APPROVED: Chief of Engineering	Approved Director, VA/HVCS	Location CASTLE POINT, NEW YORK	Building(s) Number 15E	
Revisions:	9-7-2010 Date				Approved: Chief of Engineering	Date 9-7-10	Checked JEF	

SHEET 9 OF 21

LEGEND

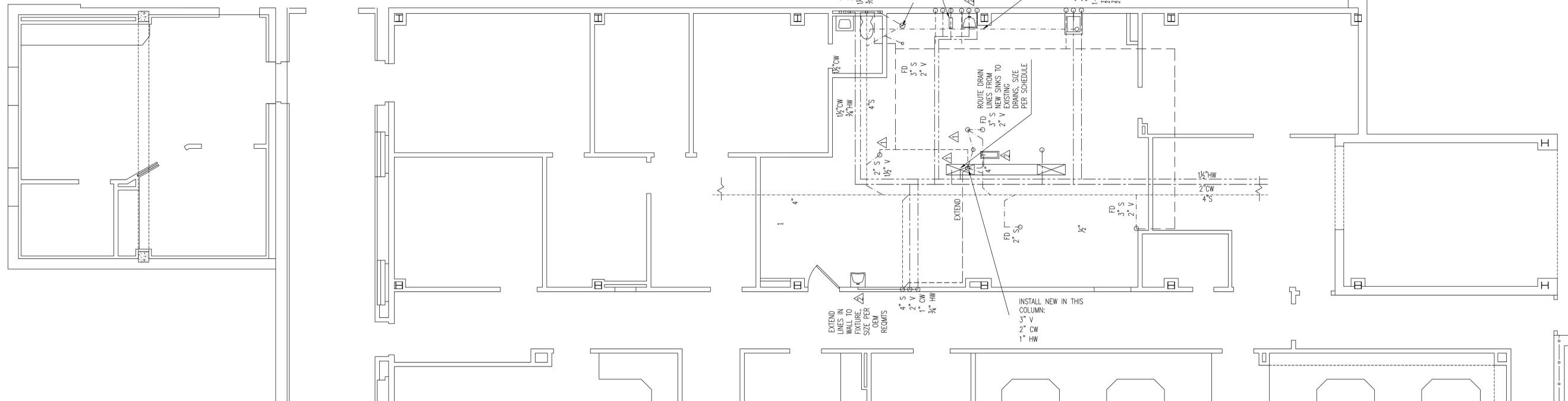
-  VENT PIPING
-  SANITARY SEWER
-  HOT WATER
-  COLD WATER
-  VERTICAL PIPE, TYPE AS NOTED



DET P1 DRAIN SCHEMATIC
NTS

NOTES:

1. INSTALL NEW LINE, TYPE AND SIZE AS SHOWN.
2. INSTALL NEW LINES FOR SINK PER MANUFACTURER CUTSHEET. INSTALL PIPING IN FURRED WALL AS REQUIRED.
3. FIRESTOP ALL CEILING, FLOOR, AND FIREWALL PENETRATIONS MIN. 2 HOUR RATING.

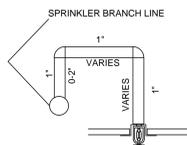
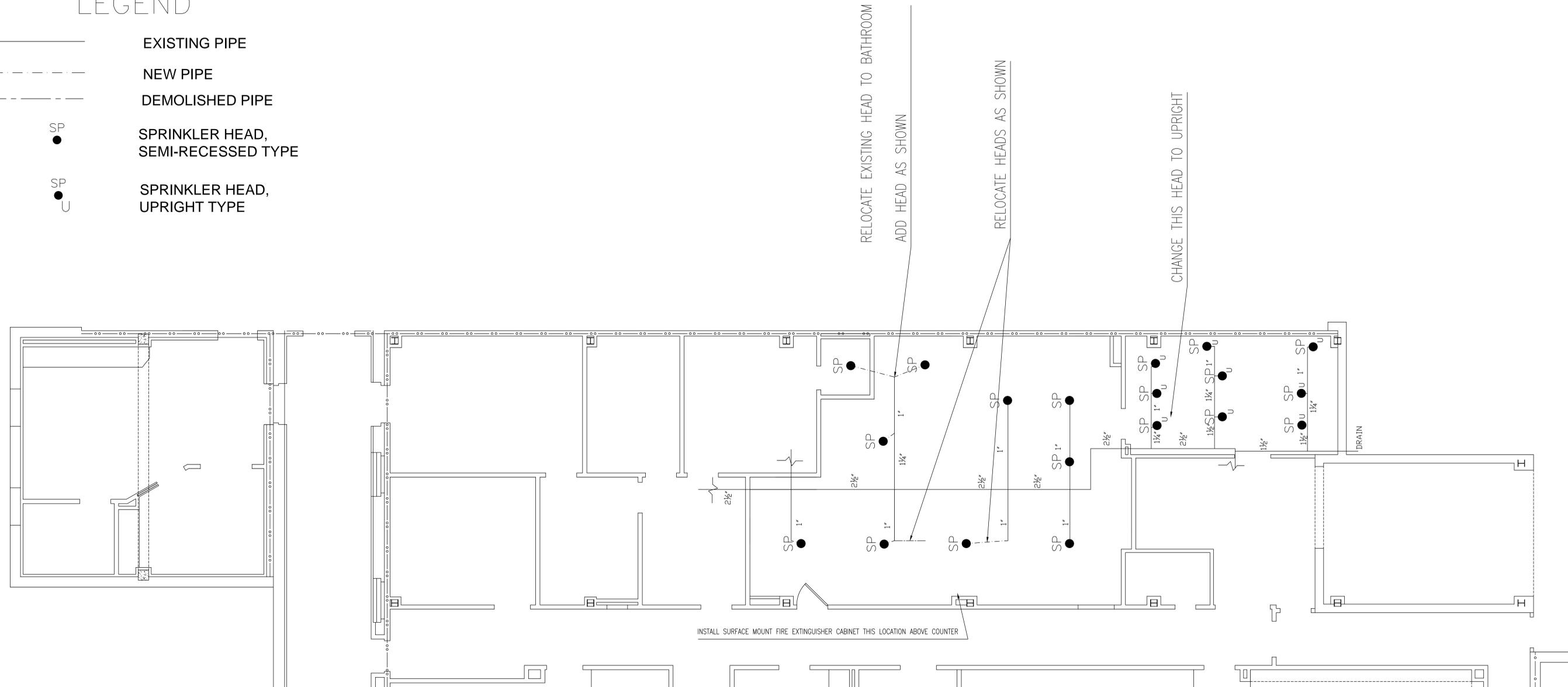


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CONSULTANTS: 		ARCHITECT/ENGINEERS: 		NORTH: 		APPROVED: 		Drawing Title PLUMBING CONSTRUCTION GROUND FLOOR <small>10E</small>		Project Title LAB RENOVATION		Project Number 620A4-10-238		Engineering Service 
APPROVED: 		APPROVED: 		APPROVED: 		APPROVED: 		Approved: Director, VAHVCS		Location CASTLE POINT, NEW YORK		Building(s) Number 10E		
APPROVED: 		APPROVED: 		APPROVED: 		APPROVED: 		Approved: Chief of Engineering		Date 9-7-10		Drawing Number PL-15-2		
UPDATED FROM PRELIM REVIEW <small>Revisions</small>		9-7-2010 <small>Date</small>								Checked JEF		SHEET 11 OF 21		

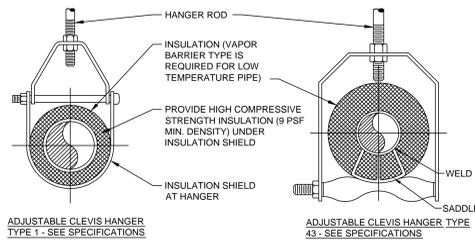
LEGEND

-  EXISTING PIPE
-  NEW PIPE
-  DEMOLISHED PIPE
-  SPRINKLER HEAD, SEMI-RECESSED TYPE
-  SPRINKLER HEAD, UPRIGHT TYPE



WHERE PENDANT STYLE SPRINKLERS ARE INDICATED AND AN ACOUSTICAL TILE CEILING IS INSTALLED, INSTALL THE PENDANT SPRINKLER HEADS CENTERED IN BOTH DIRECTIONS WITH A MAXIMUM DEVIATION OF 2" FROM CENTER OF TILE. ALL PENDANT SPRINKLERS LOCATED IN CEILINGS ARE QUICK RESPONSE TYPE.

TYPICAL PENDANT SPRINKLER DROP DETAIL



PIPE HANGERS

BUILDING 15E - OUTPATIENT - FULLY SPRINKLERED
GROUND FLOOR - Existing Business Occupancy - NFPA 101 - Chapter 39
GROUND FLOOR Hazard - Ordinary
Occupancy Load - 100 sf/ person - Table 7.3.1.2
39.2.5.2 Dead End Not to exceed 50 ft.
39.2.5.3.1 Common Path - Not exceed 100 ft
39.2.6.1 Travel to Exit - Not to exceed 300 ft

NOTES:

1. ALL FIRE PROTECTION WORK WILL BE IN ACCORDANCE WITH NFPA-13 AND NFPA-14.
2. ALL SPRINKLER HEADS TO BE SEMI-RECESSED OR UPRIGHT QUICK RESPONSE TYPE, 1/2" ORIFICE, 155 F TEMPERATURE RATED.
3. DEMOLISH ALL EXISTING SPRINKLER HEADS AND REPLACE WITH NEW IN LOCATIONS SHOWN FOR ROOMS MODIFIED.

CONSULTANTS: 		ARCHITECT/ENGINEERS: 		NORTH: 		APPROVED: 		Drawing Title SPRINKLERS GROUND FLOOR		Project Title LAB RENOVATION		Project Number 620A4-10-238		Engineering Service 
APPROVED: 		APPROVED: 		APPROVED: 		APPROVED: 		Approved Director, VA/HCS		Location CASTLE POINT, NEW YORK		Building(s) Number 15E		
APPROVED: 		APPROVED: 		APPROVED: 		APPROVED: 		Approved Chief of Engineering		Date 9-7-10		Drawing Number FA-15-1		
UPDATED FROM PRELIM REVIEW Revisions:		9-7-2010 Date								Checked Drawn JEF		SHEET 12 OF 21		