ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL

4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

1 **LOCATION MAP**
1/2" = 1'-0"

2 **SITE MAP**
1/4" = 1'-0"

PROJECT No.: R3225600-192560

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REGISTERED ARCHITECT PENNSYLVANIA MARTIN T. SHAFFER RA-020110

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SHEET CONTENTS
COVER SHEET

SHEET NO.:

G-001

FIRE PROTECTION AND LIFE SAFETY ANALYSIS

Project Name and Location:

ERI Customs Upgrade
Erie International Airport
Erie, Pennsylvania

Applicable Design Criteria and Codes:

Building Code / Structural Code: International Building Code (IBC 2018)

Existing Structure: International Existing Building Code (IEBC 2018)

Plumbing Code: International Plumbing Code (IPC 2018)

Mechanical Code: International Mechanical Code (IMC 2018)

Electrical Code: National Electric Code (NEC 2018)

Fire/Life Safety Code: NFPA 101, Life Safety Code (2018)
NFPA 1, Fire Code (2018)

Accessibility Code: Architectural Barriers Act Standards (2015)

Fuel/Gas Code: International Fuel Gas Code, (IFGC 2018)

Building Occupancy Classifications:

IBC Section 304.1: Business, B
NFPA Chapter 39: Existing Business Occupancies

Building Use:

IBC Section 508: Non-Separated Mixed Use

Construction Type

IBC Table 601
Type V-B

Building Height: 13'-4"
Building Area: 2,154 SF
Fire Protection: None
NFPA 101 Occupancy: Existing Business

FIRE PROTECTION AND LIFE SAFETY ANALYSIS

Fire Resistive Requirements for Building Elements

IBC Table 601

Primary Structural Frame:	0 hr
Bearing Walls	
Exterior:	0 hr
Interior:	0 hr
Interior Nonbearing Walls and Partitions:	0 hr
Floor Construction:	0 hr
Roof construction and secondary framing:	0 hr

Fire Resistive Requirements for Exterior Walls Based on Separation Distance

IBC Table 602
Exterior Nonbearing Walls and Partitions where "x" is distance from fire separation

Type VB Construction	Groups B	
X < 5 ft	1 hr	
5 ft ≤ 10 ft	1 hr	
10 ft ≤ 30 ft	0 hr	
X ≥ 30 ft	0 hr	

Allowable Building Height and Number of Stories

Allowable Height Above Grade Plane: IBC Table 504.3
Allowable Number of Stories Above Grade Plane: IBC Table 504.4
Group B / Construction Type VB : 1 Stories & 60 Feet High (Primary Use)

individual occupancy shall not exceed the height and number of story limits specifiied in this section.

Occupancy	Maximum Allowed		Actual	
	Height	Stories	Height	Stories
Group B (Primary Use)	40	2	13'-4"	1

Building Area

Allowable Area Factor - IBC Table 503 & 506.2

Occupancy	Allowable Area (S.F.)	Actual Area (S.F.)
Group B (Primary Use)	36,000	2,154 SF
Total Building Area		2,154 SF

FIRE PROTECTION AND LIFE SAFETY ANALYSIS, CONTINUED

Interior Finishes: Wallls and Ceilings

IBC Table 803.13 (Building Non-sprinklered)

Wall and Ceiling Location	Group B	
Interior exit stairway and ramps and exit passageways	A	
Corridors and enclosure for exit access stairways and ramps	B	
Rooms and enclosed spaces	C	

Interior Finishes: Floors

IBC Section 804 (Building Non-Sprinklered)
Interior Floor Finish Mininum Critical Radiant Flux: Not less than Class II materials in Group B.

Common Path of Egress Travel

NFPA 101: 39.2.5.3.3

Non-Sprinklered: B	75 feet

Exit Access Travel Distance

NFPA 101: 39.2.6.2

Non-Sprinklered:	200 feet

Dead-end Corridor Distance

NFPA 101: 39.2.6

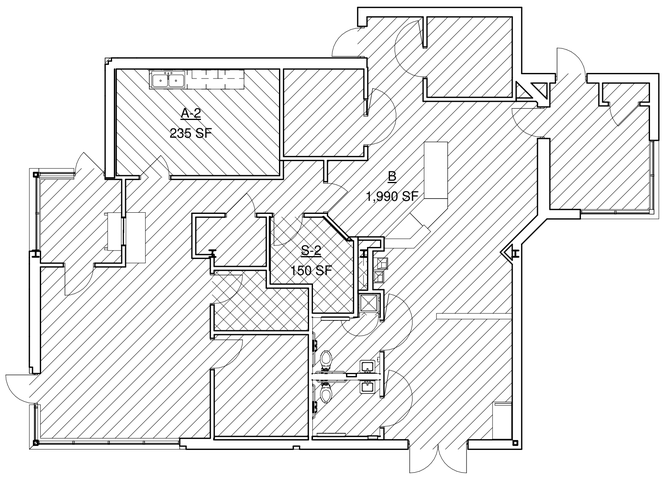
Distance shall not exceed	50 feet

Fire Extinguishers, General

NFPA 10

Accessibility Requirements

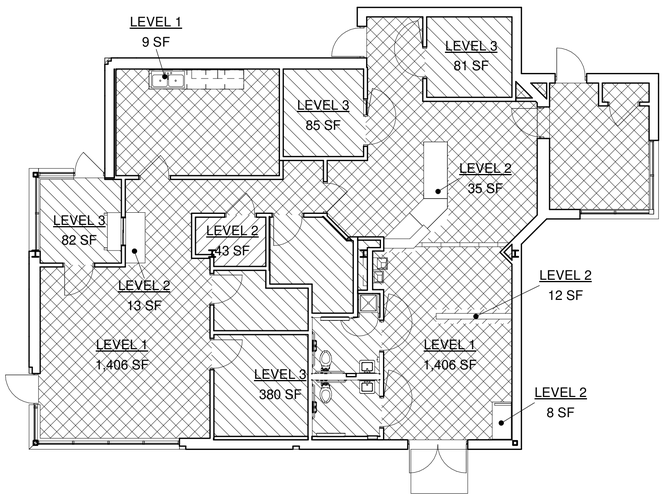
The design for this project incorporates the accessibility requirements of ABA



BUILDING OCCUPANCIES

	NAME	AREA
	B	1,990 SF
	S-2	150 SF
	A-2	235 SF
		2,375 SF

2 BUILDING OCCUPANCY TYPES
1/8" = 1'-0"



RENOVATION AREAS

	Name	Area
	LEVEL 1	1,415 SF
	LEVEL 2	111 SF
	LEVEL 3	628 SF
		2,154 SF

LEVEL 2 & 3 PERCENTAGE:
739 SF/2,154 SF = 34%

1 BUILDING RENOVATION AREAS PER IEBC
1/8" = 1'-0"

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SHEET CONTENTS
CODE ANALYSIS SCHEDULES

SHEET NO.:
G-011

REGISTERED ARCHITECT PENNSYLVANIA MARY H. SHAFFER RA409570

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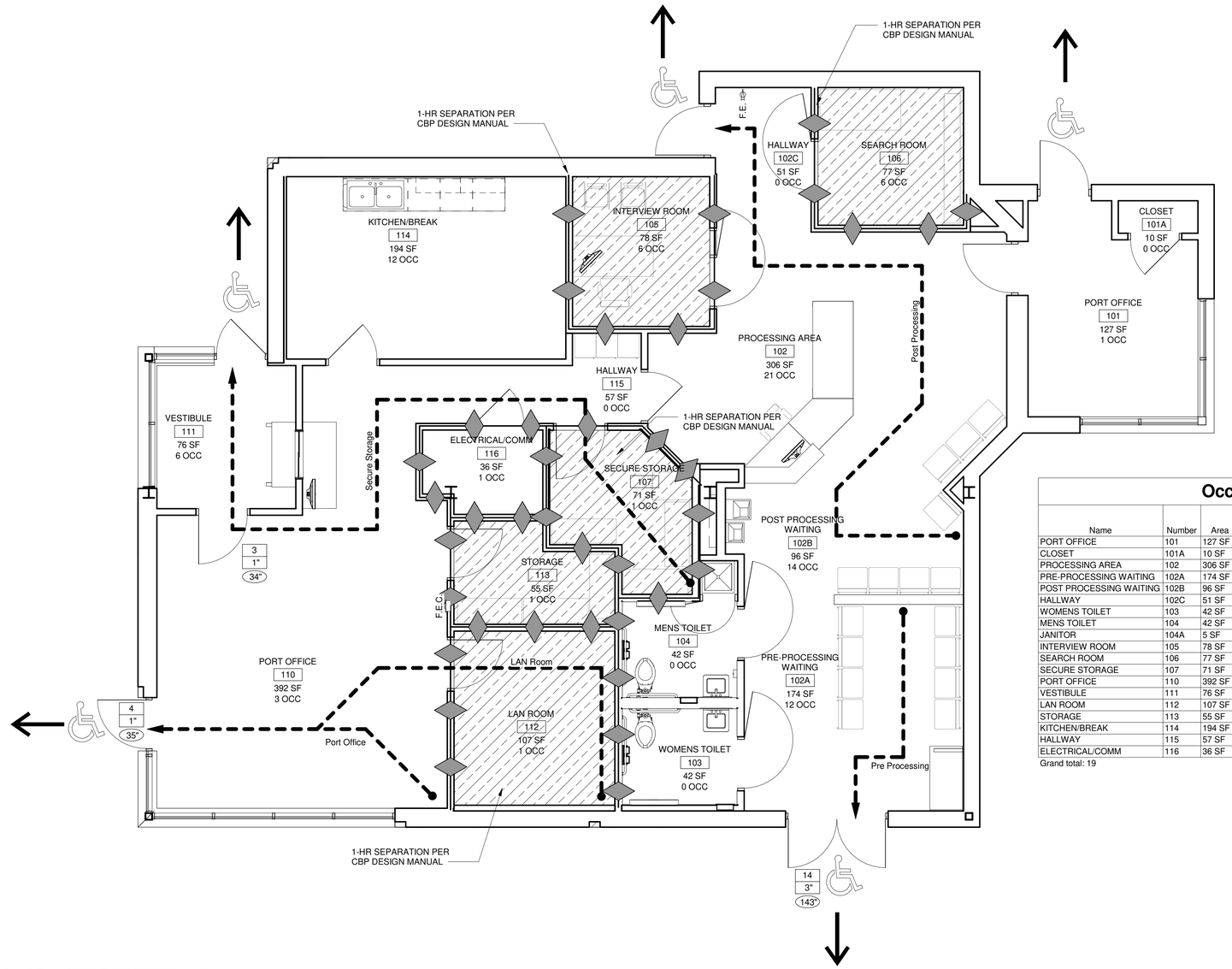

1 LIFE SAFEY PLAN

1/4" = 1'-0"

CODE PLAN LEGEND:

- 6 / XX" / XX" — OCCUPANT LOAD (OR MAX. CAPACITY); OCCUPANT LOAD FACTOR REQ'D WIDTH; PROVIDED WIDTH
- EXIT DISCHARGE
- 1 HR RATED WALL
- F.E. — FIRE EXTINGUISHER - WALL MOUNTED
- F.E.C. — FIRE EXTINGUISHER - CABINET
- ACCESSIBLE EXIT
- 1-HR RATED CEILING

EGRESS DISTANCES

EXIT ROUTE	DISTANCE
LAN Room	37' - 7"
Port Office	19' - 4"
Post Processing	47' - 6"
Pre Processing	15' - 9"
Secure Storage	53' - 6"

Occupancy Classification Rooms

Name	Number	Area	Function of Room	Occupant Load Factor	Gross-Net	Room Occupancy Total
PORT OFFICE	101	127 SF	Business Areas	150	Gross	1
CLOSET	101A	10 SF	(none)			
PROCESSING AREA	102	306 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	21
PRE-PROCESSING WAITING	102A	174 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	12
POST PROCESSING WAITING	102B	96 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	7
HALLWAY	102C	51 SF	(none)			
WOMENS TOILET	103	42 SF	(none)			
MENS TOILET	104	42 SF	(none)			
JANITOR	104A	5 SF	Accessory Storage areas, Mech equipment room	300	Gross	1
INTERVIEW ROOM	105	78 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	6
SEARCH ROOM	106	77 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	6
SECURE STORAGE	107	71 SF	Accessory Storage areas, Mech equipment room	300	Gross	1
PORT OFFICE	110	392 SF	Business Areas	150	Gross	3
VESTIBULE	111	76 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	6
LAN ROOM	112	107 SF	Accessory Storage areas, Mech equipment room	300	Gross	1
STORAGE	113	55 SF	Accessory Storage areas, Mech equipment room	300	Gross	1
KITCHEN/BREAK	114	194 SF	Assembly without fixed seats - Unconcentrated (tables & chairs)	15	Net	13
HALLWAY	115	57 SF	(none)			
ELECTRICAL/COMM	116	36 SF	Business Areas	150	Gross	1
Grand total: 19						80

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SHEET CONTENTS
LIFE SAFETY PLANS

SHEET NO.:

G-021

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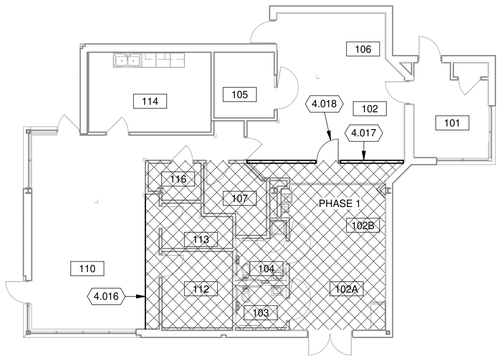
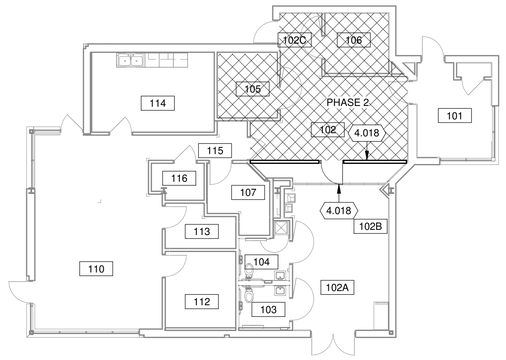


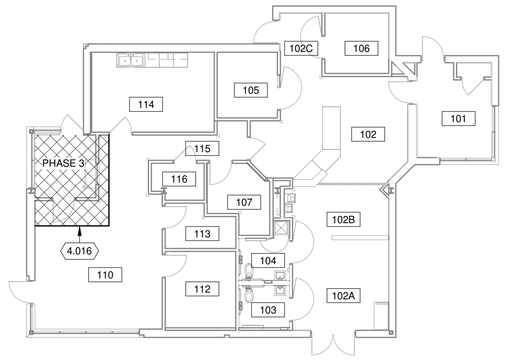
2 FLOOR PLAN - PHASE 1

3/32" = 1'-0"



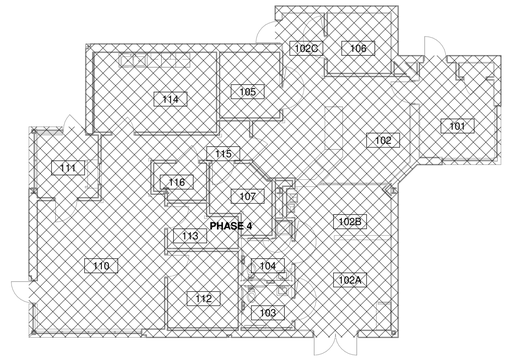
3 FLOOR PLAN - PHASE 2

3/32" = 1'-0"



4 FLOOR PLAN - PHASE 3

3/32" = 1'-0"



5 FLOOR PLAN - PHASE 4

3/32" = 1'-0"

PHASE 1

THIS PHASE INCLUDES WORK AS FOLLOWS:
- REMOVE PROCESSING DESK
- CONSTRUCT TEMPORARY PARTITION IN THE PROCESSING AREA WITH MAN DOOR SWINGING OUT OF THE CONSTRUCTION AREA.
- CONSTRUCT ROOMS 102A (PRE-PROCESSING WAITING), 102B (POST PROCESSING WAITING), 103 (WOMENS TOILET), 104 (MEN'S TOILET), 104A (JANITOR), 107 (SECURE STORAGE), 112 (LAN ROOM) AND 113 (STORAGE).
- OMIT PARTIAL HEIGHT WALL IN PRE-PROCESSING WAITING ROOM 102A.
- CONSTRUCT PLASTIC SHEATHING BARRIER IN PORT OFFICE 110 WHEN REQUIRED FOR INSTALLATION OF DOORS 112 AND 113 AND OTHER WORK ON SHARED PARTITION WALL.
- INSTALL FINISHES WHERE POSSIBLE IN NEW ROOMS.

CBP ACCESS WILL BE AS FOLLOWS:
- CUSTOMS & BORDER PROTECTION: PROCESSING AREA WILL BE ACCESSIBLE FROM LAND SIDE DOORWAY FOR ENTRY AND EXIT.
- PORT OFFICE ACCESS WILL BE FROM LAND SIDE DOORWAY FOR ENTRY AND EXIT.

PHASE 2

THIS PHASE INCLUDES WORK AS FOLLOWS:
- REVERSE DOOR SWING IN TEMPORARY PARTITION
- CONSTRUCT ROOMS 105 (INTERVIEW), 106 (SEARCH ROOM) AND HALLWAY 102C.
- INSTALL FINISHES WHERE POSSIBLE IN NEW ROOMS

CBP ACCESS WILL BE AS FOLLOWS:
- CUSTOMS & BORDER PROTECTION: PROCESSING AREA WILL BE ACCESSIBLE FROM AIR SIDE DOORWAY FOR ENTRY AND EXIT
- PORT OFFICE ACCESS WILL BE FROM LAND SIDE DOORWAY FOR ENTRY AND EXIT

PHASE 3

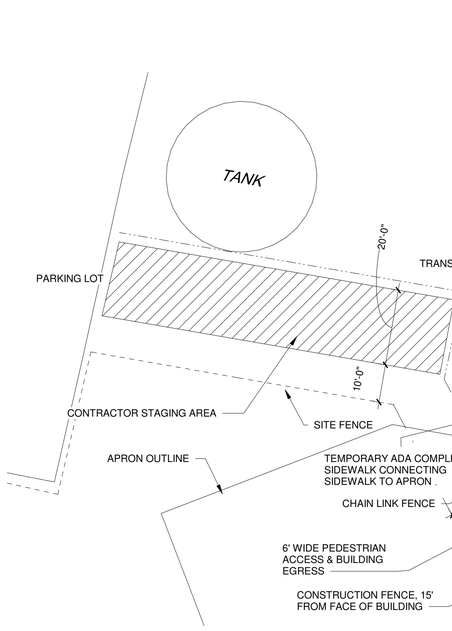
THIS PHASE INCLUDES WORK AS FOLLOWS:
- REMOVE TEMPORARY PARTITION IN THE PROCESSING AREA.
- INSTALL PARTIAL HEIGHT WALL IN PRE-PROCESSING WAITING ROOM 102A.
- INSTALL PODIUM AND BAG INSPECTION PODIUM AND CASEWORK IN PROCESSING AREA 102.
- CONSTRUCT PLASTIC SHEATHING BARRIER IN PORT OFFICE 110 OUTSIDE OF FOOTPRINT OF NEW VESTIBULE WHILE MAINTAINING ACCESS TO KITCHEN/BREAK 114
- CONSTRUCT VESTIBULE 111.
- INSTALL FINISHES WHERE POSSIBLE IN NEW ROOMS

CBP ACCESS WILL BE AS FOLLOWS:
- CUSTOMS & BORDER PROTECTION: ENTRY AVAILABLE FROM AIR SIDE DOORWAY. EXIT AVAILABLE AT LAND SIDE DOORWAY.
- PORT OFFICE ACCESS FROM AIR SIDE DOORWAY VIA TEMPORARY SIDEWALK CONNECTION.

PHASE 4

THIS PHASE INCLUDES WORK AS FOLLOWS:
- INSTALL REMAINING FINISHES THROUGHOUT FACILITY
- COMPLETE REMAINING SCOPE

CBP ACCESS WILL BE AS FOLLOWS:
- CUSTOMS & BORDER PROTECTION: ENTRY AVAILABLE FROM AIR SIDE DOORWAY. EXIT AVAILABLE AT LAND SIDE DOORWAY.
- PORT OFFICE ACCESS FROM LAND SIDE DOORWAY AND VESTIBULE 111.



1 CONSTRUCTION SITE PLAN

1" = 20'-0"

KEYED NOTES PER SHEET

4.016 VISQUEEN TEMP PARTITION. INSTALL WHEN REQUIRED FOR ADJACENT WORK AND REMOVE AS SOON AS FEASIBLE. PARTITION TO BE IN PLACE FOR MINIMUM TIME POSSIBLE.

4.017 TEMP PARTITION. WALL TYPE AS INDICATED

4.018 TEMPORARY DOOR. SWING IN DIRECTION OF EGRESS FROM WORK AREA.

SEQUENCING PLAN GENERAL NOTES

1. SEE "AD" SHEETS FOR ITEMS TO BE DEMOLISHED WITHIN PHASE WORK AREAS.
2. CONTRACTOR MAY PERFORM WORK OUTSIDE OF PHASE TO REDUCE CONSTRUCTION TIME AND OWNER COST AS LONG AS CONTRACTOR HAS RECEIVED OWNER APPROVAL PRIOR TO PERFORMING WORK.
3. CONTRACTOR SHALL PROVIDE NON-COMBUSTIBLE FLOOR-TO-CEILING DUSTPROOF PARTITIONS TO LIMIT DUST, DIRT, FUMES AND NOISE MIGRATION AND TO PROTECT FINISHES AND COMPLETED WORK DURING CONSTRUCTION.
4. CONSTRUCT PARTITIONS WITH METAL STUD FRAMING, TAPED AND PAINTED GYPSUM WALLBOARD ON OCCUPIED SIDE, AND PAINTED FIRE-RETARDANT PLYWOOD ON CONSTRUCTION OPERATIONS SIDE.
5. INSULATE PARTITIONS TO CONTROL NOISE TRANSMISSION TO OCCUPIED AREAS
6. SEAL JOINTS AND PERIMETER. EQUIP PARTITIONS WITH GASKETED DUSTPROOF DOORS AND SECURITY LOCKS WHERE OPENINGS ARE REQUIRED.
7. PROTECT AIR-HANDLING EQUIPMENT AND OTHER EXISTING CONSTRUCTION WITHIN WORK AREAS
8. PROVIDE WALK-OFF MATS AT EACH ENTRANCE THROUGH TEMPORARY PARTITIONS
9. TEMPORARY WALLS ARE SHOWN FOR CONCEPT ONLY. GENERAL CONTRACTOR TO DETERMINE FINAL LOCATION IN ORDER TO PERFORM WORK.
10. PHASES SHOWN ARE FOR BUILDING CONSTRUCTION ONLY
11. ALL WORK MUST BE PERFORMED WITHIN THE LIMITS OF THE "CONSTRUCTION FENCE" AS SHOWN ON THE CONSTRUCTION SITE PLAN ON THIS SHEET. ANY WORK OR ACCESS REQUIRED OUTSIDE OF THE CONSTRUCTION FENCE WILL REQUIRE COORDINATION AND APPROVAL FROM AIRPORT AND AIRPORT PUBLIC SAFETY AND MAY CARRY ADDITIONAL LIMITATIONS INCLUDING ESCORTS. UNDER NO CIRCUMSTANCE SHALL CONTRACTOR OR ANY SUBCONTRACTORS ACCESS THE AREA BEYOND THIS FENCE WITHOUT PRIOR APPROVAL OF AIRPORT.
12. 12' WIDE EMERGENCY ACCESS GATE SHALL BE KEPT CLEAR AT ALL TIMES FOR ACCESS BY AIRPORT PUBLIC SAFETY. PROVIDE KEY FOR THIS GATE TO AIRPORT.
13. 3' WIDE MAN GATE SHOWN ON THE CONSTRUCTION SITE PLAN THIS SHEET SHALL BE FOR USE BY CBP FOR PROCESSING AIRCRAFT AND PASSENGERS. PROVIDE KEY TO THIS GATE TO CBP. AREA IN FRONT OF GATE MUST BE KEPT CLEAR AND A CLEAR PATHWAY PROVIDED TO AND FROM THE BUILDING. COORDINATE WITH CBP ON ANY NECESSARY BLOCKAGE OF THIS AREA.
14. BUILDING WILL REMAIN IN OPERATION AND IN-USE BY CUSTOMS AND BORDER PATROL THROUGHOUT CONSTRUCTION. MAINTAIN OWNER ACCESS TO UTILITIES INCLUDING POWER, HEAT, WATER AND NETWORK CONNECTION THROUGHOUT CONSTRUCTION. UTILITIES ARE REQUIRED FOR OWNER'S OPERATIONS. PROVIDE NOT LESS THAN 72-HOUR NOTICE TO OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.

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SHEET CONTENTS
CONSTRUCTION OPERATIONS & SEQUENCING PLANS

SHEET NO.:
G-032

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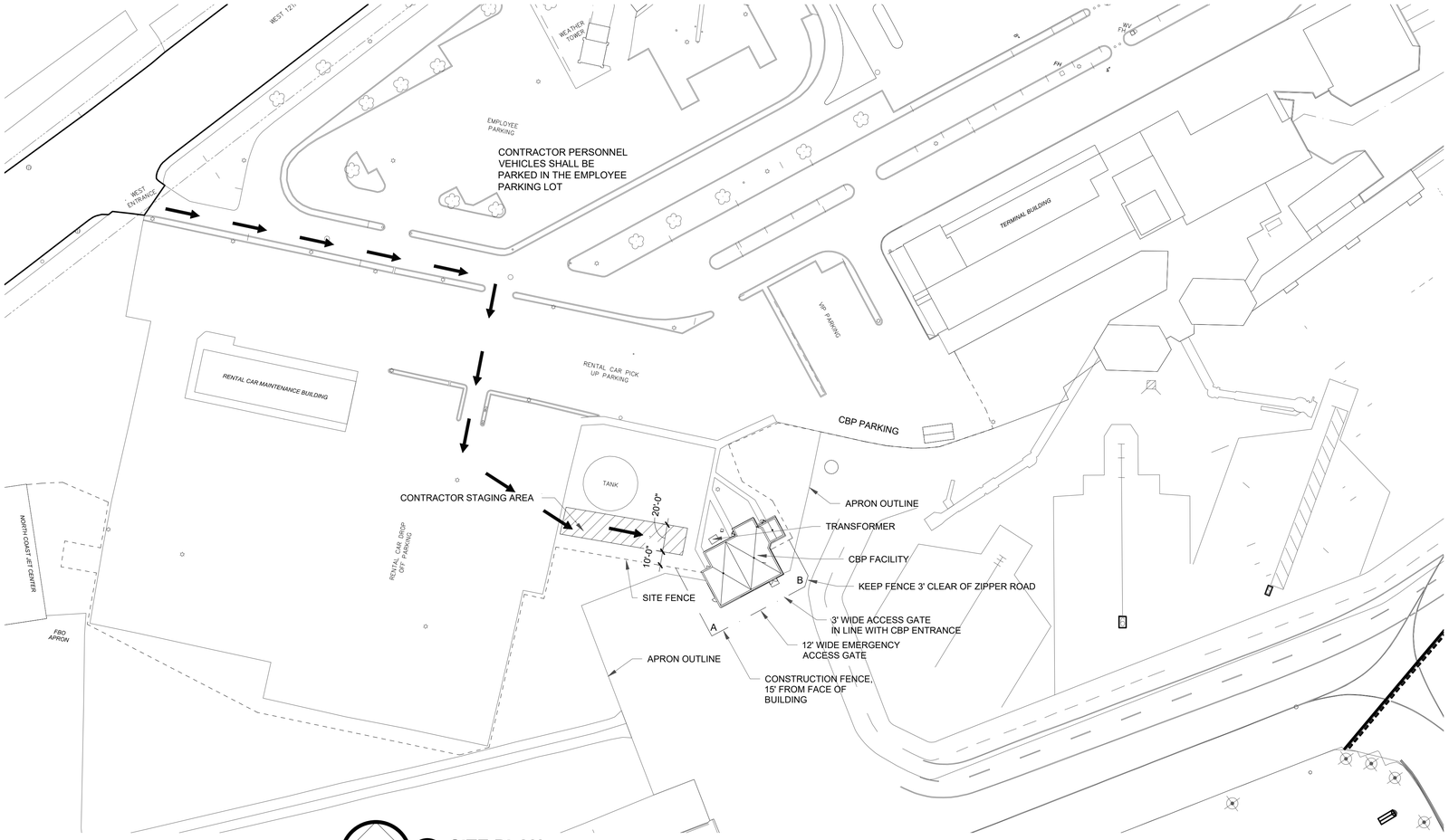


1 SITE PLAN
1" = 50'-0"

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND REMOVAL OF RUNWAY CLOSURE MARKERS AND BARRICADES. COORDINATE WITH THE RPR AND AIRPORT TO CONFIRM NOTICE TO AIRMEN (NOTAM'S) ARE ISSUED.
2. THE CONTRACTOR SHALL REQUEST A SAFETY AND LIGHTING INSPECTION BY AIRPORT OPERATIONS PRIOR TO LEAVING THE CONSTRUCTION SITE AFTER EACH WORKING DAY. THE SAFETY INSPECTION SHALL INCLUDE THE CONDITION OF ACTIVE OPERATION AREAS ADJACENT TO THE CONSTRUCTION LIMIT, THE CONDITION OF THE CONTRACTOR STAGING AREA AND THE SECURITY OF THE CONSTRUCTION ENTRANCE(S). THE CONTRACTOR'S SUPERVISOR SHALL REMAIN ON SITE UNTIL THE SAFETY INSPECTION IS COMPLETE AND ALL DEFICIENCIES HAVE BEEN CORRECTED TO THE SATISFACTION OF THE AIRPORT OPERATIONS DEPARTMENT.
3. TEMPORARY OPENINGS IN THE AOA FENCE SHALL BE COORDINATED WITH THE AIRPORT 30 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO MONITOR THE OPENING UNTIL CLOSED AND APPROVED BY THE AIRPORT.

FAA AIRSPACE AND 7460 INFORMATION

POINT	DESCRIPTION	LATITUDE	LONGITUDE	GROUND	HEIGHT AGL
A	WORK AREA	N42° 04' 54.94"	W80° 10' 57.78"	728'	50'
B	WORK AREA	N42° 04' 55.46"	W80° 10' 57.10"	728'	50'

LEGEND

- EXISTING PAVEMENTS
- TEMPORARY AOA FENCE
- CONTRACTOR HAUL ROUTE

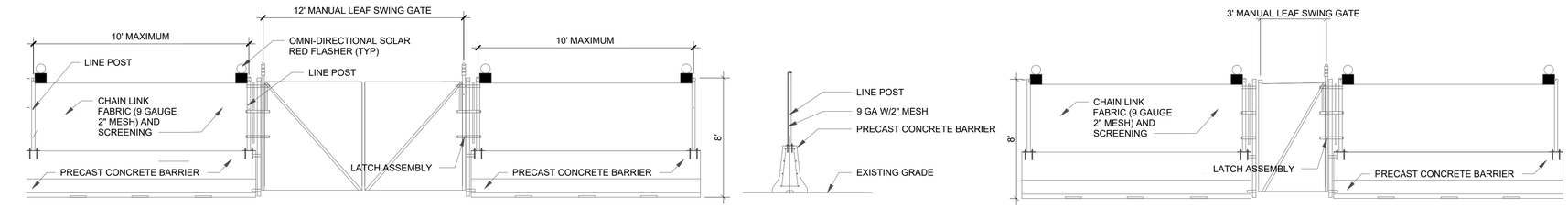
PHASE	CONSTRUCTION	AFFECTED ACTIVE OPERATION AREAS (AOA'S)	WORK HOURS	CONTRACT TIME	SAFETY AND SECURITY
1	ALL PROJECT WORK INCLUDING THE FOLLOWING AOA WORK ELEMENTS: • SECURITY UPGRADES • DOOR REPLACEMENT	1. NONE	NORMAL / UN-RESTRICTED	120	1. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AT LEAST 5 DAYS IN ADVANCE OF WORK AND PHASE CHANGES SO THAT THE AIRPORT MANAGEMENT CAN ISSUE A NOTAM OF CONSTRUCTION ACTIVITY. 2. ALL GATES MUST BE LOCKED OR GATE GUARD POSTED. 3. ALL CONTRACTOR PERSONNEL WORKING ON-SITE SHALL UNDERGO AIRPORT TRAINING AND HAVE AIRPORT ISSUED BADGE. 4. MAXIMUM EQUIPMENT HEIGHT FOR THE PROPOSED WORK AREA IS 30' UNLESS OTHERWISE NOTED.

CRITICAL DIMENSIONS (TOTAL WIDTH):

RUNWAY 6-24:
RDC: C-II-2400
RSA: 500' WIDE
OFZ: 400' WIDE
OFA: 800' WIDE

RUNWAY 2-20:
RDC: B-II-VISUAL
RSA: 150' WIDE
OFZ: 400' WIDE
OFA: 500' WIDE

TAXIWAYS:
TDG: 3 ADG: III
TSA: 118'
OFA: 186'



2 AIRSIDE FENCE DETAIL
1/4" = 1'-0"

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL SEAN THOMPSON ENGINEER PE090267
1/13/21

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL
4411 WEST 12TH STREET
ERIE, PENNSYLVANIA

ISSUED

ISSUED FOR CONSTRUCTION

M&H NO.:	R3225600-192560
DATE:	01/13/2021
DESIGNED BY:	SCT
DRAWN BY:	SCT
CHECKED BY:	MDB

DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION SAFETY PHASING PLAN

SHEET NO.:
G-081

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GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G (OR CURRENT EDITION) OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, THESE CONSTRUCTION SAFETY PHASING PLAN (CSPP) DRAWINGS, NOTES, AND SPECIFICATIONS.
2. HAUL ROUTES TO ACCESS WORK AREAS WITHIN THE AOA SECURITY FENCE ARE INDICATED ON THE CONSTRUCTION SAFETY PHASING PLAN DRAWINGS.
3. ALL EQUIPMENT IS LIMITED IN HEIGHT TO THE HEIGHTS INDICATED. EQUIPMENT IN EXCESS OF THESE HEIGHTS IS ONLY ALLOWABLE WITH PRIOR PERMISSION OF AIRPORT OPERATIONS AND SHALL ONLY BE USED DURING DAYTIME, VISUAL FLIGHT RULE (VFR) ATMOSPHERIC CONDITIONS (CEILING GREATER 1000', VISIBILITY GREATER THAN 3 MILES). EQUIPMENT OVER 25 FEET MUST BE LOWERED AT NIGHT, WHEN NOT IN USE, AND DURING INSTRUMENT FLIGHT RULES (IFR) CONDITIONS.
4. THE CONTRACTOR SHALL ACCESS THE AOA SITE AS INDICATED ON CONSTRUCTION PHASING PLAN. THE CONTRACTOR SHALL ESCORT THEIR OWN PERSONNEL.

2.5 COORDINATION

1. PRECONSTRUCTION CONFERENCE
   A. A PRECONSTRUCTION CONFERENCE WILL BE CONVENED AND CONDUCTED BY THE AIRPORT AND CONSTRUCTION ADMINISTRATION TEAM. THIS CONFERENCE WILL BE USED TO DISCUSS OPERATIONAL SAFETY, TESTING, QUALITY CONTROL, QUALITY ACCEPTANCE, SECURITY, SAFETY, LABOR REQUIREMENTS, ENVIRONMENTAL FACTORS, AND OTHER FACTORS THAT WILL PERTAIN TO THIS CONSTRUCTION PROJECT.
   B. THE PRECONSTRUCTION CONFERENCE WILL BE CONDUCTED AS SOON AS PRACTICABLE AFTER THE CONTRACT HAS BEEN AWARDED AND HELD BEFORE THE NOTICE TO PROCEED IS GIVEN TO THE CONTRACTOR.
   C. PARTICIPANTS IN THE PRECONSTRUCTION CONFERENCE MAY INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, FAA REGIONAL OFFICE, FAA AIRPORT TRAFFIC CONTROL, FAA FLIGHT STANDARDS, CUSTOMS AND BORDER PROTECTION, CONTRACTOR, AND SUBCONTRACTORS.
   D. THE INFORMATION COVERED IN THIS MEETING WILL FOLLOW THE GUIDELINES OUTLINED IN AC 150/5300-9, "PREDESIGN, PREBID, AND PRECONSTRUCTION CONFERENCES FOR AIRPORT GRANT PROJECTS."
2. CONTRACTOR PROGRESS MEETINGS
   A. DURING THE DURATION OF THE PROJECT, WEEKLY CONTRACTOR PROGRESS MEETINGS WILL BE HELD AND CONDUCTED BY THE CONSTRUCTION ADMINISTRATION TEAM.
   B. THE PROGRESS MEETINGS WILL COVER PROJECT SCHEDULE, CONSTRUCTION SAFETY, ISSUES, ETC.
   C. CHANGES IN THE SCOPE OR DURATION OF THE PROJECT MAY REQUIRE REVISIONS TO THE CONSTRUCTION SAFETY PHASING PLAN (CSPP). REVISIONS SHALL BE REVIEWED AND APPROVED BY THE AIRPORT OPERATOR AND FAA.
3. FAA AIR TRAFFIC ORGANIZATION COORDINATION
   A. COMMUNICATION WITH THE FAA AIR TRAFFIC CONTROL TOWER WILL BE COORDINATED BY THE AIRPORT, CONSTRUCTION ADMINISTRATION TEAM AND/OR THE AIRPORT AIRFIELD OPERATIONS DIVISION.
   B. THE FAA AIRPORT TRAFFIC CONTROL TOWER PERSONNEL WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED.
   C. A MEETING WILL BE SCHEDULED WITH THE FAA AIRPORT TRAFFIC CONTROL PERSONNEL PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, FAA REGIONAL OFFICE, FAA AIR TRAFFIC CONTROL, CONTRACTOR, AND SUBCONTRACTORS.

2.6 PHASING

THE PROPOSED CONSTRUCTION WITHIN THE AOA IS TO BE COMPLETED AS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN.

2.7 AREAS AND OPERATIONS AFFECTED BY THE CONSTRUCTION ACTIVITY

1. AS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN DRAWING, IT IS NOT ANTICIPATED THAT RUNWAYS OR TAXIWAYS WILL BE CLOSED FOR THIS PROJECT. CONTRACTOR TO REMAIN CLEAR OF RUNWAY SAFETY AREA (RSA) AND RUNWAY OBSTACLE FREE ZONE (OFZ) UNLESS RUNWAY IS CLOSED. CONTRACTOR TO REMAIN CLEAR OF TAXIWAY AND TAXILANE OFA'S UNLESS THE TAXIWAY OR TAXILANE IS CLOSED. THE APPLICATION DIMENSIONS ARE NOTED ON THE SAFETY PHASING PLAN DRAWINGS.
2. COORDINATE ALL CLOSURES AND RESTRICTIONS WITH AIRPORT OPERATIONS.

2.8 PROTECTION OF NAVIGATION AIDS (NAVAIDS) AND UTILITIES

THERE ARE VARIOUS FAA AND AIRPORT OWNED NAVIGATIONAL AIDS AND UTILITIES LOCATED ON THE AIRPORT AND NEAR THE PROJECT SITE. THE KNOWN LOCATIONS OF THESE ABOVE AND BELOW GROUND FACILITIES AND UNDERGROUND CABLES ARE SHOWN ON THE DRAWINGS, HOWEVER THESE MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR WILL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THESE FACILITIES, INCLUDING, BUT NOT LIMITED TO; COORDINATION WITH AIRPORT AND FAA TECH OPS PERSONNEL TO IDENTIFY ABOVE GROUND EQUIPMENT AND BELOW GROUND FACILITIES AND CABLING, AND BARRICADING AROUND EQUIPMENT AS NECESSARY TO MAINTAIN SEPARATION BETWEEN CONTRACTOR'S EQUIPMENT AND AIRPORT FACILITIES. ANY DAMAGE TO NAVAIDS OR OTHER FACILITIES WILL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER. A NOTAM WILL BE ISSUED TO CLOSE RUNWAYS AFFECTED BY UNANTICIPATED POWER OUTAGES OF NAVAIDS AND THE CONTRACTOR SHALL IMMEDIATELY RESTORE POWER.

2.9 CONTRACTOR ACCESS

CONSTRUCTION SITE ACCESS AND HAUL ROAD

1. HAUL ROADS TO BE USED ON THIS PROJECT ARE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY AUTHORIZED BY THE DESIGNER AND AIRPORT. THE CONTRACTOR SHALL CONFINE ALL VEHICLES AND EQUIPMENT TO THE DESIGNATED CONSTRUCTION AREAS, STAGING AREAS AND HAUL ROUTES.
2. ACCESS POINTS TO THE PROJECT WORK ARE SHOWN ON THE DRAWINGS. THE AIRPORT AOA SECURITY LINE SHALL BE SECURED OR MONITORED BY APPROPRIATELY AUTHORIZED PERSONNEL AT ALL TIMES. TEMPORARY AOA FENCE INSTALLATIONS AND GATES SHALL BE SECURELY LOCKED OR MONITORED BY APPROPRIATELY AUTHORIZED PERSONNEL AT ALL TIMES.
3. THE CONTRACTOR SHALL RESTORE ALL TURFED AND PAVED AREAS USED FOR HAUL ROADS TO THEIR ORIGINAL CONDITION, INCLUDING ESTABLISHMENT OF NEW TURF. ALL COSTS FOR CONSTRUCTING, REMOVING, AND RESTORING OF HAUL ROADS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE BORNE BY THE CONTRACTOR.THE EXISTING CONDITION OF ALL ANTICIPATED HAUL ROUTES SHALL BE DOCUMENTED PRIOR TO HAULING. PAVEMENT MARKINGS ALONG HAUL ROUTES MAY REQUIRE REMARKING DURING THE PROJECT. THE CONTRACTOR SHALL PERFORM THE REMARKINGS WHEN DIRECTED BY THE AIRPORT. REMARKING IS INCIDENTAL TO MOBILIZATION.
4. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE PROJECT SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING ALL MATERIAL ORDERS FOR DELIVERY TO THE SITE.
6. FOR OPERATIONS DURING TEMPORARY AOA FENCE INSTALLATION AND/OR RELOCATIONS, THE CONTRACTOR SHALL MONITOR OR SECURE THE AOA FENCE LINE AT ALL TIMES.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF OFF-SITE ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE.
8. ALL VEHICLES USING HAUL ROUTES INCLUDING OFF-SITE ROUTES, SHALL BE COVERED TO PREVENT BLOWING AWAY OR SPILLAGE OF LOOSE MATERIAL. ALL SPILLAGES ON PUBLIC ROADWAYS AND SITE ROADS SHALL BE PROMPTLY CLEANED UP AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE AIRPORT.
9. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY ACCESS OR HAUL ROADS OTHER THAN THOSE DESIGNATED ON THE CONTRACT DRAWINGS. AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) RIGHT-OF-WAY ON ACCESS ROADS, HAUL ROADS, APRONS, TAXIWAYS, AND RUNWAYS SHALL NOT BE IMPEDED AT ANY TIME.
10. FLAGGERS ARE NOT ANTICIPATED FOR THIS PROJECT, HOWEVER IF IT BECOMES NECESSARY FOR THE CONTRACTOR TO REGULARLY CROSS ATCT CONTROLLED MOVEMENT AREAS. THE CONTRACTOR SHALL PROVIDE FLAGGERS FOR THEIR OPERATIONS. VEHICULAR TRAFFIC CROSSING ACTIVE MOVEMENT AREAS MUST BE CONTROLLED EITHER BY TWO-WAY RADIO WITH THE ATCT, ESCORT, FLAGMAN, SIGNAL LIGHT, OR OTHER MEANS APPROPRIATE FOR THE PARTICULAR CROSSING. FLAGGERS FURNISHED BY THE CONTRACTOR MUST BE USED TO DIRECT AND CONTROL CONSTRUCTION TRAFFIC, EQUIPMENT, AND PERSONNEL TO A PRE-ESTABLISHED SETBACK DISTANCE FOR SAFE PASSAGE OF AIRCRAFT, AND FLAGGER MUST BE TRAINED BY THE AIRPORT TO ENSURE NO INADVERTENT ACCESS OF CONSTRUCTION VEHICLES INTO THE MOVEMENT AREA.

CONTRACTOR STAGING AREA

1. THE LIMITS OF CONSTRUCTION, CONTRACTOR'S STAGING AREA AND STOCKPILE AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION ARE SHOWN ON THE PLANS. ADDITIONAL AREAS MAY BE REQUESTED BY THE CONTRACTOR AND APPROVED BY AIRPORT. THE CONTRACTOR SHALL PROVIDE DEVICES VISIBLE FOR BOTH DAY AND NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.
2. CONTRACTOR SHALL UTILIZE EXISTING GRAVEL OR PAVED AREAS OR INSTALL A MINIMUM 3" THICK GRADED AND COMPACTED GRAVEL BED TO THE LIMITS OF THE CONTRACTOR STAGING AREA THAT IS NOT ASPHALT OR CONCRETE PAVEMENT. THE CONTRACTOR SHALL PROTECT ALL EXISTING DRAINAGE STRUCTURES FROM ANY DAMAGE CAUSED WHILE THE AREA IS BEING USED AS A CONSTRUCTION STAGING AREA. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE AIRPORT AND AT NO ADDITIONAL COST TO THE AIRPORT. A STAGING AREA LAYOUT PLAN SHALL BE SUBMITTED TO AIRPORT AND THE DESIGNER FOR REVIEW AND APPROVED PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS WITHIN 6 FEET OF AOA FENCE.
4. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AT THE STAGING AND STOCKPILE AREAS AND PROVIDE TEMPORARY ROUTING OF STORM WATER AROUND THE AREAS, COST SHALL BE INCIDENTAL TO MOBILIZATION.
5. IF NECESSARY, IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE BATCH PLANT AND CONTRACTOR STAGING AREAS, THE CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCE AROUND THE STAGING AREA AND PROVIDE INLET PROTECTION DEVICES FOR ALL EXISTING DRAINAGE STRUCTURES. NOT ANTICIPATED FOR THIS PROJECT.
6. IF NECESSARY ALL EROSION CONTROL MEASURES WITHIN THE CONTRACTOR STAGING AREA SHALL BE INCIDENTAL TO MOBILIZATION.
7. CONTRACTOR SHALL INFORM THE CONSTRUCTION ADMIN TEAM'S FIELD REPRESENTATIVE ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES.
8. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SITE, INCLUDING WATER AND ELECTRIC FOR A BATCH PLANT, IF UTILIZED BY CONTRACTOR. ALL COSTS ASSOCIATED WITH TEMPORARY UTILITIES SHALL BE INCIDENTAL TO MOBILIZATION AND GENERAL CONDITIONS.
9. ALL STAGING AREAS SHALL BE INSPECTED AND APPROVED BY AIRPORT'S FIRE MARSHAL. THE CONTRACTOR SHALL SUPPLY ANY AND ALL FIRE FIGHTING EQUIPMENT, PROTECTION AND SAFETY EQUIPMENT/SUPPLIES AS REQUESTED BY THE AIRPORT'S FIRE MARSHAL WITHIN 24 HOURS AFTER REQUESTED.
10. CONTRACTOR SHALL SUPPLY COVERED TRASH AND RUBBISH DUMPSTERS AND ALL OTHER CONTAINERS FOR REMOVAL OF TRASH, RUBBISH, AND DEBRIS RESULTING FROM THE WORK OF THE CONTRACT. THE CONTRACTOR SHOULD NOT ALLOW DUMPSTERS TO OVERFLOW.
11. THE CONTRACTOR SHALL COMPLETELY CLEAN UP AND RESTORE THE ENTIRE STAGING AND STORAGE AREAS, AS APPROVED BY AIRPORT PRIOR TO FINAL COMPLETION. ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE AT THE CONTRACTORS EXPENSE, UNLESS PRIOR APPROVAL HAS BEEN GIVEN FROM THE AIRPORT AND THE STAGING AREA GRADED SMOOTH, SLOPED TO DRAIN AND SEEDED. INCIDENTAL TO MOBILIZATION AND GENERAL CONDITIONS.

CONTRACTOR EMPLOYEE AND EQUIPMENT PARKING

1. ALL VEHICLES SHALL BE PARKED AND SERVICED IN THE DESIGNATED STAGING AREA SHOWN ON THE PLANS.
2. ALL MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS AND NOT PENETRATE CLEARANCE HEIGHT RESTRICTIONS AS SHOWN ON THE CONSTRUCTION PLAN(S). ALL EQUIPMENT SHALL BE PARKED IN THE APPROPRIATE AREA(S) WHEN NOT IN USE.

VEHICLE CONDITION

1. VEHICLES AND EQUIPMENT THAT ARE DEEMED A POTENTIAL HAZARD BY THE DESIGNER OR AIRPORT SHALL BE REMOVED FROM THE JOB SITE AND AIRPORT PROPERTY AT THE REQUEST OF THE DESIGNER. VEHICLES AND EQUIPMENT THAT LEAK ANY AUTOMOTIVE FLUID INCLUDING, BUT NOT LIMITED TO, OIL, HYDRAULIC FLUID, TRANSMISSION FLUID, GEAR OIL, GASOLINE, AND DIESEL WILL BE REMOVED TO THE STAGING AREA AND NOT ALLOWED TO OPERATE ON ANY PAVED SURFACE. IF THE VEHICLE CANNOT BE REPAIRED WITHIN THREE DAYS THE VEHICLE SHALL BE REMOVED FROM THE AIRPORT.
2. THE CONTRACTOR SHALL CLEAN UP, AT CONTRACTOR'S EXPENSE, ANY AND ALL LEAKS OR SPILLS. LEAKS ON PAVED SURFACES SHALL BE CLEANED UP IMMEDIATELY. SIGNIFICANT LEAK SPOTS ON PAVEMENT, AS DETERMINED BY THE DESIGNER, SHALL BE REPLACED WITH NEW PAVEMENT. ASPHALT WILL REQUIRE MILLING AND PLACEMENT OF NEW BITUMINOUS MATERIAL; PCC WILL REQUIRE SAW, REMOVAL AND REPAIR AS DIRECTED BY THE DESIGNER. DIRT OR GRAVEL AREAS WILL REQUIRE REMOVAL, LEGAL DISPOSAL AND REPLACEMENT OF THE AREA WITH SIMILAR APPROVED MATERIALS

LOCATION OF STOCKPILED MATERIALS

1. THERE SHALL NOT BE ANY STOCKPILED MATERIALS IN THE ACTIVE RUNWAY OFA, TAXIWAY OFA, OR NAVAID CRITICAL AREAS. STOCKPILED MATERIAL OR EQUIPMENT SHALL NOT BE STORED NEAR AIRCRAFT TURNING AREAS OR OPERATIONAL MOVEMENT AREAS, APRONS, OR EXCAVATIONS AND TRENCHES, OR WITHIN 10 FEET OF AOA FENCING. STOCKPILED MATERIALS SHALL NOT BE STORED NEAR NAVAIDS, VISUAL OR APPROACH AIDS, NOR SHALL THEY OBSTRUCT THE ATCT'S LINE OF SIGHT TO ANY RUNWAY OR TAXIWAY. THE CONTRACTOR SHALL ENSURE THAT STOCKPILED MATERIALS DO NOT CAUSE DEGRADED OR HAZARDOUS CONDITIONS TO AIRPORT OPERATIONS SAFETY. THIS INCLUDES DETERMINING AND VERIFYING THAT STOCKPILED MATERIALS ARE STORED AT AN APPROVED LOCATION, THAT THEY ARE PROPERLY STOWED TO PREVENT FOREIGN OBJECT DEBRIS (FOD), ATTRACTION BY WILDLIFE, OR OBSTRUCTION OF AIR OPERATIONS EITHER BY THEIR PROXIMITY TO NAVAIDS OR TO AIRCRAFT MOVEMENT AREAS.
2. ALL STOCKPILED MATERIAL/SUPPLIES SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT BLAST OR WIND CONDITIONS. MATERIAL(S)/SUPPLIES SHALL NOT BE STORED WITHIN 500 FEET OF AIRCRAFT TURNING AREAS OR MOVEMENT AREAS. STOCKPILED MATERIAL(S)/SUPPLIES SHALL NOT EXCEED 15 FEET IN HEIGHT UNLESS THE CONTRACTOR HAS COMPLIED WITH ALL REQUIREMENTS FOR AIRSPACING AND SECURED APPROVAL FROM FAA, AIRFIELD OPERATION UNIT OR AIRPORT FACILITIES PLANNING, DESIGN AND CONSTRUCTION. ALL MATERIAL(S)/SUPPLIES SHALL BE POSITIONED SO IT WILL NOT OBSTRUCT THE LINE OF SIGHT FROM THE CONTROL TOWER TO THE MOVEMENT AREA. MARKING AND LIGHTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN BARRICADE DETAILS CHECKLIST.

VEHICLE AND PEDESTRIAN OPERATIONS

1. VEHICLE AND ACCESS ROUTES FOR AIRPORT CONSTRUCTION SHALL BE CONTROLLED AS NECESSARY TO PREVENT INADVERTENT OR UNAUTHORIZED ENTRY OF PERSONS, VEHICLES OR ANIMALS ONTO AIR OPERATION AREAS. NO VEHICLE SHALL ENTER THE AIR OPERATIONS AREA EXCEPT AT PREDETERMINED LOCATIONS. CONTRACTOR PERSONNEL WHO OPERATE VEHICLES IN THE AOA SHALL COMPLY WITH FAA AC 150/5210-5, PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AIRPORTS.
2. ALL CONSTRUCTION VEHICLES/MECHANIZED EQUIPMENT AUTHORIZED WITHIN THE AIRFIELD PERIMETER SHALL BE MARKED WITH A CLEAN 3' X 3' ORANGE AND WHITE CHECKERED FLAG WITH EACH BOX BEING 1' SQUARE OR AN AMBER BEACON, LOCATED ON THE UPPERMOST PORTION OF THE VEHICLE/MOTORIZED EQUIPMENT; OR BE ESCORTED BY A VEHICLE SO EQUIPPED. DURING NIGHTTIME HOURS ALL OPERATING VEHICLES SHALL BE MARKED WITH A BEACON.
3. DURING NIGHTTIME HOURS, ALL EQUIPMENT OPERATING ON THE AIRPORT EXCEEDING 35 FEET IN HEIGHT SHALL BE LIT WITH A RED OBSTRUCTION LIGHT LOCATED ON THE UPPERMOST PORTION OF THE EQUIPMENT.

REQUIRED ESCORTS

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN EMPLOYEE WITH A PHOTO AIRPORT ID TO BE RESPONSIBLE FOR THE ESCORTING OF ALL VENDOR/SUPPLIERS REQUIRING ACCESS TO THE CONSTRUCTION SITE. THIS INDIVIDUAL WILL BE KNOWLEDGEABLE IN ALL APPLICABLE AIRPORT SECURITY, SAFETY, AOA DRIVING RULES AND REGULATIONS. THE NAME OF THIS INDIVIDUAL WILL BE PROVIDED TO THE AIRPORT OPERATION/SECURITY MANAGER.
2. THE CONTRACTOR MUST PROVIDE AN APPROPRIATELY TRAINED AND AUTHORIZED ESCORT FOR FOR ANY VEHICLE OR EQUIPMENT ON THE AIRCRAFT MOVEMENT AREAS OR WITHIN THE AOA FENCE, IF SO AUTHORIZED FOR SUCH OPERATIONS BY THE AIRPORT. EACH ESCORT MAY ACCOMPANY A MAXIMUM OF 5 VEHICLES AT A TIME ACROSS MOVEMENT AREAS.
3. DURING ANY ABSENCE OF THE APPROVED ESCORT(S) OR FOR PERIODS THAT THEY ARE UNABLE TO PERFORM THEIR SPECIFIED DUTIES, ALL WORK WITHIN THE MOVEMENT AREA AND ASSOCIATED SAFETY AREAS FOR PROJECTS SHALL STOP. ADDITIONALLY, ALL PERSONNEL AND EQUIPMENT SHALL BE ESCORTED TO APPROVED LOCATIONS OUTSIDE THE MOVEMENT AREA AND RELATED SAFETY AREAS. NO CONTRACT TIME EXTENSION WILL BE GRANTED FOR TIME LOST DUE TO THE ABSENCE OF ESCORT(S). WORK SHALL RESUME ONLY WITH THE RETURN OF THE APPROVED ESCORT(S).
4. THE ESCORT SHALL ASSURE THAT ALL EQUIPMENT MAINTAINS PROPER CLEARANCES FROM MOVING AIRCRAFT AND REMAINS WITHIN APPROVED LOCATIONS.

BADGING AND TRAINING REQUIREMENTS FOR VEHICLE DRIVERS

1. ALL CONTRACTOR PERSONNEL WORKING WITHIN THE AOA SHALL POSSESS AND APPROPRIATELY DISPLAY AN AIRPORT IDENTIFICATION BADGE. APPLICANTS WILL BE REQUIRED TO ATTEND AN AIRPORT TRAINING COURSE ON AIRPORT SECURITY AND AOA DRIVING SAFETY TRAINING (FOR THOSE REQUIRING DRIVING PRIVELDGES) AND PASS A SHORT TEST. TWO PIECES OF IDENTIFICATION ARE REQUIRED FOR BADGE ISSUANCE, ONE OF WHICH MUST BE A GOVERNMENT OR SCHOOL ISSUED PHOTO ID. THE CONTRACTOR SHALL CONTACT THE AIRPORT FOR SCHEDULING THE REQUIRED TRAINING FOR AN AOA ACCESS BADGE AND AOA DRIVING PRIVILEGES, FOR INFORMATION REGARDING THE TIMES TRAINING IS OFFERED, AND THE COSTS FOR TRAINING AND BADGES.

MAINTENANCE OF THE SECURED AREA OF THE AIRPORT

1. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS AS PER THE PHASING PLAN. CONFINE PEOPLE, EQUIPMENT AND MATERIALS OUTSIDE OF THE RUNWAY SAFETY AREA (RSA) WHEN RUNWAY IS ACTIVE. CONFINE PEOPLE, EQUIPMENT AND MATERIALS OUTSIDE OF THE TAXIWAY OBJECT FREE AREA (TOFA) WHEN THE TAXIWAY IS ACTIVE. SEE THE SPECIFICATIONS FOR SPECIAL CONDITIONS AND FOR OTHER CONDITIONS RELATING TO SAFETY.
2. THE CONTRACTOR SHALL HAVE ACCESS TO THE AIRPORT ONLY AT THOSE LOCATIONS DESIGNATED ON THE PLANS. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY THE AIRPORT. THE CONTRACTOR WILL PROVIDE PERSONNEL TO CONTROL MOVEMENTS THROUGH THE CONTRACTOR'S ACCESS GATE UNLESS THE GATE REMAINS LOCKED.

2.10 WILDLIFE MANAGEMENT

1. CONTRACTOR SHALL INSTRUCT EMPLOYEES NOT TO DISCARD FOOD OR OTHER TRASH ON OR AROUND WORK SITES THAT COULD ATTRACT WILDLIFE. CONTRACTOR EMPLOYEES SHALL NOT INTENTIONALLY FEED ANY WILDLIFE WHILE WORKING AT THE AIRPORT.
2. CONTRACTOR SHALL PROPERLY SEAL ALL TRASH CONTAINERS AT WORK SITES SUCH THAT WILDLIFE CANNOT GAIN ACCESS TO CONTAINERS DURING NON-CONSTRUCTION PERIODS.
3. CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS STAFF IF LARGE NUMBERS OF BIRDS ARE OBSERVED AT WORK SITES. CONTRACTOR SHALL IMMEDIATELY NOTIFY OPERATIONS STAFF IF DEER ARE SIGHTED WITHIN THE AIRFIELD FENCE.
4. CONTRACTORS MUST CAREFULLY CONTROL AND CONTINUOUSLY REMOVE WASTE OR LOOSE MATERIALS THAT CAN CREATE WILDLIFE HAZARDS OR ATTRACTANTS. THESE INCLUDE TRASH, STANDING WATER, TALL GRASS, SCATTERED SEEDS, POORLY MAINTAINED FENCING, AND DISRUPTION OF EXISTING HABITAT.

2.11 FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

1. IF NECESSARY, THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES A VACUUM TYPE MECHANICAL SWEEPER AND WATER TRUCK TO CLEAN ALL TAXIWAY AND APRON PAVEMENT OF DIRT, STONES, AND LOOSE DEBRIS FROM AIRPORT PAVED SURFACES. NO DIRECT PAY WILL BE MADE FOR VACUUM AND WATER TRUCKS OR FOR PAVEMENT CLEANING.
2. NO DEBRIS SHALL BE ALLOWED TO REMAIN ON THE ROADWAYS OR AIRPORT PAVED SURFACES. ACTIVE TAXIWAYS AND APRONS SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES. PAYMENT FOR VACUUM SWEEPING AND CLEANING OF RUNWAYS, TAXIWAYS AND/OR APRONS IS INCIDENTAL TO OTHER ITEMS IN THIS CONTRACT.
3. IF NECESSARY, THE CONTRACTOR SHALL HAVE AVAILABLE AT ALL TIMES A METHOD OF PERIODIC SPRAYING OF ANY STOCKPILE OR EXPOSED AREAS TO LIMIT DUST.

2.12 HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

1. HAZARDOUS MATERIALS CAN BE EASILY IDENTIFIED USING THE U.S. DEPARTMENT OF TRANSPORTATION (DOT) LABELING AND IDENTIFICATION SYSTEM. ALL HAZARDOUS MATERIALS ARRIVING ON SITE MUST BE PROPERLY LABELED, STORED, AND MANAGED AS REQUIRED BY THE MATERIAL SAFETY DATA SHEET (MSDS) FOR THAT MATERIAL, OR AS DIRECTED BY ERIE AIRPORT (AIRPORT) FIRE, AIRPORT ENVIRONMENTAL AND AIRPORT RISK MANAGEMENT.
2. ALL WASTES SHALL BE PROPERLY STORED, LABELED, MANAGED, AND DISPOSED OF IN ACCORDANCE WITH AIRPORT PROJECT SPECIFICATIONS AND STATE AND FEDERAL REGULATIONS, OR AS OTHERWISE DIRECTED BY THE AIRPORT ENVIRONMENTAL PERSONNEL.
3. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED TO HAVE COPIES OF ALL MSDS'S FOR ALL MATERIALS BROUGHT ON SITE.
4. IF SUSPECT UNKNOWN HAZARDOUS MATERIALS ARE IDENTIFIED, THE WORK WILL STOP UNTIL FURTHER DIRECTION BY THE AIRPORT ENVIRONMENTAL AND RISK MANAGEMENT DEPARTMENTS.
5. IF POTENTIALLY HAZARDOUS WASTE/MATERIALS HAVE BEEN INDICATED IN THE BID DOCUMENTS AND COULD BE FORESEEN IN A PROJECT, PROPOSAL, OR WORK ORDER, THEN THE CONTRACTOR IS EXPECTED TO HAVE ONSITE THE PROPER PERSONAL PROTECTIVE EQUIPMENT AND INSTRUMENTS FOR DETECTION AND SAFETY.
6. PROJECTS THAT INCLUDE ABATEMENT OR REMEDIATION MUST HAVE THEIR OWN SPECIFIC JOB PLANS.
7. CONTRACTOR MUST IMMEDIATELY REPORT SPILLS TO AIRPORT OPERATIONS AND APPROPRIATE STATE DEPARTMENTS. REPORTS ARE TO CONFORM TO STATE REQUIREMENTS.

2.13 NOTIFICATION OF CONSTRUCTION ACTIVITIES

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY IN WRITING, AT LEAST 5 DAYS IN ADVANCE, AIRPORT OPERATIONS AND THE DESIGNER OF ITS INTENTIONS TO BEGIN CONSTRUCTION, STATING THE PROPOSED TIME, DATE, AND AREA OF WHICH CONSTRUCTION IS TO OCCUR IN ORDER FOR THE APPROPRIATE NOTICE-TO-AIRMEN (NOTAM) TO BE ISSUED. DURING THE PERFORMANCE OF THIS CONTRACT, THE AIRPORT FACILITY SHALL REMAIN IN USE TO THE MAXIMUM EXTENT POSSIBLE. THE CONTRACTOR SHALL NOT ALLOW EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER UNAUTHORIZED PERSONS TO ENTER IN ANY AIRPORT AREA WHICH MAY BE OPEN FOR AIRCRAFT USE, EXCEPT AS NOTED ON THE CONSTRUCTION SAFETY PHASING PLAN.
2. CONTRACTOR SHALL INFORM THE DESIGNER'S FIELD REPRESENTATIVE ON A DAILY BASIS OF THE DAILY CONSTRUCTION ACTIVITIES.
3. RESPONSIBLE REPRESENTATIVE/POINTS OF CONTACT
   A. AIRPORT
      - AIRFIELD OPERATIONS/SECURITY - IAN BOGLE
      - AIRPORT FIRE - EMERGENCY RESPONSE - CONTACT 911
      - PROJECT MANAGER - DEREK MARTIN

   B. RESIDENT PROJECT REPRESENTATIVE

      MEAD & HUNT, INC.
      2605 PORT LANSING ROAD
      LANSING, MI 48906
      (517) 321-8334

   C. CONTRACTOR

      TBD
      TBD
      TBD
4. NOTAMS
   A. IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN AIRPORT PROPERTY, APPROPRIATE NOTICES TO AIRMEN (NOTAM) MUST BE ISSUED BY THE AIRPORT THROUGH THE FAA FLIGHT SERVICE STATION. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72 HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE PROPER NOTAM, ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE DESIGNER FOR NOTAM ISSUANCE.
5. EMERGENCY NOTIFICATION PROCEDURES
   A. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 IF AN ACCIDENT OCCURS WITH INJURIES ON AIRPORT PROPERTY ADVISING THE LOCATION IS ON ERIE AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT.
   B. AFTER NOTIFYING 911, THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY AIRPORT OPERATIONS.
   C. WITHIN 24 HOURS, THE CONTRACTOR SHALL REPORT ALL ACCIDENTS TO AIRPORT AIRFIELD OPERATIONS AND THE CONSTRUCTION MANAGEMENT TEAM.

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
SEAN THOMPSON
ENGINEER
PE090267
1/13/21

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL
4411 WEST 12TH STREET
ERIE, PENNSYLVANIA

ISSUED

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: SCT
DRAWN BY: SCT
CHECKED BY: MDB
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CONSTRUCTION SAFETY PHASING NOTES

SHEET NO.:
G-082

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6. COORDINATION WITH ARFF

   A. IF A FIRE OCCURS ON AIRPORT PROPERTY THE CONTRACTOR SHALL NOT ATTEMPT TO FIGHT THE FIRE BEYOND WHAT MAY BE DOUSED BY USE OF A FIRE EXTINGUISHER. THE CONTRACTOR SHALL IMMEDIATELY CALL 911 ADVISING THE LOCATION IS ON ERIE AIRPORT FOR THEM TO COORDINATE WITH THE AIRPORT.

   B. AFTER NOTIFYING 911, THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY AIRPORT OPERATIONS.

   C. NON-EMERGENCY COMMUNICATION WITH ERIE AIRPORT ARFF WILL BE COORDINATED BY THE AIRPORT CONSTRUCTION ADMINISTRATION TEAM.

   D. AN ERIE AIRPORT ARFF REPRESENTATIVE WILL BE INVITED TO ATTEND THE PRECONSTRUCTION CONFERENCE AT WHICH TIME THE OVERALL CONSTRUCTION SCHEDULE WILL BE PRESENTED.

   E. A MEETING WILL BE SCHEDULED WITH THE ERIE AIRPORT ARFF REPRESENTATIVE PRIOR TO THE START OF EACH MAJOR CONSTRUCTION PHASE WHICH SIGNIFICANTLY IMPACTS/MODIFIES AIRFIELD CLOSURES THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. PARTICIPANTS IN THESE MEETINGS SHALL INCLUDE: AIRPORT STAFF, AIRPORT OPERATIONS, CBP REPRESENTATIVES, DESIGN TEAM, CONSTRUCTION ADMINISTRATION TEAM, CONTRACTOR, AND SUBCONTRACTORS.

7. NOTIFICATION TO THE FAA

   A. THE CONTRACTOR'S USE OF CRANES, BOOM TRUCKS, CONCRETE PUMP TRUCKS, DRILL RIGS AND OTHER TALL OBJECTS WILL REQUIRE SUBMITTAL AND APPROVAL BY THE AIRPORT AND DESIGNER. DEPENDENT ON THE LOCATION AND USAGE, THE EQUIPMENT MAY REQUIRE FAA AIRSPACE REVIEW AS SUBMITTAL ON FAA FORM 7460-1 NOTICE OF CONSTRUCTION, WHICH COULD TAKE UP TO 90 DAYS.

   B. IF CONTRACTOR REQUIRES EQUIPMENT IN EXCESS OF MAXIMUM ALLOWABLE HEIGHTS IDENTIFIED ON THE CSPP, THEY MUST SUBMIT A 7460-1 30 DAYS IN ADVANCE OF CRANE ERECTION. ALL CONSTRUCTION INVOLVING CRANES SHALL FURTHER BE COORDINATED AT LEAST 5 DAYS IN ADVANCE, EXCLUDING WEEKENDS, WITH THE AIRPORT. THIS DOES NOT INCLUDE THE TIME REQUIRED FOR AIRSPACE REVIEW. THE FOLLOWING INFORMATION AND ACTIONS ARE REQUIRED:

      - LOCATION OF THE CRANE (LATITUDE AND LONGITUDE).
      - MAXIMUM EXTENDABLE HEIGHT.
      - HOURS OF OPERATION.
      - THE TOP OF EACH CRANE BOOM SHALL BE MARKED BY A 3' X 3' ORANGE AND WHITE CHECKERED FLAG -- EACH BOX BEING 1' SQUARE.
      - EACH CRANE SHALL BE LOWERED AT NIGHT AND DURING PERIODS OF POOR VISIBILITY AS DIRECTED BY AIRPORT OPERATIONS. IN THE EVENT THE CRANE IS APPROVED TO REMAIN EXTENDED DURING THE HOURS FROM SUNSET TO SUNRISE, THE HIGHEST POINT OF THE CRANE BOOM WILL BE LIT WITH A RED OBSTRUCTION LIGHT IN ACCORDANCE WITH AC 70/7460-1.

8. THE AIRPORT WILL SUBMIT TO THE FAA FOR APPROVAL A NOTICE OF CONSTRUCTION (7460-1) FOR THE STAGING AREA (25 FEET IN HEIGHT), AND LIMITS OF CONSTRUCTION (25 FEET IN HEIGHT) AS SHOWN ON THE PLANS.

2.14 INSPECTION REQUIREMENTS

1. CONSTRUCTION EQUIPMENT: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION EQUIPMENT ON A DAILY BASIS TO ENSURE THAT THE EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ORANGE AND WHITE CONSTRUCTION FLAGS AND BEACONS ARE PRESENT, CLEAN, AND IN GOOD CONDITION.
2. CONSTRUCTION BARRICADES: THE CONTRACTOR SHALL INSPECT ALL CONSTRUCTION BARRICADES ON A DAILY BASIS TO ENSURE THAT BARRICADES ARE IN GOOD CONDITION AND THAT FLASHING BEACONS ARE IN WORKING ORDER. IF BARRICADES ARE DAMAGED THEY SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND REPLACED IMMEDIATELY. ANY INOPERABLE FLASHING LIGHTS WILL BE REMOVED AND REPLACED AT THE END OF EVERY DAY.
3. LIGHTED RUNWAY CLOSURE 'X'S: THE CONTRACTOR SHALL INSPECT ALL LIGHTED CLOSURE 'X'S ON A DAILY BASIS TO ENSURE THEY ARE IN GOOD CONDITION, ARE PROPERLY FUELED, AND ALL BULBS ARE IN WORKING ORDER. IF ANY LIGHTED CLOSURE 'X' OR BULBS ARE DAMAGED THEY SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND REPLACED IMMEDIATELY.
4. CONSTRUCTION EQUIPMENT FUELING AREA: THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION EQUIPMENT FUELING AREA DAILY. ANY FUEL SPILLS WILL BE REPORTED TO AIRPORT OPERATIONS AS SOON AS SPILL HAS BEEN IDENTIFIED. IF TEMPORARY FUEL TANKS ARE SUPPLIED BY THE CONTRACTOR THEY MUST BE SURROUNDED BY CONCRETE JERSEY BARRIERS. ALSO, TANKS MUST BE MARKED FLAMMABLE ON ALL SIDES AND LABELED WITH THE TYPE OF FUEL THEY CONTAIN.
5. ACTIVE AIRPORT PAVEMENTS WITHIN CONSTRUCTION SITE: THE CONTRACTOR SHALL INSPECT ALL ACTIVE AIRPORT PAVEMENTS WITHIN THE CONSTRUCTION SITE CONTINUOUSLY DURING CONSTRUCTION ACTIVITIES. MATERIALS TRACKED ONTO ACTIVE AIRPORT PAVEMENTS MUST BE CONTINUOUSLY REMOVED DURING THE PROJECT. PRIOR TO LEAVING THE CONSTRUCTION SITE AT THE END OF EACH DAY, THE CONTRACTOR MUST CONTACT ERIE AIRPORT OPERATIONS FOR AN INSPECTION OF THE CLEANLINESS OF AIRPORT PAVEMENTS.
6. THE AIRPORT OPERATOR SHALL CONDUCT ADDITIONAL SELF-INSPECTIONS IN THE VICINITY OF THE PROJECT WITH SPECIAL EMPHASIS ON THE PRESENCE OF FOD THAT COULD DAMAGE AIRCRAFT. ALL CONSTRUCTION AREAS MUST BE INSPECTED BY AIRPORT MANAGEMENT IN ACCORDANCE WITH 14 CFR PART 139 PRIOR TO REOPENING TO AIR CARRIERS. INSPECTIONS WILL BE CONDUCTED OF ALL AREAS TO BE REOPENED TO AIRCRAFT TRAFFIC TO ENSURE THE PROPER OPERATION OF LIGHTS AND SIGNS, FOR CORRECT MARKINGS, AND ABSENCE OF FOD. THE CONTRACTOR SHALL IMMEDIATELY CORRECT ANY DEFICIENCIES FOR AREAS OPEN (OR ABOUT TO BE OPENED) TO AIRCRAFT OPERATIONS ASSOCIATED WITH THE CONTRACTOR'S WORK OR OPERATIONS.
7. A FINAL FAA SAFETY INSPECTION MAY BE REQUIRED PRIOR TO ALLOWING AIRCRAFT OPERATIONS THROUGH THE AREA. COORDINATION WITH THE FAA AIRPORT CERTIFICATION SAFETY INSPECTOR WILL DETERMINE IF A FINAL FAA SAFETY INSPECTION WILL BE NECESSARY.

2.15 UNDERGROUND UTILITIES

1. THE CONTRACTOR SHALL IDENTIFY ANY KNOWN UNDERGROUND INTERFERENCES OR DISCREPANCIES ON ALL AVAILABLE DRAWINGS THAT CAN BE PROVIDED BY CONTACTING THE DESIGNER AND AIRPORT.
2. PRIOR TO COMMENCING ANY EXCAVATION (ON OR OFF AOA), DRILLING (ON OR OFF THE AOA), DRIVING FENCE POSTS (ALONG THE AOA), TRENCHING (ON OR OFF THE AOA), SAW CUTTING (AOA ONLY), THE CONTRACTOR SHALL REVIEW DRAWINGS WITH AIRPORT PERSONNEL TO INSURE THAT ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES ARE IDENTIFIED. IN ADDITION THE CONTRACTOR SHALL CONTACT PA ONE CALL AND COORDINATE WITH THE AIRPORT TO ASSIGN THE MARKING OF UTILITIES BY THE AIRPORT, PA ONE CALL, FAA, AND THE CONTRACTOR TO ATTEMPT TO LOCATE UTILITIES. THE CONTRACTOR WILL BE COMPLETELY RESPONSIBLE FOR ALL DAMAGE TO UNDERGROUND UTILITIES. THE CONTRACTOR SHALL COORDINATE REQUEST FOR UTILITY MARKING AT LEAST 72 HOURS PRIOR TO ANY EXCAVATIONS. ONE MARKING OF THE IDENTIFIED AREA IS COVERED UNDER CONTRACT. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE UTILITY MARKINGS HAVE BEEN COMPLETED BY THE APPROPRIATE AGENCIES. IF THE UTILITY MARKINGS ENCOMPASSES MORE THAN 5,000 LINEAR FEET OR ONE ACRE, THE REQUEST SHALL BE MADE AT LEAST TWO WEEKS PRIOR TO COMPLETING THE EXCAVATION CHECKLIST. AIRPORT WILL NOTIFY THE CONTRACTOR WITHIN 24 HOURS AFTER RECEIVING NOTICE. AT THAT TIME THE AIRPORT WILL INDICATE IF IT CAN COMPLETE THE UTILITY MARKING. IF IT CAN'T, THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLETE THE UTILITY MARKING AND/OR USE PA ONE CALL.
3. EACH UTILITY SHALL BE MARKED IN THE FOLLOWING MANNER:

   A. FLAGS CAN BE USED BUT SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. IN ADDITION THE “ACRONYM” FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE FLAG WITH A PERMANENT MARKER.

   B. STAKES CAN BE USED. THE TOP TWO INCHES OF THE STAKE SHALL BE PAINTED IN COLOR AS SUGGESTED BELOW. IN ADDITION THE “ACRONYM” FOR THAT UTILITY SHALL BE WRITTEN ON ONE SIDE OF THE STAKE WITH A PERMANENT MARKER.

   C. PAINTING IS ONLY AUTHORIZED ON ASPHALT, CONCRETE, AND METAL SURFACES. MARKINGS SHALL BE COLOR COORDINATED AS SUGGESTED BELOW. THE ACRONYM FOR THE UTILITY SHALL BE USED FOR EACH UTILITY. A LINE THAT SHOWS THE DIRECTION OF THE UTILITY SHALL EMANATE FROM THE ACRONYM IN EACH DIRECTION.

5. ALL MARKING OF UTILITIES SHALL BE EVERY 50 FEET.

	ACRONYM	COLOR
ELECTRICAL LOOPS (NON AOA)	USE “ELEC”	RED
AIRFIELD ELECTRICAL	USE “ELEC”	RED
NATURAL GAS	USE “NAT GAS”	YELLOW
SANITARY	USE “SANIT”	BROWN
STORM	USE “STORM”	BROWN
COMBINED SEWERS	USE “COMBO”	BROWN
WATER (POTABLE AND FIRE)	USE “WATER”	BLUE
FAA COPPER	USE “FAA COP”	RED
FAA FIBER	USE “FAA FIB”	ORANGE
AIRPORT FIBER	USE “FIBER”	ORANGE
TELEPHONE	USE “TELE”	ORANGE
JET FUEL	USE “JET FUEL”	YELLOW
GLYCOL	USE “GLYCOL”	BLUE
OIL	USE “OIL”	YELLOW
GASOLINE	USE “GAS”	YELLOW
DIESEL	USE “DIESEL”	YELLOW
STEAM	USE “STEAM”	BLACK
CONDENSATE	USE “CONDEN”	BLACK

6. IF UNDERGROUND UTILITY IS ABANDONED, CONTRACTOR SHALL STILL STAKE, MARK, OR FLAG BUT WRITE DOWN “ABAND” BEFORE THE ABBREVIATED PREFIX INDICATED ABOVE.
7. THE INDIVIDUAL MARKING, STAKING, OR FLAGGING SHALL MARK THE UTILITIES IN A WAY THAT COINCIDES WITH THE DRAWINGS THAT ARE REFERENCED ON THE REQUEST FOR SWEEP FORM.
8. IF A UTILITY OR ANY UNDERGROUND OBSTRUCTION IS FOUND IT SHALL BE REPORTED IMMEDIATELY TO THE DESIGNER OR THE AIRPORT PROJECT SUPERVISOR.
9. CONTRACTOR EMPLOYEES IN AN EXCAVATION SHALL BE PROTECTED FROM CAVE-INS BY AN ADEQUATE PROTECTIVE SYSTEM UNLESS THE EXCAVATION IS:

   A. MADE ENTIRELY OF STABLE ROCK, OR

   B. LESS THAN 5 FEET DEEP AND DETERMINATION HAS BEEN MADE THAT THERE IS NO POTENTIAL FOR A CAVE-IN.

10. EXCAVATION SHALL BE PROTECTED USING PROPER BARRICADING MATERIALS WHICH SHALL BE INSTALLED A MINIMUM OF 6 FEET BACK FROM EXCAVATION (UNLESS IN CONFLICT WITH AIRFIELD REQUIREMENTS). BARRICADE MATERIAL CAN BE WOOD, STEEL CABLES, OR CHAIN SUPPORTED AT INTERVALS SO THAT THE BARRICADE DOES NOT SAG OR DROOP BELOW THE REQUIRED HEIGHT. CAUTION TAPE IS NOT AN APPROVED BARRICADE MATERIAL. GUARDRAIL/JERSEY BARRIERS MAY BE REQUIRED AND SHALL PROVIDE A TOP RAIL, MID RAIL, AND TOE BOARD AT PROPER ELEVATIONS AND BE ABLE TO WITHSTAND A MINIMUM 200 POUND FORCE WITHOUT COLLAPSING.
11. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING UTILITY INFORMATION FOR USE DURING CONSTRUCTION AND PREPARATION OF AS-BUILTS.
12. SHOULD THE CONTRACTOR NEED ADDITIONAL UTILITY MARKINGS TO BE PERFORMED BY THE AIRPORT, THE CONTRACTOR SHALL SUBMIT A NEW CONTRACTOR REQUEST FOR UTILITY MARKING FORM. IF A MARKING OF AN AREA ALREADY MARKED IS REQUESTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS OF THE SUBSEQUENT UTILITY MARKINGS, INCLUDING TIME FOR AIRPORT PERSONNEL.

2.16 PENALTIES

CONTINUOUS SURVEILLANCE SHALL BE MAINTAINED TO ENSURE THAT ONLY AUTHORIZED VEHICLES AND PERSONS ARE ON THE AIRFIELD OPERATIONS AREA. RULES, REGULATIONS, AND PROCEDURES ARE OUTLINED AND IN PLACE TO ENSURE THE SAFETY OF THE AOA AND ENTITIES THROUGHOUT THE AIRPORT. ANY VIOLATIONS TO THE RULES, REGULATIONS, AND PROCEDURES REGARDING THIS PROJECT WILL FALL UNDER THE RESPONSIBILITY OF THE CONTRACTOR AND ITS SUBCONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FINES THAT MAY BE ASSESSED EITHER TO THEM OR AIRPORT AS A RESULT OF NEGLIGENCE OR NON-COMPLIANCE WITH THE RULES, REGULATIONS, PROCEDURES AND SAFETY PLANS IN RELATION TO THIS PROJECT. SEVERITY OF FINES OR DISCIPLINARY ACTIONS MAY INCLUDE SUSPENSION OR TERMINATION OF BADGED EMPLOYEES AOA DRIVING PRIVILEGES, ACCESS TO THE AOA, OR MONETARY FINES.

2.17 SPECIAL CONDITIONS

SPECIAL CONDITIONS MAY IMPACT THE PERFORMANCE OF WORK ON THE AOA. IN THESE INSTANCES, THE CONTRACTOR WILL BE NOTIFIED OF THE ACTIONS THAT MUST BE TAKEN BY AIRPORT AIRFIELD OPERATIONS TO ENSURE THE SAFETY OF THE AIRPORT AND ITS EMPLOYEES.

1. DURING SPECIAL EVENTS, AIRCRAFT EMERGENCIES, LOCAL AREA EMERGENCIES, VIP ARRIVALS, AND SEVERE WEATHER CONDITIONS, AS DESIGNATED BY AIRPORT OPERATIONS, THE CONTRACTOR MAY BE REQUIRED TO STOP WORK AND VACATE THE CONSTRUCTION SITE. CONTRACTORS MUST TAKE ALL PRECAUTIONS TO ENSURE CONSTRUCTION MATERIAL OR DEBRIS DOES NOT BECOME FOD AND POSE A HAZARD TO THE SAFETY OF AIRCRAFT OR EMPLOYEES WORKING ON OR ADJACENT TO CONSTRUCTION PROJECT. CONTRACTORS SHOULD HAVE MEANS OF NOTIFYING EMPLOYEES OF EMERGENCIES, SEVERE WEATHER, AND EVACUATION PLANS IF NECESSARY.
2. WINTER CONDITIONS: AS MUCH AS POSSIBLE AIRPORT WILL ALLOW CONSTRUCTION ACTIVITIES THROUGH THE WINTER SEASON, WHICH IS DEFINED AS NOVEMBER 16 TO MARCH 31. HOWEVER, SNOW REMOVAL OPERATIONS TAKE PRECEDENCE OVER ALL OTHER ACTIVITIES DURING THIS TIME FRAME. A CONTRACTOR MAY BE NOTIFIED IN SHORT NOTICE OF CANCELLATION OR TERMINATION OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR ACTIVITIES WITH AIRPORT SNOW REMOVAL OPERATIONS TO LIMIT SHUTDOWNS OF THE CONTRACTOR'S WORK OPERATIONS TO THE EXTENT POSSIBLE.

2.18 RUNWAY AND TAXIWAY VISUAL AIDS

1. RUNWAY AND TAXIWAY VISUAL AIDS, INCLUDING RUNWAY LIGHTED CLOSURE 'X' OR ANY TEMPORARY RUNWAY AND/OR TAXIWAY PAVEMENT MARKING WILL BE AS SHOWN ON THE PLANS AND PROVIDED BY THE CONTRACTOR, NONE ARE ANTICIPATED FOR THIS PROJECT. MARKINGS SHALL BE IN COMPLIANCE WITH AC 150/5340-1, STANDARDS FOR AIRPORT MARKINGS. LIGHTING SHALL CONFORM TO AC150/5340-30, DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS, AC 150/5345-50, SPECIFICATIONS FOR PORTABLE RUNWAY TAXIWAY LIGHTS, AND AC 150/5345-53 AIRPORT LIGHTING CERTIFICATION PROGRAM. SIGNS SHALL CONFORM TO AC 150/5345-44, SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS, AC 150/5340-18, STANDARDS FOR AIRPORT SIGN SYSTEMS, AND AC 150/5345-53, AIRPORT LIGHTING CERTIFICATION PROGRAM.
2. IF AIRCRAFT OPERATION AREAS MUST BE CLOSED, THE CONTRACTOR SHALL FURNISH AND PLACE PORTABLE BARRICADES ACROSS RUNWAYS OR TAXIWAYS TO KEEP VEHICLES FROM ENTERING ACTIVE OPERATION AREAS AND TO KEEP AIRCRAFT FROM TAXIING INTO CONSTRUCTION AREAS. EXCAVATION AND OPEN TRENCHES MAY BE PERMITTED UP TO THE EDGE OF AN APRON PROVIDED THE DROP OFF IS APPROPRIATELY MARKED AND LIGHTED. BARRICADES SHALL BE MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES AND SUPPLEMENTED WITH EITHER FLASHING OR STEADY-BURNING LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. LIGHTS SHALL BE BARRICADE TYPE TYPICAL FOR CONSTRUCTION ZONES, AND RED IN COLOR. ALL LIGHTS MUST BE CHECKED NIGHTLY TO ENSURE THAT THEY ARE OPERATING. ANY LIGHTS NOT FUNCTIONING SHALL BE IMMEDIATELY REPLACED.

   EXISTING SIGNS AND LIGHTS THAT ARE WITHIN AND LEADING INTO CLOSED SECTIONS OF THE AIRFIELD WILL BE OBSCURED. SIGNS SHALL HAVE THE PANELS REMOVED AND REPLACED WITH BLANK PANELS. LIGHTS SHALL BE EITHER COVERED OR REMOVED FROM THE ACTIVE AIRFIELD CIRCUIT. SIGN AND LIGHTS SHALL BE APPROVED BY AIRPORT OPERATIONS.

   BARRICADES LOCATED WITHIN AIRCRAFT OPERATION AREAS SHALL BE LOW LEVEL AVIATION BARRICADES SPECIFICALLY MANUFACTURED AND DESIGNED FOR SUCH PURPOSE. THEY SHALL BE ALTERNATING ORANGE AND WHITE IN COLOR 10" HIGH AND 96" LONG, MADE OF UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY MULTI-BARRIER (MODEL AR 10X96 HDPE) OR APPROVED EQUAL.

   ALL BARRICADES, CLOSURE CROSSES, LIGHTED RUNWAY CLOSURE 'X'S, ETC. SHALL BE WEIGHTED DOWN AS APPROVED BY THE AIRPORT OPERATIONS STAFF.

2.19 MARKING AND SIGNS FOR ACCESS ROUTES

1. MARKINGS AND SIGNS USED ON ACCESS ROUTES SHALL CONFORM TO AC 150/5340-18 AND, TO THE EXTENT PRACTICABLE, WITH THE MOST CURRENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2.20 HAZARD MARKING AND LIGHTING

HAZARD MARKING

1. HAZARD-MARKING BARRICADES, TRAFFIC CONES, FLASHERS, ETC. SHOULD BE USED: TO IDENTIFY AND DEFINE THE LIMITS OF CONSTRUCTION MAKING THEM VISIBLE TO AIRCRAFT, PERSONNEL, OR VEHICLES; TO IDENTIFY HAZARDS SUCH AS OPEN MANHOLES, SMALL AREAS UNDER REPAIR, STOCKPILED MATERIAL, WASTE AREAS, ETC.; TO PREVENT AIRCRAFT FROM TAXIING ONTO A CLOSED TAXIWAY; AND TO IDENTIFY FAA, AIRPORT, AND NATIONAL WEATHER SERVICE FACILITIES, CABLES, POWER LINES, INSTRUMENT LANDING SYSTEM (ILS) CRITICAL AREAS, AND OTHER SENSITIVE AREAS TO PREVENT DAMAGE, INTERFERENCE, AND FACILITY SHUTDOWN. HAZARDOUS AREAS, IN WHICH NO PART OF AN AIRCRAFT MAY ENTER, SHOULD BE INDICATED BY THE USE OF BARRICADES MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES. THE BARRICADES SHOULD BE SUPPLEMENTED WITH ALTERNATING ORANGE AND WHITE FLAGS, AND INSTALLED SO THAT THEY ARE ALWAYS IN THE EXTENDED POSITION AND PROPERLY ORIENTED. DURING REDUCED VISIBILITY OR NIGHT HOURS, THE BARRICADES SHOULD BE SUPPLEMENTED WITH FLASHING RED LIGHTS. THE INTENSITY OF THE LIGHTS AND SPACING FOR BARRICADES, FLAGS, AND LIGHTS SHOULD BE ADEQUATE TO DELINEATE THE HAZARDOUS AREA WITHOUT AMBIGUITY. THE CONTRACTOR SHALL HAVE A DESIGNATED PERSON ON CALL 24-HOURS A DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES.

MARKING AND LIGHTING

1. IF NECESSARY, LOW PROFILE LIGHTS RETROREFLECTIVE TAXIWAY EDGE MARKERS, LOW LEVEL BARRICADES, AND WARNING FLAGS SHALL BE PROVIDED AND ERECTED BY THE CONTRACTOR AS SHOWN ON THE PLANS OR AS DIRECTED BY THE DESIGNER. ALL CONSTRUCTION AREAS, INCLUDING CLOSED TAXIWAYS, SHOULD BE CLEARLY AND VISIBLY SEPARATED FROM ACTIVE AIR OPERATION AREAS. HAZARD AREAS, FACILITIES, CABLES, AND POWER LINES SHOULD ALSO BE CLEARLY IDENTIFIED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONDITION AND VISIBILITY OF ALL MARKERS IDENTIFYING ABOVE-MENTIONED AREAS AND THAT MARKING AND LIGHTING AIDS REMAIN IN PLACE. ALTERNATING ORANGE AND WHITE FLAGLINES, TRAFFIC CONES, OMNIDIRECTIONAL YELLOW FLASHERS, AND/OR SIGNS SHOULD BE USED AS NECESSARY TO CLEARLY SEPARATE ALL CONSTRUCTION/MAINTENANCE AREAS FROM OTHER PARTS OF THE AOA. ALL BARRICADES, TEMPORARY MARKERS, FLAGLINES SUPPORTS, AND OTHER OBJECTS PLACED AND LEFT IN SAFETY AREAS ON ANY OPEN TAXIWAY, OR TAXILANE SHOULD BE AS LOW AS POSSIBLE TO THE GROUND; OF LOW MASS; EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF ITS COMPONENTS; WEIGHTED DOWN OR STURDILY ATTACHED TO THE SURFACE TO PREVENT DISPLACEMENT FROM PROPWASH, JET BLAST, WING VORTEX, OR OTHER SURFACE WIND CURRENTS; AND IF AFFIXED TO THE SURFACE, FRANGIBLE AT GROUND LEVEL.

EQUIPMENT

LOW PROFILE BARRICADES

1. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE LOW PROFILE BARRICADES AS DESCRIBED IN THE PLANS ALONG RUNWAY OR TAXIWAY EDGES WHEREVER OPEN EXCAVATIONS OR IRREGULAR GRADES ARE LEFT WITHIN THE SAFETY AREA OF AN ACTIVE RUNWAY OR TAXIWAY OR WHERE TEMPORARY PAVEMENT CLOSURES OR AIRCRAFT LIMITATIONS ARE REQUIRED. BARRICADES ALONG ACTIVE APRON OR TAXIWAY PAVEMENT SHALL BE PLACED APPROXIMATELY 10 FEET FROM THE EDGE OF THE FULL STRENGTH PAVEMENT, WHERE POSSIBLE, OR AS SHOWN ON THE OPERATIONAL AND PHASING PLANS OR AS DETERMINED BY THE DESIGNER AND AIRPORT OPERATIONS TO DELINEATE THE CONTRACTORS WORK AREAS. BARRICADES SHALL BE INTERLOCKED TOGETHER WITH NO GAP BETWEEN THEM. NO GAPS ARE ALLOWED BETWEEN BARRICADES LOCATED ADJACENT TO RUNWAY SAFETY AREAS.
2. THE CONTRACTOR SHALL MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT.
3. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A WEEKLY BASIS AND SHALL BE REPAINTED AND/OR REPLACED WHEN DEEMED APPROPRIATE BY THE DESIGNER. THE CONDITION OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATING BY THE CONTRACTOR ON A DAILY BASIS BEFORE THE CONTRACTOR CEASES OPERATION FOR THE DAY. THE AREAS AROUND ALL BARRICADES SHALL BE CLEANED AT LEAST ONCE EACH WEEK AND THE CONTRACTOR SHALL SWEEP UP ACCUMULATED DEBRIS AND REMOVE IT FROM THE SITE. ALL ACTIVITIES CONDUCTED ADJACENT TO ACTIVE RUNWAYS OR TAXIWAYS SHALL BE COORDINATED WITH THE DESIGNER.
4. BARRICADES SHALL BE AS SPECIFIED. ALL INCIDENTAL CONNECTORS, SPACERS, SPLICE PLATES, ETC., SHALL BE PAINTED WHITE.
5. ALTERNATE FORMS OF BARRICADES MAY BE PROPOSED BY THE CONTRACTOR WHICH MEET THESE FUNCTIONAL REQUIREMENTS. APPROVALS OF ANY SUCH SUBSTITUTION (IF GRANTED) SHALL BE BY THE AIRPORT'S OPERATIONS DEPARTMENT AND THE DESIGNER.
6. THE FINAL LOCATION FOR THE BARRICADES SHALL BE ESTABLISHED IN THE FIELD WITH CONCURRENCE FROM THE DESIGNER AND AIRPORT OPERATIONS.
7. THE CONTRACTOR SHALL HAVE REPLACEMENT BARRICADES, LIGHTS AND BATTERIES ON SITE AND SHALL REPLACE BARRICADES, LIGHTS AND/OR BATTERIES WITHIN ONE HOUR OF NOTIFICATION BY THE DESIGNER OR AIRPORT PERSONNEL. CONTRACTOR SHALL PROVIDE THE NAME AND TELEPHONE NUMBER FOR AN ON-CALL REPRESENTATIVE 24 HOURS PER DAY, SEVEN DAYS PER WEEK TO REPLACE BARRICADES, BATTERIES AND INOPERATIVE LIGHTS.
8. RED STEADY BURN LIGHTS SHALL BE PLACED AT THE ENDS AND AT CORNERS OF EACH LINE OF BARRICADES; ALL OTHER LIGHTS ON BARRICADES SHALL BE RED FLASHING. LUMINANCE REQUIREMENTS OF PENNDOT MUST BE MET.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER POSITIONING OF ALL BARRICADES.
10. SANDBAGS, WATER AND/OR ANCHORS ARE REQUIRED TO HOLD THE BARRICADES IN PLACE.

DELINEATING WORK AREAS

1. SAFETY FENCE SHALL BE FURNISHED AND INSTALLED AT THE LOCATIONS AS INDICATED ON THE CONTRACT DOCUMENTS AND/OR DIRECTED BY THE DESIGNER. GENERALLY, SAFETY FENCE WILL BE USED FOR DELINEATING CONTRACTOR STAGING/STORAGE AREAS, PHASE LIMITS AND EXCAVATIONS, TRENCHES, DROPOFFS, ETC. THAT MAY POSE A HAZARD TO ONSITE SAFETY.
2. SAFETY FENCE SHALL BE 30 POUND HIGH DENSITY POLYETHYLENE (HDPE) INTERNATIONAL ORANGE FENCE FABRIC WIRED SECURELY TO POSTS.
3. POSTS SHALL BE STANDARD METAL T-POST WITH TOP AND BOTTOM TENSION WIRE TO ATTACH FABRIC. LINE POSTS SHALL BE 6'-0" LONG (BURY 2'-0") AT 8'-0" O.C.. WOOD POSTS SHALL BE USED IN GLIDE SLOPE AND LOCALIZER CRITICAL AREAS AND RSA'S. WOODS POSTS SHALL BE BURIED A MINIMUM OF 1'-0" INTO THE GROUND.

2.21 WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCTION

LIGHTING EQUIPMENT MUST ADEQUATELY ILLUMINATE THE WORK AREA IF THE CONSTRUCTION IS TO BE PERFORMED DURING NIGHTTIME HOURS. REFER TO THE CURRENT VERSIONS OF FAA AC 150/5370-10 FOR MINIMUM ILLUMINATION LEVELS FOR NIGHTTIME PAVING PROJECTS. ADDITIONALLY, IT IS RECOMMENDED THAT ALL SUPPORT EQUIPMENT, EXCEPT HAUL TRUCKS, BE EQUIPPED WITH ARTIFICIAL ILLUMINATION TO SAFELY ILLUMINATE THE AREA IMMEDIATELY SURROUNDING THEIR WORK AREAS. THE LIGHTS SHOULD BE POSITIONED TO PROVIDE THE MOST NATURAL COLOR ILLUMINATION AND CONTRAST WITH A MINIMUM OF SHADOWS. THE SPACING MAY NEED TO BE DETERMINED BY TRIAL. LIGHT TOWERS SHOULD BE POSITIONED AND ADJUSTED TO AIM AWAY FROM ATCT CABS AND ACTIVE AIRCRAFT MOVEMENT AREAS TO PREVENT GLARE OR BLINDING EFFECTS. NOTE THAT SHIELDING OF LIGHT FIXTURES MAY BE NECESSARY TO PREVENT GLARE OR BLINDING EFFECTS. LIGHT TOWERS SHOULD BE REMOVED FROM THE CONSTRUCTION SITE WHEN THE AREA IS REOPENED TO AIRCRAFT OPERATIONS.

2.22 PROTECTION OF RUNWAY AND TAXIWAY SAFETY AREAS

1. AT NO TIME SHALL PERSONNEL, VEHICLES OR EQUIPMENT BE LOCATED OR ENTER ANY OF THE FOLLOWING AREAS UNLESS AUTHORIZED BY ERIE AIRPORT.

   A. WITHIN AN ACTIVE RUNWAY RSA OR OFZ WHILE THE RUNWAY IS OPERATIONAL, THIS IS WITHIN 250 FEET FROM RUNWAY 6-24 CENTERLINE AND 200 FEET FROM RUNWAY 2-20 CENTERLINE. (DIMENSIONS FOR EACH RUNWAY ARE INDICATED ON THE CSPP AND/OR SAFETY PHASING COMPLIANCE DOCUMENT (SPCD).

   B. NO STOCKPILES WILL BE PLACED WITHIN RUNWAY OBJECT FREE AREA WHILE THE RUNWAY IS ACTIVE: 400 FEET PARALLEL TO RUNWAY 6-24 CENTERLINE OR WITHIN 250 FEET PARALLEL TO RUNWAY 2-20 CENTERLINE, NOR WILL EQUIPMENT BE LEFT UNATTENDED.

   C. WITHIN 1,000 FEET OF THE END OF ACTIVE RUNWAYS (EACH END TO BE INDICATED IN THE CSPP AND/OR SPCD)

   D. WITHIN 93 FEET PARALLEL TO AN ACTIVE TAXIWAY CENTERLINE OPERATING WITH GROUP III AIRCRAFT (EACH TAXIWAY TO BE INDICATED IN THE CSPP AND/OR SPCD).

   E. ACTIVE NAVAID CRITICAL AREAS.

   F. ON THE MOVEMENT AREA AND/OR ASSOCIATED SAFETY AREAS DURING TIMES OF INCLEMENT WEATHER OR UNUSUAL EVENTS AS DETERMINED BY THE AIRPORT. DURING SUCH TIMES ALL WORK IS TO BE SUSPENDED. ALL EQUIPMENT SHALL BE REMOVED TO APPROVED STAGING AREAS.

2. TRENCHES AND/OR EXCAVATIONS SHALL NOT BE ALLOWED IN THE FOLLOWING AREAS WITHOUT CLOSURE OR RESTRICTION OF THE ADJACENT MOVEMENT AREA:

   A. WITHIN A RUNWAY SAFETY AREA (RSA); 250 FEET PARALLEL TO RUNWAY 6-24 CENTERLINE OR 75 FEET PARALLEL TO RUNWAY 2-20 CENTERLINE.

   B. WITHIN 59 FEET PARALLEL TO A TAXIWAY CENTERLINE OPERATING WITH GROUP III AIRCRAFT

   C. WITHIN 1,000 FEET OF THE END OF A RUNWAY.

   D. ACTIVE NAVAID CRITICAL AREAS.

   E. BARRICADING/PLATING OF TRENCHES AND/OR EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN BARRICADE DETAILS CHECKLIST.

3. PERSONNEL, MATERIAL, AND/OR EQUIPMENT MAY NOT PENETRATE THE RUNWAY OBSTACLE FREE ZONE OR THRESHOLD SIGHTING SURFACES WHILE THE RUNWAY IS OPEN. RUNWAY APPROACH/DEPARTURE AREA AND CLEARWAYS MUST BE PROTECTED.
4. EQUIPMENT WITHIN 400 FEET OF AN ACTIVE RUNWAY SHALL BE REMOVED WHEN NOT IN USE.
5. SOIL EROSION MUST BE CONTROLLED TO MAINTAIN RSA/TSA STANDARDS.

2.23 OTHER LIMITATIONS ON CONSTRUCTION

1. PROHIBITIONS

   A. OPEN FLAME WELDING OR TORCH CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED FOR USE BY THE DESIGNER AND A BURN PERMIT HAS BEEN OBTAINED FROM THE ARFF.

   B. FLARE POTS SHALL NOT BE USED NEAR AIRCRAFT TURNING AREAS.

   C. ELECTRICAL BLASTING CAPS SHALL NOT BE USED WITHIN 1,000 FT OF THE AIRPORT PROPERTY.

PROJECT SURVEY AND LAYOUT

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING THEIR OWN PROJECT SURVEY AND CONSTRUCTION LAYOUT.

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
SEAN THOMPSON
ENGINEER
PE090267
1/13/21

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL
4411 WEST 12TH STREET
ERIE, PENNSYLVANIA

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M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: SCT
DRAWN BY: SCT
CHECKED BY: MDB
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SHEET CONTENTS
CONSTRUCTION SAFETY PHASING NOTES

SHEET NO.:
G-083

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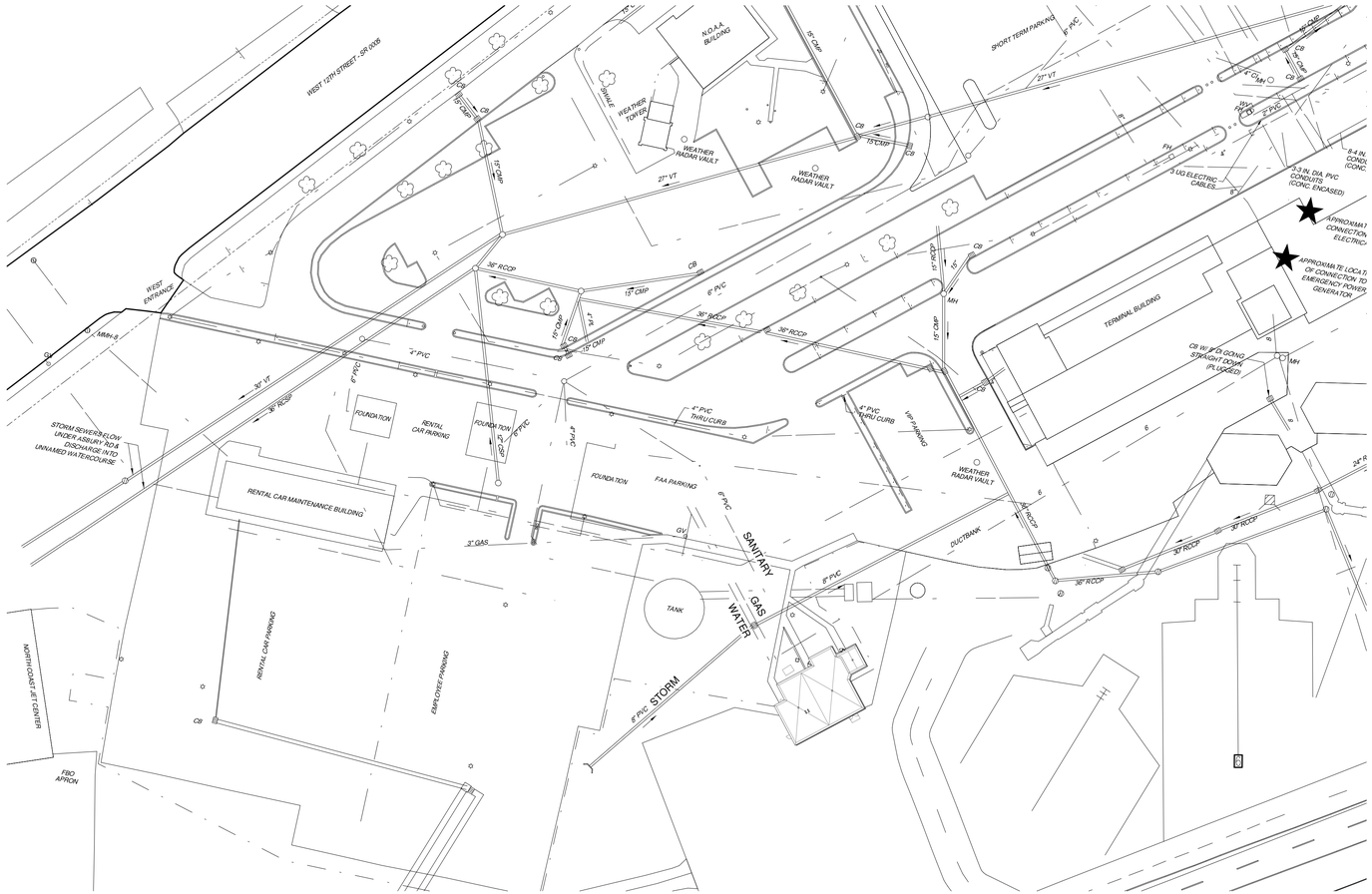

1 **UTILITY PLAN**
1" = 50'-0"

N

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REMODEL

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SHEET CONTENTS
UTILITY PLAN

SHEET NO.:
AU101

REGISTERED ARCHITECT
PENNSYLVANIA
MATT T. SHAFFER
RA-026810

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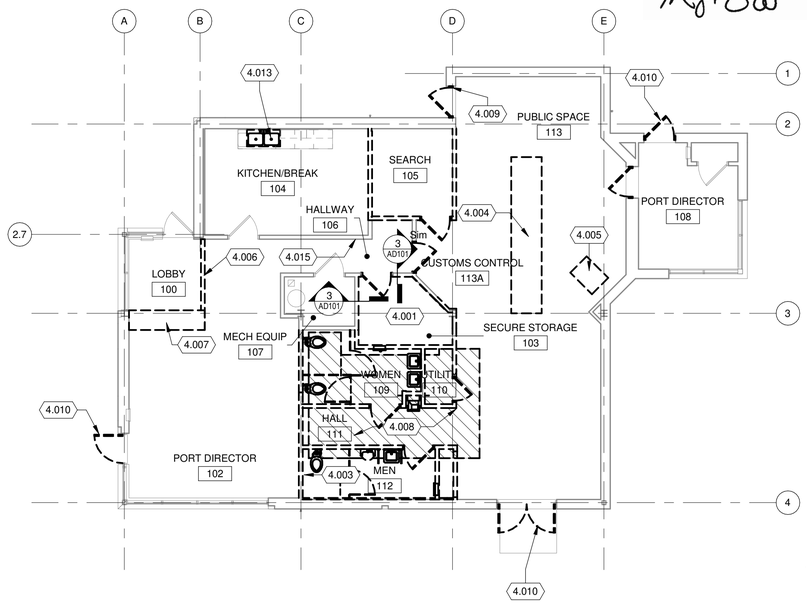
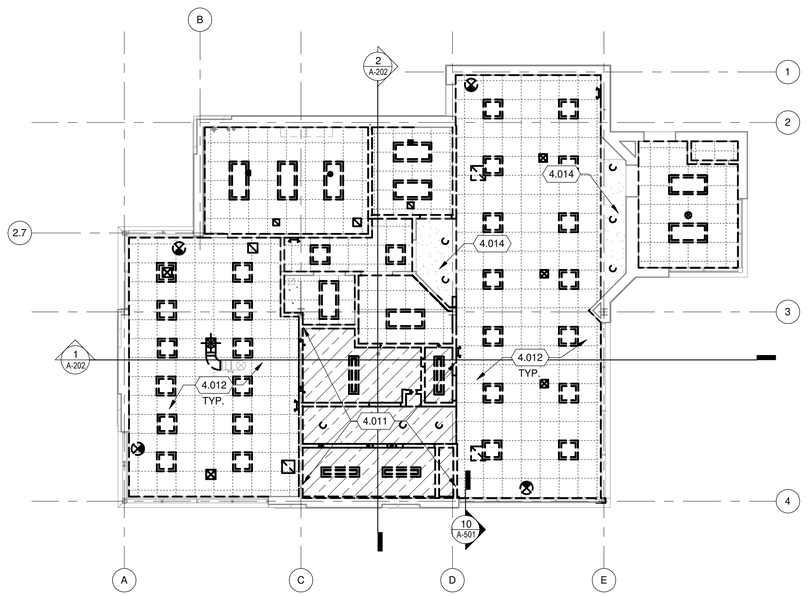


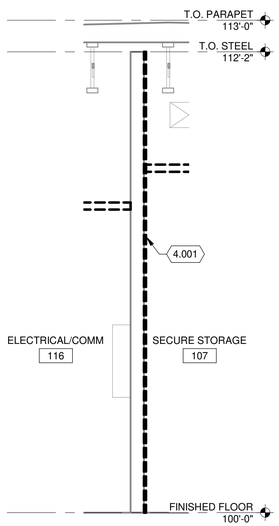
1 FLOOR DEMO PLAN

1/8" = 1'-0"



2 DEMO RCP

1/8" = 1'-0"



3 PARTIAL WALL REMOVAL AT COMM ROOM SECTION

1/2" = 1'-0"

DEMOLITION PLAN GENERAL NOTES:

1. VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPENCIES TO THE ARCHITECT BEFORE PROCEEDING WITH ANY SCHEDULED DEMOLITION WORK.
2. COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND SUBCONTRACTORS FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ALL ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVING, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PILASTERS, BEAMS, AND SLABS.
6. THE EXISTING MECHANICAL, ELECTRICAL,TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED TO REMAIN. WHERE WORK CONFLICTS WITH NEW WORK, DEMOLITION OR REROUTING OF EXISTING INFRASTRUCTURE SHALL BE REQUIRED. REF: MEP FOR ITEMS TO BE REUSED TYP. ITEMS TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY, BACK TO THE ORIGINAL SOURCE. SURROUNDING MATERIALS WHICH ARE DISTURBED OR DEMOLISHED THAT ARE SCHEDULED TO REMAIN SHALL BE PATCHED WITH LIKE SURROUNDING MATERIALS, TYPICAL.
7. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS, REF: ELECTRICAL, TECHNOLOGY, PLUMBING DEMOLITION, AND PLUMBING DRAWINGS.
8. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
9. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILINGS, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.
10. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.
11. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING / SEQUENCING AND SITE ACCESS.

KEYED NOTES PER SHEET

4.001 ON WALLS TO REMAIN, REMOVE LAYER OF GYP BD ON INTERIOR SIDE OF ROOM

4.003 REMOVE INTERIOR LAYER OF GYP BD WITHIN EXTENTS OF NEW LAN ROOM. REF A-101

4.004 REMOVE EXISTING INSPECTION TABLE AND PODIUM AND ASSOCIATED HARDWARE AND ELECTRICAL COMPONENTS

4.005 REMOVE EXISTING COMPUTER PODIUM AND ASSOCIATED HARDWARE AND ELECTRICAL COMPONENTS

4.006 REMOVE EXISTING PARTIAL HEIGHT WALL AND ASSOCIATED COMPONENTS

4.007 REMOVE COUNTERTOP, CASEWORK AND ASSOCIATED COMPONENTS

4.008 REMOVE FLOOR SLAB AS REQUIRED FOR NEW WORK. AREA SHOWN FOR DESIGN INTENT ONLY.

4.009 REMOVE RUST FROM BASE OF DOOR FRAME

4.010 REMOVE DOOR PANEL(S), EXISTING FRAME TO REMAIN

4.011 REMOVE GYP BD CEILING AND ASSOCIATED FRAMING AND COMPONENTS

4.012 REMOVE ACP CEILING AND ASSOCIATED HARDWARE AND COMPONENTS

4.013 REMOVE SINK AND FAUCET

4.014 EXISTING GYP BD SOFFIT TO REMAIN

4.015 REMOVE FIRE EXTINGUISHER CABINET

DEMOLITION LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (U.N.O.)
- EXISTING DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (U.N.O.)

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ERIE INTERNATIONAL AIRPORT GENERAL AVIATION REMODEL

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SHEET CONTENTS
FLOOR & CEILING DEMOLITION PLANS

SHEET NO.:

AD101

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ABBREVIATIONS

∠	ANGLE
@	AT
AB	ANCHOR BOLT
AC	ACOUSTIC
ACC	ACCESS
ACT	ACOUSTIC CEILING TILE
ACP	ACOUSTIC CEILING PANEL
AD	AREA DRAIN
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BB	BOND BEAM
BD	BOARD
BF	BOTH FACES
BFC	BELOW FINISH CEILING
BG	BUMPER GUARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLKT	BLANKET
BM	BEAM/BENCH MARK
BLK	BLOCK
BOT	BOTTOM
BRG	BEARING
BRKR	BREAKER
BRK	BRICK
BRKT	BRACKET
BS	BACK SPLASH
BSMT	BASEMENT
BTWN	BETWEEN
	CHANNEL
CAB	CABINET
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED, CONTRATOR INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST IN PLACE
CJ	CONTROL JOINT/CONSTRUCTION JOINT
CLG	CEILING
CLO	CLOSET/CLOSURE
CLR	CLEAR
COL	COLUMN
COMB	COMBINATION
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION/CONNECT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CPT	CARPET
CR	COAT RACK/CURTAIN ROD
CSG	CASING
CT	CERAMIC TILE
CTR	CENTER/COUNTER
CTSK	COUNTERSUNK
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DEPTH
DBL	DOUBLE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DIV	DIVISION
DM	DEMOUNTABLE PARTITION
DN	DOWN
DO	DITTO
DR	DOOR
DRWR	DRAWER
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL
DWS	DEFORMED WELDED STUD
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EACH FACE
EH	ELECTRICAL HEATER/EXHAUST HOOD
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR/ELEVATION
EMBED	EMBEDDED
EMER	EMERGENCY
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ESR	ELASTOMERIC SHEET ROOFING
ETR	EXISTING TO REMAIN
EVC	ELASTIC VINYL COATING
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXP	EXPANSION
EXPD	EXPOSED
EXPF	EXPLOSION PROOF
EXT	EXTERIOR
FA	FIELD ADJUSTABLE
FV	FIELD VERIFY
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FIX	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLRG	FLOORING
FP	FIREPROOF/FIRE PROTECTION
FR	FIRE RETARDANT
FS	FULL SIZE/FULL SCALE
FT	FEET
FTG	FOOTING
FURG	FURRING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GMU	GLAZED MASONRY UNIT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HDBD	HARDBOARD
HDCP	HANDICAPPED
HDWD	HARDWOOD
HDWE	HARDWARE
HK	HOOK
HM	HOLLOW METAL
HP	HIGH POINT
HR	HANDRAIL
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWS	HEAD WELDED STUDS
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
IN	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IPW	INSULATED PLENUM WALL
IRF	INSULATED ROOF FILL
JAN	JANITOR
JS	JANITOR SINK
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
KO	KNOCK-OUT / KNEE OPENING
L	LENGTH
LAB	LABORATORY
LAM	LAMINATED
LB	POUND
LBS	POUNDS
LD	LINEAR DIFFUSER
LDG	LANDING
LF	LINEAR FOOT
LG	LONG
LGT	LIGHT
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LTG	LIGHTING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
MACH	MACHINE
MAN	MANUAL
MAR	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBW	MASONRY BEARING WALL
MC	MECHANICAL CONTRACTOR
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	METAL LATH
MLDG	MOLDING
MO	MASONRY OPENING
MP	METAL PARTITION
MS	MACHINE SCREW
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NONSHRINK
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER/OVERFLOW DRAIN
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PART	PARTITION
PC	PIECE
PCC	PRECAST CONCRETE
PCPL	PORTLAND CEMENT PLASTER
PDWR	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
PH	PHILLIPS HEAD/PHASE
PL	PLASTIC LAMINATE/PLATE/PROPERTY LINE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PM	PROTECTED METAL
PNL	PANEL
PNLG	PANELING
POL	POLISHED
PR	PAIR
PRE FAB	PREFABRICATED
PRE FIN	PRE-FINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTM	PAINT TO MATCH
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
RAD	RADIUS
RAH	ROOFTOP AIR HANDLING UNIT
RB	RUBBER BASE
RC	REINFORCED CONCRETE
RCP	RADIANT CEILING PANEL / REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REINF	REINFORCING
REL	RELOCATE
REM	REMAINDER
REQD	REQUIRED
RES	RESILIENT
RET	RETURN
RI	ROUGH IN
RM	ROOM
RO	ROUGH OPENING
RT	RUBBER TILE
RUB	RUBBER
SAT	STANDARD AGGREGATE TOPPING
SB	SOIL BEARING
SC	SEAMLESS COATING
SCF	SPECIAL CONCRETE FINISH
SCHD	SCHEDULE
SD	SOAP DISPENSER
SE	SHELF EDGE
SECT	SECTION
SF	SAND FLOAT
SG	SUPPLY AIR GRILLE
SGL	SINGLE
SH	SHELF
SHD	SHOWER DOOR
SHT	SHEET
SIM	SIMILAR
SJ	STEEL JOIST
SLV	SHORT LEG VERTICAL
SM	SMOOTH
SND	SANITARY NAPKIN DISPENSER
SNV	SANITARY NAPKIN VENDER
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SR	SHOWER ROD
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STO	STORAGE
STRU	STRUCTURAL/STRUCTURE
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
TB	TACKBOARD/TOWEL BAR
TBR	TO BE REMOVED
TCP	THIN COAT PLASTER
TD	TOWEL DISPENSER
TDW	TOWEL DISPENSER AND WASTE
TEMP	TEMPERATURE/TEMPERED
TER	TERRAZZO
TEX	TEXTURE
TFC	TROWELED FLOOR COVERING
T & G	TONGUE AND GROOVE
THK	THICK
TOB	TOP OF BEAM
TOC	TOP OF CURB/TOP OF CONCRETE
TOD	TOP OF DECK/TOP OF DUCT ELEVATION
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOP	TOP OF PIPE ELEVATION
TOS	TOP OF SLAB/TOP OF STEEL
TOW	TOP OF WALL
TPG	TOPPING
TPH	TOILET PAPER HOLDER
TRAN	TRANSOM
TRANS	TRANSVERSE
TS	TUBE STEEL
TWS	THREADED WELDED STUD
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VINYL
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WIDE FLANGE STEEL BEAM
W/	WITH
WAF	WELDED ANGLE FRAME
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WG	WIRE GLASS
W/O	WITHOUT
WP	WEATHERPROOF
WPFG	WATERPROOFING
WR	WASTE RECEPTACLE
WSCT	WAINSCOT
WSTP	WEATHERSTRIP
WTR	WATER
WWF	WELDED WIRE FABRIC
X	EXISTING

ABBREVIATIONS ABOVE ARE FOR ARCHITECTURAL SHEETS ONLY.

HATCH SYMBOLS

EARTHWORK	PLYWOOD
GRAVEL	FINISH LUMBER
PLASTER, SAND, GROUT	WOOD STUDS, BLOCKING
CONCRETE	STEEL STUDS
CONCRETE MASONRY	GYPSUM WALLBOARD
CLAY MASONRY	ACOUSTICAL TILE
PRECAST CONCRETE	BATT INSULATION
METAL	RIGID INSULATION

LEGEND - PLAN SYMBOLS

- SIM / 1 / A-101 — BUILDING SECTION SYMBOL
- SIM / 1 / A-101 — WALL SECTION SYMBOL
- 1 / A-101 — DETAIL SYMBOL
- 1 / A-101 — ENLARGED PLAN SYMBOL
- A-201 / 1 — EXTERIOR ELEVATION SYMBOL
- A-211 / 1 — INTERIOR ELEVATION SYMBOL
- 4.XXX — KEYED NOTE IDENTIFICATION
- ROOM NAME / 000 — ROOM NAME AND NUMBER
- XXX / 30M — WALL TYPE IDENTIFICATION
- W? — WINDOW IDENTIFICATION
- 101A — DOOR IDENTIFICATION
- 1 HOUR FIRE RATED WALL
- F.E. — FIRE EXTINGUISHER - SURFACE MOUNT
- F.E.C. — FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - SEMI-RECESSED
- FD — FLOOR DRAIN
- A100 — EXISTING GRID LINES
- A100 — NEW GRID LINES
- XXX / X' - X" — LEVEL OR SPOT ELEVATIONS
- 10'-10" / ACP-X — CEILING HEIGHT & FINISH

REGISTERED ARCHITECT PENNSYLVANIA MARY T. SHAFFER RAGOSTO

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SHEET CONTENTS
NOTES & SYMBOLS

SHEET NO.:
A-001

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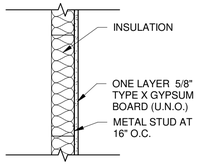
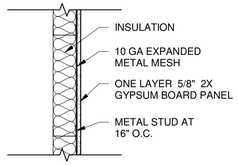


"FA" SERIES

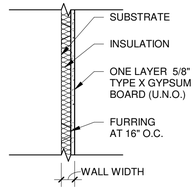
TYPE	STUD WIDTH	WALL WIDTH	NOTES
FA3	3 5/8"	4 1/4"	
FA4	4"	4 5/8"	
FA6	6"	6 5/8"	
FA8	8"	8 5/8"	



*EXPANDED METAL MESH TO BE INSPECTED BY CBP PRIOR TO COVERING

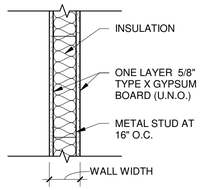
"FB" SERIES

TYPE	STUD WIDTH	WALL WIDTH	NOTES
FB3	3 5/8"	4 1/4"	
FB4	4"	4 5/8"	
FB6	6"	6 5/8"	
FB8	8"	8 5/8"	



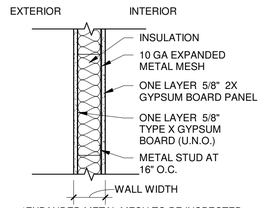
"FC" SERIES

TYPE	STUD WIDTH	WALL WIDTH	NOTES
FC78	7/8"	1 1/2"	HAT CHANNEL
FC1	1"	1 5/8"	Z-FURRING
FC15	1 1/2"	2 1/8"	Z-FURRING
FC2	2"	2 5/8"	Z-FURRING
FC3	3"	3 5/8"	Z-FURRING



"SA" SERIES

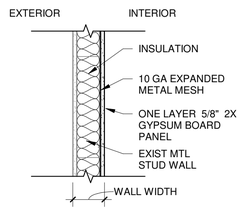
TYPE	STUD WIDTH	WALL WIDTH	NOTES
SA2	2 1/2"	3 3/4"	
SA3	3 5/8"	4 7/8"	
SA4	4"	5 1/4"	
SA6	6"	7 1/4"	
SA8	8"	9 1/4"	



*EXPANDED METAL MESH TO BE INSPECTED BY CBP PRIOR TO COVERING

"SB" SERIES

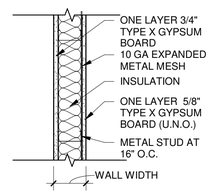
TYPE	STUD WIDTH	WALL WIDTH	NOTES
SB3	3 5/8"	5 1/64"	
SB4	4"	5 25/64"	
SB6	6"	7 25/64"	
SB8	8"	9 25/64"	



*EXPANDED METAL MESH TO BE INSPECTED BY CBP PRIOR TO COVERING

"SC" SERIES

TYPE	STUD WIDTH	WALL WIDTH	NOTES
SC3	3 5/8"	5 1/64"	
SC4	4"	5 25/64"	
SC6	6"	7 25/64"	
SC8	8"	9 25/64"	

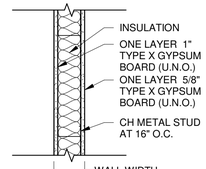


ACOUSTICAL PERFORMANCE BASIS OF DESIGN: TEST NUMBER USG-910617

* EXPANDED METAL MESH TO BE INSPECTED BY CBP PRIOR TO COVERING

"SD" SERIES

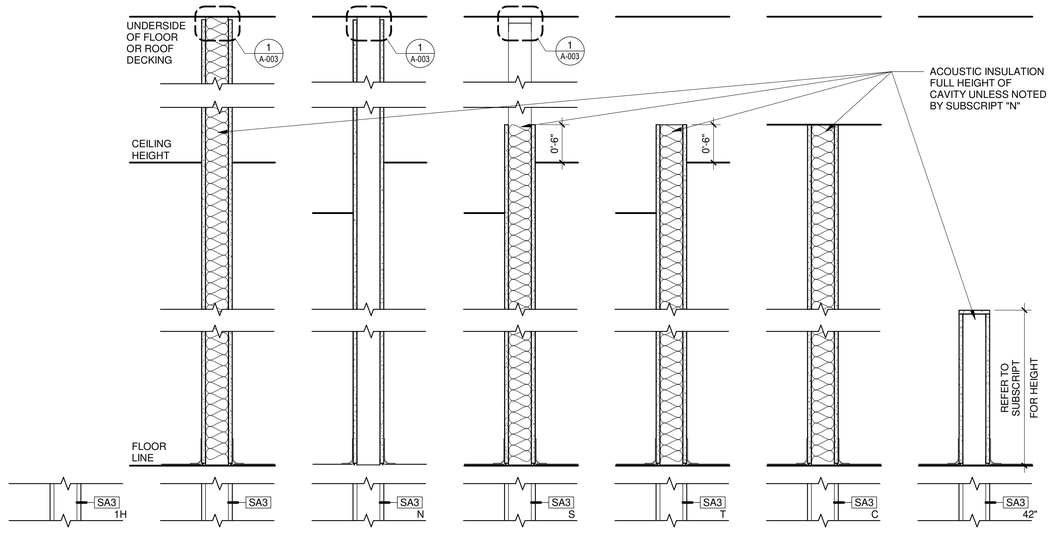
TYPE	STUD WIDTH	WALL WIDTH	NOTES
SD3	3 5/8"	4 7/8"	STC 50, UL-U419



"SE" SERIES

TYPE	STUD WIDTH	WALL WIDTH	NOTES
SE2	2 1/2"	3 1/8"	
SE4	4"	4 5/8"	
SE6	6"	6 5/8"	
SE8	8"	8 5/8"	

PARTITION TYPE SYMBOL AND SUBSCRIPT DEFINITIONS:



SUBSCRIPT (#H)
RATED PARTITION

NO SUBSCRIPT
EXTEND TOTAL PARTITION TO STRUCTURE

SUBSCRIPT (N)
NO ACOUSTIC INSULATION

SUBSCRIPT (S)
STUDS TO STRUCTURE, GYP BD TO 6" ABOVE HIGHEST ADJC. CEILING

SUBSCRIPT (T)
EXTEND TOTAL PARTITION TO 6" ABOVE ADJC. CEILING (BRACE AS NECESSARY)

SUBSCRIPT (C)
EXTEND TOTAL PARTITION TO CEILING (BRACE AS NECESSARY)

SUBSCRIPT (XX")
PARTITION HEIGHT IN INCHES AS NOTED, SEE ABOVE DETAIL FOR OTHER REQUIREMENTS

PARTITION GENERAL NOTES:

A. PARTITIONS SHALL BE TYPE "SA3" UNLESS OTHERWISE NOTED.

B. ALL ELEMENTS OF ACOUSTIC PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTIC RATED PARTITIONS SHALL BE FILLED AND SEALED.

C. REFER TO "PARTITION TYPE SYMBOL AND SUBSCRIPT DEFINITIONS" FOR SYMBOLS USED TO IDENTIFY ADDITIONAL REQUIREMENTS OR MODIFICATIONS TO BASIC PARTITION TYPES.

D. PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO PRODUCT MANUFACTURERS' SPECIFICATIONS AND REQUIREMENTS FOR APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.

E. PARTITION REQUIREMENTS SHOWN ARE CONSIDERED MINIMUM STANDARDS. WHERE CONDITIONS OF THE WORK CAUSE PARTITION(S) TO EXCEED LIMITS RECOMMENDED BY MANUFACTURER, REINFORCE PARTITION(S).

F. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.

G. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.

H. REFER TO STRUCTURAL DRAWINGS FOR EXTENT AND DESCRIPTION OF INTERIOR STRUCTURAL WALLS NOT IDENTIFIED BY PARTITION TYPES.

I. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.

J. FIRE RATED PARTITIONS; GA AND UL TEST NUMBERS MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.

K. PROVIDE 5/8" TYPE "X" GYPSUM BOARD (UNLESS NOTED OTHERWISE)

L. PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AT AREAS SO REQUIRED BY CODE TO RECEIVE IT.

M. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.

N. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD UNLESS NOTED TO THE CENTERLINE OF THE PARTITION.

O. WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE THE FINISH IS STRAIGHT OR CONTINUOUS UNLESS OTHERWISE NOTED.

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SHEET CONTENTS
INTERIOR PARTITION TYPES

SHEET NO.:
A-002

REGISTERED ARCHITECT PENNSYLVANIA MARY HUNTER SHAFFER RA408970

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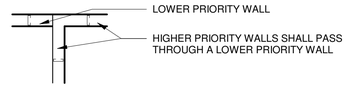
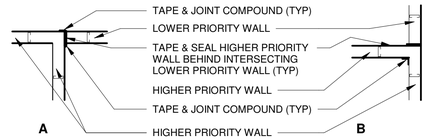
WALL PRIORITY LEGEND

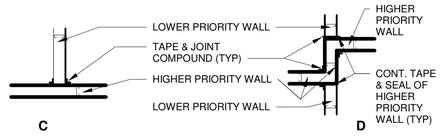
NOTE: THIS LEGEND IS FOR GRAPHIC REPRESENTATION ONLY.

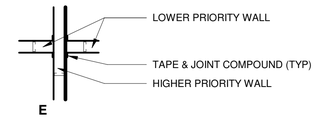
DETAIL ABUTMENT OF DISSIMILAR WALL



INTERSECTION OF RATED WALLS

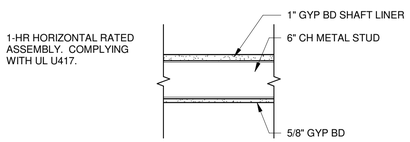




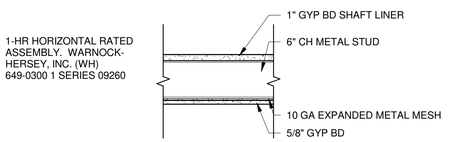


NOTES:

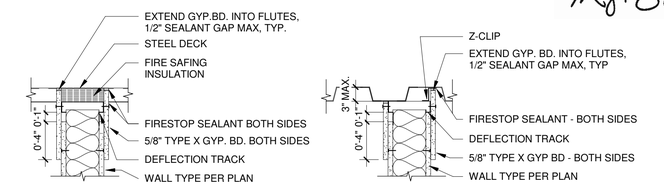
1. WALL PRIORTY ORDER:
   A. FIRE-RATED WALLS
   B. STC-RATED WALLS
   C. REMAINING WALLS
2. SEE WALL TYPES SHEET FOR WALL COMPONENTS, NUMBER OF GYPSUM BOARD LAYERS, TYPE OF GYPSUM BOARD, AND OTHER SIMILAR INFORMATION.
3. THE HIGHER PRIORITY WALL SHALL PASS THROUGH THE LOWER PRIORITY WALL.
4. TAPING AND SEALING OF HIGHER PRIORITY WALLS SHALL BE CONTINUOUS.
5. ALTERNATE LAYERS OF GYPSUM BOARD SHALL OVERLAP AT CORNER INTERSECTIONS OF MULTI-LAYERED RATED GYPSUM BOARD PARTITIONS.



3 GWB-3 CEILING DETAIL
1" = 1'-0"



2 GWB-2 CEILING DETAIL
1" = 1'-0"



UL SYSTEM # HW-D-0060
1 HR RATED STUD PARTITION TO METAL DECK - 1" JOINT (100% COMPRESSION OR EXTENSION)

1 RATED WALL HEAD DETAIL
1 1/2" = 1'-0"

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SHEET CONTENTS
PARTITION DETAILS

SHEET NO.:
A-003

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KEYED NOTES

4.001 ON WALLS TO REMAIN, REMOVE LAYER OF GYP BD ON INTERIOR SIDE OF ROOM

4.003 REMOVE INTERIOR LAYER OF GYP BD WITHIN EXTENTS OF NEW LAN ROOM. REF A-101

4.004 REMOVE EXISTING INSPECTION TABLE AND PODIUM AND ASSOCIATED HARDWARE AND ELECTRICAL COMPONENTS

4.005 REMOVE EXISTING COMPUTER PODIUM AND ASSOCIATED HARDWARE AND ELECTRICAL COMPONENTS

4.006 REMOVE EXISTING PARTIAL HEIGHT WALL AND ASSOCIATED COMPONENTS

4.007 REMOVE COUNTERTOP, CASEWORK AND ASSOCIATED COMPONENTS

4.008 REMOVE FLOOR SLAB AS REQUIRED FOR NEW WORK. AREA SHOWN FOR DESIGN INTENT ONLY.

4.009 REMOVE RUST FROM BASE OF DOOR FRAME

4.010 REMOVE DOOR PANEL(S), EXISTING FRAME TO REMAIN

4.011 REMOVE GYP BD CEILING AND ASSOCIATED FRAMING AND COMPONENTS

4.012 REMOVE ACP CEILING AND ASSOCIATED HARDWARE AND COMPONENTS

4.013 REMOVE SINK AND FAUCET

4.014 EXISTING GYP BD SOFFIT TO REMAIN

4.015 REMOVE FIRE EXTINGUISHER CABINET

4.016 VISQUEEN TEMP PARTITION. INSTALL WHEN REQUIRED FOR ADJACENT WORK AND REMOVE AS SOON AS FEASIBLE. PARTITION TO BE IN PLACE FOR MINIMUM TIME POSSIBLE.

4.017 TEMP PARTITION. WALL TYPE AS INDICATED

4.018 TEMPORARY DOOR. SWING IN DIRECTION OF EGRESS FROM WORK AREA.

4.102 EXISTING EXTERIOR WALL

4.103 EXISTING STUD WALL WITH DRYWALL ON OFFICE SIDE

4.104 PLYWOOD LINER ON WALLS. REF TECHNOLOGY DRAWINGS

4.105 TERMINATE MESH LAYER AT EXTERIOR WALL

4.106 EXISTING STUD WALL WITH DRYWALL ON ELECTRICAL/COMM ROOM SIDE

4.107 RUN MESH LAYER CONTINUOUS FROM NEW TO EXISTING WALL

4.108 EXISTING GYP BD WALL

4.109 MESH LAYER TO BE CONTINUOUS AT CORNER

4.110 EXISTING CLERESTORY WINDOW

4.111 WHITE MELAMINE ON PLYWOOD WITHIN CLERESTORY OPENING

4.112 PATCH WALL AT LOCATION OF REMOVED FIRE EXTINGUISHER CABINET

4.113 REPLACE WALL IN SAME LOCATION

4.115 MESH LAYER TO BE CONTINUOUS

4.116 ALIGN

4.117 NEW SINK IN EXISTING COUNTERTOP, REFERENCE PLUMBING DRAWINGS

4.118 EXISTING CASEWORK TO REMAIN

4.119 6" CONCRETE FLOOR SLAB IN AREA OF REMOVED SLAB. MATCH EXISTING SLAB ELEVATIONS AT EDGES

4.120 WALL MOUNTED FIRE EXTINGUISHER

4.151 EXISTING ROOF TOP UNIT

4.152 EXISTING ROOF DRAIN

4.153 NEW MECHANICAL EQUIPMENT CURB. REF. MECHANICAL FOR UNIT INFORMATION

4.154 PROVIDE NEW CRICKETS ON ROOF AT NEW CURB TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAIN

4.201 COUNTER SUPPORT BRACKET

4.202 WATER FOUNTAIN WITH BOTTLE FILLER, REF PLUMBING.

4.203 FIRE ALARM CONTROL PANEL, REF MEP DRAWINGS.

4.204 FIRE STROBE, REF MEP DRAWINGS.

4.205 LIGHT FIXTURE, REF ELECTRICAL

4.206 ROOFTOP MECHANICAL EQUIPMENT. REF. MECHANICAL

4.207 ELECTRICAL EQUIPMENT. REF. ELECTRICAL

4.208 THERMOSTAT, SEE MECHANICAL.

KEYED NOTES

4.209 LIFT STATION TEMP CONTROLS LOCATION. REF. ELECTRICAL.

4.210 NEW EXHAUST LOUVER. REF MECHANICAL

4.211 MOUNT BABY CHANGING STATION SO CHANGING TABLE IS 32" ABOVE FINISHED FLOOR. INFILL BEHIND CHANGING STATION WITH TILE TO MATCH IF STATION EXTENDS ABOVE TILE WAINSCOAT.

4.212 FRT PLYWOOD ON WALLS OF LAN ROOM. REF T-101.

4.213 PROCESSING COUNTER, SEE A-421 FOR DETAILS.

4.214 PROCESSING AREA 102 COUNTER. SEE VIEW 5 THIS WEEK

4.215 TRIM TILE AS NECESSARY TO MOUNT MIRROR FLUSH ON DRYWALL

4.216 EXISTING PLUMBING LINES. REF. PLUMBING

4.217 EMERGENCY LIGHT FIXTURE, REF. ELECTRICAL

4.303 MESH TO BE CONTINUOUS FROM WALL TO CEILING

4.304 ACP CEILING. REF CEILING PLAN

4.701 PLAM-1 REF. MATERIAL SCHEDULE

4.702 RB-1, TYP. SEE FINISH SCHEDULE

4.703 STEEL COUNTERTOP SUPPORT, 4' O.C. MAX.

4.704 PLAM-2 COUNTERTOP W/ 1/2" RADIUS EDGE.

4.705 2 1/2" DIA GROMMET FOR WIRE MANAGEMENT LOCATED IN FIELD PER OWNER DIRECTION. COORDINATE LOCATION WITH SUPPORTS.

4.706 1/2" SSM-1 COUNTERTOP. SEE FINISH SCHEDULE

4.707 SS-1. 2" EDGE PROFILE.

4.708 3/4" REVEAL, PLAM-1. SEE FINISH SCHEDULE.

4.710 DRAWER FRONT, PLAM-1 ON 3/4" PARTICLE BOARD. DRAWER BOX 1/2" MELAMINE SIDES, 1" MELAMINE BOTTOM

4.711 WIRE PULL, TYP. SEE SPECIFICATIONS

4.712 WIRE MANAGEMENT TRAY, TYP. WOOD BLOCKING AS NEEDED.

4.713 ACP CEILING. SEE REFLECTED CEILING PLAN

4.714 1/2" RADIUS EDGE.

4.715 CASEWORK BASE, HIDDEN.

4.803 BENCH, FIXED, SS DETENTION GRADE, 8' L X 16" D X 16" H, BOLTED TO FLOOR AND/OR WALL

4.804 TABLE, BAGGAGE EXAM, 36"W X 30"D X 42" H, BOLTED TO FLOOR

4.807 RELOCATED LOCKER

4.808 FURNITURE NOT IN SCOPE.

4.809 FURNITURE MECHANICALLY BOLTED TO FLOOR, SEE 8/A-503.

4.810 COMMUNICATIONS FURNISHINGS, SEE TECHNOLOGY PLANS.

4.811 COMPUTER PROCESSING UNIT (CPU) CABINET

4.812 MAR-RESISTANT PRIVACY PANEL, ATTACHED TO TABLE TOP.

4.813 MONITOR, OWNER PROVIDED

REGISTERED ARCHITECT PENNSYLVANIA MARY T. SHAFFER RAMBERTO

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL

4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

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M&H NO.: R3225600-192560
DATE: 01/13/2021
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SHEET CONTENTS:
KEYED NOTE DEFINITIONS

SHEET NO.:

A-004

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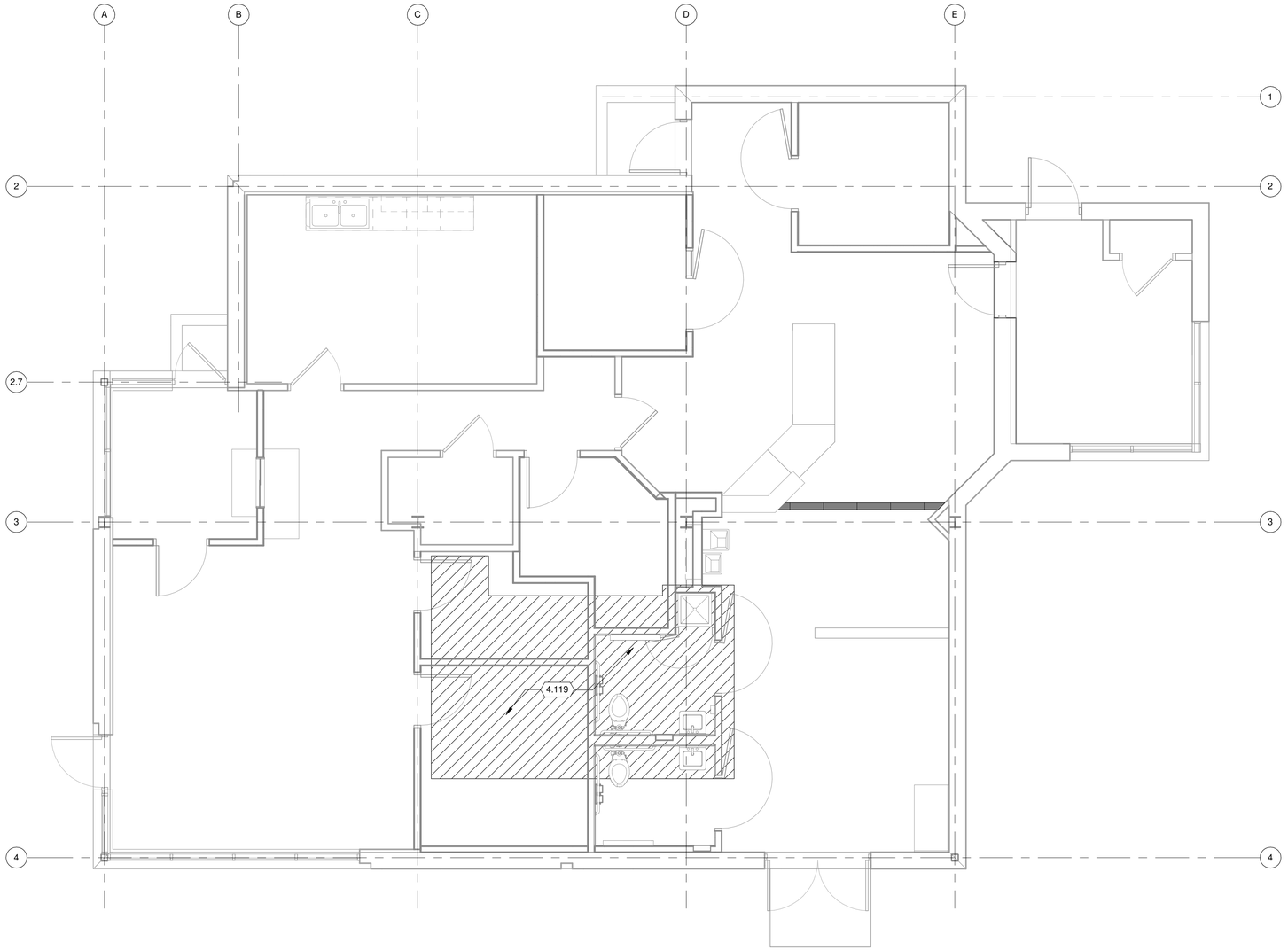

FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON ARCHITECTURAL SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
3. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.

1 FLATWORK PLAN

1/4" = 1'-0"

KEYED NOTES PER SHEET

4.119 6" CONCRETE FLOOR SLAB IN AREA OF REMOVED SLAB. MATCH EXISTING SLAB ELEVATIONS AT EDGES

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SHEET CONTENTS
FLATWORK PLAN

SHEET NO.:

A-100

REGISTERED ARCHITECT
PENNSYLVANIA
MARY T. SHAFFER HAMBRIDGE

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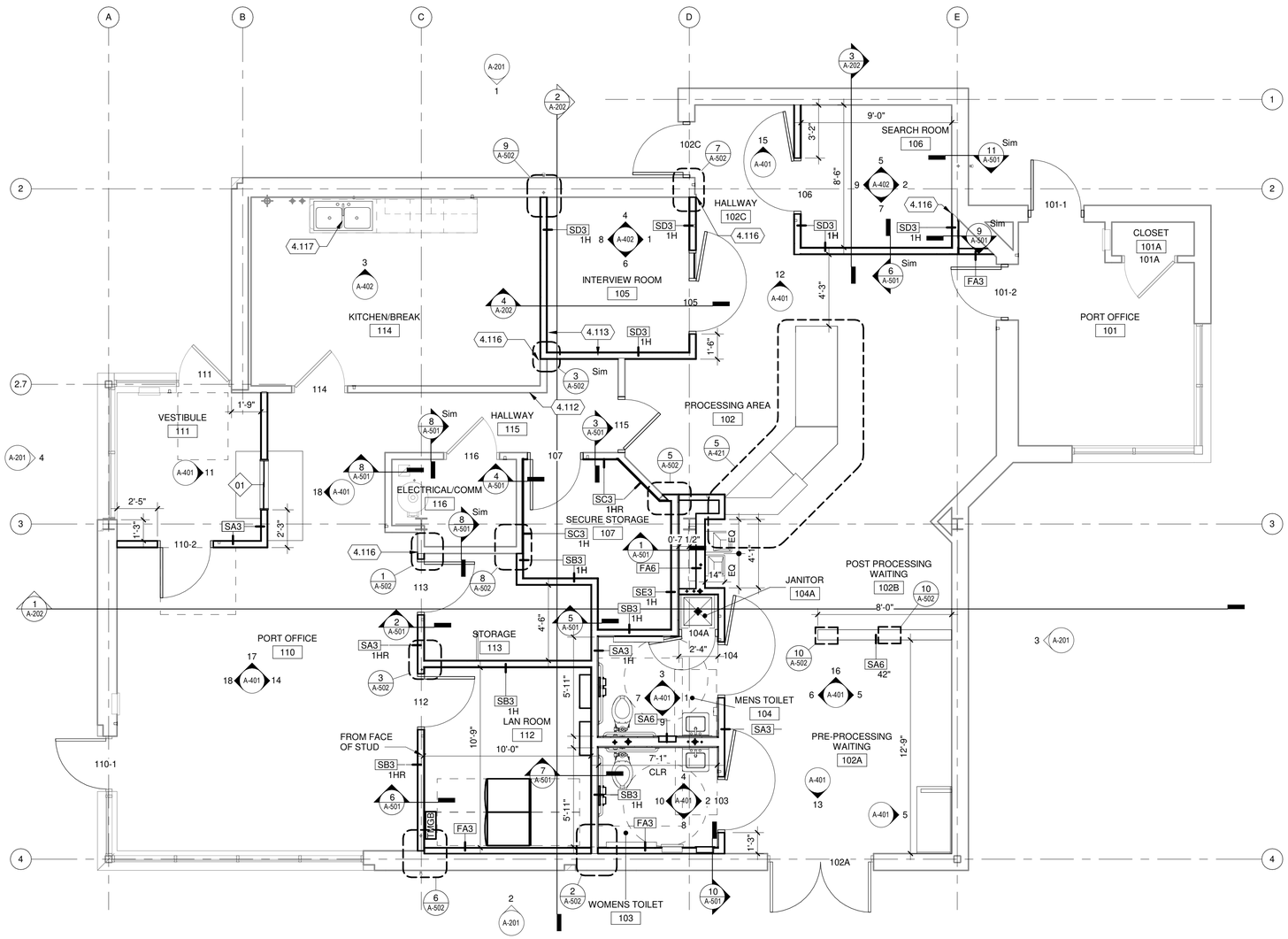


1 FLOOR PLAN
1/4" = 1'-0"

KEYED NOTES PER SHEET

4.112 PATCH WALL AT LOCATION OF REMOVED FIRE EXTINGUISHER CABINET

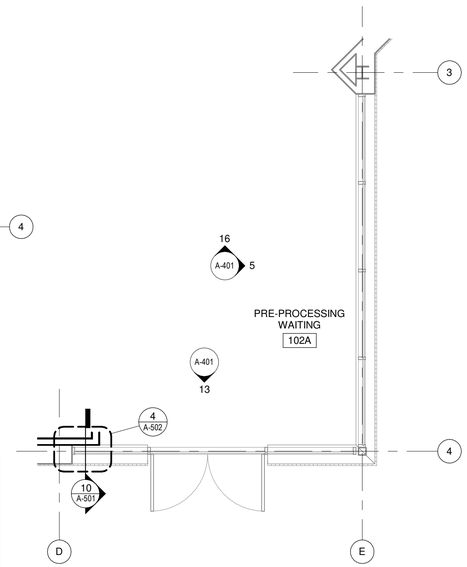
4.113 REPLACE WALL IN SAME LOCATION

4.116 ALIGN

4.117 NEW SINK IN EXISTING COUNTERTOP, REFERENCE PLUMBING DRAWINGS

FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON ARCHITECTURAL SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR CMU), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-011 AND G-021 FOR CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
6. PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
13. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
14. REFERENCE SHEET A-901 FOR FINISHES PLAN.
15. REFERENCE SHEET A-801 FOR SIGNAGE LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE SHEET A-701 FOR FURNITURE AND EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.



2 FIRST FLOOR CLERESTORY PLAN
1/4" = 1'-0"

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SHEET CONTENTS
FLOOR PLAN

SHEET NO.:
A-101

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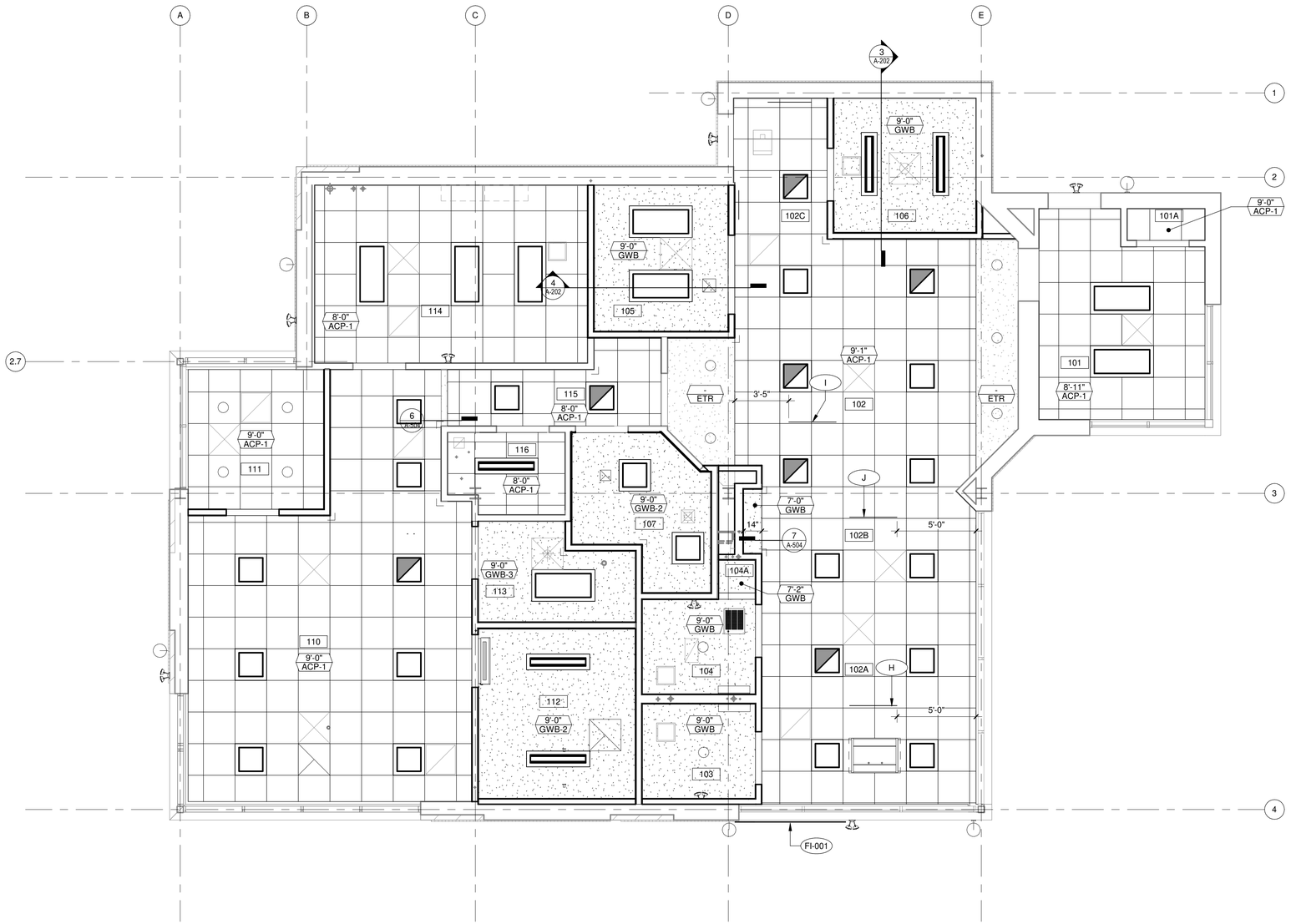

REFLECTED CEILING PLAN

1/4" = 1'-0"

CEILING PLAN GENERAL NOTES:

1. SEE ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
3. RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.
4. CENTER CEILING GRIDS IN SPACE UNLESS NOTED OTHERWISE.
5. METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL OR CEILING SURFACE.
6. REFERENCE SHEET A-801 FOR SIGNAGE
7. LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING GRIDS UNLESS SPECIFICALLY NOTED OTHERWISE.

SIGN PLAN LEGEND:

XX — SIGN TYPE

REFERENCE SHEET A-801 FOR ADDITIONAL SIGNAGE INFORMATION

CEILING PLAN LEGEND:

SEE ELECTRICAL FOR EXACT FIXTURE MODEL

- 2' x 2' SUSPENDED CEILING GRID
- GYPSUM BOARD CEILING (PAINTED)
- LIGHT FIXTURE (RECESSED MOUNTED)
- LIGHT FIXTURE (RECESSED CAN)
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER / EXHAUST GRILL
- EXHAUST FAN

CEILING TYPE TAG

- X'-X" / XX-X — ELEVATION ABOVE FINISHED FLOOR / CEILING TYPE
- A — SIGN TYPE
- A — SIGN TYPE

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SHEET CONTENTS
CEILING PLAN

SHEET NO.:

A-111

REGISTERED ARCHITECT PENNSYLVANIA MATTHEW T. SHAFFER RA-026510

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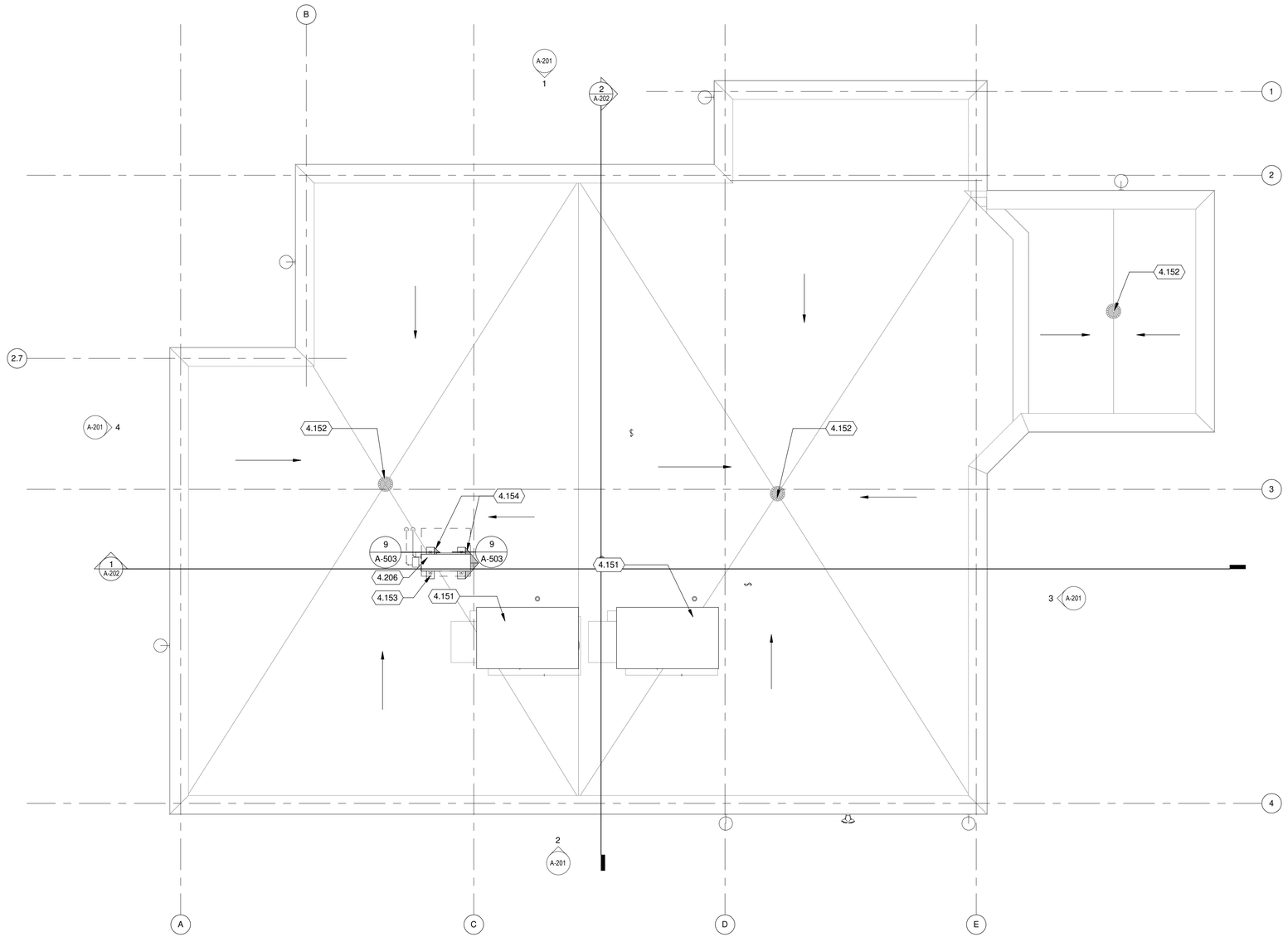

1 **ROOF PLAN**
1/4" = 1'-0"

ROOF PLAN GENERAL NOTES:

1. ROOF IS EXISTING.
2. ANY WORK ON THE ROOF MUST MAINTAIN POSITIVE DRAINAGE TO EXISTING ROOF DRAINS. PROVIDE CRICKETS AND FLASHING AS NECESSARY.
3. PROVIDE NEW FLASHING ON ALL NEW PENETRATIONS. SEE DETAIL 2 THIS SHEET.

KEYED NOTES PER SHEET

4.151 EXISTING ROOF TOP UNIT

4.152 EXISTING ROOF DRAIN

4.153 NEW MECHANICAL EQUIPMENT CURB. REF. MECHANICAL FOR UNIT INFORMATION

4.154 PROVIDE NEW CRICKETS ON ROOF AT NEW CURB TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAIN

4.206 ROOFTOP MECHANICAL EQUIPMENT. REF. MECHANICAL

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SHEET CONTENTS
ROOF PLAN

SHEET NO.:
A-112

REGISTERED ARCHITECT PENNSYLVANIA MARY H. SHAFFER HEADSTED

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SIGN PLAN LEGEND:

XX → SIGN TYPE

REFERENCE SHEET A-801 FOR ADDITIONAL SIGNAGE INFORMATION

KEYED NOTES PER SHEET

4.205 LIGHT FIXTURE, REF ELECTRICAL

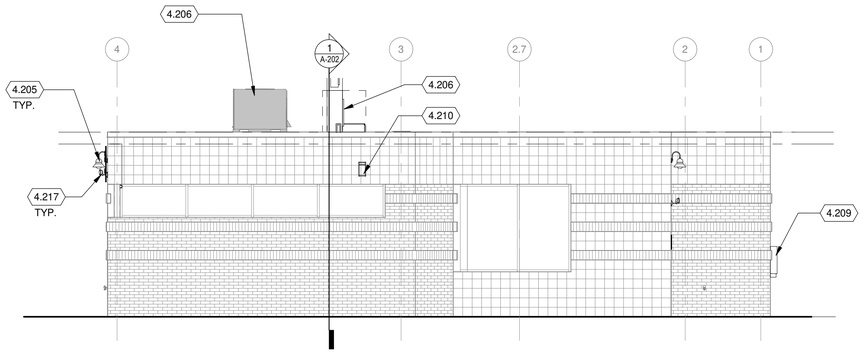
4.206 ROOFTOP MECHANICAL EQUIPMENT. REF. MECHANICAL

4.207 ELECTRICAL EQUIPMENT. REF. ELECTRICAL

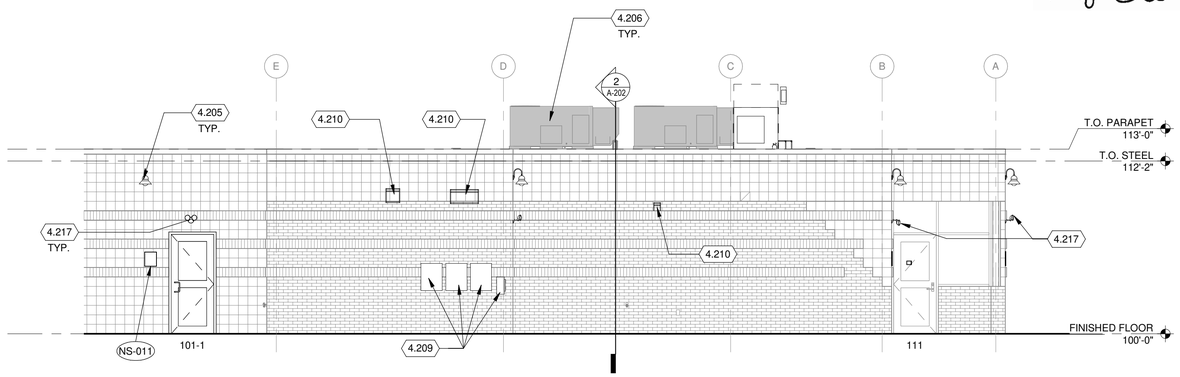
4.209 LIFT STATION TEMP CONTROLS LOCATION. REF. ELECTRICAL.

4.210 NEW EXHAUST LOUVER. REF MECHANICAL

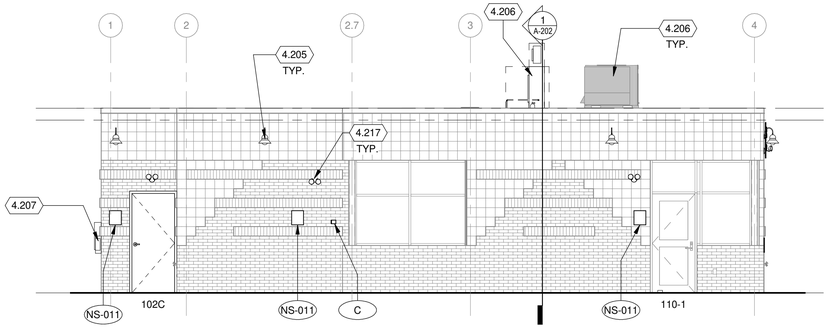
4.217 EMERGENCY LIGHT FIXTURE, REF. ELECTRICAL



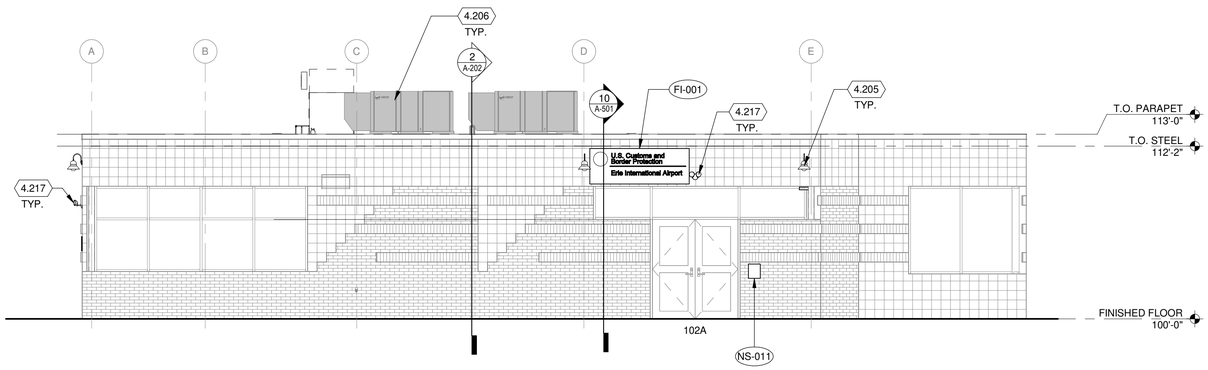
3 EXTERIOR ELEVATIONS - EAST
3/16" = 1'-0"



1 EXTERIOR ELEVATION - NORTH
3/16" = 1'-0"



4 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"



2 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"

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SHEET CONTENTS
BUILDING ELEVATIONS

SHEET NO.:

A-201

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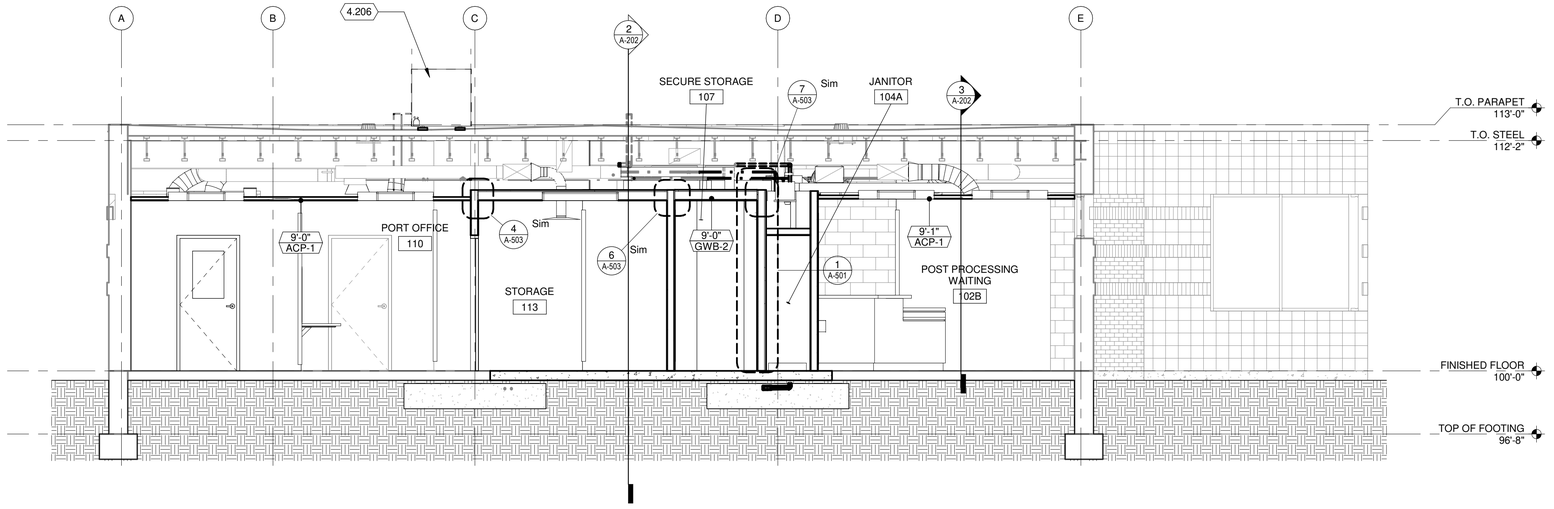
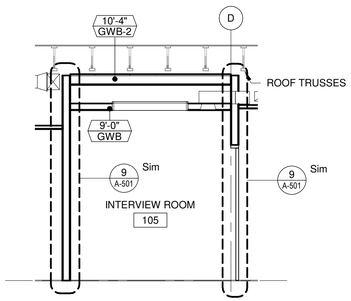
KEYED NOTES PER SHEET

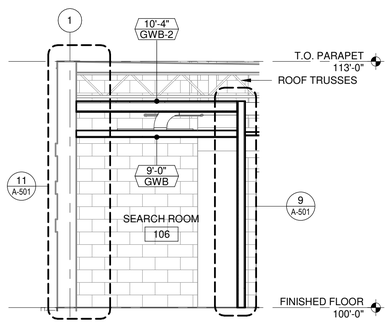
4.206 ROOFTOP MECHANICAL EQUIPMENT. REF. MECHANICAL



1 BUILDING SECTION - EAST - WEST
1/4" = 1'-0"



4 INTERVIEW ROOM 105 SECTION
1/4" = 1'-0"



3 SEARCH ROOM 106 SECTION
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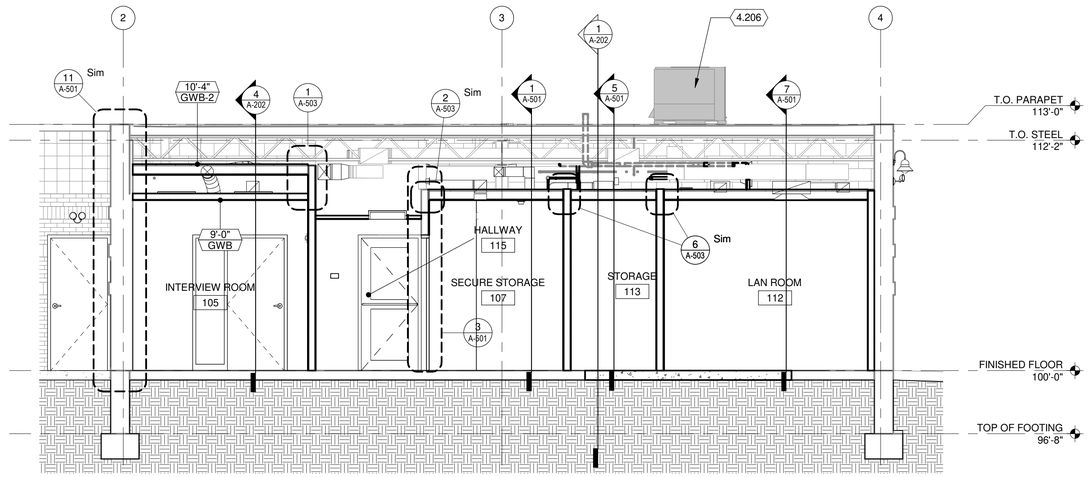

2 BUILDING SECTION - NORTH - SOUTH
1/4" = 1'-0"

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SHEET CONTENTS
BUILDING SECTIONS

SHEET NO.:
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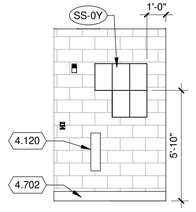
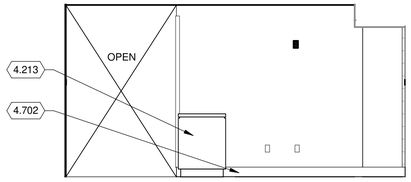
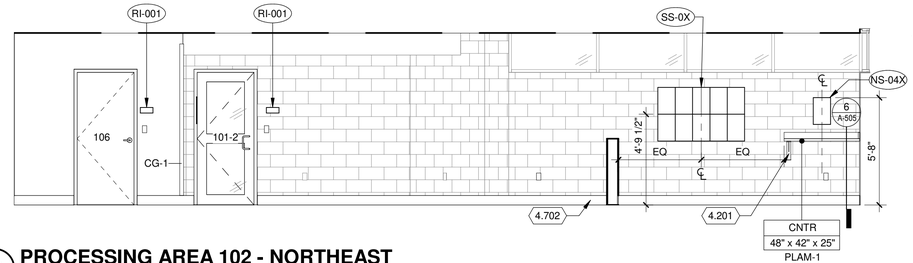


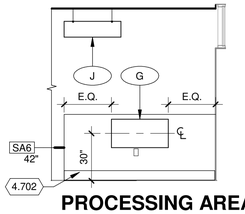
15 HALLWAY 102C - NORTHWEST
1/4" = 1'-0"



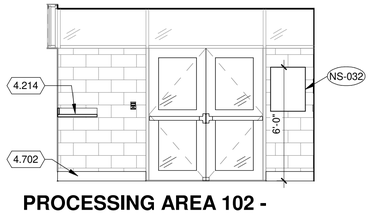
12 PROCESSING AREA 102 - NORTHWEST
1/4" = 1'-0"



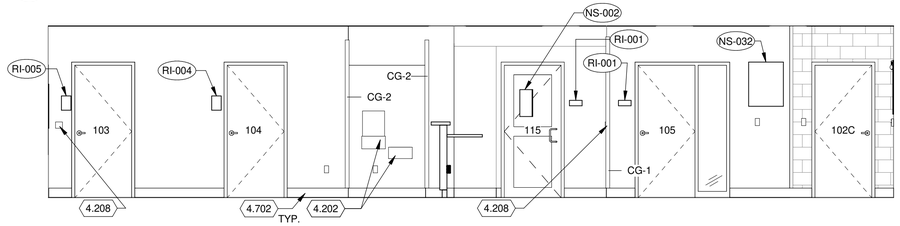
5 PROCESSING AREA 102 - NORTHEAST
1/4" = 1'-0"



16 PROCESSING AREA 102A - NORTHWEST
1/4" = 1'-0"



13 PROCESSING AREA 102 - SOUTHEAST
1/4" = 1'-0"



6 PROCESSING AREA 102 - SOUTHWEST
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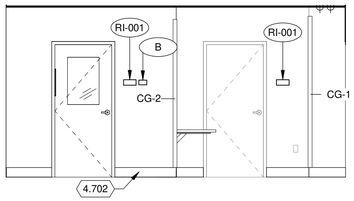

17 PORT OFFICE 110 - NORTHWEST
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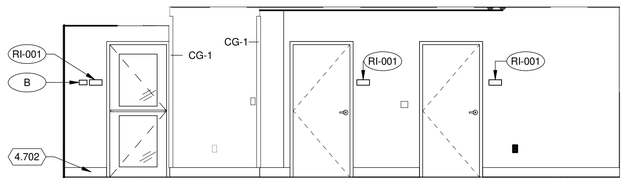
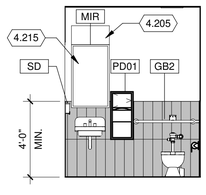
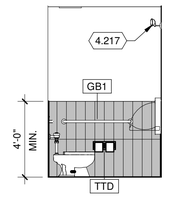


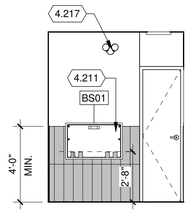
14 PORT OFFICE 110 - NORTHEAST
1/4" = 1'-0"



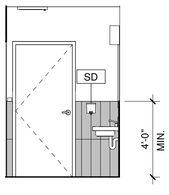
9 MENS TOILET 113 - SOUTHWEST
1/4" = 1'-0"



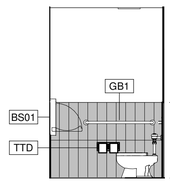
7 MENS TOILET 113 - SOUTHEAST
1/4" = 1'-0"



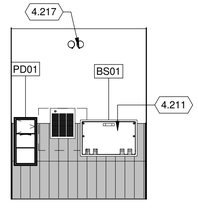
3 MENS TOILET 113 - NORTHWEST
1/4" = 1'-0"



1 MENS TOILET 113 - NORTHEAST
1/4" = 1'-0"



9 MENS TOILET 113 - SOUTHWEST
1/4" = 1'-0"



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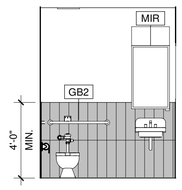
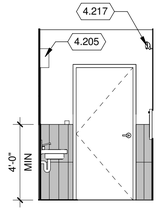
1/4" = 1'-0"



3 MENS TOILET 113 - NORTHWEST
1/4" = 1'-0"



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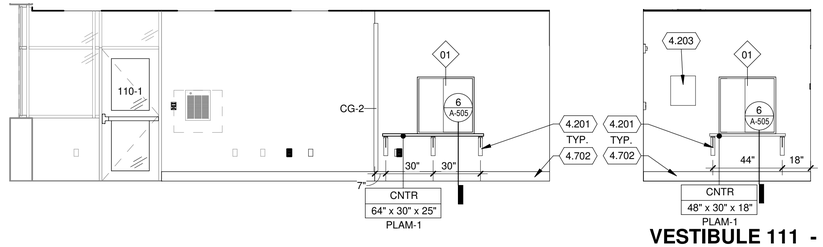
1/4" = 1'-0"



18 PORT OFFICE 110 - SOUTHWEST
1/4" = 1'-0"

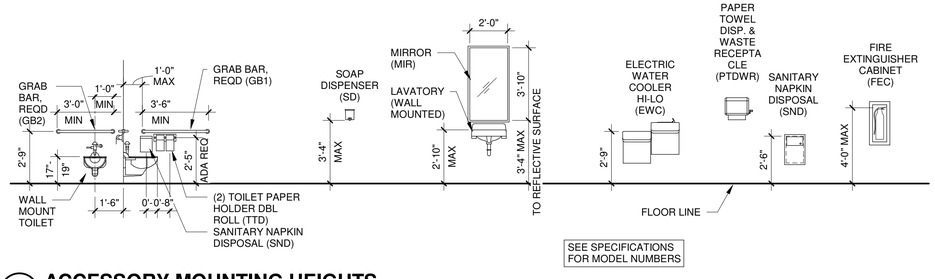
11 VESTIBULE 111 - NORTHEAST
1/4" = 1'-0"

10 WOMENS TOILET 111 - SOUTHWEST
1/4" = 1'-0"

8 WOMENS TOILET 111 - SOUTHEAST
1/4" = 1'-0"

4 WOMENS TOILET 111 - NORTHWEST
1/4" = 1'-0"

2 WOMENS TOILET 111 - NORTHEAST
1/4" = 1'-0"

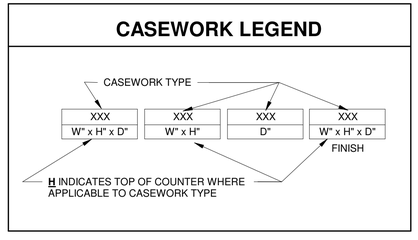


19 ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

TOILET ROOM ACCESSORY SCHEDULE

KEY NAME	DESCRIPTION	PROVIDED	INSTALLED
BS01	BABY CHANGING STATION	CONTRACTOR	CONTRACTOR
GB1	42" LONG GRAB BAR	CONTRACTOR	CONTRACTOR
GB2	36" LONG GRAB BAR	CONTRACTOR	CONTRACTOR
MIR	24"WIDE x 40" HIGH STAINLESS STEEL FRAMED GLASS MIRROR	CONTRACTOR	CONTRACTOR
PD01	PAPER TOWEL DISPENSE W/ INTEGRATED WASTE RECEPTACLE	CONTRACTOR	CONTRACTOR
SD	SOAP DISPENSER	CONTRACTOR	CONTRACTOR
TTD	TOILET PAPER HOLDER DBL ROLL	CONTRACTOR	CONTRACTOR

CASEWORK LEGEND



SIGN PLAN LEGEND:

XX → SIGN TYPE

REFERENCE SHEET A-801 FOR ADDITIONAL SIGNAGE INFORMATION

GENERAL NOTES:

1. REFERENCE SHEET A-901 FOR FINISHES PLAN.
2. REFERENCE SHEET A-801 FOR SIGNAGE LAYOUTS AND COORDINATION REQUIREMENTS.
3. REFERENCE SHEET A-701 FOR FURNITURE AND EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.

KEYED NOTES PER SHEET

4.120 WALL MOUNTED FIRE EXTINGUISHER

4.201 COUNTER SUPPORT BRACKET

4.202 WATER FOUNTAIN WITH BOTTLE FILLER, REF PLUMBING.

4.203 FIRE ALARM CONTROL PANEL, REF MEP DRAWINGS.

4.205 LIGHT FIXTURE, REF ELECTRICAL

4.208 THERMOSTAT, SEE MECHANICAL.

4.211 MOUNT BABY CHANGING STATION SO CHANGING TABLE IS 32" ABOVE FINISHED FLOOR. INFILL BEHIND CHANGING STATION WITH TILE TO MATCH IF STATION EXTENDS ABOVE TILE WAINSCOAT.

4.213 PROCESSING COUNTER, SEE A-421 FOR DETAILS.

4.214 PROCESSING AREA 102 COUNTER. SEE VIEW 5 THIS WEEK

4.215 TRIM TILE AS NECESSARY TO MOUNT MIRROR FLUSH ON DRYWALL

4.217 EMERGENCY LIGHT FIXTURE, REF. ELECTRICAL

4.702 RB-1, TYP. SEE FINISH SCHEDULE

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Wauwatosa, WI 53226
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GENERAL AVIATION FACILITY REMODEL
4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

ISSUED

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: ATM
DRAWN BY: ATM
CHECKED BY: MH, PC
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SHEET CONTENTS
INTERIOR ELEVATIONS

SHEET NO.:
A-401

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REGISTERED ARCHITECT PENNSYLVANIA MATTHEW T. SHAFFER RA-016910

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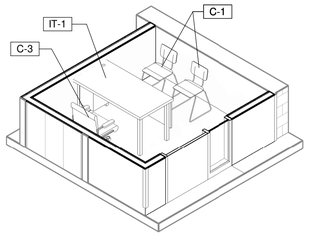
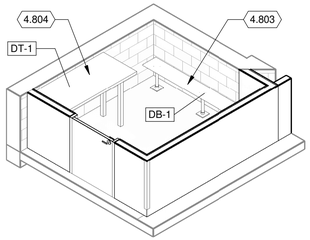
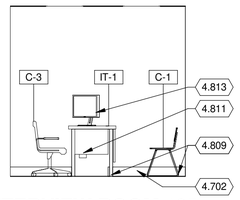


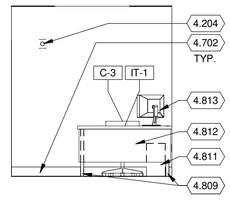
10 **INTERVIEW ISOMETRIC**



11 **SEARCH ROOM ISOMETRIC**



8 **INTERVIEW ROOM 105 - SOUTHWEST**
1/4" = 1'-0"



6 **INTERVIEW ROOM 105 - SOUTHEAST**
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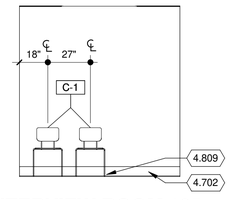

4 **INTERVIEW ROOM 105 - NORTHWEST**
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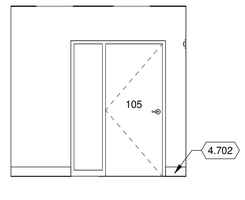

1 **INTERVIEW ROOM 105 - NORTHEAST**
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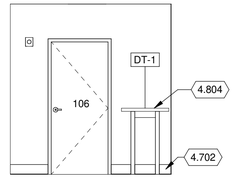

9 **SEARCH ROOM 106 - SOUTHWEST**
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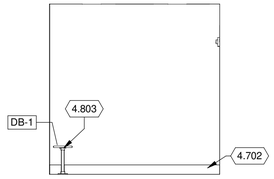

7 **SEARCH ROOM 106 - SOUTHEAST**
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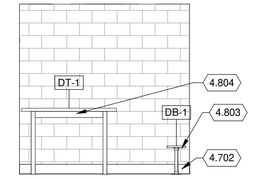

5 **SEARCH ROOM 106 - NORTHWEST**
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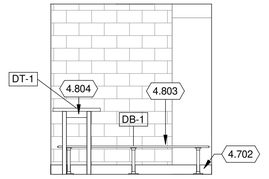

2 **SEARCH ROOM 106 - NORTHEAST**
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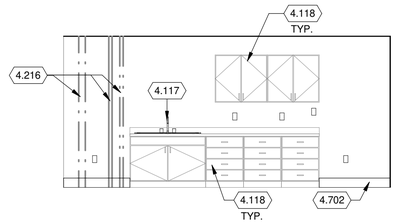

3 **KITCHEN/BREAK 114 - NORTHWEST**
1/4" = 1'-0"

GENERAL NOTES:

1. REFERENCE SHEET A-901 FOR FINISHES PLAN.
2. REFERENCE SHEET A-801 FOR SIGNAGE LAYOUTS AND COORDINATION REQUIREMENTS.
3. REFERENCE SHEET A-701 FOR FURNITURE AND EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.

KEYED NOTES PER SHEET

4.117	NEW SINK IN EXISTING COUNTERTOP, REFERENCE PLUMBING DRAWINGS
4.118	EXISTING CASEWORK TO REMAIN
4.204	FIRE STROBE, REF MEP DRAWINGS.
4.216	EXISTING PLUMBING LINES. REF. PLUMBING
4.702	RB-1, TYP. SEE FINISH SCHEDULE
4.803	BENCH, FIXED, SS DETENTION GRADE, 8' L X 16" D X 16" H, BOLTED TO FLOOR AND/OR WALL
4.804	TABLE, BAGGAGE EXAM, 36"W X 30"D X 42" H, BOLTED TO FLOOR
4.809	FURNITURE MECHANICALLY BOLTED TO FLOOR, SEE 8/A-503.
4.811	COMPUTER PROCESSING UNIT (CPU) CABINET
4.812	MAR-RESISTANT PRIVACY PANEL, ATTACHED TO TABLE TOP.
4.813	MONITOR, OWNER PROVIDED

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REMODEL

4459 WEST 12TH STREET
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SHEET CONTENTS
INTERIOR ELEVATIONS & ISOMETRICS

SHEET NO.:

A-402

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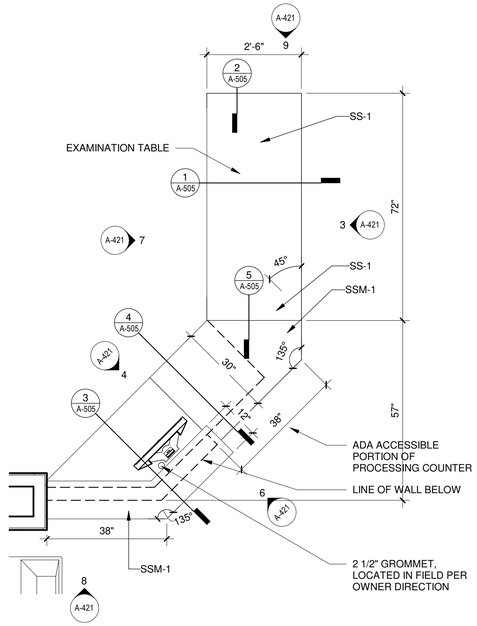

5 PROCESSING COUNTER AND EXAM TABLE

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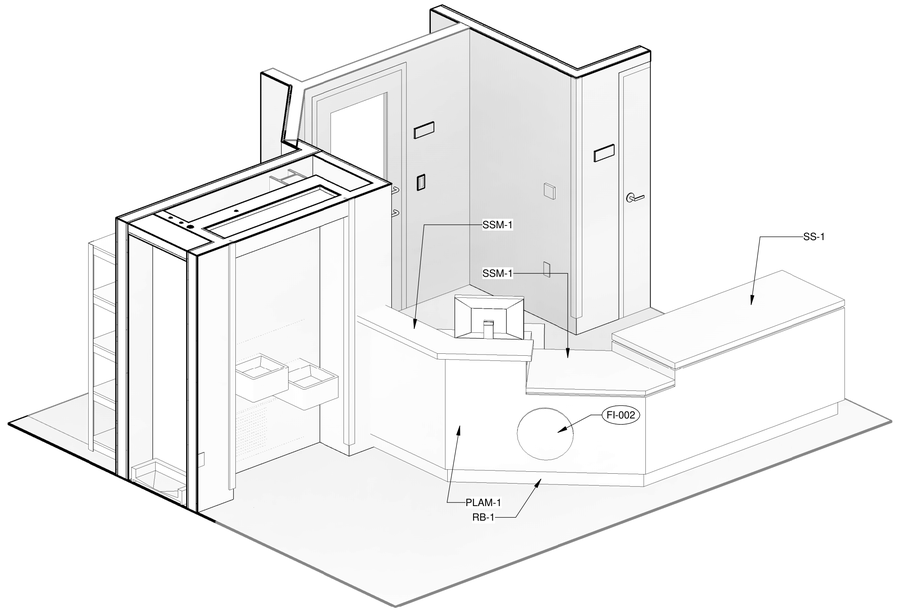


2 PROCESSING COUNTER AND EXAM TABLE FRONT

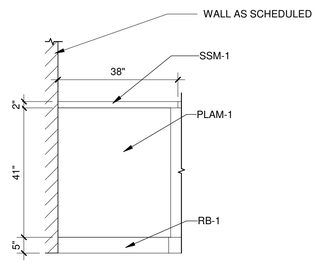
ROOM FINISH ABBREVIATIONS:

PLAM	= PLASTIC LAMINATE
RB	= RUBBER BASE
SS	= STAINLES STEEL
SSM	= SOLID SURFACE MATERIAL
VB	= VINYL BASE

SIGN PLAN LEGEND:

XX → SIGN TYPE

REFERENCE SHEET A-801 FOR ADDITIONAL SIGNAGE INFORMATION



8 PROCESSING COUNTER SIDE

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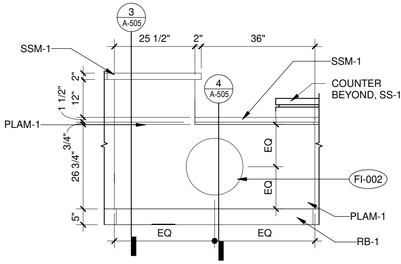

6 PROCESSING COUNTER FRONT

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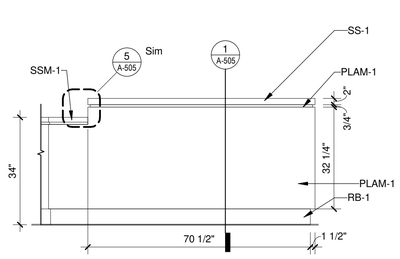

3 EXAMINATION TABLE FRONT

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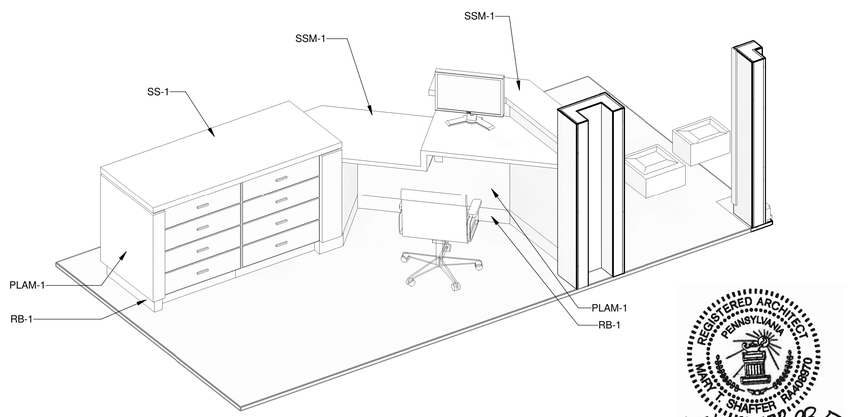
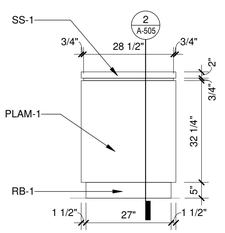


1 PROCESSING COUNTER AND EXAM TABLE REAR



9 EXAMINATION TABLE END

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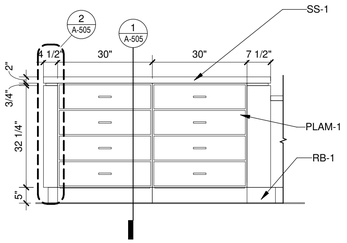

7 EXAMINATION TABLE BACK

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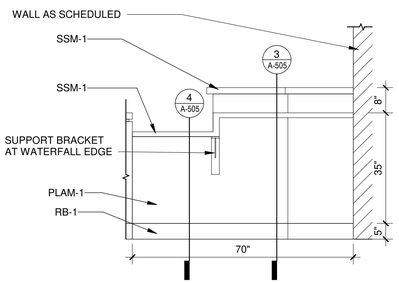

4 PROCESSING COUNTER REAR

1/2" = 1'-0"

1 PROCESSING COUNTER AND EXAM TABLE REAR

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SHEET CONTENTS
PROCESSING COUNTER PLANS & ELEVATIONS

SHEET NO.:

A-421

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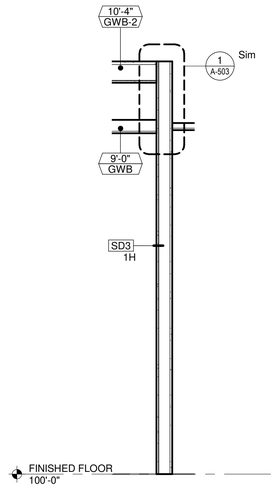
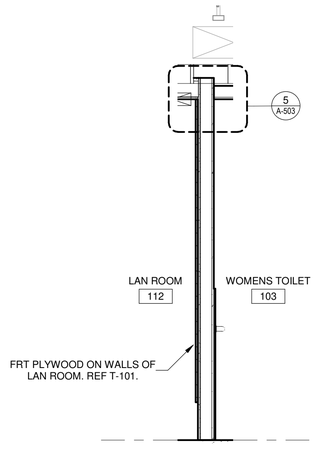


9 DOUBLE CEILING AT GYP BD WALL
1/2" = 1'-0"



7 RATED WALL AT RATED AND NON-RATED CEILING
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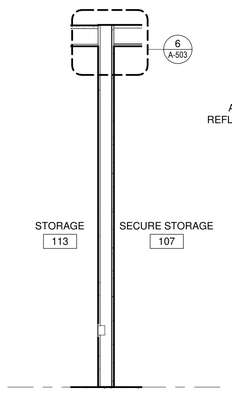
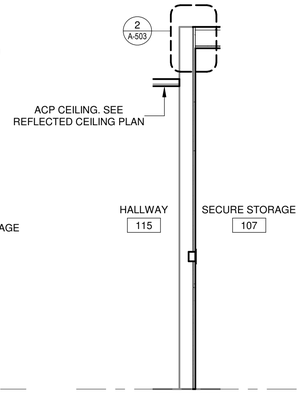


5 RATED WALL AT RATED CEILINGS
1/2" = 1'-0"



3 EXIST WALL AT SECURE STORAGE
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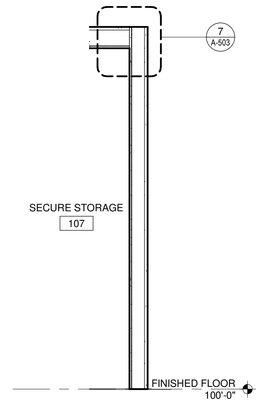

1 SHAFT WALL AT RATED CEILING
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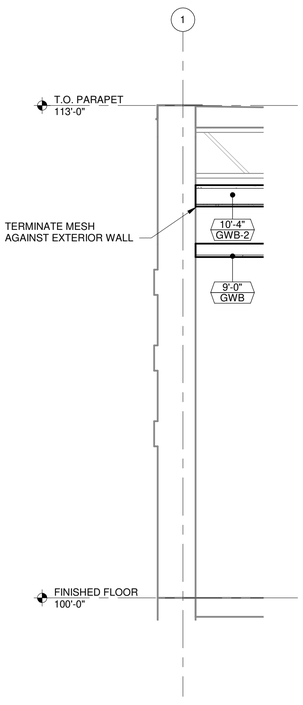
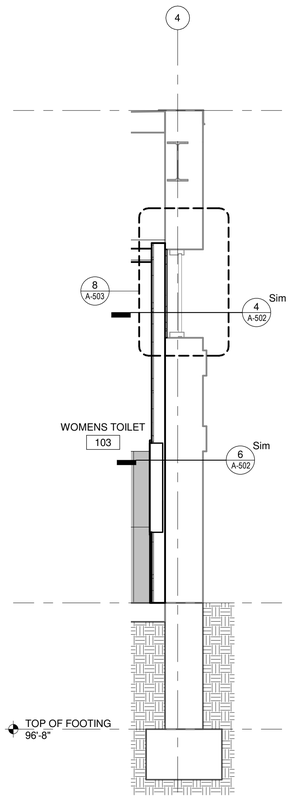


11 DOUBLE CEILING AT MASONRY WALL
1/2" = 1'-0"



10 WALL SECTION AT WINDOW INFILL
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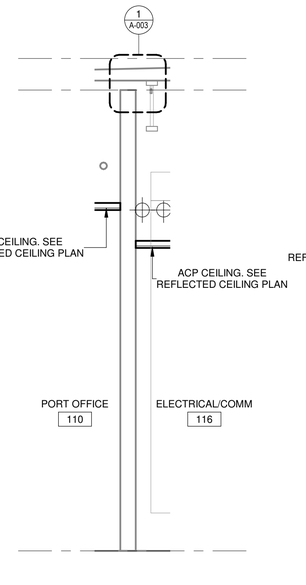
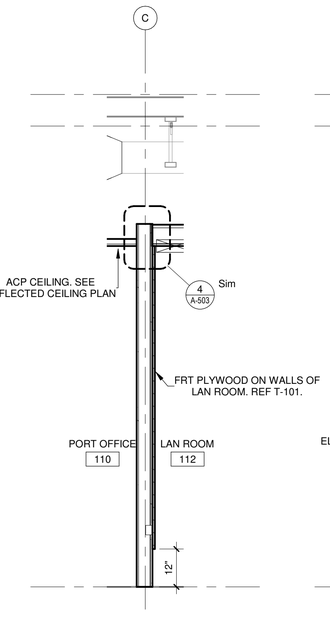
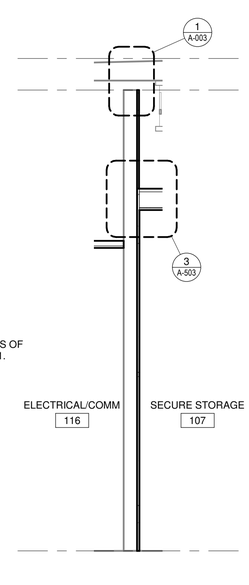


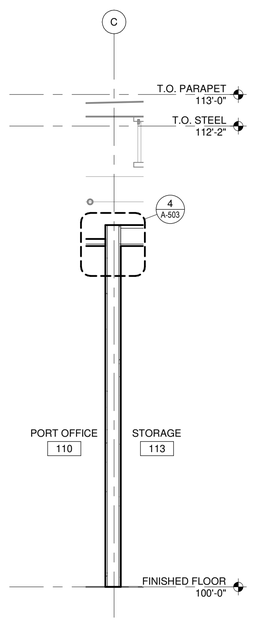
8 COMM WALL HEAD UPGRADE
1/2" = 1'-0"



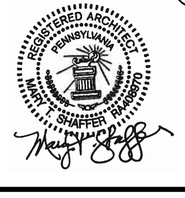
6 RATED MESH WALL AT RATED CEILING
1/2" = 1'-0"



4 EXIST WALL AT RATED CEILING
1/2" = 1'-0"



2 RATED WALL AT RATED CEILING
1/2" = 1'-0"



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M&H NO.:	R3225600-192560
DATE:	01/13/2021
DESIGNED BY:	ATM
DRAWN BY:	ATM
CHECKED BY:	MH, PC

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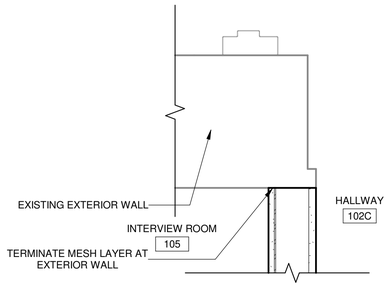
SHEET CONTENTS
PARTITION & WALL SECTIONS

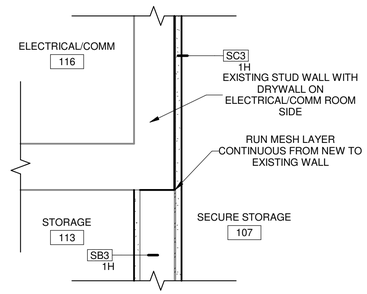
SHEET NO.:
A-501

1/12/2021 1:25:36 PM C:\Revit Local\3225600-192560_02-A-R20_andy.malanowski.rvt



7 INTERVIEW ROOM AT HALLWAY PLAN DETAIL

1 1/2" = 1'-0"



8 NEW MESH AT NEW MESH WALL PLAN DETAIL

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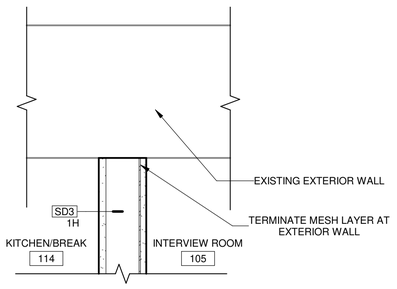

9 INTERVIEW ROOM AT KITCHEN/BREAK PLAN DETAIL

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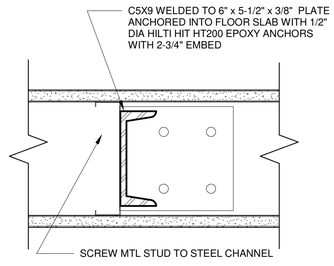
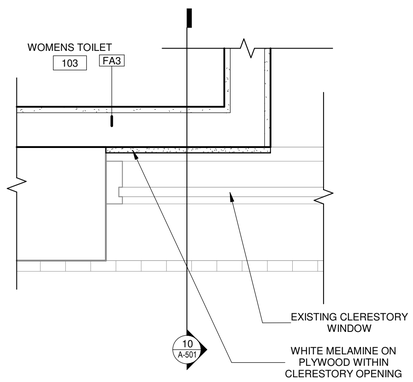


10 WALL STIFFENER DETAIL

3" = 1'-0"



4 RESTROOM AT EXISTING WALL PLAN DETAIL

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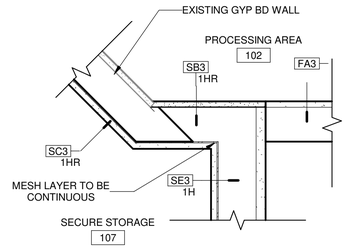

5 ANGLED WALL AT STORAGE ROOM PLAN DETAIL

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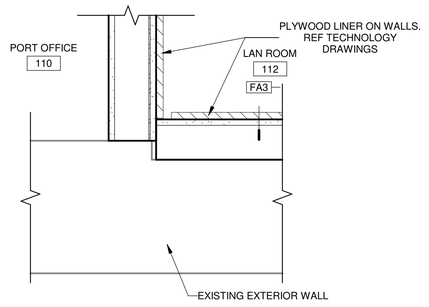
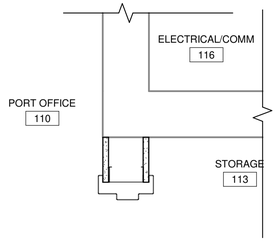


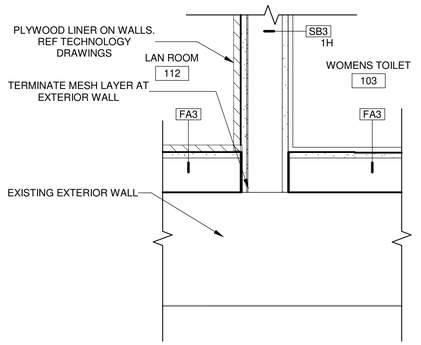
6 MESH WALL AT EXTERIOR WALL PLAN DETAIL

1 1/2" = 1'-0"



1 NEW TO EXIST WALL

1 1/2" = 1'-0"



INTERIOR MESH WALL AT EXTERIOR WALL PLAN DETAIL

2

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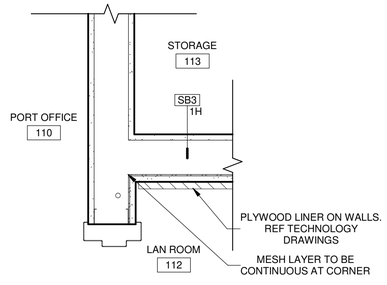

MESH AT EXISTING WALL 90 DEGREES PLAN DETAIL

3

1 1/2" = 1'-0"

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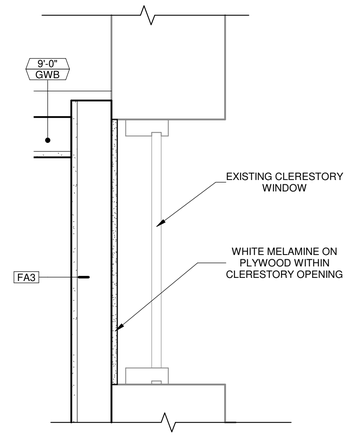
SHEET CONTENTS
PLAN DETAILS

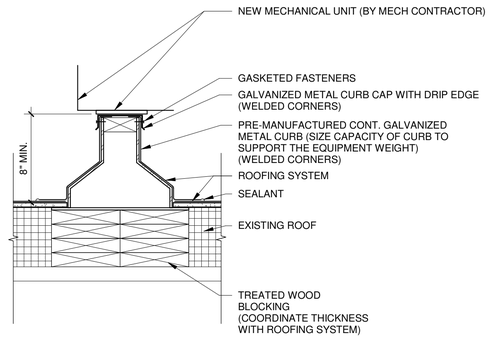
SHEET NO.:
A-502

REGISTERED ARCHITECT PENNSYLVANIA MARY T. SHAFFER RA405870

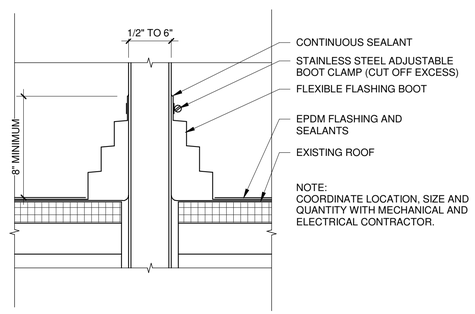
1/12/2021 1:25:37 PM C:\Revit Local\3225600-192560_02-A-R20_andy.malanowski.rvt



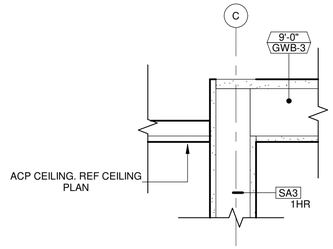
8 SECTION DETAIL - WINDOW INFILL AT CLERESTORY
1 1/2" = 1'-0"



9 MECHANICAL EQUIPMENT SUPPORT CURB
1 1/2" = 1'-0"



10 PIPE PENETRATION - EPDM
1 : 1



4 RATED AND ACT AT RATED WALL
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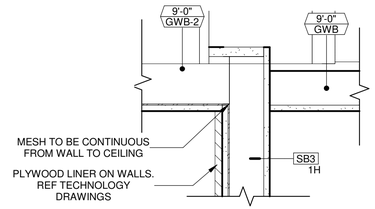
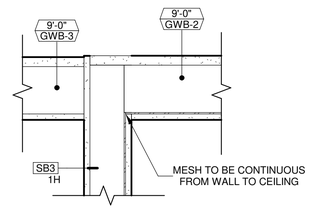
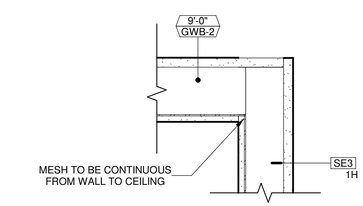


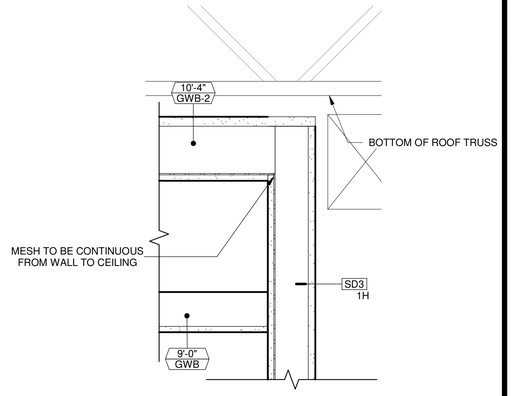
RATED AND NON RATED GYP BD CEILING AT RATED WALL
5
1 1/2" = 1'-0"



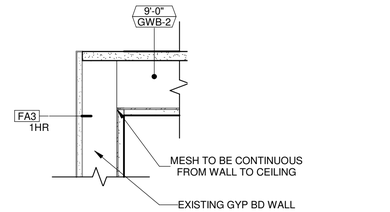
RATED MESH CEILING AT RATED GYP BD CEILING
6
1 1/2" = 1'-0"



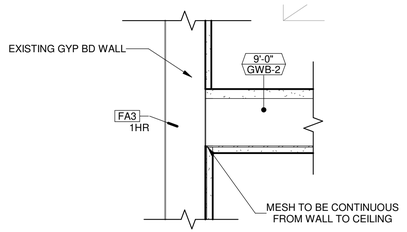
SHAFT WALL WITH MESH AT RATED MESH CEILING
7
1 1/2" = 1'-0"



DOUBLE CEILING AT INTERVIEW AND SEARCH ROOMS
1
1 1/2" = 1'-0"



EXIST WALL AT NEW RATED LID SECTION DETAIL
2
1 1/2" = 1'-0"



3 GYP BD CEILING AT UPGRADED WALL
1 1/2" = 1'-0"

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SHEET CONTENTS
SECTION DETAILS

SHEET NO.:
A-503

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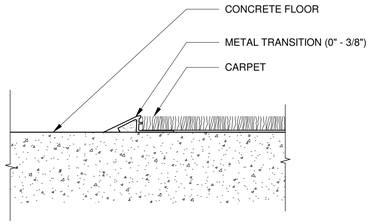
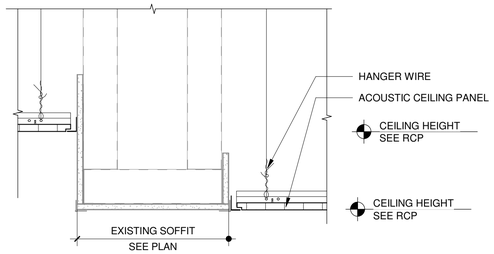


5 TRANSITION - CONCRETE TO CARPET
6" = 1'-0"



6 CEILING TRANSITION - GYPSUM BULKHEAD
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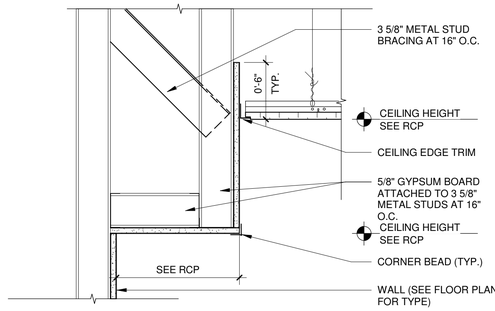
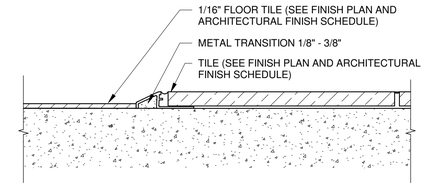
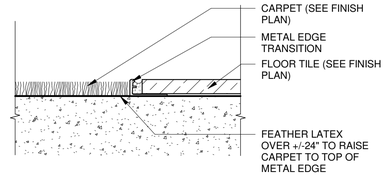


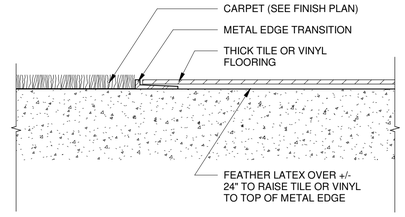
7 CEILING TRANSITION - SOFFIT DETAIL
1 1/2" = 1'-0"



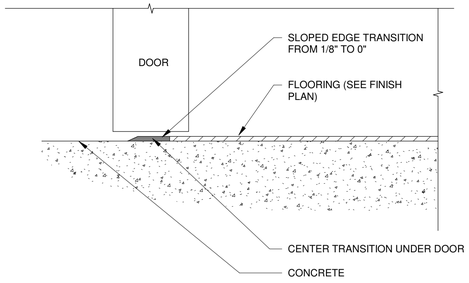
1 TRANSITION - VINYL TILE TO TILE
6" = 1'-0"



2 TRANSITION - CARPET TO TILE
6" = 1'-0"



3 TRANSITION - CARPET TO VINYL TILE
6" = 1'-0"



4 TRANSITION - CONCRETE TO VINYL TILE
6" = 1'-0"

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SHEET CONTENTS
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A-504

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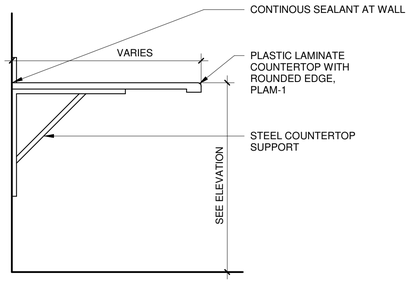
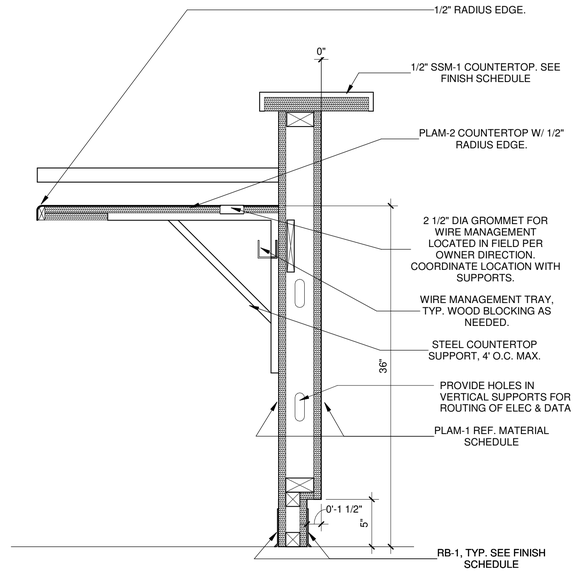
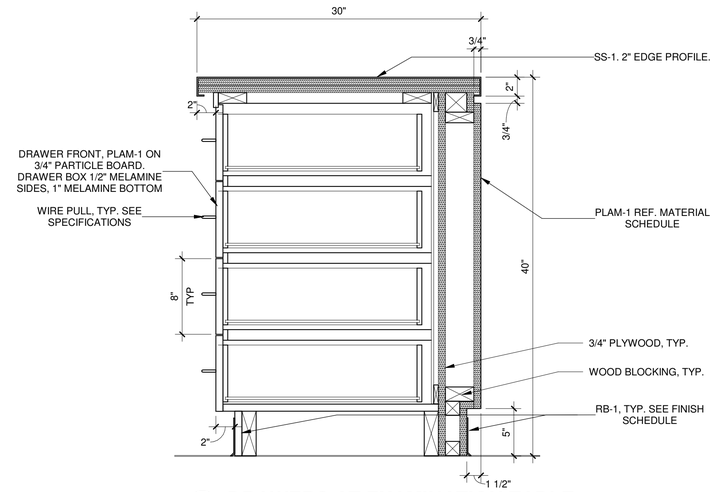


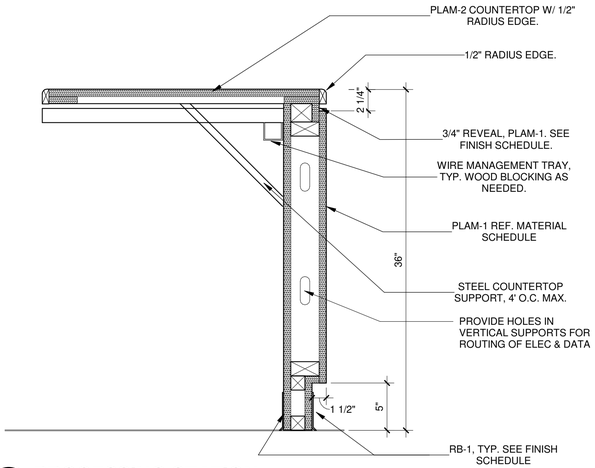
6 COUNTERTOP DETAIL
1" = 1'-0"



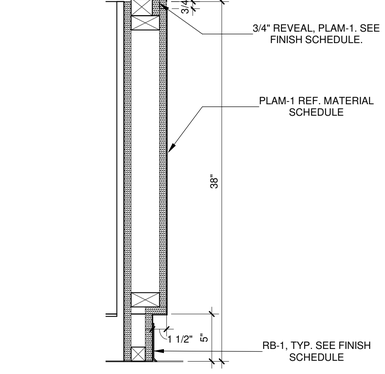
3 PROCESSING STATION WITH TRANSACTION TOP
1 1/2" = 1'-0"



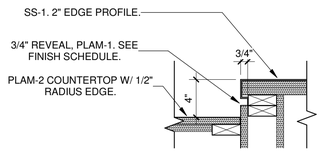
1 DRAWERS AT EXAMINATION TABLE
1 1/2" = 1'-0"



4 PROCESSING STATION
1 1/2" = 1'-0"



2 EXAMINATION TABLE END
1 1/2" = 1'-0"



5 PROCESSING COUNTER TO EXAM TABLE
1 1/2" = 1'-0"

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4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

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M&H NO.:	R3225600-192560
DATE:	01/13/2021
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DRAWN BY:	ATM
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SHEET CONTENTS
CASEWORK DETAILS

SHEET NO.:
A-505

REGISTERED ARCHITECT PENNSYLVANIA MARY HUNT SHAFFER RA-016770

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DOOR AND HARDWARE SCHEDULE

DOOR NUMBER	DOOR							FRAME						MISCELLANEOUS			DOOR NUMBER
	LEAF					GLAZING TYPE	FINISH	TYPE	MAT'L	DETAILS			FINISH	LABEL	HDWR SET	REMARKS	
	QTY.	WIDTH	HEIGHT	TYPE	MAT'L					HEAD	JAMB	OTHER					
101-1	1	3'-0"	7'-0"	WS	ALUM	GL-1	ANNO	EXIST	ALUM	8/A-601	9/A-601	-	ANNO	--	3.0		101-1
101-2	1	3'-0"	7'-0"	WS	ALUM		ANNO	F1	ALUM	8/A-601	9/A-601	-	ANNO	--	7.0	1	101-2
101A	1	3'-0"	7'-0"	F	EXIST	-		EXIST	HM	EXIST	EXIST		PT	--	10.0		101A
102A	2	3'-0"	7'-0"	WS	ALUM	GL-1	ANNO	EXIST	ALUM	EXIST	EXIST		ANNO	--	1.0		102A
102C	1	3'-0"	7'-0"	F	HM	-	PT	F1	HM	EXIST	EXIST		PT	--	4.0		102C
103	1	3'-0"	7'-0"	F	WD	-	PT	F1	HM	3/A-601	4/A-601	-	PT	--	14.0		103
104	1	3'-0"	7'-0"	F	WD	-	PT	F1	HM	3/A-601	4/A-601	-	PT	--	14.0		104
104A	1	2'-0"	7'-0"	F	WD	-	PT	F1	HM	3/A-601	4/A-601	-	PT	--	10.0		104A
105	1	3'-0"	7'-0"	F	HM	GL-3	PT	S	HM	3/A-601	4/A-601	5/A-601	PT	45 MIN	11.0	2	105
106	1	3'-0"	7'-0"	F	HM	-	PT	F1	HM	3/A-601	4/A-601	-	PT	45 MIN	13.0	2	106
107	1	3'-0"	7'-0"	F	HM	-	PT	F1	HM	3/A-601	4/A-601	-	PT	45 MIN	7.0	2	107
110-1	1	3'-0"	7'-0"	WS	ALUM	GL-1	ANNO	EXIST	ALUM	EXIST	EXIST		PT	--	2.0		110-1
110-2	1	3'-0"	7'-0"	HG	WD	GL-2	PT	F1	HM	3/A-601	4/A-601	-	PT	--	9.0		110-2
111	1	3'-0"	7'-0"	EXIST	ALUM	GL-1		EXIST	ALUM	EXIST	EXIST		ANNO	--	5.0		111
112	1	3'-0"	7'-0"	F	WD	-	PT	F1	HM	3/A-601	4/A-601	-	PT	45 MIN	7.0	2	112
113	1	3'-0"	7'-0"	F	WD	-		F1	HM	3/A-601	4/A-601	-	PT	45 MIN	10.0		113
114	1	3'-0"	7'-0"	F	EXIST	-	PT	EXIST	HM	EXIST	EXIST		PT	--	12.0		114
115	1	3'-0"	7'-0"	WS	HM		PT	F1	HM	3/A-601	4/A-601	-	PT	--	8.0	1	115
116	1	3'-0"	7'-0"	F	HM	-	PT	EXIST	HM	EXIST	EXIST		PT	--	6.0		116

DOOR AND FRAME SCHEDULE GENERAL NOTES

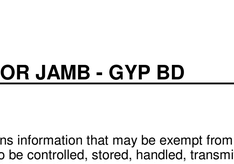
1. EXISTING DOOR AND FRAME TO RECEIVE NEW HARDWARE
2. FRAMES TO BE 12 GA.

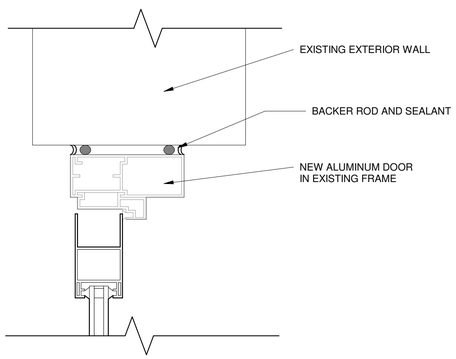
DOOR AND HARDWARE SCHEDULE ABBREVIATIONS

DOOR/FRAME MATERIALS
AL = ALUMINUM
HM = HOLLOW METAL
WD = WOOD

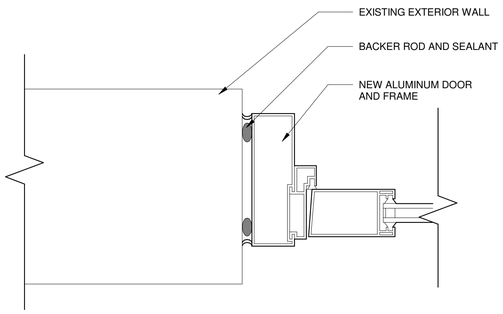
WINDOW SCHEDULE

Type Mark	Width	Height
01	3'-0"	3'-0"

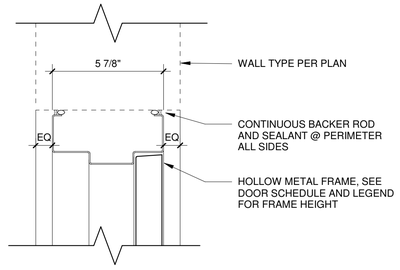




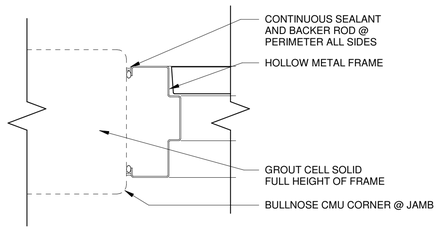
8 ALUM DOOR HEAD AT EXTERIOR WALL
3" = 1'-0"



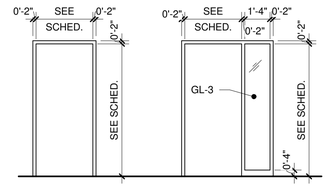
9 ALUM DOOR JAMB AT EXTERIOR WALL
3" = 1'-0"



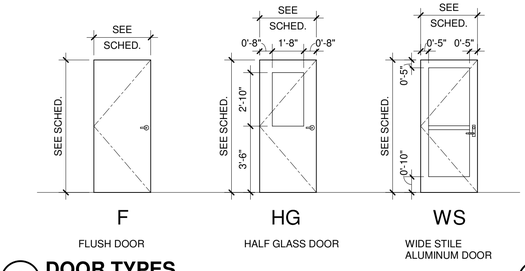
6 HM DOOR HEAD - CMU
3" = 1'-0"



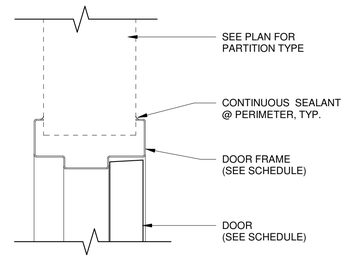
7 HM DOOR JAMB - CMU
3" = 1'-0"



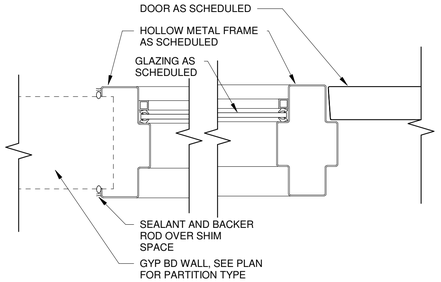
1 FRAME TYPES
1/4" = 1'-0"



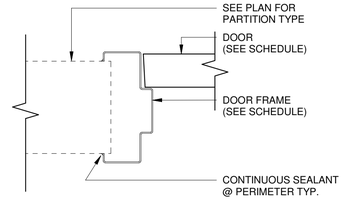
2 DOOR TYPES
1/4" = 1'-0"



3 HM DOOR HEAD - GYP BD
3" = 1'-0"



5 HM DOOR JAMB WITH SIDELITE - GYP BD
3" = 1'-0"



4 HM DOOR JAMB - GYP BD
3" = 1'-0"

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ERIE, PENNSYLVANIA 16505

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SHEET CONTENTS
DOOR AND FRAME SCHEDULES, LEGENDS & DETAILS

SHEET NO.:
A-601

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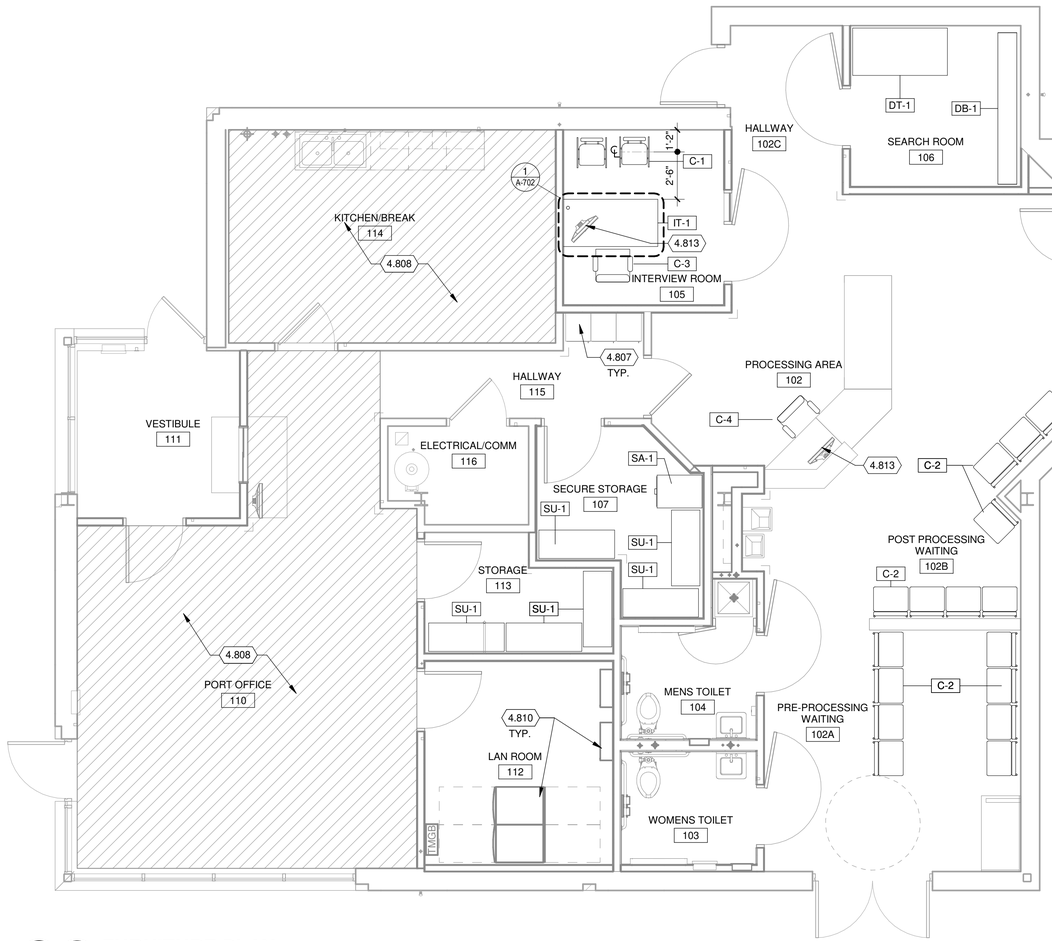

1 FURNITURE PLAN

1/4" = 1'-0"

KEYED NOTES PER SHEET

4.807 RELOCATED LOCKER

4.808 FURNITURE NOT IN SCOPE.

4.810 COMMUNICATIONS FURNISHINGS, SEE TECHNOLOGY PLANS.

4.813 MONITOR, OWNER PROVIDED

FURNITURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	COUNT	COMMENTS
C-1	SLED-BASE CHAIR, BOLTED DOWN, DETENTION GRADE.	KRYPTOMAX	STAINLESS STEEL INTERVIEW CHAIR	2	FLOOR MOUNTED THROUGH 3/8" MOUNTING HOLES IN LEGS.
C-2	WAITING ROOM CHAIR, UPHOLSTERED, WOOD ARMS.	NORIX	TERRA LOUNGE OPEN ARM, TA1	16	WALNUT WOOD ARM CAPS, METALLIC SILVER FRAME FINISH, MOMENTUM TEXTILES UPHOLSTERY IN CYCLE DENIM
C-3	TASK CHAIR, ADJUSTABLE HEIGHT AND ARMS	GLOBAL FURNITURE GROUP	FACTOR WORK CHAIR, 5541	1	U2 ARMS, TILTER MECHANISM, BLACK ARMCAP, BLACK PLASTIC FRAME AND BASE, SILVER GRAY (P-4) MESH, GLOBAL UPHOLSTERY IN IMPRINT NAVY MARINE
C-4	MEDIUM BACK TASK STOOL, ADJUSTABLE HEIGHT AND ARMS	GLOBAL FURNITURE GROUP	FACTOR MEDIUM BACK STOOL, 5546	1	U2 ARMS, TILTER MECHANISM, BLACK ARMCAP, BLACK PLASTIC FRAME AND BASE, SILVER GRAY (P-4) MESH, GLOBAL UPHOLSTERY IN IMPRINT NAVY MARINE
DB-1	FLOOR MOUNTED CUFF BENCH, 96"L x 16"D x 18"H	KRYPTOMAX	HEAVY DUTY FLOOR MOUNTED BENCH, KM-FPB-96in	1	HANDCUFF RINGS WELDED TO FRONT OF BENCH
DT-1	DETENTION TABLE, 60"W x 30"W x 42"H	KRYPTOMAX	STAINLESS STEEL BOLT TO FLOOR INTAKE TABLE	1	FLOOR MOUNTED THROUGH LEVELING FEET
IT-1	INTERVIEW TABLE, MAR-RESISTANT, 60"L x 30"W x 30"H	-	-	1	SEE A-702 FOR DETAILS
SA-1	GSA CLASS V SAFE		7110-01-614-5423	1	(4) DRAWER SAFE, FF-L-2740B LOCK ON EACH DRAWER
SU-1	SHELVING UNIT, 48"W x 18"D x 72"H	ULINE	SOLID STEEL SHELVING, H-7477	6	4-SHELF UNIT

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ERIE INTERNATIONAL AIRPORT GENERAL AVIATION REMODEL

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SHEET CONTENTS
FURNITURE PLAN & SCHEDULE

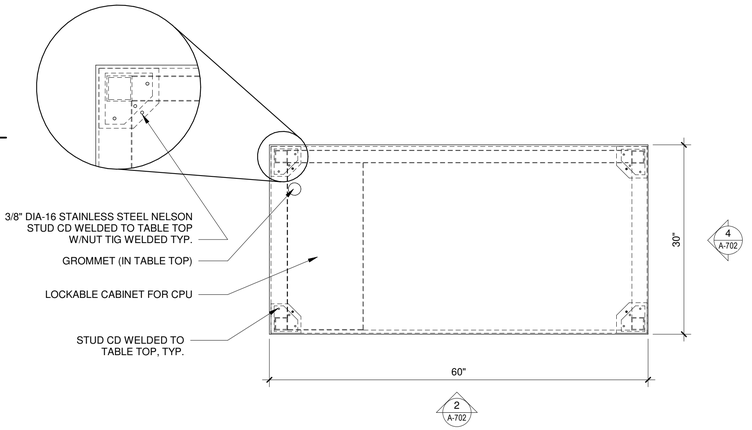
SHEET NO.:
A-701

REGISTERED ARCHITECT PENNSYLVANIA MATTHEW T. SHAFFER RA-018770

1/12/2021 1:25:41 PM C:\Revit Local\3225600-192560.02-A-R20_andy.malanowski.rvt

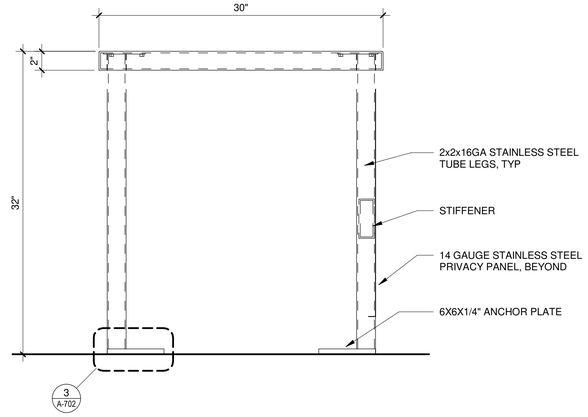
INTERVIEW TABLE GENERAL NOTES & SPECIFICATIONS

- TABLE TOP : 30" X 60" X 2" - FORMED FROM 10 GAUGE T304-#3 STAINLESS STEEL.
- SKIRT: FORMED FROM 14 GAUGE T304-#3 STAINLESS STEEL
- SUPPORTING LEGS: 2X2X16 GAUGE STAINLESS STEEL TUBING
- REINFORCEMENT PLATES: 7 GAUGE STAINLESS STEEL PLATE
- BASE PLATES: 6X6X1/4" STAINLESS STEEL
- CABINET: MADE FROM 10G AUGE STAINLESS STEEL
- CONSTRUCTION: FULL WELDED ASSEMBLY
- FINISH: BRUSHED STAINLESS
- SIZE: 60"W X 30"D X 32"H



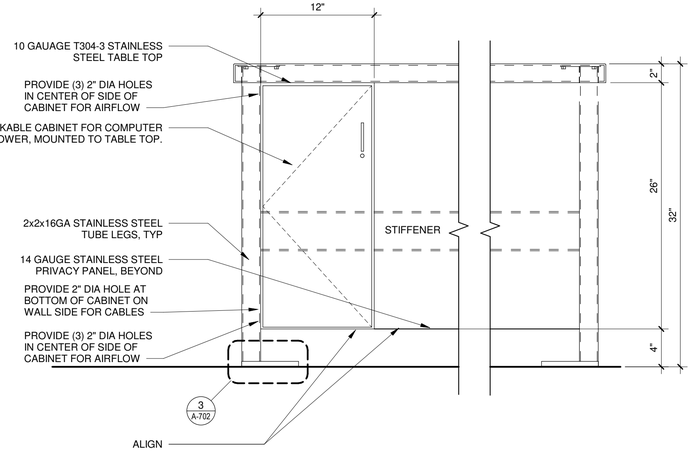
1 INTERVIEW TABLE DETAIL PLAN

1" = 1'-0"



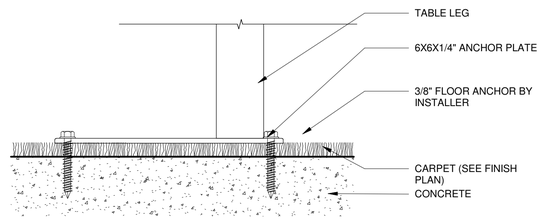
4 INTERVIEW TABLE SIDE ELEVATION

1 1/2" = 1'-0"



2 INTERVIEW TABLE FRONT ELEVATION

1 1/2" = 1'-0"



3 INTERVIEW TABLE FLOOR MOUNT DETAIL

6" = 1'-0"

REGISTERED ARCHITECT PENNSYLVANIA MARY T. SHAFFER RA405970

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SHEET CONTENTS
FURNITURE DETAILS

SHEET NO.:
A-702

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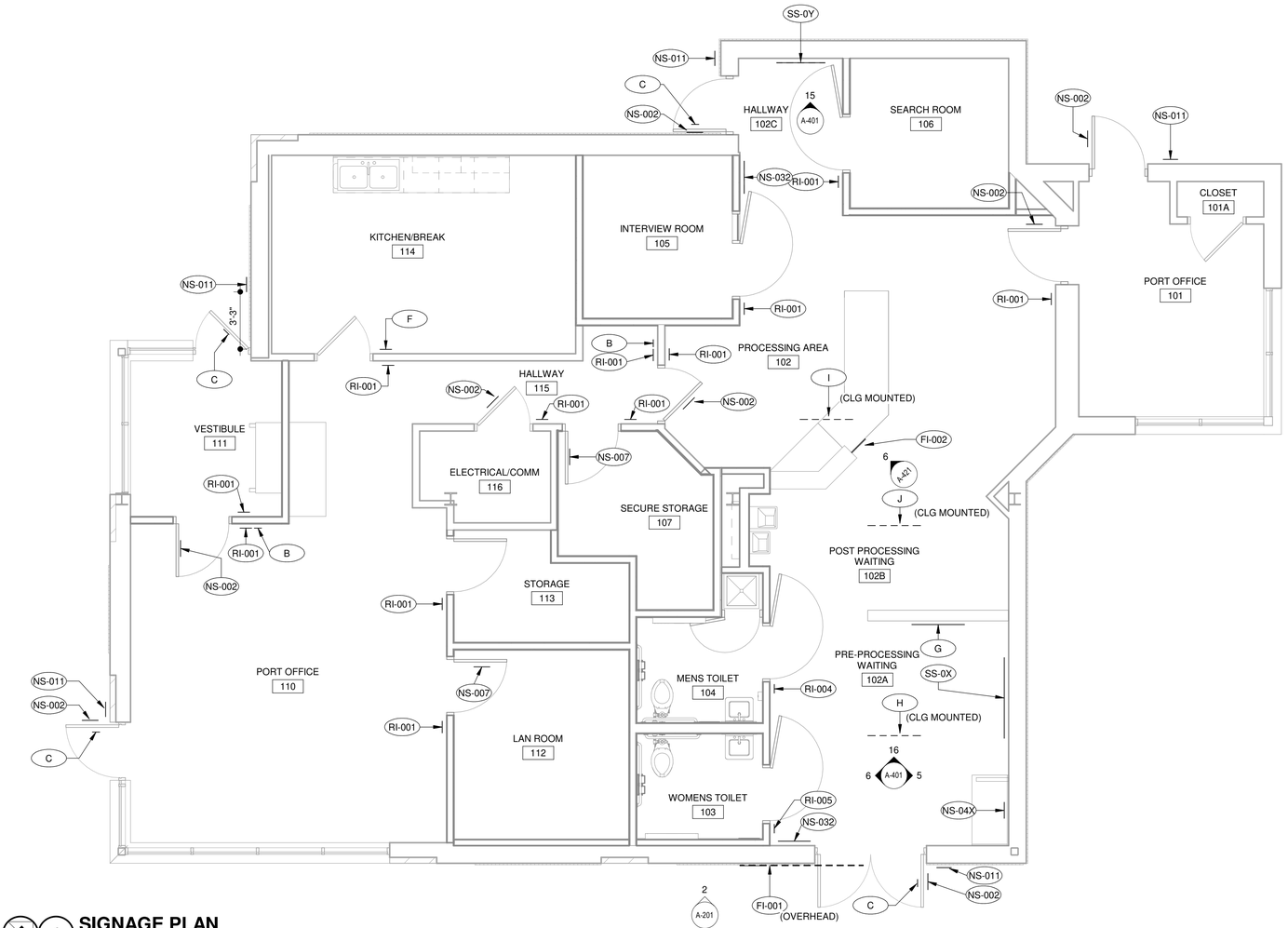

SIGNAGE PLAN

1/4" = 1'-0"

SIGNAGE PLAN GENERAL NOTES:

1. SEE SIGNAGE DETAILS ON SHEET A-802 AND MOUNTING HEIGHTS ON SHEET A-803.
2. SIGNAGE TO COMPLY WITH REQUIREMENTS OF ADAAG.
3. USE PRESSURE SENSITIVE ADHESIVE MOUNTING ON SMOOTH, HARD SURFACES.
4. USE SCREW-ON MOUNTING PER SIGN SYSTEM MANUFACTURER'S DIRECTION ON TEXTURED SURFACES
5. BRAILLE SHOWN FOR REPRESENTATIONAL PURPOSES ONLY. VERIFY APPROPRIATE CHARACTERS AND LOCATIONS PRIOR TO FABRICATION.
6. SEE REFLECTED CEILING PLAN FOR ADDITIONAL SIGNAGE LOCATIONS.

SIGN PLAN LEGEND:

XX — SIGN TYPE

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REMODEL

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SHEET CONTENTS
SIGNAGE PLAN

SHEET NO.:

A-801

REGISTERED ARCHITECT PENNSYLVANIA MATTHEW SHAFFER FRANKFORD

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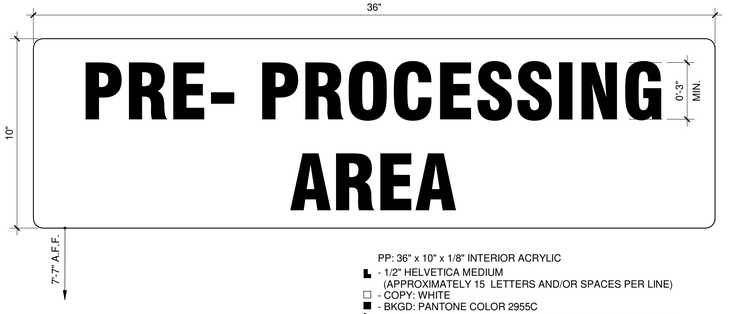
1/12/2021 2:03:09 PM C:\Revit Local\3225600-192560.02-A-R20_andy.malanowski.rvt

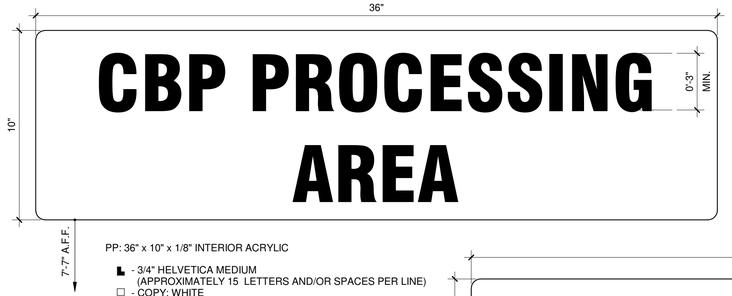
PP: 36" x 18" x 1/8" INTERIOR ACRYLIC
- 3/4" & 1/4" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

G SIGN TYPE "G"
SIGN INSTALLED ON VISBILE WALL NEAR ENTRANCE



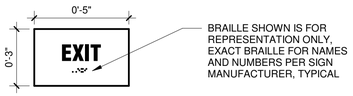
PP: 36" x 10" x 1/8" INTERIOR ACRYLIC
- 1/2" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- EXTRUDED ALUMINUM BRACKETS, T-BAR CEILING HANGER, STEEL CABLE.

H SIGN TYPE "H"
ROOM IDENTIFICATION HUNG FROM SUSPENDED CEILING



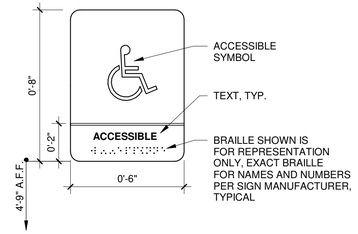
PP: 36" x 10" x 1/8" INTERIOR ACRYLIC
- 3/4" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- EXTRUDED ALUMINUM BRACKETS, T-BAR CEILING HANGER, STEEL CABLE.

I SIGN TYPE "I"
ROOM IDENTIFICATION HUNG FROM SUSPENDED CEILING

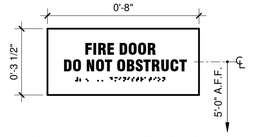


PP: 5" x 3" x 1/8" ACRYLIC
- 3/4" HELVETICA MEDIUM
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

C SIGN TYPE "C"
EXIT IDENTIFICATION @ ALL EXITS FROM BUILDING PER CBC of 3.11.04

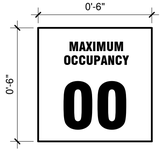


D SIGN TYPE "L"
SIGN LOCATED ON GLASS SIDELITE, RIGHT HAND SIDE OF DOOR



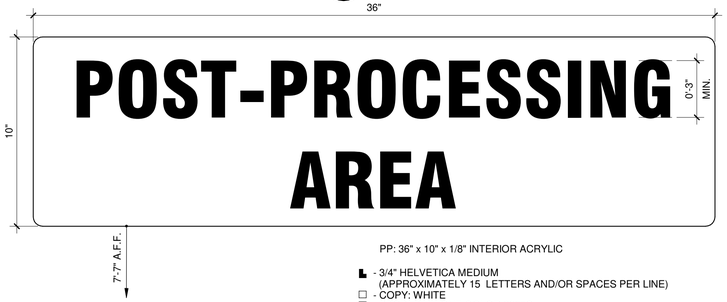
PP: 8" x 3 -1/2" x 1/8" INTERIOR ACRYLIC
- 5/8" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

E SIGN TYPE "E"
DOOR IDENTIFICATION PER ADA, CENTERED ON DOOR, 2-LINES OF COPY



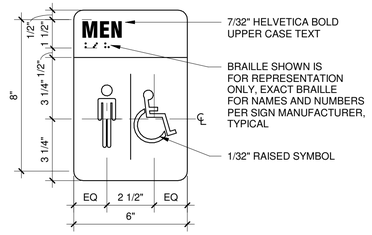
PP: 6" x 6" x 1/8" MATTE ACRYLIC
- 1/2" & 2-1/2" HELVETICA MEDIUM
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

F SIGN TYPE "F"
MAXIMUM OCCUPANCY INFORMATION



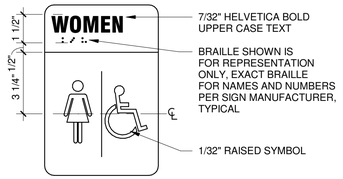
PP: 36" x 10" x 1/8" INTERIOR ACRYLIC
- 3/4" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- EXTRUDED ALUMINUM BRACKETS, T-BAR CEILING HANGER, STEEL CABLE.

J SIGN TYPE "J"
ROOM IDENTIFICATION HUNG FROM SUSPENDED CEILING



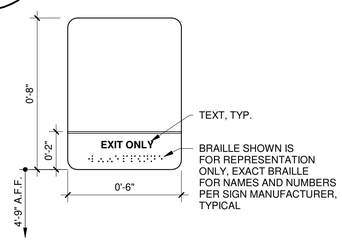
PP: 6" x 9" x 1/8" INTERIOR ACRYLIC
- 7/32" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

RI-004 SIGN TYPE "RI-004"
SIGN LOCATED ON WALL NEXT TO DOOR

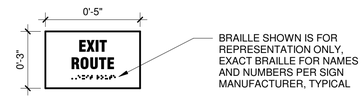


PP: 6" x 9" x 1/8" INTERIOR ACRYLIC
- 7/32" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

RI-005 SIGN TYPE "RI-005"
SIGN LOCATED ON WALL NEXT TO DOOR



A SIGN TYPE "A"
SIGN LOCATED ON GLASS SIDELITE, BACKSIDE OF SIGNAGE "D"



PP: 5" x 3" x 1/8" ACRYLIC
- 5/8" HELVETICA MEDIUM
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

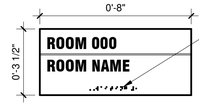
B SIGN TYPE "B"
EXIT ROUTE IDENTIFICATION @ DOORS LEADING TO EXIT PER CBC of 3.11.04

PP: 12" x 10" x 1/8" EXTERIOR PLASTIC
- AS NOTED (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: BLACK EXCEPT WHERE NOTED
- BKGD: AS NOTED
- METAL FASTENERS

NS-011 SIGN TYPE "NS-011"
SIGN LOCATED ON EXTERIOR WALL NEXT TO DOOR

PP: 22" x 28" x 1/8" INTERIOR ACRYLIC
- 1 1/4" & 1/4" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

NS-032 SIGN TYPE "NS-032"
SIGN LOCATED ON WALL BY DOOR



PP: 8" x 3 -1/2" x 1/8" INTERIOR ACRYLIC
- 5/32" HELVETICA MEDIUM (APPROXIMATELY 15 LETTERS AND/OR SPACES PER LINE)
- COPY: WHITE
- BKGD: PANTONE COLOR 2955C
- DOUBLE FACED TAPE & SILICONE

RI-001 SIGN TYPE "RI-001"
ROOM IDENTIFICATION PER ADA NEXT TO DOOR, 1-LINE OF COPY

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Wauwatosa, WI 53226
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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY REMODEL
4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

ISSUED

ISSUED FOR CONSTRUCTION

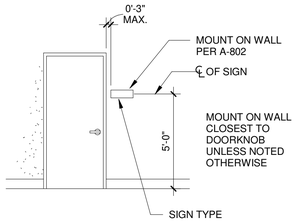
M&H NO.:	R3225600-192560
DATE:	01/13/2021
DESIGNED BY:	CJC
DRAWN BY:	CJC
CHECKED BY:	MH, PC

DO NOT SCALE DRAWINGS

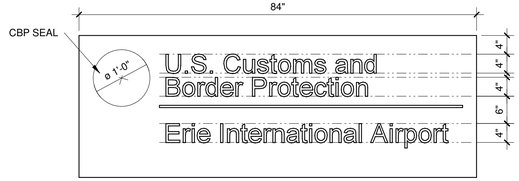
SHEET CONTENTS
SIGNAGE DETAILS

SHEET NO.:
A-802

1/12/2021 1:25:43 PM C:\Revit Local\3225600-192560.02-A-R20_andy.malanowski.rvt



1 SIGN MOUNTING
1/4" = 1'-0"



TEXT COLOR: CBP BLUE
BACKGROUND: WHITE
MATERIAL: ALUMINUM

2 SIGN TYPE 'F-001'
3/4" = 1'-0"

SIGNAGE SCHEDULE

SIGN TYPE	SIGNAGE DESCRIPTION	SIGN TEXT		SIGN LOCATION		PROVIDED	INSTALLED	COMMENTS
		ROOM NAME	ROOM NUMBER	ROOM NAME	ROOM NUMBER			
B	WALL-MOUNTED EXIT ROUTE SIGN	-	-	PORT OFFICE	110	CONTRACTOR	CONTRACTOR	
B	WALL-MOUNTED EXIT ROUTE SIGN	-	-	HALLWAY	115	CONTRACTOR	CONTRACTOR	
C	WALL-MOUNTED EXIT SIGN	-	-	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	
C	WALL-MOUNTED EXIT SIGN	-	-	HALLWAY	102C	CONTRACTOR	CONTRACTOR	
C	WALL-MOUNTED EXIT SIGN	-	-	PORT OFFICE	110	CONTRACTOR	CONTRACTOR	
C	WALL-MOUNTED EXIT SIGN	-	-	VESTIBULE	111	CONTRACTOR	CONTRACTOR	
F	BUILDING OCCUPANCY	-	-	KITCHEN/BREAK	114	CONTRACTOR	CONTRACTOR	
FI-001	FACILITY IDENTIFICATION - SITE SIGNAGE	-	-	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	1,2
FI-002	CBP SEAL	-	-	PROCESSING AREA	102	CBP	CONTRACTOR	7
G	WELCOME TO THE U.S.	-	-	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	
H	PRE-PROCESSING WAITING	PRE-PROCESSING WAITING	102A	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	3
I	PROCESSING AREA	PROCESSING AREA	102	PROCESSING AREA	102	CONTRACTOR	CONTRACTOR	3
J	POST-PROCESSING WAITING	POST PROCESSING WAITING	102B	POST PROCESSING WAITING	102B	CONTRACTOR	CONTRACTOR	3
NS-002	AUTHORIZED ONLY SIGN	-	-	PORT OFFICE	101	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	PORT OFFICE	101	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	PRE-PROCESSING WAITING	102A	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	HALLWAY	102C	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	PORT OFFICE	110	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	PORT OFFICE	110	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	HALLWAY	115	CBP	CONTRACTOR	4,7
NS-002	AUTHORIZED ONLY SIGN	-	-	ELECTRICAL/COMM	116	CBP	CONTRACTOR	4,7
NS-04X	ENTRY FORMS	-	-	PRE-PROCESSING WAITING	102A	CBP	CONTRACTOR	7
NS-007	RESTRICTED AREA, AUTHORIZED ONLY	-	-	SECURE STORAGE	107	CBP	CONTRACTOR	4,7
NS-007	RESTRICTED AREA, AUTHORIZED ONLY	-	-	LAN ROOM	112	CBP	CONTRACTOR	4,7
NS-011	NO SMOKING	-	-	PORT OFFICE	101	CONTRACTOR	CONTRACTOR	
NS-011	NO SMOKING	-	-	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	
NS-011	NO SMOKING	-	-	HALLWAY	102C	CONTRACTOR	CONTRACTOR	
NS-011	NO SMOKING	-	-	PORT OFFICE	110	CONTRACTOR	CONTRACTOR	
NS-011	NO SMOKING	-	-	VESTIBULE	111	CONTRACTOR	CONTRACTOR	
NS-032	THANK YOU FOR YOUR COOPERATION	-	-	PRE-PROCESSING WAITING	102A	CONTRACTOR	CONTRACTOR	
NS-032	THANK YOU FOR YOUR COOPERATION	-	-	HALLWAY	102C	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	PORT DIRECTOR	101	PORT OFFICE	101	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	PROCESSING AREA	102	PROCESSING AREA	102	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	INTERVIEW ROOM	105	INTERVIEW ROOM	105	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	SEARCH ROOM	106	SEARCH ROOM	106	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	SECURE STORAGE	107	SECURE STORAGE	107	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	PORT OFFICE	110	PORT OFFICE	110	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	VESTIBULE	111	VESTIBULE	111	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	LAN ROOM	112	LAN ROOM	112	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	STORAGE	113	STORAGE	113	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	BREAK ROOM	114	KITCHEN/BREAK	114	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	PORT OFFICE	115	HALLWAY	115	CONTRACTOR	CONTRACTOR	
RI-001	ROOM IDENTIFICATION	ELECTRICAL/COMM	116	ELECTRICAL/COMM	116	CONTRACTOR	CONTRACTOR	
RI-004	MEN'S RESTROOM	MEN	104	MENS TOILET	104	CONTRACTOR	CONTRACTOR	
RI-005	WOMEN'S RESTROOM	WOMEN	103	WOMENS TOILET	103	CONTRACTOR	CONTRACTOR	
SS-0X	LPOE STATUTORY SIGNAGE #01- #10	-	-	PRE-PROCESSING WAITING	102A	CBP	CONTRACTOR	5,7
SS-0Y	LPOE STATUTORY SIGNAGE #01- #5	-	-	HALLWAY	102C	CBP	CONTRACTOR	5,7

SIGN SCHEDULE GENERAL NOTES

GENERAL NOTES:
1. REFER TO DETAILS OF EACH CONTRACTOR PROVIDED SIGN TYPE ON SHEET A-802.
2. EXTERIOR WALL MOUNTED SIGNAGE TO BE MOUNTED SO AS TO NOT BE OBSTRUCTED BY ANY DOOR IN THE OPEN POSITION.

REMARKS:
1. SIGN KIT TO BE PROVIDED BY CBP. SIGN KIT INCLUDES TEMPLATE, INSTRUCTIONS AND SPECIFICATIONS FOR PRODUCTION AND INSTALLATION. CONTRACTOR RESPONSIBLE FOR SIGN FABRICATION.
2. MOUNTED ON EXTERIOR OF BUILDING. SEE 3/A-201.
3. CEILING MOUNTED
4. MOUNTED ON EXTERIOR OF DOOR
5. SEE 5/A-401 FOR MOUNTING DETAIL
6. SEE 15/A-401 FOR MOUNTING DETAIL
7. APPROXIMATE SIZE SHOWN ON ELEVATION

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Wauwatosa, WI 53226
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GENERAL AVIATION FACILITY REMODEL
4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

ISSUED

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: CJC
DRAWN BY: CJC
CHECKED BY: MH, PC
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SIGNAGE SCHEDULE AND DETAILS

SHEET NO.:
A-803

11/12/2021 1:25:43 PM C:\Revit Local\3225600-192560_02-A-R20_andy.malanowski.rvt

ARCHITECTURAL FINISHES SCHEDULE

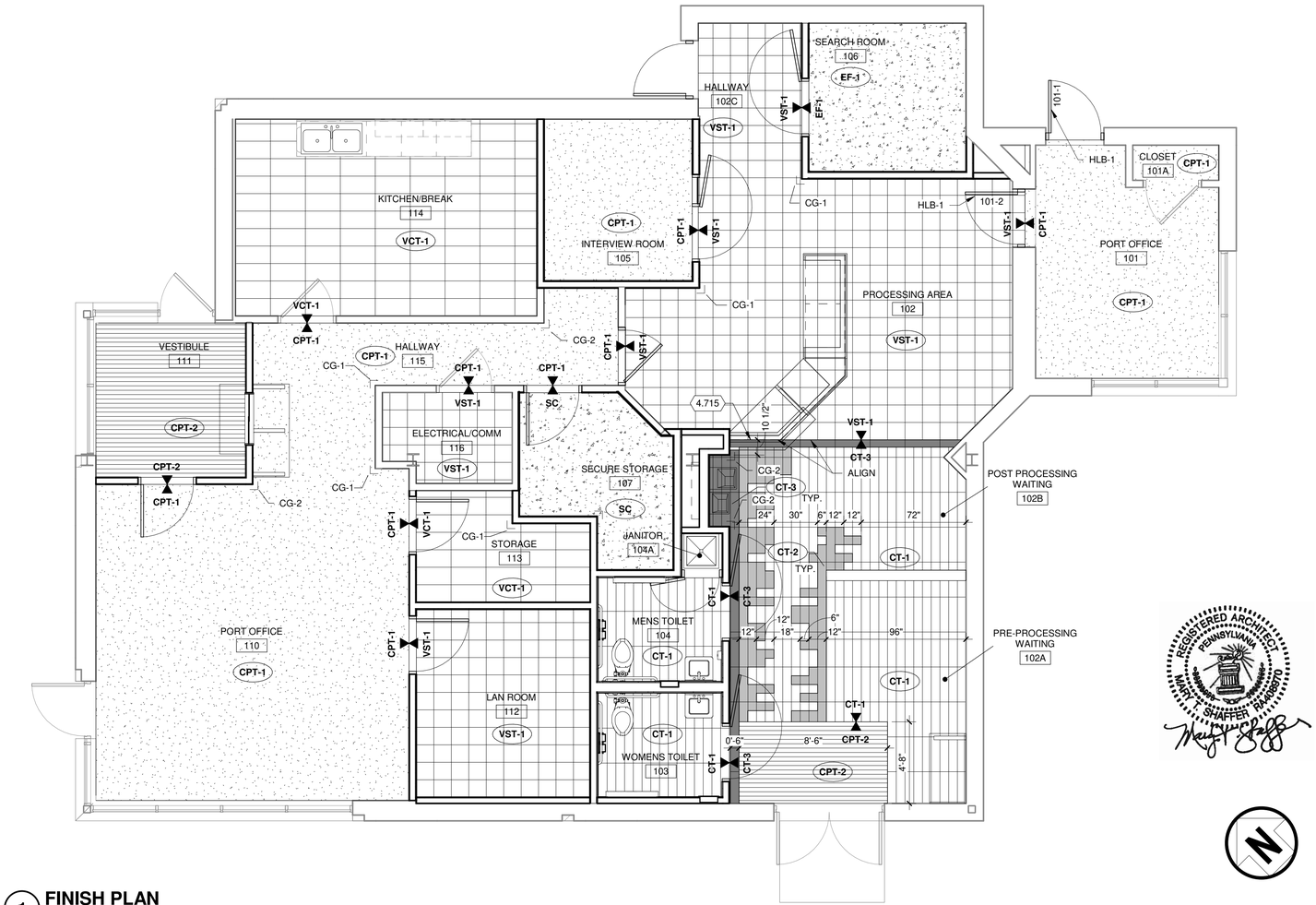
FINISH NUMBER	FINISH DESCRIPTION	PRODUCT DESCRIPTION					REMARKS
		MANUFACTURER	MODEL NUMBER	STYLE	COLOR	SIZE	
ACP-1	ACOUSTIC CEILING PANEL - TYPE 1	ARMSTRONG	2846	CALLA HIGH NRC	WHITE (WH)	24" x 24"	
CG-1	CORNER GUARD	INPRO	160FR-1		0151 - GREYSTONE	8'	
CG-2	CORNER GUARD	INPRO	160		0151 - GREYSTONE	8'	
CPT-1	FIELD CARPET	MILLIKEN	EFF106-107	EFFECT	LAKE	19.7" x 19.7"	BRICK INSTALLATION
CPT-2	WALKOFF CARPET	MILLIKEN	TDC118-119	OBEX TILE CUT / THREAD	DARK GREY	19.7" x 19.7"	
CT-1	CERAMIC TILE - FLOOR	CROSSVILLE	A1401	ARGENT	WINTER GARDEN	6" X 24"	UNPOLISHED
CT-2	CERAMIC TILE - FLOOR	CROSSVILLE	A1414	ARGENT	CARNEGIE COOL	6" X 24"	UNPOLISHED, CERAMIC TILE WAINSCOT IN RESTROOMS, 4'-0" AFF.
CT-3	CERAMIC TILE - FLOOR	CROSSVILLE	A1415	ARGENT	MEMPHIS BLUES	6" X 24"	UNPLOISHED
EF-1	EPOXY FLOOR - TYPE 1	SHERWIN WILLIAMS	-	FLOOR ENAMEL	SW 7657 TINSMITH	-	SATIN SHEEN, EXTRA WHITE BASE
EP-1	EPOXY PAINT - TYPE 1	SHERWIN WILLIAMS	-	PRO INDUSTRIAL HIGH PERFORMANCE EPOXY	SW 7656 RHINESTONE	-	GLOSS SHEEN, DEEP BASE, PART A.
GR-1	GROUT COLOR - TYPE 1	LATICRETE	-	-	78 STERLING SILVER	-	
HLB-1	HORIZONTAL LOUVER BLIND - DOORS	HUNTER DOUGLAS	CX80	CL MODEL	981 PLATINUM GRAY		
PLAM-1	PLASTIC LAMINATE - TYPE 1	FORMICA	9283-NG	NATURAL GRAIN FINISH	WALNUT RIFTWOOD	-	
PLAM-2	PLASTIC LAMINATE - TYPE 2	FORMICA	6698-58	MATTE FINISH	PALOMA POLAR	-	COUNTERTOPS
PT-1	PAINT COLOR - WALLS	SHERWIN WILLIAMS	SW7657		TINSMITH	-	LATEX-BASED, LOW VOC
PT-2	PAINT COLOR - CEILING	SHERWIN WILLIAMS	SW7656		RHINESTONE	-	LATEX-BASED, LOW VOC
PT-3	PAINT COLOR - DOOR & WINDOW FRAMES	SHERWIN WILLIAMS	SW6990		CAVIAR		
RB-1	RUBBER WALL BASE - TYPE 1	ROPPE	-	RUBBER WALL BASE	123 CHARCOAL	6" H	1/8" THICK. STANDARD TOE BASE 5/8"
SC-1	SEALED CONCRETE	-	-	-	-	-	
SS-1	STAINLESS STEEL - COUNTERTOP	-	-	TYPE 316 STAINLESS STEEL	-	-	ROLLED EDGE, 16 GAUGE, ALL JOINTS WELDED.
SSM-1	SOLID SURFACE - TYPE 1	CORIAN QUARTZ	-	-	ASHEN GRAY	-	4" BACKSPLASH UNLESS NOTED OTHERWISE.
VCT-1	VINYL COMPOSITION TILE - TYPE 1	ARMSTRONG	Z5922	RAFFIA STREAM	THUNDERSTORM	12" x 24"	
VST-1	VINYL STATIC DISSIPATIVE TILE	ARMSTRONG	51957	EXCELON SDT	RIDGE	12" x 12"	MEDIUM GLOSS

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MTL	HEIGHT	
101	PORT OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	8'-11"	
101A	CLOSET	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	8'-11"	
102	PROCESSING AREA	VST-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-1"	
102A	PRE-PROCESSING WAITING	CT-1, CT-2, CT-3, CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-1"	
102B	POST PROCESSING WAITING	CT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-1"	
102C	HALLWAY	VST-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-1"	
103	WOMENS TOILET	CT-1	-	CT-3, PT-1	CT-3, PT-1	CT-3, PT-1	CT-3, PT-1	GWB	9'-0"	WALL TILE WAINSCOT TO 4'-0" AFF, PAINT ABOVE
104	MENS TOILET	CT-1	-	CT-3, PT-1	CT-3, PT-1	CT-3, PT-1	CT-3, PT-1	GWB	9'-0"	WALL TILE WAINSCOT TO 4'-0" AFF, PAINT ABOVE
104A	JANITOR	SC	RB-1	EP-1	EP-1	EP-1	EP-1	GWP	7'-2"	
105	INTERVIEW ROOM	CPT-1	CPT-1	EP-1	EP-1	EP-1	EP-1	GWB	9'-0"	INTEGRAL BASE 8"AFF
106	SEARCH ROOM	EF-1	EF-1	EP-1	EP-1	EP-1	EP-1	GWB	9'-0"	INTEGRAL BASE 8"AFF
107	SECURE STORAGE	SC	RB-1	PT-2	PT-2	PT-2	PT-2	GWB	9'-0"	
110	PORT OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-0"	
111	VESTIBULE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-0"	
112	LAN ROOM	VST-1	RB-1	PT-1	PT-1	PT-1	PT-1	GWB	9'-0"	
113	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GWB	9'-0"	
114	KITCHEN/BREAK	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	8'-0"	
115	HALLWAY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	8'-0"	
116	ELECTRICAL/COMM	VST-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	8'-0"	

MATERIAL SCHEDULE GENERAL NOTES

SPECIFICATION	NOTE
06 40 00	ALL WOOD GRAIN PLASTIC LAMINATE ON VERTICAL SURFACES SHALL BE INSTALLED WITH A VERTICAL GRAIN ORIENTATION UNLESS NOTED OTHERWISE.
06 40 00	LAM-2 TO BE USED ON ALL COUNTERTOPS UNLESS OTHER WISE NOTED.
06 40 00	LAM-1 TO BE USED ON VERICAL SURFACES OF ALL MILLWORK UNLESS OTHERWISE NOTED.
09 30 00	WATERPROOF MEMBRANE SHALL BE INSTALLED AT ALL TOILET FLOORS.
09 30 00	PROVIDE CRACK ISOLATION MEMBRANE AT CONTROL JOINTS AT ALL AREAS TO RECEIVE HARD TILE.
09 30 00	ALL FLOOR TILE TO WALL TILE TRANSITIONS USE SCHLUTER DILEX-AHK COVE TRANSITION STRIP. USE SCHLUTER JOLLY FOR FINISHING OUTSIDE CORNERS AND TILE EDGES ON WALLS.
09 30 00	ALL GROUT JOINTS SHALL BE 1/8" WHERE TILE IS NOT MESH MOUNTED UNLESS NOTED OTHERWISE.
09 30 00	ALL TILE SIZES NOTED ARE NOMINAL.
09 30 00	FLOOR TILE INSTALLER SHALL SUBMIT A FLOOR PLAN PROVIDING PROPOSED CONTROL JOINT LOCATIONS FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
09 50 00	REFER TO REFLECTED CEILING PLANS FOR CEILING FINISHES.
09 60 00	EXTEND FLOOR FINISH UNDER ALL CABINETS TO ADJACENT VERTICAL SURFACE UNLESS NOTED OTHERWISE.
09 60 00	WHERE RESILIENT FLASH COVE BASE IS INDICATED, INSTALL WITH STANDARD METAL COVE CAP UNLESS NOTED OTHERWISE.
09 60 00	AT ALL RUBBER BASE LOCATIONS, CONTRACTOR SHALL INSTALL LONGEST LENGTHS AVAILABLE AND PREFORMED CORNERS.
09 60 00	PROVIDE FLOORING TRANSITION STRIPS AT AREAS WHERE DISSIMILAR MATERIALS MEET. REFER TO MATERIAL SCHEDULE FOR SPECIFICATION
09 60 00	PROVIDE SMOOTH, EVEN TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS.
09 60 00	FLOORING TRANSITIONS AT DOOR OPENINGS ARE TO OCCUR AT CENTER OF DOOR WHEN DOOR IS IN THE CLOSED POSITION. WHERE NO DOOR EXISTS, FLOORING TRANSITION SHALL BE AT JAMB CENTER.
09 60 00	CARPET TILE SHALL BE INSTALLED USING A GLUE-FREE INSTALLATION SYSTEM (TACTILES, LOKDOTS OR SIMILAR) UNLESS OTHERWISE NOTED
09 60 00	FLOORING CONTRACTOR SHALL PROVIDE A SEAM DIAGRAM FOR ALL CARPET LOCATIONS WITH SUBMITTAL FOR ARCHITECT'S APPROVAL.
09 90 00	PAINT ALL FIRE EXTINGUISHER CABINETS, ACCESS PANELS, MECHANICAL DIFFUSERS, AND ELECTRICAL PANELS TO MATCH ADJACENT WALL OR CEILING COLOR
09 90 00	SOFFITS SHALL BE PAINTED WITH A SINGLE COLOR ON HORIZONTAL AND VERTICAL SURFACES UNLESS NOTED OTHERWISE.
09 90 00	GYP BD SOFFITS AND BULKHEADS SHALL BE PAINTED PT-2 UNLESS NOTED OTHERWISE.
09 90 00	CLEAN AND REPAINT ALL EXISTING HM FRAME BORROWED LITES, CASED OPENINGS, AND DOORS TO REMAIN WITHIN LIMITS OF CONSTRUCTION AS INDICATED ON DRAWINGS USING PT-3.
09 90 00	INTERIOR PAINT FINISHES (TYPICAL):
	FLAT: GYP BD CEILINGS, SOFFITS AND BULKHEADS
	EGGSHELL: WALL
	SATIN OR SEMI-GLOSS: HM DOORS, HM FRAMES, MDF DOORS, HANDRAILS
	WATER-BASED EPOXY: TOILET ROOM WALLS AND CEILINGS
09 90 00	ALL WOOD CLEATS SUPPORTING COUNTERTOPS TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS OTHERWISE NOTED.
10 20 00	ALL CORNER GUARDS SHALL BE INSTALLED WITH BOTTOM EDGE ALIGNING AT TOP OF WALL BASE.
DIV 08 & 09	REFER TO DOOR SCHEDULE FOR DOOR AND FRAME FINISHES.
DIV 09	CONTRACTOR SHALL PROVIDE ATTIC STOCK OF FINISH MATERIALS SUCH AS FLOORING, PAINT, WALLCOVERING, CEILING TILE AND SIMILAR. VERIFY TYPES AND QUANTITIES WITH OWNER AND TENANT.
DIV 09	REFER TO INTERIOR ELEVATIONS FOR WALL FINISHES WHERE INDICATED ON FINISH PLANS OR FINISH SCHEDULE.



1 **FINISH PLAN**
1/4" = 1'-0"

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DATE:	01/13/2021
DESIGNED BY:	CJC
DRAWN BY:	CJC
CHECKED BY:	MH, PC

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SHEET CONTENTS
FINISH PLAN, SCHEDULES

SHEET NO.:

A-901

REGISTERED ARCHITECT
PENNSYLVANIA
MATTHEW T. SHAFFER

1/12/2021 1:25:44 PM C:\Revit Local\3225600-192560_02-A-R20_andy.malanowski.rvt

GENERAL NOTES

1. PLUMBING DRAWINGS DO NOT INDICATE LOCATION AND SIZES OF STRUCTURAL FOOTINGS. CONTRACTOR SHALL REFER TO STRUCTURAL FOUNDATION PLANS. CONTRACTOR SHALL LOCATE UNDERGROUND PIPING WITHIN THE LIMITS OF THE STRUCTURE IN COORDINATION WITH THE GENERAL CONTRACTOR TO INSURE NO FOOTING WILL BE UNDERMINED BY TRENCHING. SOME DEVIATIONS TO THE PIPING LAYOUT MAY BE REQUIRED TO INSURE NO FOOTING WILL BE UNDERMINED. ALL PIPE TRENCHES SHALL BE LOCATED OUTSIDE THE 45 DEGREE BEARING SPLAY OF FOOTINGS.

2. CONTRACTOR SHALL VERIFY CEILING HEIGHTS AND STRUCTURAL ELEVATIONS PRIOR TO INSTALLATION OF PIPING TO ENSURE ADEQUATE SPACE IS AVAILABLE ABOVE THE CEILING. ALL ABOVE GROUND HORIZONTAL PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS NOTED OTHERWISE OR OBVIOUSLY INDICATED TO BE INSTALLED IN A PIPE CHASE OR BULKEAD. ALL ABOVE GROUND VERTICAL PIPING SHALL BE INSTALLED IN THE WALL OR PIPE CHASE UNLESS NOTED OTHERWISE. PIPING SHALL NOT BE RUN EXPOSED UNLESS NOTED AS SUCH. WHERE PIPING IS INSTALLED IN ARES WITHOUT CEILINGS, PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND RUN BETWEEN JOISTS WHERE POSSIBLE.

3. PLASTIC PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS, AREAS WHERE WASTE WATER COULD EXCEED 180 DEGREES FAHRENHEIT (KITCHENS, MECHANICAL ROOMS) OR AREAS PROHIBITED BY CODE.
4. HORIZONTAL PIPING BETWEEN WATER CLOSET CARRIERS SHALL BE CAST IRON.

5. WHERE PIPING PENETRATES EXTERIOR WALLS THE PENETRATION SHALL BE SLEEVED AND SEALED.

6. GAS LINES SHALL NOT BE INSTALLED IN BLOCK WALL OR BELOW SLAB. WHERE PIPING IS INSTALLED IN A STUD WALL OR ABOVE NON ACCESSIBLE CEILINGS, THE PIPING SHALL BE CONTINUOUS AND JOINTS SHALL BE AVOIDED. WHERE JOINTS ARE ABSOLUTELY NECESSARY, JOINTS SHALL BE WELDED.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLUMBING CONNECTIONS TO ALL ITEMS REQUIRING SUCH CONNECTIONS.
8. CONTRACTOR SHALL VERIFY QUANTITY, LOCATION, AND SIZE OF CONNECTIONS TO FOOD SERVICE EQUIPMENT WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR.
9. CONTRACTOR SHALL VERIFY QUANTITY, LOCATION, AND ROUGH-IN REQUIREMENTS FOR PLUMBING FIXTURES, EQUIPMENT, AND SPECIALTIES FURNISHED UNDER OTHER CONTRACTS AND BE RESPONSIBLE FOR THEIR INSTALLATION. REFER TO CASEWORK DRAWINGS.
10. COORDINATE LOCATION OF FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS AND KITCHEN WITH ACTUAL EQUIPMENT BEING INSTALLED.
11. CONTRACTOR SHALL NOT RUN PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS. COORDINATE WITH ELECTRICAL CONTRACTOR AND COMPLY WITH REQUIREMENTS SET FORTH IN NFPA 70.

12. FLOW SHOWN AT BALANCING VALVES ON DOMESTIC HOT WATER RETURN LINE IS TO BE USED AS A GUIDE ONLY. CONTRACTOR IS RESPONSIBLE FOR BALANCING SYSTEM TO INSURE SUFFICIENT FLOW TO ALL BRANCH LINES.

13. CONTRACTOR SHALL VERIFY QUANTITY AND LOCATION OF FIXTURES TO BE ADA ACCESSIBLE WITH THE ARCHITECTURAL DRAWINGS, AND BE RESPONSIBLE FOR INSTALLING SUCH FIXTURES PER ADA REQUIREMENTS.

14. EXISTING ADA ACCESSIBLE FIXTURES BEING REPLACED SHALL BE REPLACED WITH ADA ACCESSIBLE FIXTURES AND ACCESSORIES, AND BE INSTALLED AT ADA MOUNTING HEIGHTS.

15. WHERE EXISTING FIXTURES ARE BEING REPLACED, THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL MODIFICATIONS TO THE PIPING ARRANGEMENT REQUIRED FOR THE INSTALLATION OF THE NEW FIXTURE.

16. CONTRACTOR SHALL PATCH EXISTING WALLS, FLOORS, AND CEILINGS DAMAGED BECAUSE OF HIS WORK. AREAS SHALL BE FINISHED TO MATCH EXISTING FINISH. WHERE CEILING TILES ARE DAMAGED, DAMAGED TILES SHALL BE REPLACED.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING SERVICES AND PROVIDING TEMPORARY SERVICES TO ALL PLUMBING FIXTURES AND EQUIPMENT REQUIRED TO REMAIN ACTIVE DURING CONSTRUCTION. WHERE WORK CAUSES DAMAGE TO AN EXISTING SYSTEM, THE CONTRACTOR SHALL REPAIR THE SERVICE IMMEDIATELY TO MAINTAIN SERVICE. REFER TO THE PHASING SCHEDULE.
18. WHERE FIXTURES, EQUIPMENT, VALVES, PIPING ETC. ARE BEING REMOVED AND A SPOOL PIECE OF PIPING IS BEING INSTALLED TO CONNECT THE REMAINING PORTIONS OF PIPING, THE SPOOL PIECE SHALL BE OF THE SAME MATERIAL AS THE EXISTING PIPING TO WHICH IT CONNECTS.

19. EXISTING PIPING LOCATIONS, SIZES AND INVERTS WERE TAKEN FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS IN FIELD BEFORE THE START OF ANY WORK.

20. EXISTING FIXTURE AND EQUIPMENT LOCATIONS WERE TAKEN FROM EXISTING PLANS. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS IN FIELD BEFORE THE START OF ANY WORK.
22. WHERE EXISTING PIPING, DUCTWORK, CONDUIT, ETC. IS REQUIRED TO BE RELOCATED OR ADJUSTED FOR THE INSTALLATION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL DO SO AT HIS EXPENSE.

23. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST TO ADJUST LOCATIONS OF CONNECTIONS TO EXISTING PIPING WITHIN 10 FEET OF WHERE SHOWN ON PLANS. COST SHALL INCLUDE ALL NECESSARY CUTTING, PATCHING, TRENCHING, ETC. TO COMPLETE THE WORK.

24. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO VERIFY EXISTING CONDITIONS AS THEY RELATE TO HIS WORK AND BE RESPONSIBLE FOR SUCH CONDITIONS. SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND HAS INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.

DEMOLITION NOTES

1. EXISTING PIPING, FIXTURES AND EQUIPMENT SHOWN ON THE DRAWINGS WERE TAKEN FROM EXISTING PLANS. THEY GENERALLY SHOW THE LOCATION AND SIZES OF SUCH ITEMS AND THOSE ITEMS WHICH ARE TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND BE RESPONSIBLE FOR SUCH CONDITIONS.

2. APPROXIMATE INVERTS OF EXISTING LINES WERE TAKEN FROM EXISTING PLANS. CONTRACTOR SHALL VERIFY CRITICAL INVERTS BEFORE THE START OF ANY WORK.

3. CONTRACTOR SHALL REMOVE ALL EXISTING WATER, GAS, STORM, SANITARY WASTE, AND VENT PIPING NOT BEING UTILIZED BY THE NEW SYSTEMS INCLUDING HANGERS AND ACCESSORIES WHETHER THESE LINES ARE SHOWN OR NOT SHOWN ON THE DRAWINGS.

4. WHERE PIPING INDICATED TO BE REMOVED IS LOCATED IN CONCEALED INACCESSIBLE SPACES, SUCH AS BELOW SLAB ON GRADE FLOORS, ABOVE PLASTER CEILINGS OR BEHIND WALLS, THE CONTRACTOR HAS THE OPTION OF CAPPING THE PIPING AT BOTH ENDS AND RENDERING IT "DEAD" RATHER THAN REMOVING IT. PIPING SPECIFICALLY NOTED TO BE REMOVED SHALL BE REMOVED IN ITS ENTIRETY. PIPING LOCATED ABOVE TILE CEILINGS IS NOT CONSIDERED INACCESSIBLE.

5. PIPING TO BE REMOVED SHALL BE REMOVED BACK TO THE MAIN AND CAPPED AT THERE.

6. CONTRACTOR SHALL PATCH EXISTING WALLS, FLOORS AND CEILINGS WHERE DAMAGED BECAUSE OF HIS WORK. WHERE NEW FINISHES ARE NOT BEING PROVIDED UNDER ANOTHER CONTRACT, THE FINISH SHALL BE PROVIDED UNDER THIS CONTRACT AND SHALL MATCH ADJACENT FINISHES. REFER TO THE ARCHITECTURAL FINISH SCHEDULE.

7. CONTRACTOR SHALL DISCONNECT ALL PLUMBING LINES SERVING FIXTURES AND EQUIPMENT BEING REMOVED OR RELOCATED UNDER THIS CONTRACT OR ANOTHER CONTRACT UNLESS NOTED OTHERWISE.

8. EXISTING VENTS THROUGH THE ROOF NOT UTILIZED BY THE NEW SYSTEMS SHALL BE REMOVED, AND THE HOLE LEFT BY THE VENT PATCHED. ALL WORK PERTAINING TO THE PATCHING OF THE ROOF MEMBRANE SHALL BE DONE UNDER THE ROOFING CONTRACT.

9. WHERE ELECTRIC WATER COOLERS ARE BEING REPLACED, THE CONTRACTOR DISPOSE OF ASSOCIATED REFRIGERANT IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

10. CONTRACTOR SHALL COORDINATE WITH OWNER BEFORE THE START OF DEMOLITION AS TO THE FIXTURES, SPECIALTIES AND EQUIPMENT THAT ARE TO BE TURNED OVER TO THE OWNER AFTER BEING REMOVED. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING THESE ITEMS AS TO NOT DAMAGE THEM.

SYMBOL LEGEND

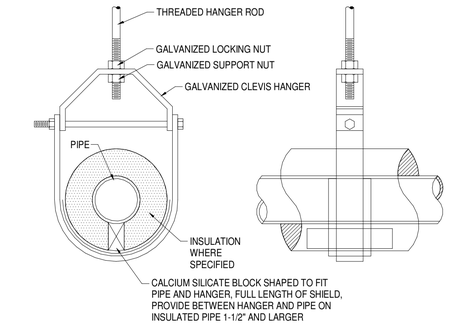
- SANITARY LINE
- VENT LINE
- COLD WATER LINE
- HOT WATER LINE
- G — NATURAL GAS LINE
- EXISTING SANITARY LINE
- EX SD — EXISTING STORM DRAIN LINE
- EXISTING VENT LINE
- EXISTING WATER LINE
- EX G — EXISTING GAS LINE
- EXISTING PIPING TO BE DEMOLISHED
- BALL VALVE
- CHECK VALVE
- STRAINER
- PLUG VALVE OR GAS COCK
- DIRECTION OF FLOW
- UNION
- FCO — FLOOR CLEANOUT
- EXT CO — EXTERIOR CLEANOUT
- WCO — WALL CLEANOUT
- CO — CLEANOUT
- FLOOR DRAIN
- P-TRAP
- HOSE BIBB
- PIPING TURNED UP
- PIPING TURNED DOWN
- PIPE CAP OR PLUG
- PIPING CONTINUED
- CONNECT TO EXISTING
- X — KEYNOTE

ABBREVIATION LEGEND

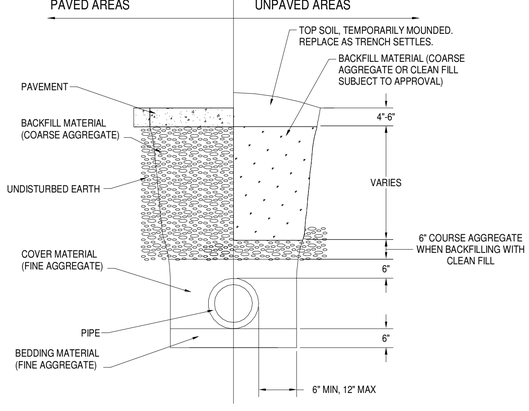
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
BLW	BELOW
BTC	BRANCH TO CONNECTION
CW OR C	COLD WATER
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CO	CLEANOUT
CONT'	CONTINUED / CONTINUATION
CTE	CONNECT TO EXISTING
CTR	COUNTER
DEMO	DEMOLISH
DN	DOWN
DP	DROP
DWH	DOMESTIC WATER HEATER
EC	ELECTRICAL CONTRACTOR
EX	EXISTING
EXT	EXTERIOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
G	GAS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H OR HW	HOT WATER
HB	HOSE BIBB
HC	HANDICAPPED
INV	INVERT
LAV OR L	LAVATORY
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MTD	MOUNTED
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
RS	RISE
S	SOIL
S	SINK
SA	SHOCK / WATER HAMMER ARRESTOR
SAN	SANITARY
SS	SERVICE SINK
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET

FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	WASTE	VENT	CW	HW	NOTES:
WC	WATER CLOSET (FLUSHOMETER)	4"	2"	1"	-	
L	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
S	SINK	1 1/2"	1 1/2"	1/2"	1/2"	
SS	SERVICE SINK	3"	2"	3/4"	3/4"	
EWC	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	



1 PIPE HANGER
1/8" = 1'-0"



NOTES:
1. PROVIDE PLASTIC IDENTIFICATION TAPE 12" BELOW THE SURFACE TO IDENTIFY EXTERIOR PIPING SYSTEMS.
2. PROVIDE AN INSULATED WIRE 4" TO 6" ABOVE EXTERIOR NONMETALLIC PIPE TO FACILITATE ITS LOCATION.
3. COMPACT FILL MATERIAL TO 95% MODIFIED PROCTOR IN 6" LIFTS.
4. PROVIDE A 6" ENVELOPE OF FINE AGGREGATE AROUND ALL PIPING.
5. MAINTAIN A MINIMUM COVER OF 48" OR THE DEPTH OF MAXIMUM FROST PENETRATION PLUS 6", WHICHEVER IS GREATER, OVER EXTERIOR BURIED WATER PIPING.
6. MAINTAIN A COVER OF 36" OVER ALL OTHER BURIED EXTERIOR PIPING.
7. BEDDING, COVER AND BACKFILL MATERIALS ARE SUBJECT TO APPROVAL.
8. CONTACT STATE'S ONE CALL SYSTEM PRIOR TO THE START OF ANY EXCAVATING (DIAL 811).
9. ANY SURFACE RESTORATION REQUIRED DUE TO WORK INSTALLED UNDER THIS CONTRACT SHALL BE PERFORMED UNDER THIS CONTRACT, UNLESS SPECIFICALLY NOTED AS BEING PERFORMED UNDER ANOTHER CONTRACT.

2 METHOD OF TRENCHING AND BACKFILL
1/8" = 1'-0"

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DATE: 01/13/2021
DESIGNED BY: ECH
DRAWN BY: LLH
CHECKED BY: ECH
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SHEET CONTENTS
PLUMBING - LEGEND, NOTES AND DETAILS

SHEET NO.:
P-001

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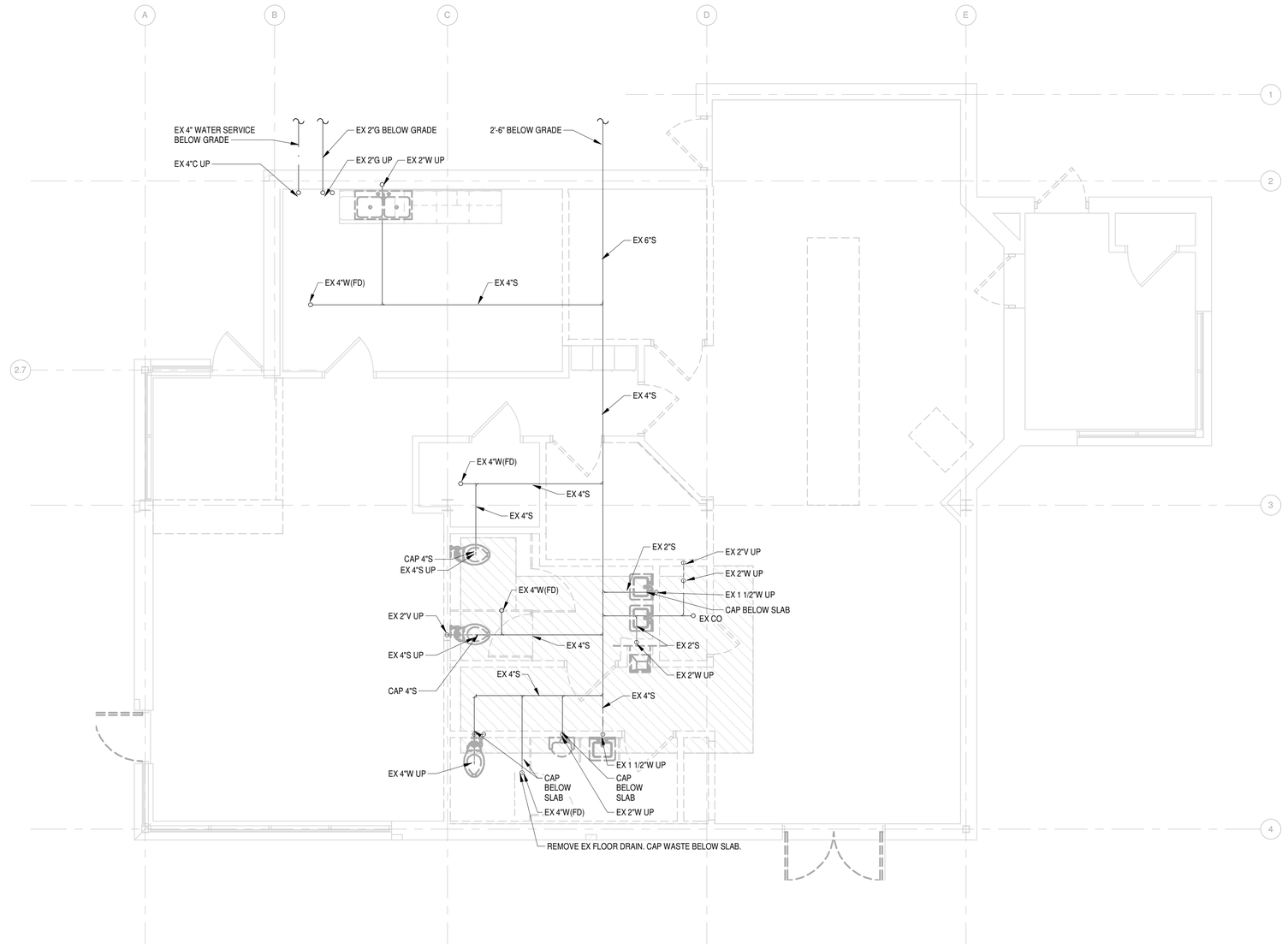
NOTE:

REFER TO G-032 FOR PHASING PLAN



1 PLUMBING - FOUNDATION DEMOLITION PLAN

1/4" = 1'-0"

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DATE:	01/13/2021
DESIGNED BY:	ECH
DRAWN BY:	LLH
CHECKED BY:	ECH

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SHEET CONTENTS
PLUMBING - FOUNDATION DEMOLITION FLOOR PLAN

SHEET NO.:

P-100

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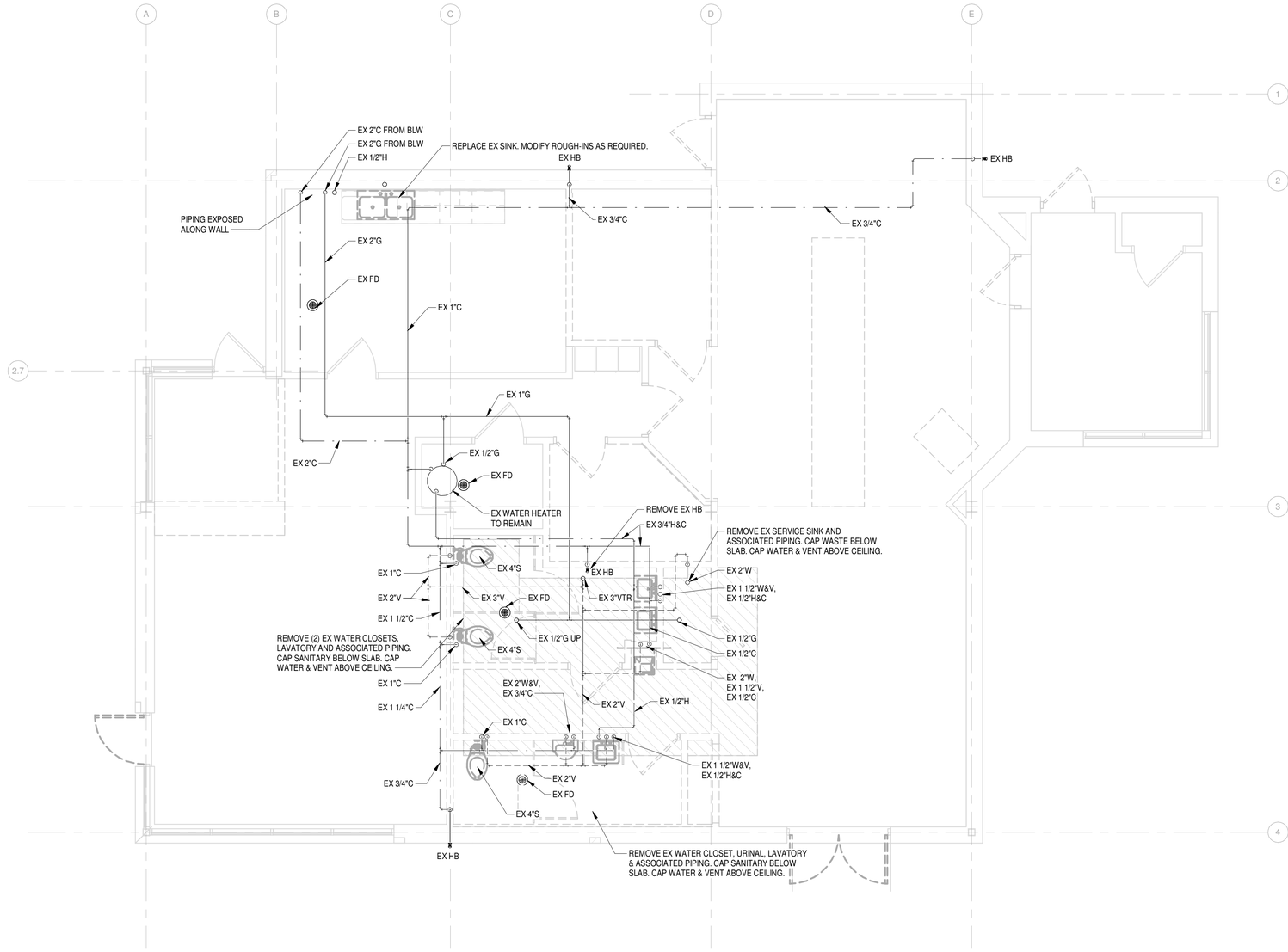
NOTE:

REFER TO G-032 FOR PHASING PLAN



1 PLUMBING - FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"

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REGISTERED PROFESSIONAL
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ENGINEER
NO. PE081472
CERTIFICATE OF AUTHORIZATION

ISSUED FOR CONSTRUCTION

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SHEET CONTENTS
PLUMBING - FIRST FLOOR DEMOLITION PLAN

SHEET NO.:

P-101

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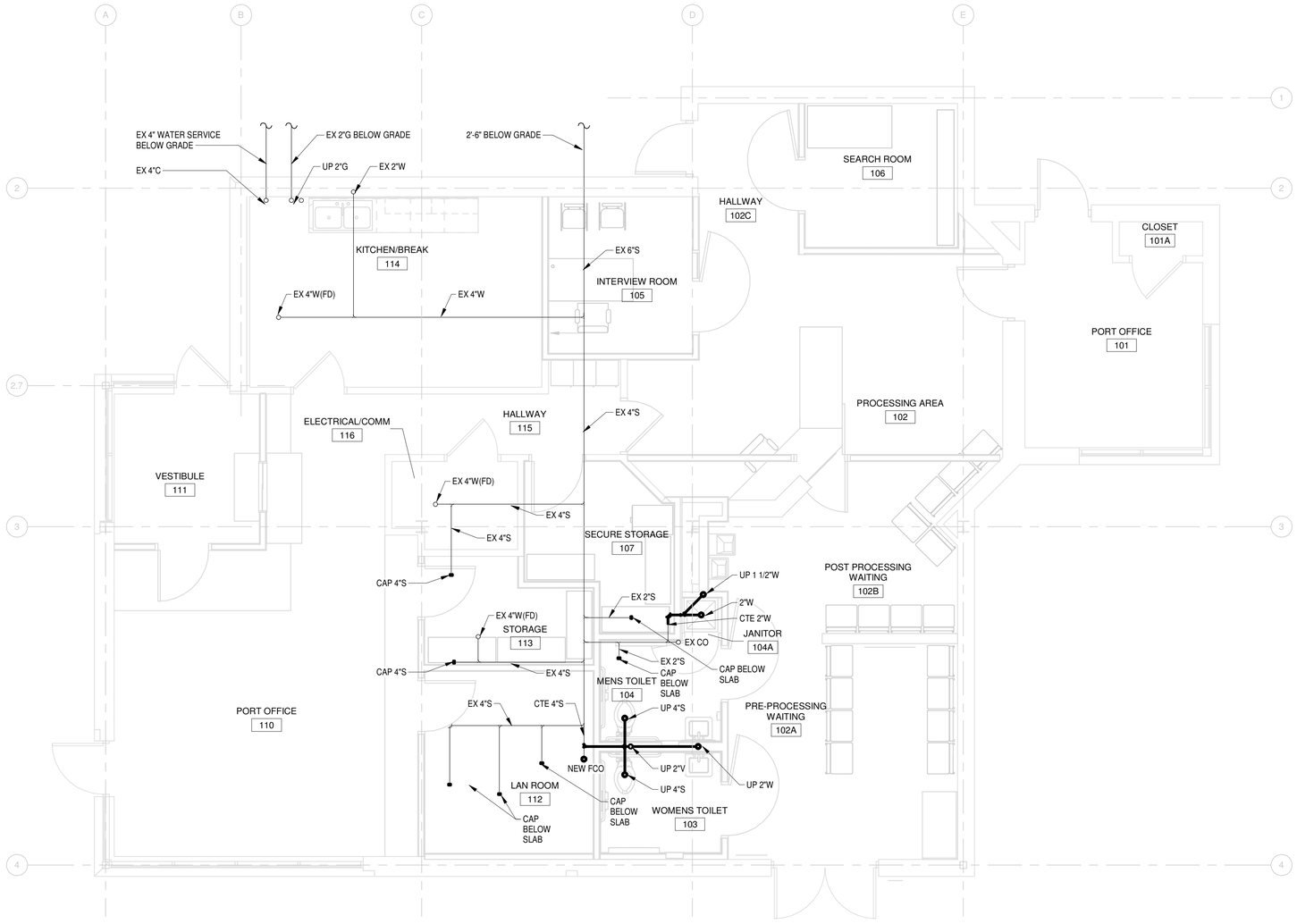
NOTE:

REFER TO G-032 FOR PHASING PLAN



1 PLUMBING - FOUNDATION PLAN

1/4" = 1'-0"

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION
REMODEL

4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

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PLUMBING - FOUNDATION PLAN

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NOTE:

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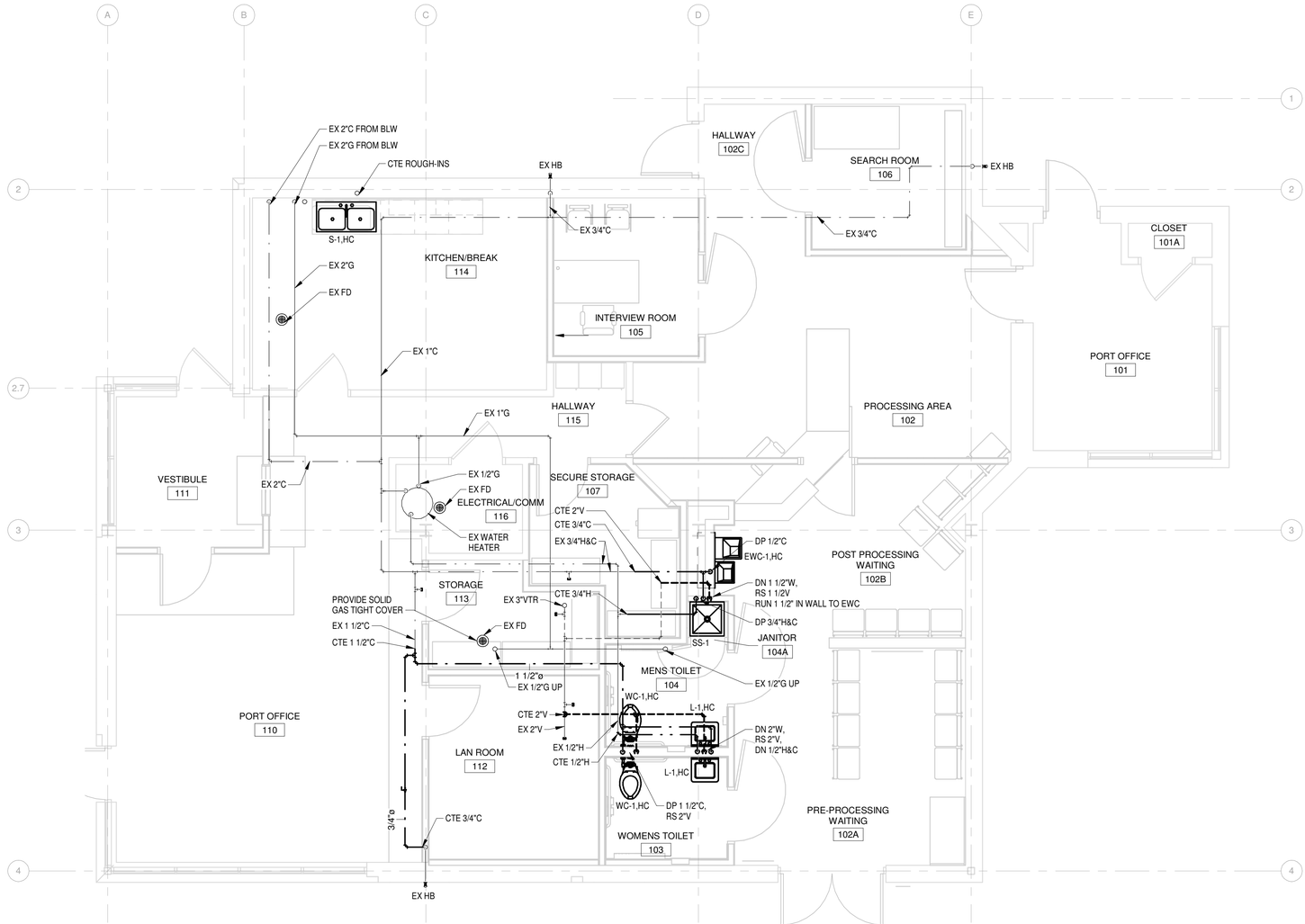

1 PLUMBING - FIRST FLOOR PLAN

1/4" = 1'-0"

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4459 WEST 12TH STREET
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COMMONWEALTH OF PENNSYLVANIA
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SHEET CONTENTS
PLUMBING - FIRST FLOOR PLAN

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P-201

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GENERAL NOTES

1. NOT ALL THE SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THE CONTRACT DRAWINGS.
2. PLANS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT. DRAWINGS ARE NOT TO BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL LOCATIONS, CONDITIONS AND DIMENSIONS.
3. COORDINATE LOCATION OF DUCTWORK, PIPING, AND DIFFUSERS WITH ALL OTHER TRADES.
4. ALL DUCTWORK IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR ABOVE SUSPENDED CEILING.
5. ALL DUCTWORK IN ALL AREAS SHALL BE INSTALLED AS HIGH AS POSSIBLE, RUN THRU OR BETWEEN JOISTS AS REQUIRED.
6. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE IN INCHES EXCEPT AS NOTED OTHERWISE.
7. ACCESS PANELS IN CEILINGS OTHER THAN LAY-IN TILE ARE REQUIRED FOR ALL EQUIPMENT, VALVES, TRAPS, DAMPERS, CLEANOUTS, ETC..
8. CEILING DIFFUSER SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES ALL DIFFUSERS ARE 4 WAY UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RETURN AIR OPENINGS AND RECESSED EQUIPMENT WITH THE GENERAL CONTRACTOR.
10. LOCATE ALL CEILING DIFFUSERS, REGISTERS, GRILLES, ETC. TO CONFORM WITH REFLECTED CEILING PLAN.
11. PROVIDE BALANCING DAMPER AT BRANCH TAKEOFF FOR ALL DIFFUSERS AND REGISTERS.
12. ALL CONTRACTORS ARE RESPONSIBLE FOR THE ENTIRE BIDDING SET. IF THE ARCHITECTURAL DRAWINGS INDICATE WORK TO BE COMPLETED BY THE HVAC CONTRACTOR THEN THE HVAC CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
13. DEMOLITION PLANS ARE SHOWN FOR CLARITY AND COORDINATION. CONTRACTOR SHALL REMOVE ALL HVAC EQUIPMENT AND ASSOCIATED APPURTENANCES COMPLETE WHETHER SHOWN OR NOT. CONTRACTOR SHALL WORK IN PHASES AS DETERMINED BY OWNER. CONTRACTOR SHALL REPORT ANY DISCREPANCIES OR CHANGES IN SCOPE OF WORK PRIOR TO COMMENCING REMOVAL WORK WITH CONSTRUCTION MANAGER.
14. ITEMS SHOWN WITH LINE TYPES WITH A LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. ITEMS SHOWN WITH HEAVY LINE WEIGHT ARE TO BE DEMOLISHED ON DEMOLITION DRAWINGS AND NEW AND OR RELOCATED ITEMS TO BE INSTALLED ON NEW WORK DRAWINGS.
15. MECHANICAL CONTRACTOR SHALL PROVIDE LINTELS FOR ALL DUCTWORK OPENINGS INTO INTERIOR WALL. REFER TO DRAWINGS ARCHITECTURAL DRAWINGS FOR LINTEL SCHEDULE. MECHANICAL CONTRACTOR SHALL PROVIDE OPENINGS AS REQUIRED TO INSTALL DUCTWORK, EQUIPMENT, ETC..
16. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS OF EXISTING BUILDING WALLS AND STRUCTURE CLEARANCES PRIOR TO INSTALLED ANY MATERIALS OR EQUIPMENT.
17. FIRST FIGURE OF DUCT SIZE INDICATED DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCTWORK TO BE GALVANIZED SHEET METAL. ALL DUCTWORK SHALL BE FABRICATED TO SMACNA SHEET METAL STANDARDS. ALL DUCT JOINTS SHALL BE SEALED AIR TIGHT WITH A WATER RESISTANT FIRE RESISTIVE, CHEMICALLY COMPATIBLE WITH SEALANT AND MATING MATERIALS. DO NOT USE OIL BASE CAULKING, MASTICS OR GLAZING COMPOUNDS.
18. CONDENSATE DRAIN LINES TO BE COPPER. INSULATED WITH 1/2 " ARMOFLEX PIPE INSULATION WITH VAPOR BARRIER, PLENUM RATED.
19. CONTRACTOR SHALL PERFORM AIR BALANCE ON EX RTU'S, RETURN AND SUPPLY DIFFUSERS. PERFORM AIR BALANCE ON EXHAUST FANS. AIR BALANCE SHALL BE PERFORMED ACCORDING TO SPECIFICATIONS.

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATELY
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
AWT	AVERAGE WATER TEMPERATURE
BC	BALANCING COCK
BDD	BACKDRAFT DAMPER
BHP	BREAK HORSE POWER
BLDG	BUILDING
BLR	BOILER
BLW	BELOW
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFH	CUBIC FEET/ HOUR
CFM	CUBIC FEET PER MINUTE
CHARA	CHARACTERISTICS
CHK V	CHECK VALVE
CLG	CEILING
CLG MTD	CEILING MOUNTED
COND	CONDENSATE
CO	CLEANOUT
COL	COLUMN
CMPR	COMPRESSOR
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUE
CONTR	CONTRACTOR
CONV	CONVECTOR
CORR	CORRIDOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
CW	COLD WATER
DB	DRY BULB
DIFF	DIFFUSER
DISCH	DISCHARGE
DN	DOWN
DO	DITTO
DPR	DAMPER
DR	DRAIN
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	ELECTRIC COMMUNICATING MOTOR
EDB	ENTERING DRY BULB
EF	EXHAUST FANS
ELECT	ELECTRIC
EMER	EMERGENCY
EQUIP	EQUIPMENT
ERC	EXHAUST REGISTER CEILING
ERW	EXHAUST REGISTER WALL
ESP	EQUIVALENT STATIC PRESSURE
EWB	ENTERING WET BULB
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
,EXIST	EXISTING
F	FAHRENHEIT
FAT	FINAL AIR TEMPERATURE
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLG C	FLANGE CONNECTION
FLR	FLOOR
FLR DR	FLOOR DRAIN
FR	FROM
FRM	FROM
GA	GAUGE
GC	GENERAL CONTRACTOR
GPM	GALLONS/MINUTE
GRAV	GRAVITY
HC	HEATING CONTRACTOR
HP	HORSE POWER
HR	HOUR
HGT	HEIGHT
HTG	HEATING
IN	INCHES
INCL	INCLUDED
INSUL	INSULATION
INTERL	INTERLOCK
INV	INVERT
IVS	ISOLATION VALVE STATION
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LSDC	LINEAR SUPPLY DIFFUSER CEILING
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MANUF	MANUFACTURER
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	ONE THOUSAND BTU/HOUR
MCA	MAXIMUM CIRCUIT AMPERE
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MFGR	MANUFACTURER
MH	MANHOLE
MHC	MANHOLE COVER
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTR	MOTOR
N/A	NOT APPLICABLE
NEBB	NATIONAL ENVIRONMENTAL BALANCE BUREAU
NO	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OPER	OPERATED
OPNG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PEND MTD	PENDANT MOUNTED
PG	PRESSURE GAUGE WITH COCK
PRD	PRESSURE DIFFERENTIAL VALVE
PRV	PRESSURE REDUCING VALVE
PVC	POLY VINYL CHLORIDE
RA	RETURN AIR
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RED	REDUCER
REF	REFRIGERANT OR REFERENCE
REQD	REQUIRED
RET	RETURN
RM	ROOM
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RRW	RETURN REGISTER WALL
RS&L	REFRIGERANT SUCTION AND LIQUID
RV	RELIEF VALVE
SA	SUPPLY AIR
SCH	SCHEDULE
SD	SMOKE DAMPER
SDC	SUPPLY DIFFUSER CEILING
SENS	SENSIBLE
SGC	SUPPLY GRILLE CEILING
SGW	SUPPLY GRILLE WALL
SHT	SHEET
SHT MTL	SHEET METAL
SLSD	SUPPLY LINEAR SLOT DIFFUSER
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
STL	STEEL
STR	STRAINER
TA	THROWAWAY
TEMP	TEMPERATURE
TH	THERMOMETER
TR	TEMPERATURE RISE
TRANS	TRANSITION
T STAT	THERMOSTAT
TV	TURNING VANES
TYP	TYPICAL
UC	UNDERCUT
VCD	VOLUME CONTROL DAMPER
V-PH-Hz	VOLTS-PHASE-HERTZ
W	WATTS OR WIDTH
WB	WET BULB
WG	WATER GAUGE
W/	WITH

NOTE:
NOT ALL THE SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THE CONTRACT DRAWINGS.

DRAWINGS SYMBOLS

- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT OF DISCONNECTION BETWEEN ITEMS TO BE DEMOLISHED AND ITEMS TO REMAIN
- T — THERMOSTAT
- HEATING/COOLING (UNLESS JUST USED FOR HEATING) PROVIDE PLASTIC COVERS.
- S — SLAB SENSOR FOR RADIANT FLOOR
- 12x12 — DIFFUSER FACE SIZE
- SDC-4 — DIFFUSER TYPE-WAY
- 6Ø — NECK SIZE
- 200 CFM — CAPACITY

DUCTWORK

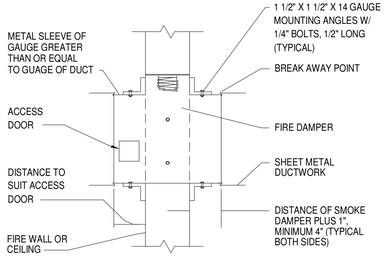
DOUBLE LINE SYMBOLS	DESCRIPTION
12x12	RECTANGULAR SUPPLY, RETURN, EXHAUST OR RELIEF DUCT WIDTH (SHOWN)x DEPTH
12Ø	ROUND SUPPLY, RETURN OR RELIEF DUCT- Ø (DIAMETER)
	DUCT W/TURNING VANES (DUCT WIDTH OVER 18")
	DUCT W/O TURNING VANES
	RADIUS ELBOW (DUCT WIDTH 17" AND LOWER)
	BOOT CONNECTION WITH MANUAL VCD (ARROW INDICATES AIR FLOW DIRECTION)
	EQUIPMENT FLEX CONNECTION
	FLEXIBLE DUCT TAKE OFF
12x12 8Ø	TRANSITION FROM RECTANGULAR TO ROUND DUCT
XX XX	EQUIPMENT SYMBOL
12x12	VOLUME CONTROL DAMPER (VCD)
24x24 R 24x24	RISE/DROP IN DUCTWORK (ARROW SHOWS DIRECTION OF DROP)
	RETURN AIR DUCT UP
	SUPPLY DUCT UP
	EXHAUST AIR DUCT UP
	RETURN AIR DUCT DN
	SUPPLY DUCT DN
	EHAUST AIR DUCT DN
M	MOTORIZED DAMPER
AD	ACCESS DOOR ON BOTTOM OF DUCT
	ACCESS DOOR ON SIDE OF DUCT
AD	
	SUPPLY AIR DIFFUSER CEILING
	RETURN AIR DIFFUSER CEILING
	EXHAUST REGISTER CEILING
	RETURN AIR REGISTER (DUCT OR WALL)
	SUPPLY AIR REGISTER (DUCT OR WALL)
M	MOTORIZED DAMPER
FD	FIRE DAMPER AT FIRE WALL (PROVIDE ACCESS PANEL IN DUCT AND CEILING) AS MANUF. BY RUSKIN

DOUBLE LINE SYMBOLS	DESCRIPTION
24x12	DUCT SIZE (WIDTH X DEPTH)
24"Ø	ROUND DUCT SIZE (DIAMETER)
	FLEXIBLE DUCT (DIAMETER SIZE)
	SUPPLY DUCT CROSS SECTION UP
	SUPPLY DUCT CROSS SECTION DN
	RETURN CROSS SECTION UP
	RETURN CROSS SECTION DN
	EXHAUST CROSS SECTION UP
	SQUARE ELBOW WITH TURNING VANES
	RADIUS TURN ELBOW
	DUCT END CAP
	DUCT BRANCH
	DUCT SIZE OR TYPE TRANSITION

PIPING

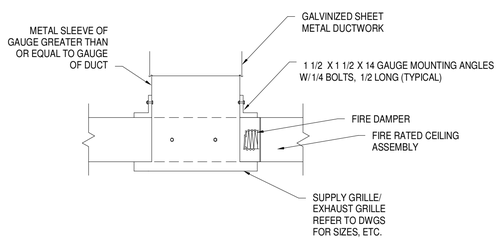
SYMBOLS	DESCRIPTION
CND	CONDENSATE DRAIN LINE
	DIRECTION OF PIPE PITCH (DOWN)

1 FLOOR PLAN TITLES
1/8" = 1'-0"



NOTES:
1. TYPICAL FOR ALL HORIZONTAL AND VERTICAL DUCT PENETRATIONS.
2. ALL CONNECTION POINTS WILL BE SEALED AIR TIGHT. PROVIDE INSULATION ON BOTH SIDES OF AIR CONDITIONING DUCTWORK.

1 FIRE DAMPER DETAIL
N.T.S.



NOTES:
1. TYPICAL FOR ALL VERTICAL DUCT PENETRATIONS IN FIRE RATED CEILINGS.
2. ALL CONNECTION POINTS WILL BE SEALED AIR TIGHT. PROVIDE INSULATION ON BOTH SIDES OF AIR CONDITIONING DUCTWORK.

2 FIRE RATED CEILING FIRE DAMPER DETAIL
N.T.S.

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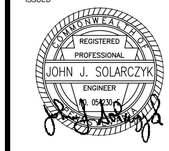

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SHEET CONTENTS
HVAC - SYMBOLS & ABBREVIATIONS

SHEET NO.:
M-001

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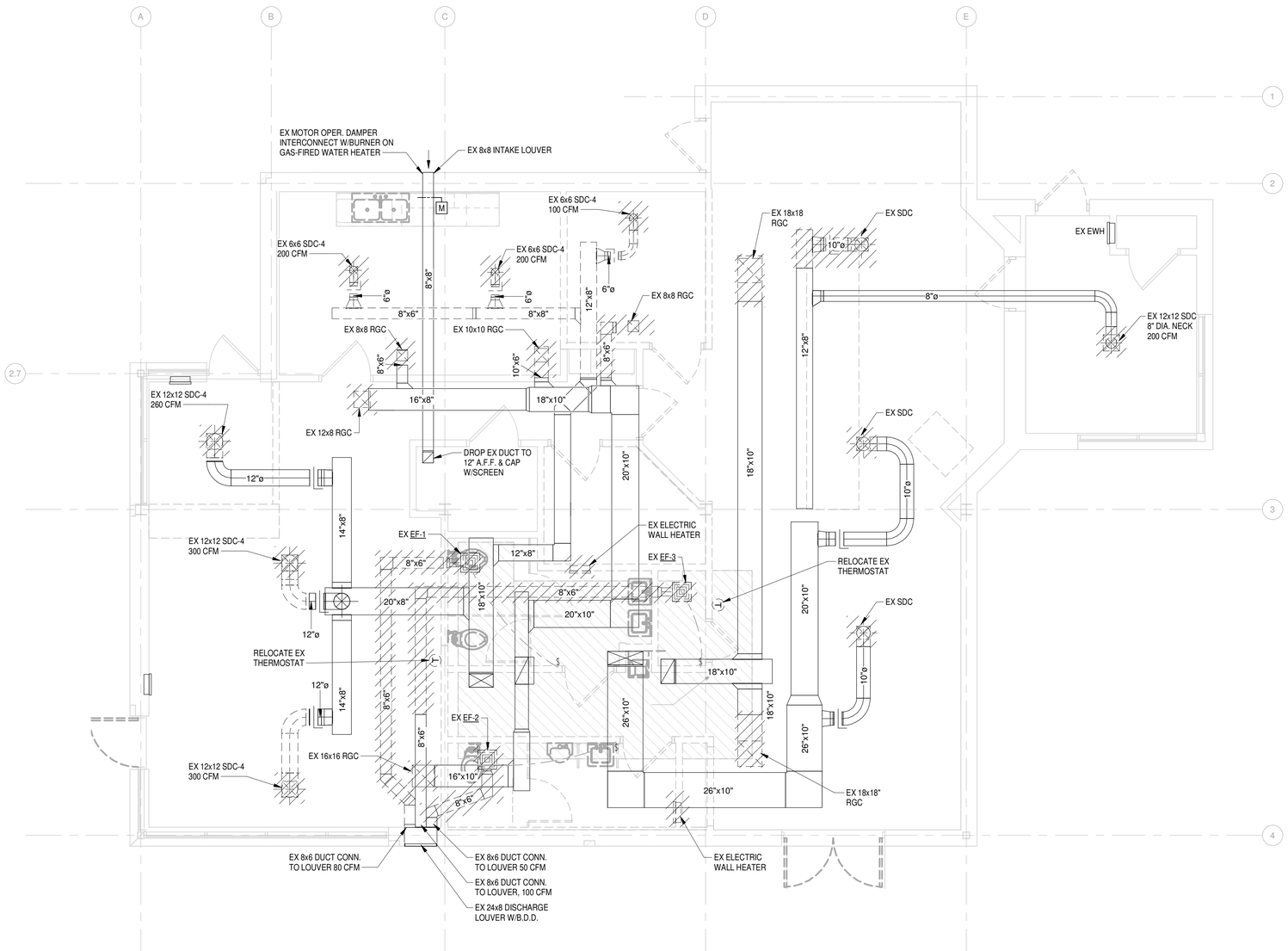

1 HVAC - FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"

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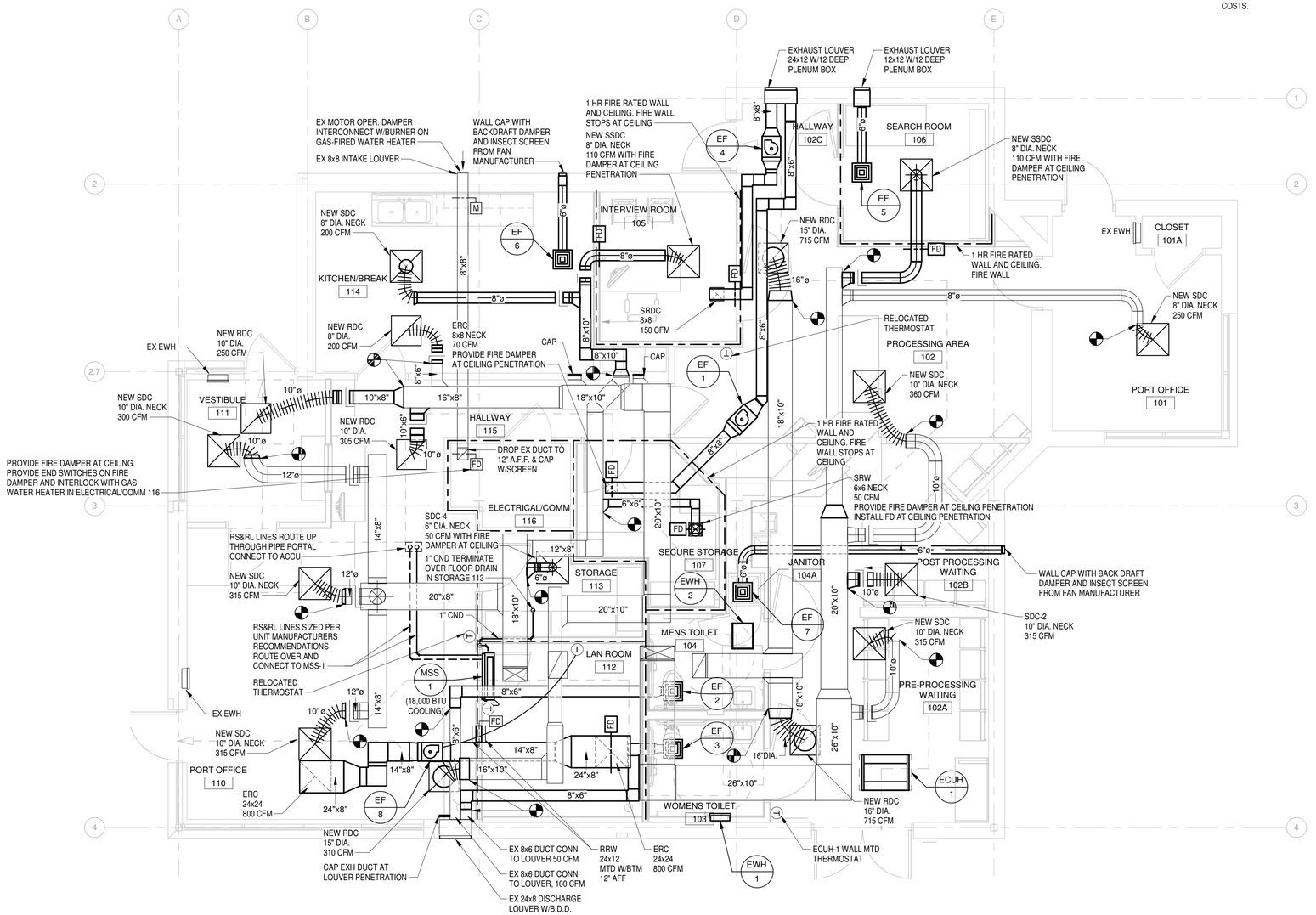
GENERAL NOTES:

1. CONTRACTOR SHALL WORK IN PHASES. COORDINATE WITH G.C. AND OWNER ON PHASED CONSTRUCTION. CONTRACTOR SHALL BLANK OFF ALL DIFFUSERS AND REGISTERS WITH PLASTIC TO ELIMINATE ANY CONSTRUCTION DUST/DEBRIS FROM BEING SPREAD THROUGHOUT THE BUILDING. CONTRACTOR SHALL INCLUDE PROVIDING TEMPORARY DUCT CONNECTIONS TO ACCOMODATE PHASING WORK AS PART OF THE BASE BID. ALL COSTS AND MATERIALS ASSOCIATED WITH MAINTAINING CODE COMPLIANT HVAC DURING PHASED CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONTRACTORS COSTS.



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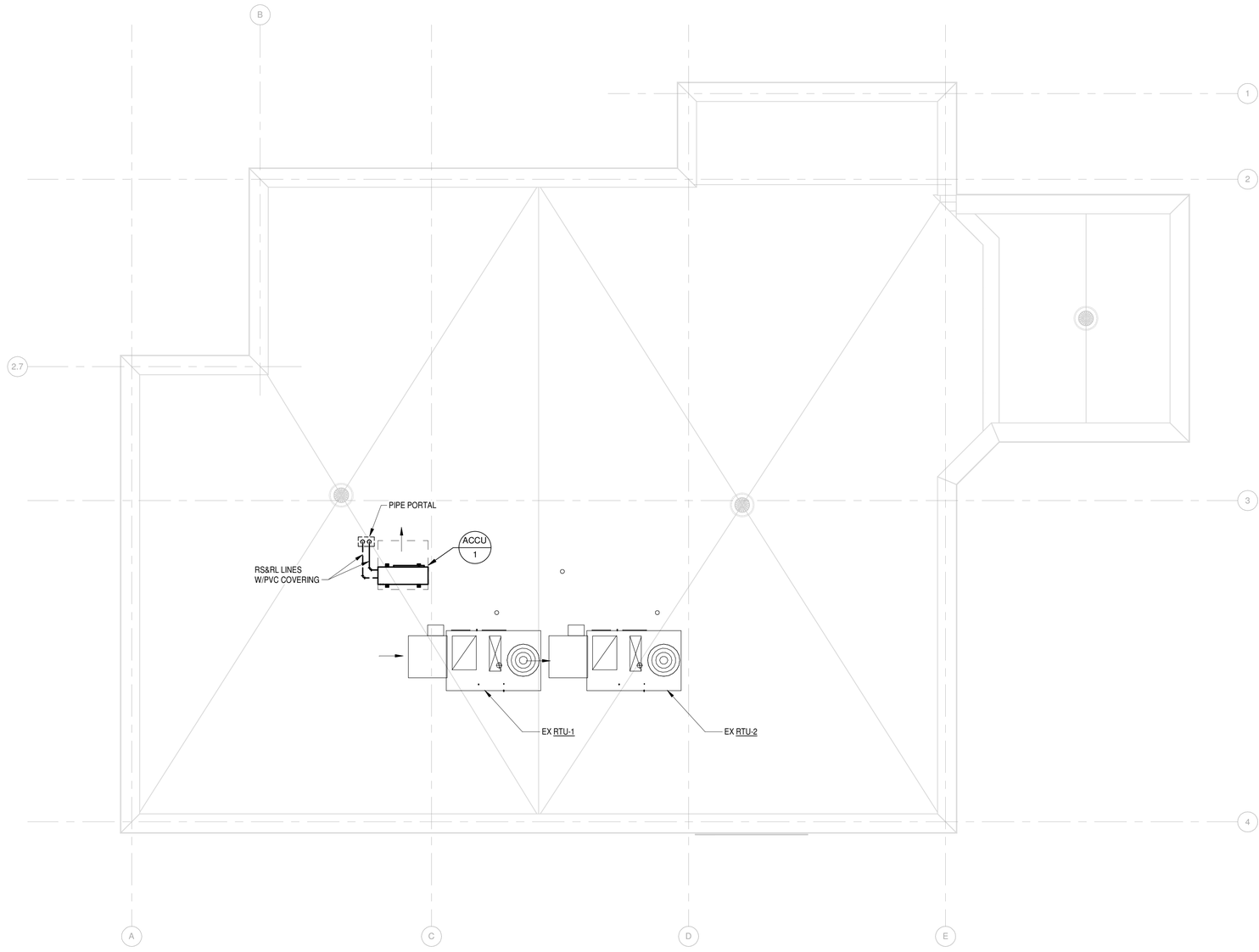
GENERAL NOTES:

1. EXISTING ROOF IS A BALLASTED ROOF. CONTRACTOR SHALL USE A ROOFING CONTRACTOR CERTIFIED TO WORK WITH THE BALLASTED ROOF MANUFACTURER. EXISTING ROOFING WARRANTIES SHALL BE MAINTAINED.



1 HVAC - ROOF PLAN

1/4" = 1'-0"

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION TERMINAL
REMODEL

4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

ISSUED

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
JOHN J. SOLARCZYK
ENGINEER
No. 054330

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: JJS
DRAWN BY: LLH
CHECKED BY: JJS

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SHEET CONTENTS
HVAC - ROOF PLAN

SHEET NO.:

M-202

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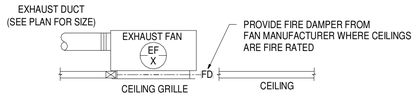
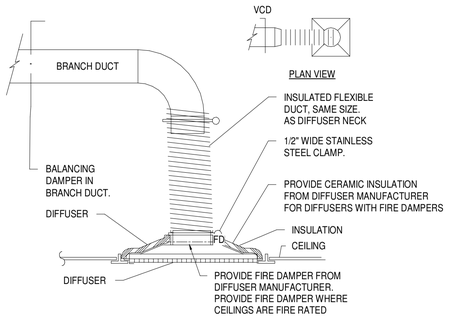


1 CEILING EXHAUST FAN DETAIL

N.T.S.



3 SUPPLY AIR DIFFUSER DETAIL

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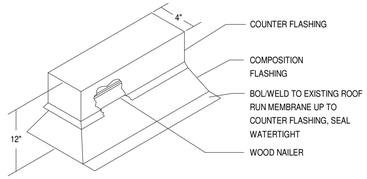
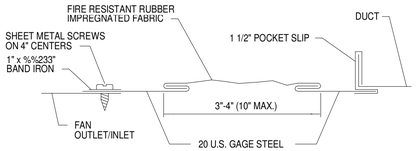


2 ROOF EQUIPMENT RAIL SUPPORT DETAIL

N.T.S.



4 TYPICAL FLEXIBLE CONNECTION DETAIL

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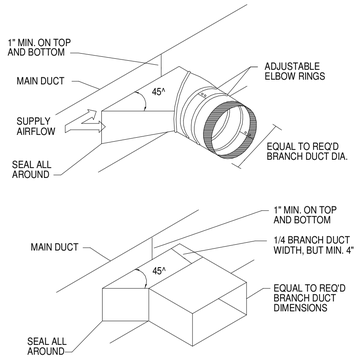
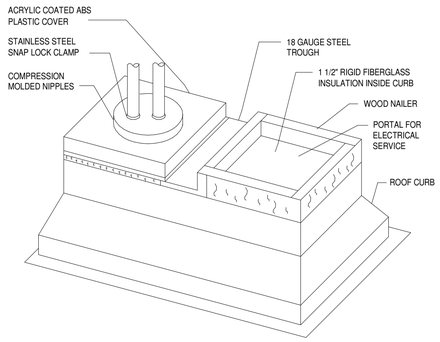


5 DETAIL - TYPICAL BRANCH TAKE-OFF FITTING

N.T.S.



6 PIPE PORTAL BASE DETAIL

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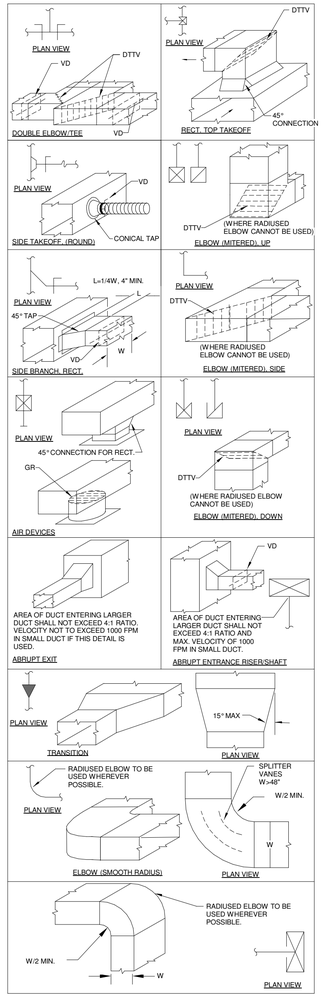
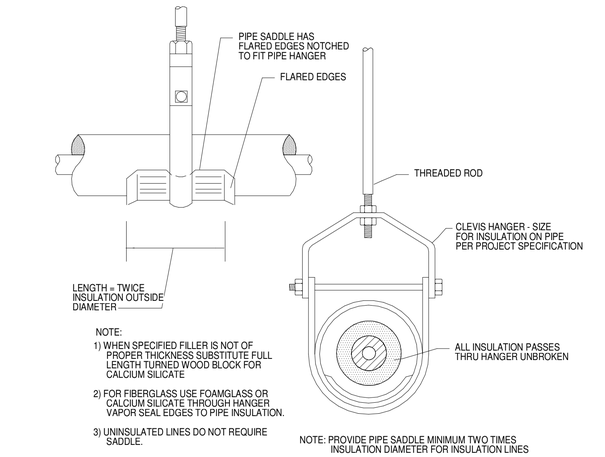


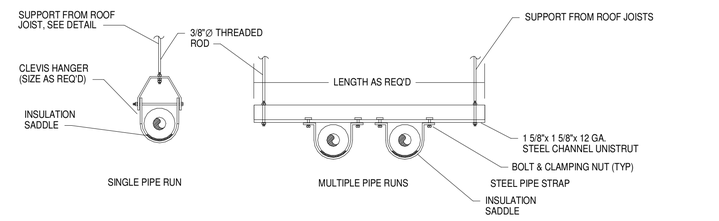
11 DUCTWORK DETAIL

N.T.S.



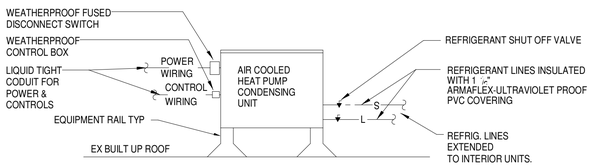
7 INSULATED PIPE HANGER DETAIL

NOT TO SCALE



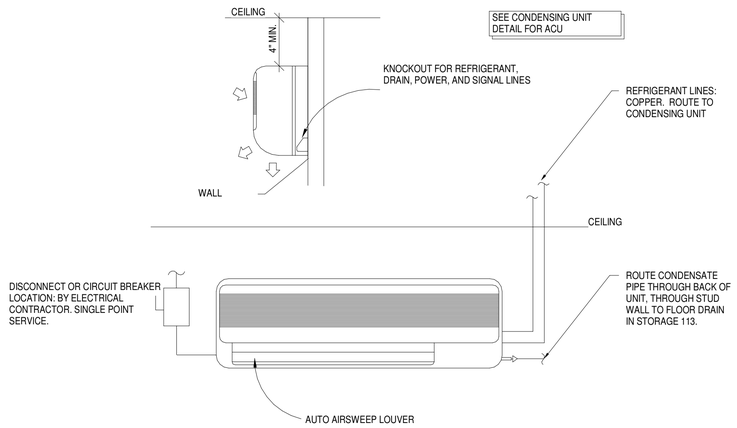
8 DETAIL - TWO PIPE SUPPORT

N.T.S.



9 AIR COOLED CONDENSING UNIT DETAIL

N.T.S.



10 MINI SPLIT WALL MOUNTED A/C UNIT DETAIL

N.T.S.

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HVAC - DETAILS

SHEET NO.:

M-401

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ELECTRIC UNIT HEATER SCHEDULE

UNIT NO	MANUF.	MODEL	LOCATION	CFM	BTU/HR	MANUF. KW	ELECTRIC CHARA		MOUNTING	REMARKS
							AMPS	V-PH-HZ		
EWH-1	QMARK	AWH	TLT	250	6,800	2.0	9.6	208-1-60	RECESSED-WALL	NOTES 1,2
EWH-2	QMARK	AWH	JAN	250	6,800	2.0	9.6	208-1-60	RECESSED-CEILING	NOTES 1,2
ECUH-1	QMARK	CU900	PRE PROC 102A	250	13,600	4.0	12	208-3-60	RECESSED-CEILING	NOTES 1

NOTES:
1. COORDINATE WITH G.C. FOR EXACT MOUNTING LOCATIONS.
2. PROVIDE UNIT MANUFACTURER'S FLOOR/WALL MOUNTING KITS.

ERIE AIRPORT CUSTOMS UPGRADES
VENTILATION SCHEDULE PER [FOUO] GENERAL AVIATION FACILITES DESIGN STANDARD DECEMBER 2018 AND IMC 2015

Equip tags Serving Zone		UNIT SERVING	ZONE NAME & NUMBER	ZONE TEMP (F) CLG	HTG	S.F.	CLG HGT	# OF SAN FIXTURES	SCH'D OCCPY	EXHAUST AIR CFM	ACH	SUPPLY AIR CFM	ACH
	RTU-2	0	101 Port Office	74	70	126	9.0		1	0	0.0	250	17.2
	RTU-2	0	102 PROCESSING	74	72	312	9.0		2	0	0.0	360	7.7
	RTU-2	0	102A PROCESSING	74	72	178	9.0		10	0	0.0	465	16.9
	RTU-2	0	102B PROCESSING	74	72	91	9.0		6	0	0.0	135	9.9
	RTU-2	0	102C HALLWAY	74	70	56	9.0		0	0	0.0	50	17.9
EF-3		0	103 WOMENS TLT	74	70	43	9.0	1	0	80	15.5	0	0.0
EF-2		0	104 MENS TLT	74	70	44	9.0	1	0	80	15.2	0	0.0
EF-4	RTU-1	0	105 INTERVIEW	74	72	79	9.0		3	125	12.7	110	10.5
EF-5	RTU-2	0	106 SEARCH ROOM	74	72	78	9.0		3	125	12.8	110	10.7
EF-1	RTU-2	0	107 SECURE STORAGE	74	72	73	9.0		0	70	5.9	50	4.6
	RTU-1	0	110 Port Office	74	72	375	9.0		2	0	0.0	490	8.4
	RTU-1	0	111 VESTIBULE	74	55	315	9.0		0	0	2.0	300	6.3
	MSS-1	0	112 LAN ROOM	72	70	442	9.0		0	0	0.0	200	6.6
	RTU-1	0	113 STORAGE	74	55	252	9.0		0	0	6.0	50	1.5
EF-6	RTU-1	0	114 KITCHEN BREAK	74	72	781	9.0		0	100	3.0	200	2.8
	RTU-1	0	115 HALLWAY	74	72	338	9.0		0	0	0.0	70	1.4
		0	116 ELECT/COMM	74	72	142	9.0		0	0	0.0	0	0.0
EF-7		0	104A JANITOR	74	72	142	9.0		0	80	10.0	0	0.0

AIR COOLED HEATPUMP CONDENSING UNIT SCHEDULE

UNIT NO.	MANUF.	MODEL	OPER. WT LBS	SERVES	CONDENSOR FAN QUANTITY	WATTS	CFM	COOLING REQUIREMENTS RATED MBH	MIN SEER	SUCTION TEMP F	OAT DB F	OAT WB F	UNIT ELECRICAL CHAR'S V-PH-Hz	MCA	MOCP	REMARKS
ACCU-244	MITSUBISHI	PUZ-A24NKA7	153	MSS-1	1	86.0	1940	24	15.3	45	90.0	73.0	208-1-60	19	26	NOTE 1

NOTES:
1. PROVIDE LOW AMBIENT WIND BAFFLE KIT.

EXHAUST FAN SCHEDULE

EF NO.	SERVES	TYPE	MANUF.	MODEL NUMBER	CFM	SP (INCHES)	FAN RPM	DRIVE	MOTOR TYPE	MOTOR HP	ELECRICAL V-PH-HZ	UNIT WEIGHT	CONTROL TYPE	FIRE DAMPER	BACK DRAFT DAMPER	REMARKS
EF-1	107 SECURE STORAGE	INLINE CABINET	GREENHECK	SP-A200	70	0.4	749	DIRECT	ECM	19.0 W	120-1-60	17	LIGHT SWITCH	YES	YES	
EF-2	104 MENS TOILET	CEILING CABINET	GREENHECK	SP-A200	80	0.3	669	DIRECT	ECM	19.0 W	120-1-60	17	LIGHT SWITCH	NO	YES	
EF-3	103 WOMENS TOILET	CEILING CABINET	GREENHECK	SP-A200	80	0.3	669	DIRECT	ECM	19.0 W	120-1-60	17	LIGHT SWITCH	NO	YES	
EF-4	105 INTERVIEW	INLINE CABINET	GREENHECK	SP-B150	150	0.3	1050	DIRECT	ECM	128.0 W	120-1-60	17	OCCUPANCY SENSOR	NO	YES	
EF-5	106 SEARCH ROOM	CEILING CABINET	GREENHECK	SP-B150	150	0.3	1050	DIRECT	ECM	128.0 W	120-1-60	17	OCCUPANCY SENSOR	NO	YES	
EF-6	114 KITCHEN/BREAK	CEILING CABINET	GREENHECK	SP-A200	100	0.3	669	DIRECT	ECM	19.0 W	120-1-60	17	LIGHT SWITCH	NO	YES	
EF-7	115A JANITOR	CEILING CABINET	GREENHECK	SP-A200	80	0.3	669	DIRECT	ECM	19.0 W	120-1-60	17	LIGHT SWITCH	NO	YES	
EF-8	112 LAN ROOM	INLINE CABINET	GREENHECK	SP-A200	800	0.3	1039	DIRECT	ECM	120.0 W	120-1-60	56	THERMOSTAT	YES	YES	

MINI SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT NO.	MANUF.	MODEL	WT. LBS	LOCATION WALL/CLG	AREA SERVED	SUPPLY FAN (WET COIL) CFM	HEATING DATA TOTAL MBH	AMBIENT F	COP	DX COOLING REQUIREMENTS RATED MBH	MIN. MBH	EAT DB F	EAT WB F	LAT DB F	LAT WB F	SEER	ELECTRICAL CHARS MCA	FLA	MOCP	V-ph-Hz	REMARKS
MSS-1	MITSUBISHI	PKA-A24HA7	46	HIGH WALL	112 LAN ROOM	570-700	28.0	17.0	2.62	24.0	10.0	80.0	67.0	55.0	54.5	21.4	1.0	0.33	15	208-1-60	NOTE 1,2,3

NOTES 1. PROVIDE MANUFACTURERS SUPPLIED CONDENSATE PUMP INTEGRAL TO UNIT.
2. PROVIDE REFRIGERANT PIPE COVER FROM UNIT MANUFACTURER.
3. PROVIDE MANUFACTURERS STARTUP AND TESTING OF UNIT.

EX ROOFTOP UNIT SCHEDULE

RTU NO.	MANUF.	MODEL	SUPPLY FAN TOTAL CFM	MIN OA CFM	ESP IN	FAN RPM	MOTOR BHP	HP	HEATING REQUIREMENTS INPUT MBH	OUTPUT MBH	EAT F	LAT F	TEMP RISE	COOLING REQUIREMENTS TOTAL MBH	SENS MBH	EAT DB F	EAT WB F	LAT DB F	LAT WB F	EER	ELECT CHAR UNIT MCA	UNIT MOCP	V-PH-HZ	REMARKS
RTU-1	BRYANT	582JP05A115A2A0AA	1,420	355	0.5	1,075	0.25	0.5	115	93	55	115	59	42.9	33.5	77.3	65	55.0	53.2	14.0	26	30	208-3-60	
RTU-2	BRYANT	582JP05A115A2A0AA	1,420	355	0.5	1,075	0.25	0.5	115	93	55	115	59	42.9	33.5	77.3	65	55.0	53.2	14.0	26	30	208-3-60	

1. RTU-1 Ventilation Calculations Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2015	
Design Condition	Heating operation	
Occupant Diversity (D)	1	
Uncorrected Outdoor Air Intake (Vou)	153	CFM
System Ventilation Efficiency (Ev)	0.735	
Outdoor Air Intake (Vot)	209	CFM

VENTILATION SCHEDULE PER IMC 2013 (REF IMC 403)

Space Name	Mult.	Supply Air (CFM)	Floor Area (ft)	Area Outdoor Air (CFM/ft)	Time Averaged Occupancy	People Outdoor Air Rate (CFM/person)	Air Distribution Effectiveness	Space Outdoor Air (CFM)	Breathing Zone Outdoor Air (CFM)	Space Ventilation Efficiency
110 PORT OFFICE	1	475	375	0.06	2.0	5.0	0.8	41	33	1.015
111 VESTIBULE	1	350	315	0.06	0.0	0.0	0.8	24	19	0.890
113 STORAGE	1	55	252	0.06	0.0	0.0	0.8	19	15	1.050
114 KITCHEN BREAK	1	350	781	0.06	0.0	0.0	0.8	59	47	0.638
115 HALLWAY	1	70	338	0.06	0.0	0.0	0.8	25	20	1.074
105 INTERVIEW	1	125	79	0.06	3.0	5.0	0.8	25	20	0.501
									162	

1. RTU-2 Ventilation Calculations Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2015	
Design Condition	Heating operation	
Occupant Diversity (D)	1	
Uncorrected Outdoor Air Intake (Vou)	165	CFM
System Ventilation Efficiency (Ev)	0.774	
Outdoor Air Intake (Vot)	213	CFM

VENTILATION SCHEDULE PER IMC 2013 (REF IMC 403)

Space Name	Mult.	Supply Air (CFM)	Floor Area (ft)	Area Outdoor Air (CFM/ft)	Time Averaged Occupancy	People Outdoor Air Rate (CFM/person)	Air Distribution Effectiveness	Space Outdoor Air (CFM)	Breathing Zone Outdoor Air (CFM)	Space Ventilation Efficiency
101 PORT OFFICE	1	250	126	0.06	1.0	5.0	0.8	16	13	1.057
102 PROCESSING	1	350	312	0.06	2.0	5.0	0.8	36	29	1.003
102A PROCESSING	1	450	178	0.06	10.0	5.0	0.8	76	61	0.944
102B PROCESSING	1	135	91	0.06	6.0	5.0	0.8	44	35	0.774
102C HALLWAY	1	150	56	0.06	0.0	0.0	0.8	4	3	1.079
106 SEARCH ROOM	1	125	78	0.06	3.0	5.0	0.8	25	20	0.860
107 SECURE STORAGE	1	50	73	0.06	0.0	0.0	0.8	5	4	0.850
									165	

CLIMATE CONDITIONS				
IEEC ZONE: 5				
OUTDOOR DESIGN TEMPERATURES				
SUMMER	O/A DB:	85	R/A DB:	75
	O/A W/B:	72	R/A WB:	62.5
WINTER	O/A DB	2	R/A DB:	68
	O/A W/B:	0.3	R/A RH:	10%

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOHN J. SOLARCZYK ENGINEER No. 054330-E

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SHEET CONTENTS
HVAC - SCHEDULES

SHEET NO.:
M-501

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SYMBOL & ABBREVIATION SCHEDULE

(NOTE: STANDARD SCHEDULE, NOT ALL SYMBOLS/ABBREVIATIONS MAY APPEAR ON THE DRAWINGS.)

LIGHTING/POWER

- LIGHT FIXTURE – SEE LIGHT FIXTURE SCHEDULE
- EMERGENCY FIXTURE
- LIGHT FIXTURE WITH NIGHT LIGHT
- PANEL BOARD – SURFACE MOUNTED
- PANEL BOARD – FLUSH MOUNTED
- SITE LIGHT – WITH DISTRIBUTION TYPE IV
- SWITCHED CIRCUIT – LIGHTING
- UNSWITCHED CIRCUIT – LIGHTING
- BRANCH CIRCUIT
- HOME RUN TO PANEL BOARD
- A–1 (#10) WIRESIZE (IF OTHER THAN #12)
- BRANCH CIRCUIT NUMBER / PANEL BOARD DESIGNATION
- EXIT SIGN – FACE(S) AND ARROWS AS INDICATED
- $ SINGLE POLE SWITCH
- $3 THREE–WAY SWITCH
- $4 FOUR–WAY SWITCH
- $a SWITCH WIRED TO LAMP 'a'
- $D SWITCH DIMMING
- $K KEY OPERATED SWITCH
- $T THERMAL SWITCH
- $TM TIMER SWITCH
  THE WATTSTOPPER TS–400
  SENSOR SWITCH TS–1
- $M OCCUPANCY SENSOR SWITCH
  THE WATTSTOPPER DW–100
  SENSOR SWITCH WSD–PDT
  DUAL TECHNOLOGY
- $MD OCCUPANCY SENSOR/DIMMER SWITCH
  DUAL TECHNOLOGY
- $MF OCCUPANCY SENSOR SWITCH LIGHT/EXHAUST FAN APPLICATION
  SENSOR SWITCH WSD–PDT–2P–FAN
  DUAL TECHNOLOGY
- [S] LOW VOLTAGE SWITCH
  LCP–2,4 (2 SWITCHES CONTROLLING CIRCUITS LCP–2 AND LCP–4 RESPECTIVELY)
- NEMA 5–20R DUPLEX RECEPTACLE
- NEMA 5–20R DUPLEX RECEPTACLE WITH SECURITY PLATE & SCREWS
- NEMA 5–20R DUPLEX RECEPTACLE AND COAX BARREL CONNECTION 12" BELOW CEILING AT TV BRACKET LOCATION
- NEMA 5–20R DUPLEX RECEPTACLE – CEILING MOUNTED
- CEILING MOUNTED RETRACTABLE CORD REEL
- MOUNT XX INCHES A.F.F.
- MICROWAVE OVEN RECEPTACLE/CONNECTION
  COORDINATE MOUNTING LOCATION WITH CASEWORK ELEVATIONS
- QUAD RECEPTACLE
- SPECIAL PURPOSE OUTLET
- MOTOR CONNECTION (INCLUDES STARTER/DISCONNECT INSTALLATION)
- MOTOR STARTER
- SAFETY TYPE DISCONNECT SWITCH
- COMBINATION MOTOR STARTER
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT ABOVE CEILING
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT CEILING MOUNTED
- JUNCTION BOX WITH FINAL CONNECTION TO PLUMBING CONTROLS
  COORDINATE LOCATION WITH OTHER TRADES
- [T] TIMER
- [C] CONTACTOR
- [RAP] GENERATOR REMOTE ANNUNCIATOR PANEL
- PHOTO CELL
- MULTI–OUTLET ASSEMBLY
  NONMETALLIC – PANDUIT TWIN–RAIL OR EQUAL
  MOUNT ABOVE COMPUTER STATION
- 360 DEGREE OCCUPANCY SENSOR
  DUAL TECHNOLOGY
  THE WATTSTOPPER CAT# DT–300
  SENSOR SWITCH CAT# CM–PDT
  PROVIDE DIGITAL DEVICES WHERE NOTED ON THE DETAILS
- DIRECTIONAL OCCUPANCY SENSOR
  THE WATTSTOPPER CAT# DT–200 OR EQUAL
  SENSOR SWITCH CAT# WV–PDT
  DUAL TECHNOLOGY
  PROVIDE DIGITAL DEVICES WHERE NOTED ON THE DETAILS
- [GTD] 20AMP GENERATOR TRANSFER DEVICE
  BODINE BLCD–20B OR EQUAL BY NLIGHT
- [INV] MINI INVERTER
  LVS CEPS–M–110G

FIRE ALARM

- [F] FIRE ALARM PULL STATION
- [F] FIRE ALARM SPEAKER AND STROBE LIGHT
- FIRE ALARM STROBE LIGHT – CEILING MOUNTED
- FIRE ALARM SPEAKER AND STROBE LIGHT – CEILING MOUNTED
- [F] FIRE ALARM STROBE LIGHT – WALL MOUNT
- (S)D FIRE ALARM SMOKE DUCT DETECTOR W/REMOTE LED INDICATOR
- (S) FIRE ALARM SMOKE DETECTOR
- (H) FIRE ALARM HEAT DETECTOR
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [PS] PRESSURE SWITCH
- SEMI–FLUSH WALL MOUNTED DOOR HOLD/RELEASE
- [CM] FIRE ALARM CONTROL MODULE
- [FACP] FIRE ALARM CONTROL PANEL
- [ANN] FIRE ALARM SEMI–FLUSH ANNUNCIATOR PANEL
- [FATC] FIRE ALARM TERMINATION CABINET

COMMUNICATIONS

- TELECOMMUNICATIONS OUTLET
- COAX TV OUTLET

ABBREVIATIONS

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CIRCULATING PUMP
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DP	DIMMING PANEL
E	EMERGENCY
EC	ELECTRICAL CONTRACTOR
ECUH	ELECTRIC CABINET UNIT HEATER
EF	EXHAUST FAN
EHUH	ELECTRIC HORIZONTAL UNIT HEATER
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
F OR FM	FLOOR MOUNTED
FCU	FAN COIL UNIT
FEC	FIRE EXTINGUISHER CABINET
FU	FUSE(S)
G OR GND	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HC	HEATING CONTRACTOR
HP	HORSEPOWER OR HEATING PANEL
HUH	HORIZONTAL UNIT HEATER
IG	ISOLATED GROUND
KV	KITCHEN VENTILATOR
L	LAMP
LP	LIGHTING PANEL
LCP	LIGHTING CONTROL PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NON FUSED
NO	NORMALLY OPEN
P	PUMP OR POLE
PC	PLUMBING CONTRACTOR
PNL	PANEL
REL	RELOCATE
RTU	ROOF TOP UNIT
SM	SURFACE MOUNT
SW	SWITCH
TC	TIME CLOCK
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VS	VANDAL SHIELD
W	WATTS OR WIRE
W/	WITH
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHERPROOF

ONE–LINE DIAGRAM

- UTILITY TRANSFORMER
- DELTA–WYE TRANSFORMER
- (M) METERING
- CIRCUIT BREAKER
- DRAW OUT CIRCUIT BREAKER
- FUSED SWITCH
- NON–FUSED SWITCH
- 100 FEEDER NUMBER
- [TVSS] TRANSIENT VOLTAGE SURGE SUPPRESSION
- ENCLOSED CIRCUIT BREAKER
- ENCLOSED FUSED SWITCH

DRAWING SYMBOLS

- 1 KEY NOTE
- ACCU 2 EQUIPMENT LABEL

1 / E0.01 **TITLE** SCALE: SCALE — DRAWING TAG

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ENTIRE BID DOCUMENT SET, I.E. IF WORK IS SHOWN ON OTHER TRADE DRAWINGS AS BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
2. COORDINATE LOCATION OF LIGHTING FIXTURES, CONDUIT, CABLE TRAY AND EQUIPMENT/DEVICES WITH OTHER TRADES INCLUDING ARCHITECTURAL DETAILS.
3. PROVIDE #12 AWG MINIMUM FOR POWER AND LIGHTING BRANCH CIRCUIT WIRING.
4. E.C. TO PROVIDE FIRE STOPPING, FOR ANY NEW ELECTRICAL WORK THAT PENETRATES A FIRE SEPARATION.
5. MOUNT ELECTRICAL OUTLETS AT 18" A.F.F. TO CENTERLINE AND 42" A.F.F. AT COUNTERS TO CENTERLINE UNLESS NOTED OTHERWISE.
6. MOUNT LIGHT SWITCHES AT 42" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
7. MOUNT PANEL BOARDS AT 6' A.F.F. TO TOP OF PANEL. MOUNT PANEL BOARDS TALLER THAN 6' NO MORE THAN 4" A.F.F.
8. WHERE POWER RECEPTACLES ARE DESIGNATED AS ABOVE THE COUNTER, ADJACENT TELEPHONE/DATA OUTLETS SHALL ALSO BE ABOVE THE COUNTER.
9. WHERE POWER RECEPTACLES ARE DESIGNATED AS FLOOR MOUNTED, ADJACENT TELEPHONE/DATA OUTLETS SHALL ALSO BE FLOOR MOUNTED.
10. COORDINATE LIGHTING FIXTURES WITH ARCHITECTURAL CEILING PLANS AND DETAILS. POINT OUT ANY DISCREPANCIES BETWEEN CEILING TYPES AND SPECIFIC FIXTURE MOUNTING REQUIREMENTS TO ENGINEER PRIOR TO FIXTURE SUBMITTALS.
11. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS. EXPOSED CONDUIT IS ACCEPTABLE ONLY IN CHASES, JANITOR CLOSETS AND MECHANICAL/ELECTRICAL ROOMS.
12. REFER TO THE MECHANICAL EQUIPMENT CIRCUIT SCHEDULES FOR CIRCUITS,CABLE, CONDUIT, DISCONNECT AND MOTOR STARTERS FOR SPECIFIC HVAC AND PLUMBING EQUIPMENT.
13. EACH SINGLE PHASE 120–VOLT OR 277–VOLT CIRCUIT SHALL CONSIST OF 1–PHASE, 1–NEUTRAL, AND 1–GROUND, SHARED NEUTRALS ARE NOT ACCEPTABLE.
14. PROVIDE GFI PROTECTION ON ALL RECEPTACLES REQUIRED PER THE NEC AND AS NOTED IN THE SPECIFICATIONS.
15. PROVIDE PULL BOXES AT EVERY 100' OF CONDUIT RUN.
16. COORDINATE ALL POWER AND DATA OUTLETS WITH ARCHITECTURAL CASEWORK DETAILS.
17. MOUNT ALARM DEVICES (HORN STROBES, STROBES, NURSE CALL LIGHTS) SUCH THAT THEY ARE OUT OF RANGE OF ANY DOOR SWINGS AND CANNOT BE HIDDEN BY THE DOOR.
18. INCLUDE A LISTING AND LABELING STATEMENT FOR ALL SUBMITTALS. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED LABORATORY OR AGENCY.
19. VERIFY ALL COLORS/FINISHES FOR LIGHTING AND WIRING DEVICES WITH THE ARCHITECT/OWNER.
20. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE HVAC CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.

GENERAL DEMOLITION NOTES

1. REMOVAL OF ALL EQUIPMENT/DEVICES SHALL INCLUDE SUPPORTING EQUIPMENT.
2. EXISTING EQUIPMENT SHOWN ON THE DEMOLITION DRAWINGS GENERALLY INDICATE THE LOCATIONS OF EQUIPMENT/DEVICES FOR REMOVAL. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS.
3. ANY ADDITIONAL ELECTRICAL EQUIPMENT/DEVICES/CABLE/CONDUIT NEEDED TO BE REMOVED FOR THE WORK AND NOT SHOWN ON THE ELECTRICAL DEMOLITION DRAWINGS SHALL BE REMOVED BY THE CONTRACTOR AT THEIR EXPENSE.
4. COORDINATE WITH OTHER TRADES ON CUTTING AND PATCHING OF EXISTING BUILDING.

WIRE SIZE FOR 20A CIRCUIT

CONDUCT SIZE	120V LENGTH OF RUN
AWG NO. 12	50 FEET OR LESS
AWG NO. 10	51 FEET TO 200 FEET
AWG NO. 8	201 TO 300 FEET

DEVICE/EQUIPMENT MOUNTING HEIGHTS

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE (UNLESS NOTED OTHERWISE) AND MUST CONFORM TO ADA REQUIREMENTS UNLESS OTHERWISE NOTED.	
FIRE ALARM HORN, STROBE AND SIGNALING DEVICES MOUNT SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" A.F.F. AND ENTIRE LENS IS NOT GREATER THAN 96" A.F.F.	6'–8" MAX. OR 6" BELOW CEILING (WHICHEVER IS LOWER)
TOP OF PANELBOARDS	6'–0"
TOP OF TELEPHONE CABINET	6'–0"
TOP OF BACK MOUNTED EXIT FIXTURE (NOT MOUNTED ABOVE DOORS)	12" BELOW FINISHED CEILING TO CENTERLINE
TOP OF SAFTEY SWITCH, CONTACTORS, STARTERS.	6'–0" MAXIMUM
PAY TELEPHONE TELEPHONE WALL OUTLET LIGHT SWITCHES MANUAL CONTROL DEVICES FIRE ALARM PULL STATION FIRE PHONE JACKS	3'–6"
RECEPTACLES, TELECOMMUNICATION OUTLETS (DESK) TELEVISION OUTLETS	1'–6"
FINISHED FLOOR ELEVATION	0'–0"
CONTRACTOR SHALL VERIFY FINAL LOCATION OF ALL DEVICES WITH ARCHITECT AND/OR INTERIOR DESIGNER	

FIRE ALARM STROBE SCHEDULE	
AREA	CANDELAS
CORRIDORS	15
ROOMS LESS THAN 20 X 20	15
ROOMS BETWEEN 20 X 20 AND 30 X 30	30
ROOMS OVER 30 X 30	110

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DRAWN BY: LLH
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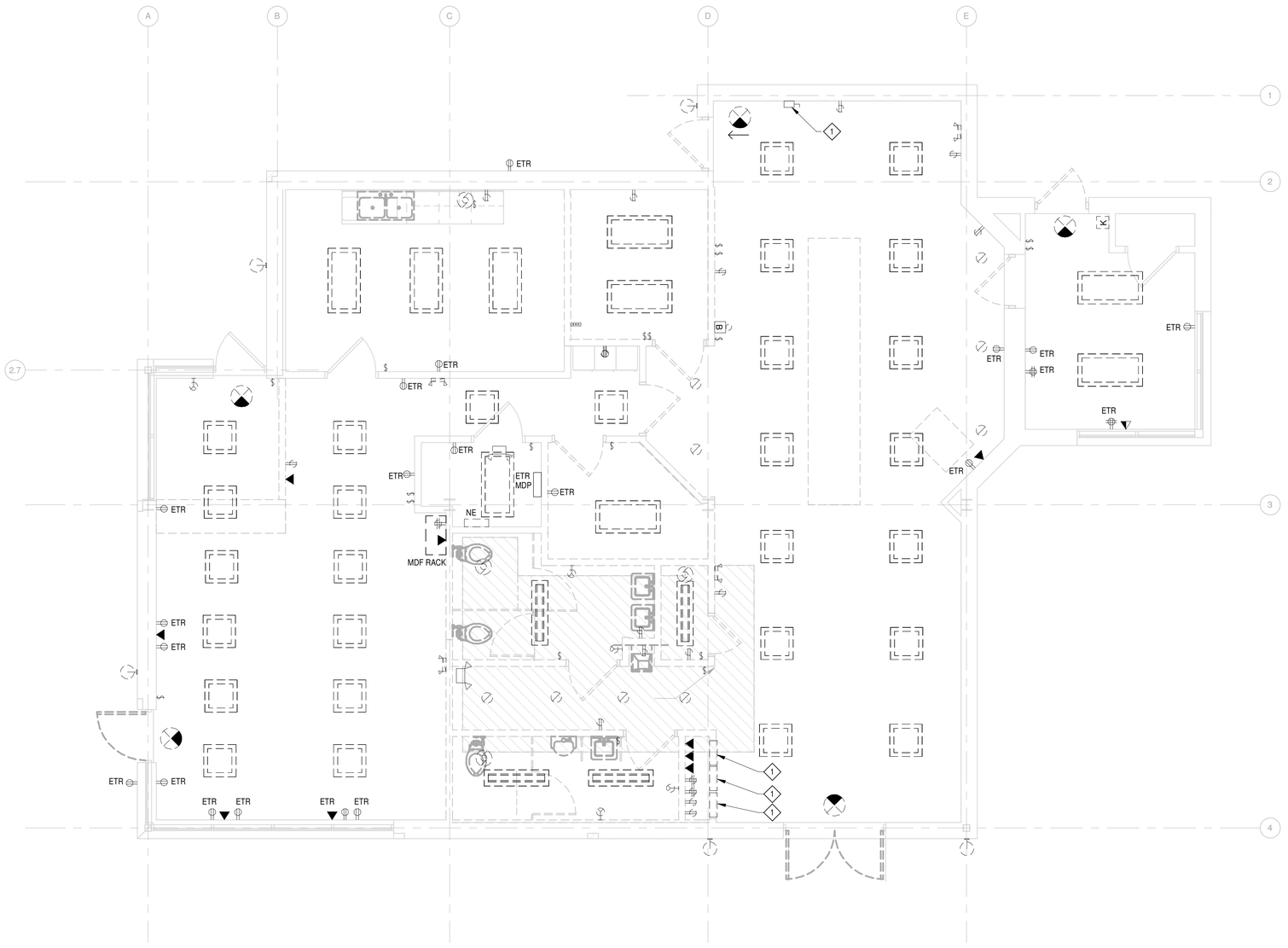
SHEET CONTENTS
ELECTRICAL - LEGEND

SHEET NO.:
E-001

KEY NOTES

1 DEMOLISH EXISTING EXISTING LIFT STATION DISCONNECT SWITCH, RELOCATE CONTROL PANEL, INSTRUMENTATION PANEL, METER, CONTROL TRANSFORMER. PULL BACK EXISTING CABLES AND RECONNECT. DEMOLISH EXISTING INTERIOR CONDUITS.



1 ELECTRICAL - FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"

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SHEET CONTENTS
ELECTRICAL - FIRST FLOOR DEMOLITION PLAN

SHEET NO.:

E-101

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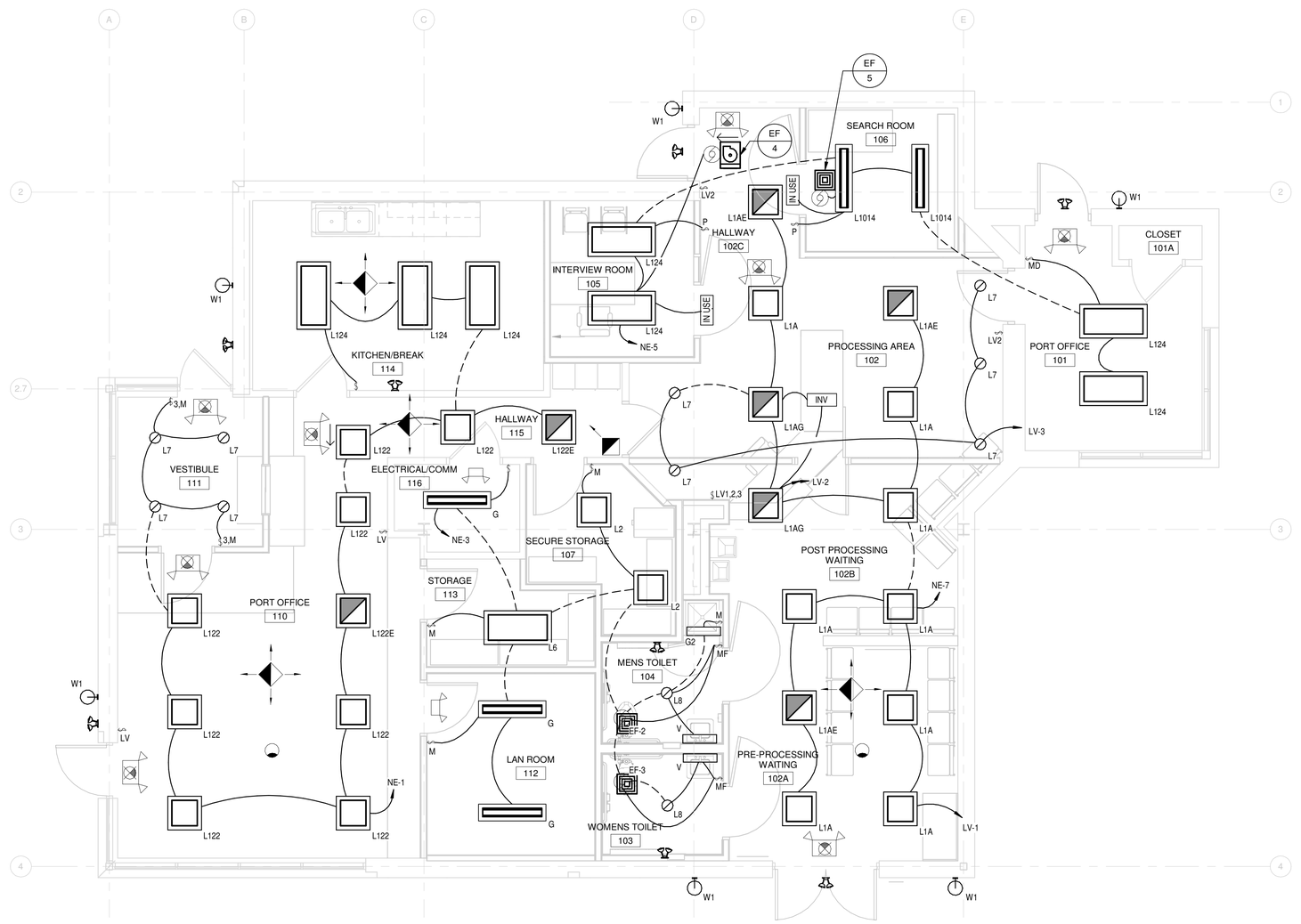
NOTE:

1. RECONNECT FIXTURE TYPE W1 TO EXISTING CIRCUIT.



1 ELECTRICAL - FIRST FLOOR LIGHTING PLAN

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SHEET CONTENTS
ELECTRICAL - FIRST FLOOR LIGHTING PLAN

SHEET NO.:

E-201L

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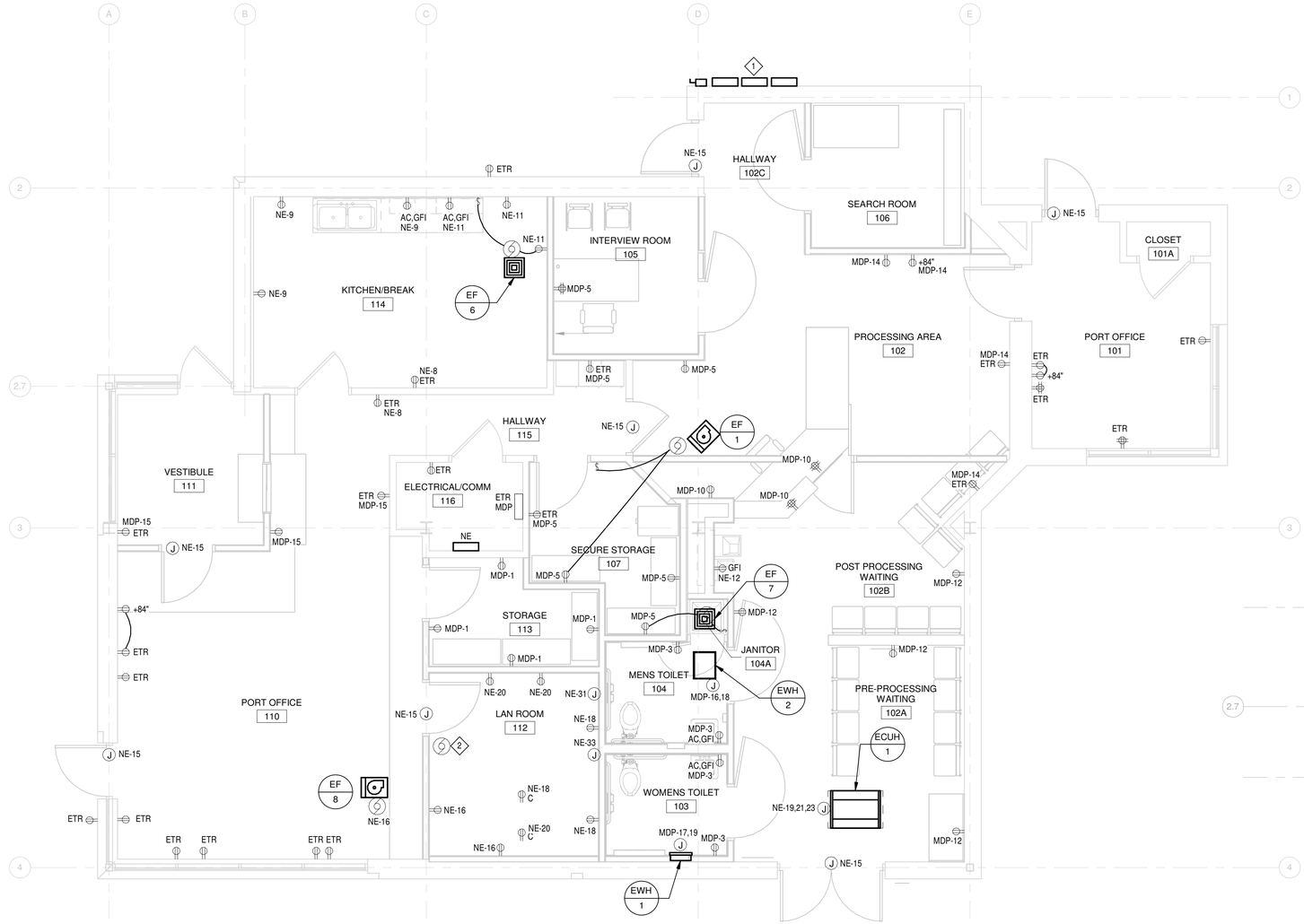
KEY NOTES

1. RELOCATED LIFT STATION DISCONNECT SWITCH, PUMP CONTROL PANEL, INSTRUMENT PANEL, METER AND CONTROL TRANSFORMER. REFEED AND CONNECT ALL EXISTING POWER AND CONTROL CABLES. REFER TO TEMPORARY ONE-LINE DIAGRAM.
2. WIRE MSS TO ACCU-1.

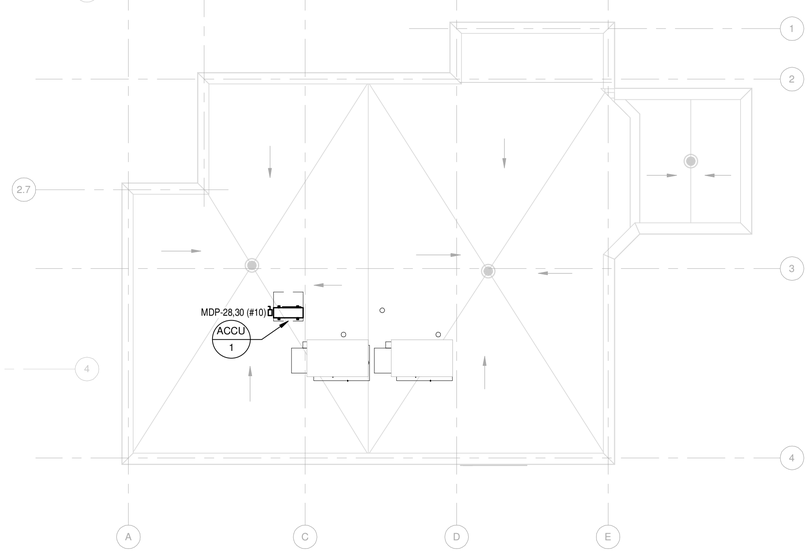
NOTES:

1. REPLACE ALL RECEPTACLES/PLATES NOTED "ETR" WITH NEW RECEPTACLES/PLATES. RECONNECT TO EXISTING CIRCUIT.



1 ELECTRICAL - FIRST FLOOR POWER PLAN

1/4" = 1'-0"



2 ELECTRICAL - ROOF PLAN

1/8" = 1'-0"

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SHEET CONTENTS
ELECTRICAL - FIRST FLOOR POWER PLAN

SHEET NO.:

E-201P

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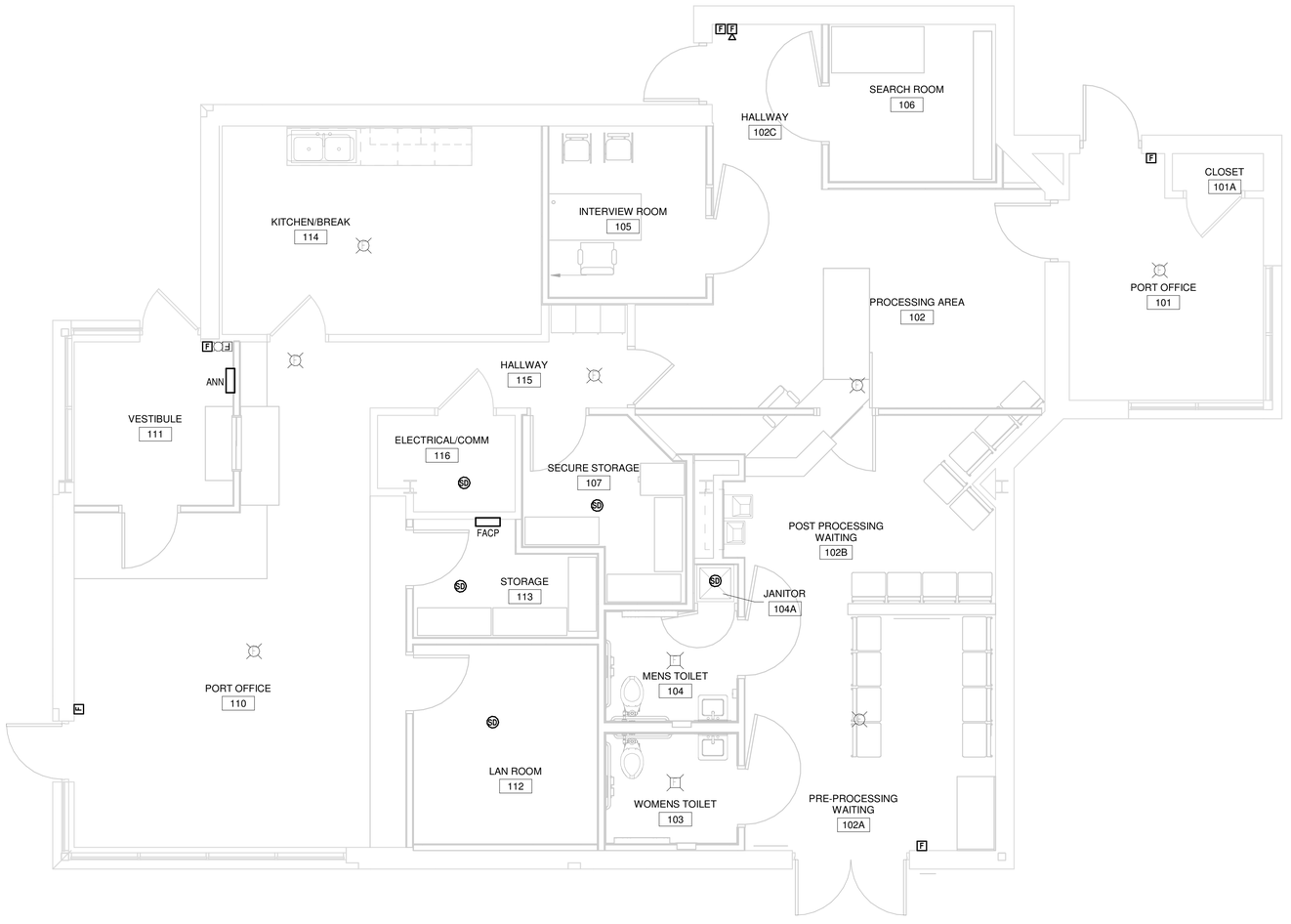

1 ELECTRICAL - FIRST FLOOR SYSTEMS PLAN

1/4" = 1'-0"

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ELECTRICAL - FIRST FLOOR SYSTEMS PLAN

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E-201S

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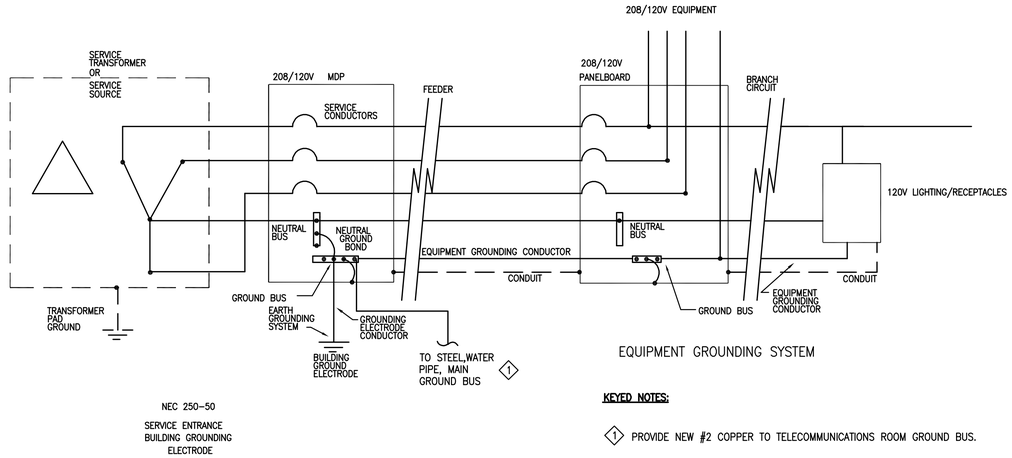
KEYED NOTES:

1. PROVIDE SURGE SUPPRESSION PER SPECIFICATIONS FOR NOTED PANEL.
2. DEMOLISH EXISTING PANEL "NE" AND REPLACE WITH NEW PANEL "NE". RECONNECT EXISTING CIRCUITS SCHEDULED TO REMAIN.

NOTES:

1. REFER TO THE PANELBOARD SCHEDULES FOR CIRCUITS.

1 ONE-LINE DIAGRAM
N.T.S.

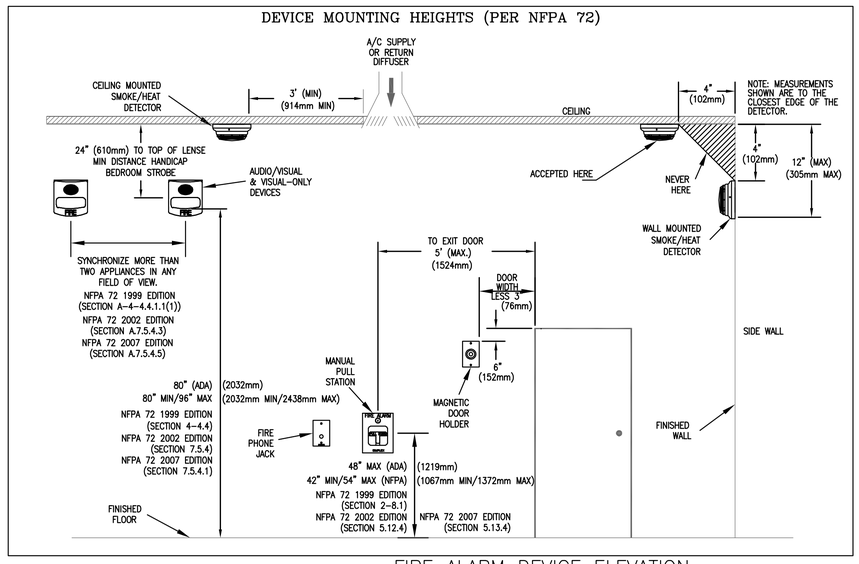


EQUIPMENT GROUNDING SYSTEM

KEYED NOTES:

1. PROVIDE NEW #2 COPPER TO TELECOMMUNICATIONS ROOM GROUND BUS.

2 BUILDING GROUNDING SYSTEM
N.T.S.



3 FIRE ALARM DEVICE ELEVATION
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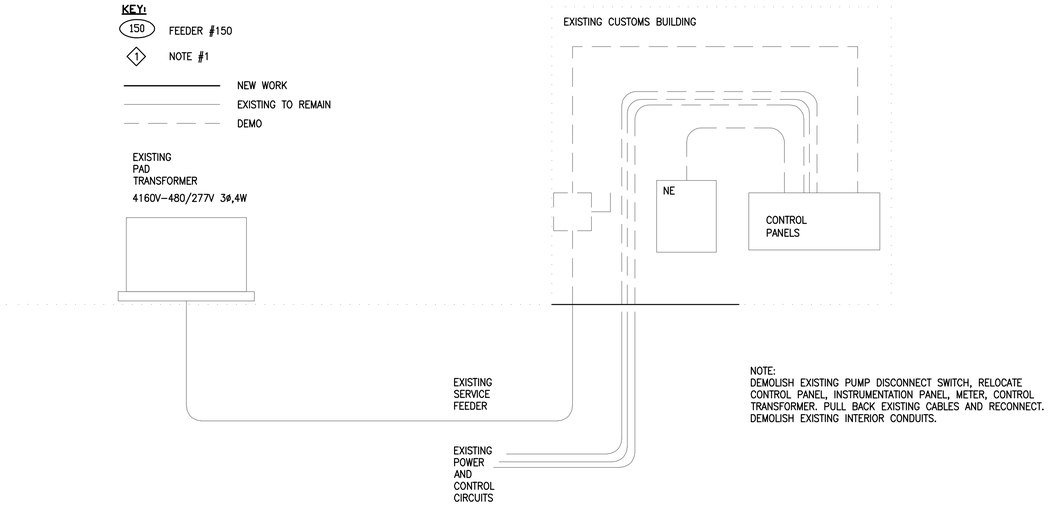
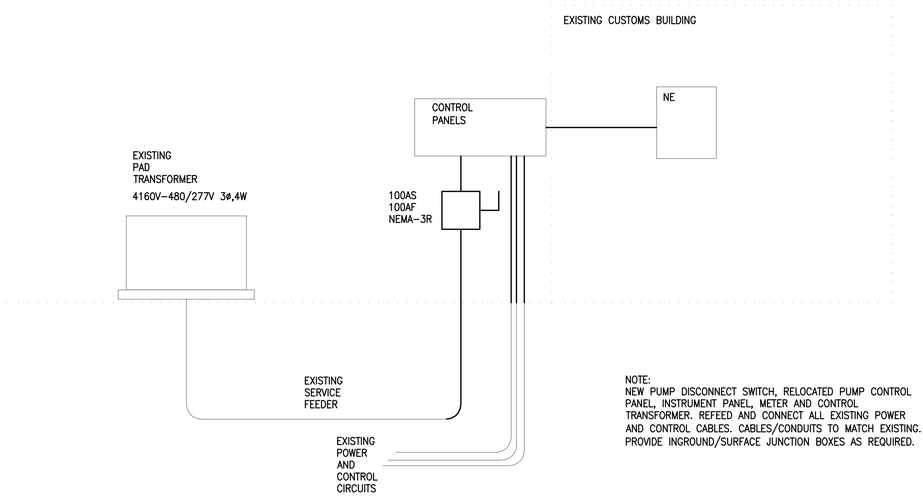
SHEET CONTENTS
ELECTRICAL - RISER DIAGRAMS

SHEET NO.:
E-301



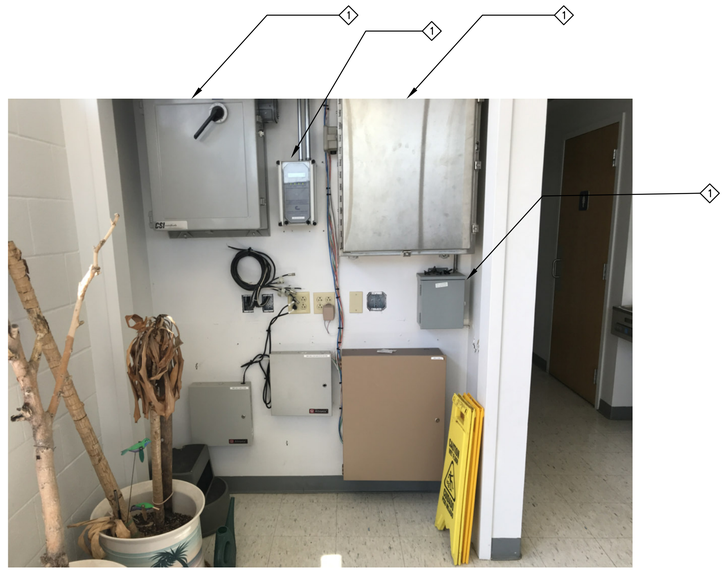
1 ONE–LINE DIAGRAM – PUMP STATION DEMOLITION

N.T.S.



2 ONE–LINE DIAGRAM – PUMP STATION TEMPORARY POWER/CONTROLS

N.T.S.



KEYED NOTES:

1 NOTED CONTROL PANELS TO BE RELOCATED PER DETAILS 1 & 2.

3 DETAIL – CONTROLS TO BE RELOCATED

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Thomas C. Heasley, Jr.
ENGINEER
PE-040983-E

ISSUED FOR CONSTRUCTION

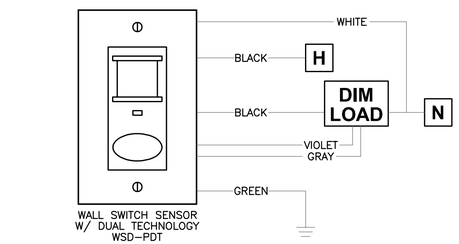
M&H NO.:	R3225600-192560
DATE:	01/13/2021
DESIGNED BY:	TCH
DRAWN BY:	LLH
CHECKED BY:	TCH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
ELECTRICAL - RISER DIAGRAMS

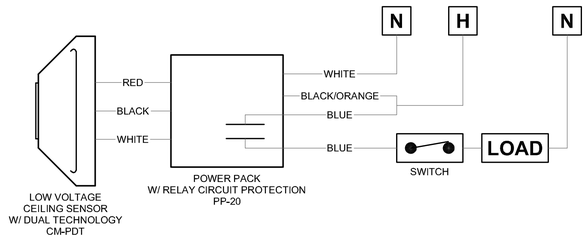
SHEET NO.:

E-302



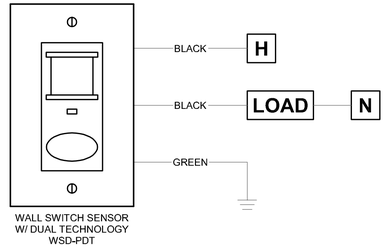
1 DETAIL – DIMMER/SENSOR SWITCH

N.T.S.



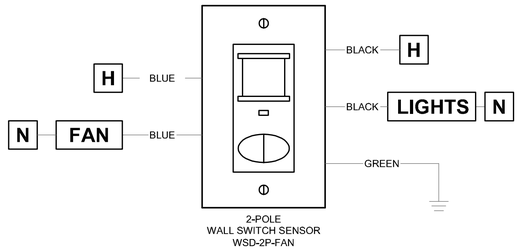
2 LOW VOLTAGE CEILING SENSOR (NON–DIGITAL AREAS)

N.T.S.



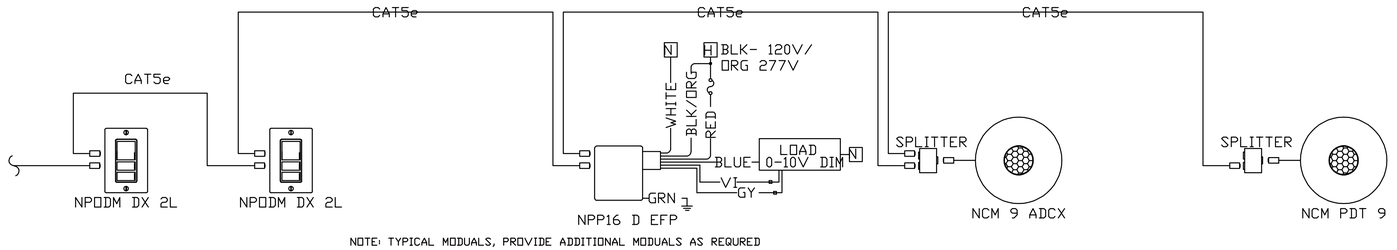
3 SINGLE POLE WALL SWITCH SENSOR

N.T.S.



4 2–POLE WALL SWITCH FAN/LIGHT SENSOR

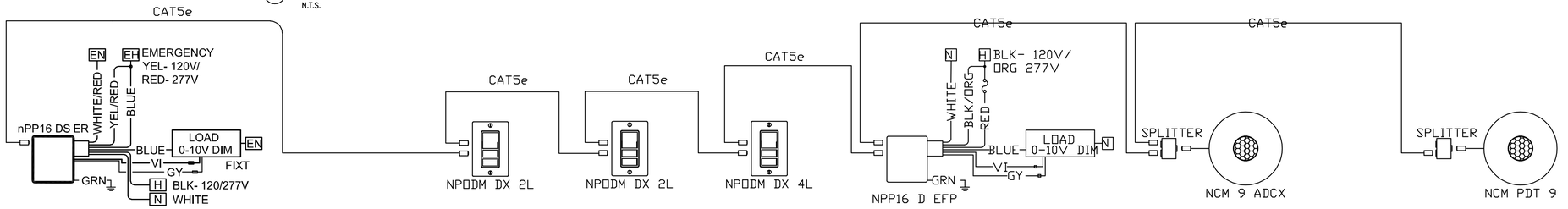
N.T.S.



NOTE: TYPICAL MODUALS, PROVIDE ADDITIONAL MODUALS AS REQURED

5 LIGHTING CONTROL – PORT OFFICE 110

N.T.S.

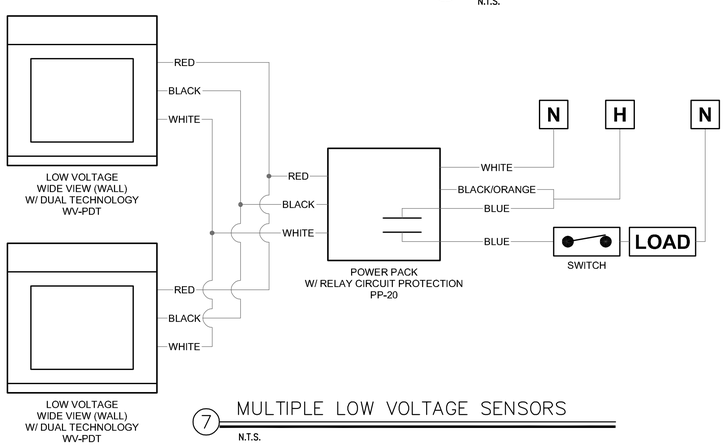


NOTE: TYPICAL MODUALS, PROVIDE ADDITIONAL MODUALS AS REQURED FOR EACH ZONE

NOTE: WIRE FIXTURES NOTED PER PLANS/SCHEDULE TO MINI-INVERTER

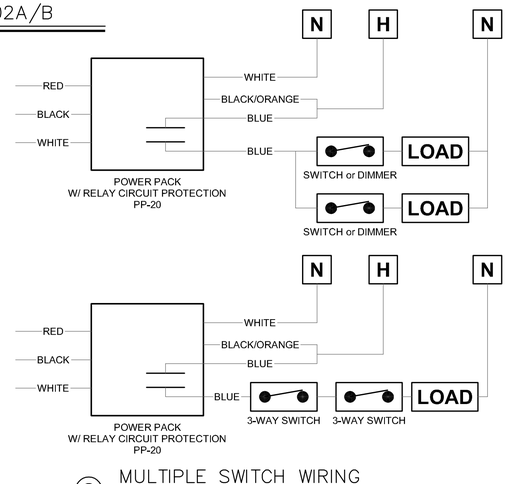
6 LIGHTING CONTROL – PROCCESSING 102,102A/B

N.T.S.



7 MULTIPLE LOW VOLTAGE SENSORS

N.T.S.



8 MULTIPLE SWITCH WIRING

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SHEET CONTENTS
ELECTRICAL - DETAILS

SHEET NO.:
E-401

PANELBOARD SCHEDULE — MDP

MAINS: 250A MFS | MOUNTING: SURFACE
VOLTAGE: 208/120V | AIC
PHASE: 3 | WIRES: 4 | REMARKS: EXISTING PANEL

NO	PH	LOAD KW	DESCRIPTION	C/B	C/B	LOAD KW	DESCRIPTION	PH	NO
1	A	0.72	STORAGE RECEPT	20/1	20/1 NEW		SPARE	A	2
3	B	0.72	TOILET RECEPT	20/1	20/1	0.18	ROOFTOP RECEPT	B	4
5	C	0.90	RECEPT HALL SEARCH	20/1	20/1	0.36	RECEPT MECH	C	6
7	A		SPARE	20/1	20/1	1.00	ALARM	A	8
9	B	0.90	RECEPT PORT OFFICE	20/1	20/1	0.90	PROCESSING AREA	B	10
11	C	0.90	RECEPT PORT OFFICE	20/1	20/1	0.90	PROCESSING AREA	C	12
13	A		SPARE	20/1	20/1	0.90	PROCESSING AREA	A	14
15	B	0.90	RECEPT LOBBY/STOR	20/1	20/2 NEW	1.20	EWH-2	B	16
17	C	1.20	EWH-1	20/2 NEW	----	1.20	----	C	18
19	A	1.20	----	----	20/1	0.36	COMPUTER OUTLET	A	20
21	B	1.00	ALARM	20/1	20/1		SPARE	B	22
23	C	2.00	WALL HEATER PORT DIRECTOR	20/2	20/2	2.00	WALL HEATER PORT DIRECTOR	C	24
25	A	2.00	----	----	----	2.00	----	A	26
27	B		SPARE	20/1	30/2 NEW	3.12	ACCU-1/MSS-1	B	28
29	C		SPACE	----	----	3.12	----	C	30
31	A	4.00	----		----		----	A	32
33	B	4.00	OUTSIDE PANEL	50/3	60/3 NEW		TVSS	B	34
35	C	4.00	----	----	----	2.33	----	C	36
37	A	10.40	----	----	----	2.33	----	A	38
39	B	10.10	PANEL NE	100/3 NEW	30/3	2.33	RTU-1	B	40
41	C	9.87	----	----	----	2.33	----	C	42
	A	18.32	TOTALS	A	24.91			6.59	A
	B	17.62		B	25.34			7.73	B
	C	18.87		C	28.77			9.91	C

DIVERSITY CALCULATION MDP

	CONNECTED	DEMAND	KW
LIGHTS	8.16	125.00%	10.20
RECEPT	13.60	50.00%	11.8
HEAT	20.80	0.00%	0
COOLING	21.65	100.00%	21.648
MOTOR	0.00	50.00%	0
MISC	20.10	75.00%	15.075
LARGEST MOTOR	1.56	100.00%	1.56
TOTAL	85.87		60.29
		AMPS	167.53

NEC 220.12 LIGHTING

LIGHTING	
SF	2332
W/SF	3.5
	8162

NOTES:
1. EXISTING "GE" PANELBOARD.
2. PROVIDE NEW BREAKERS WHERE NOTED "NEW"

LOCATION: CONNECTED LOAD 79.03 KW CONNECTED AMPS 219.63 A

PANELBOARD SCHEDULE — NE

MAINS: 100A MLO | MOUNTING: SURFACE
VOLTAGE: 208/120V | AIC 10000
PHASE: 3 | WIRES: 4 | REMARKS

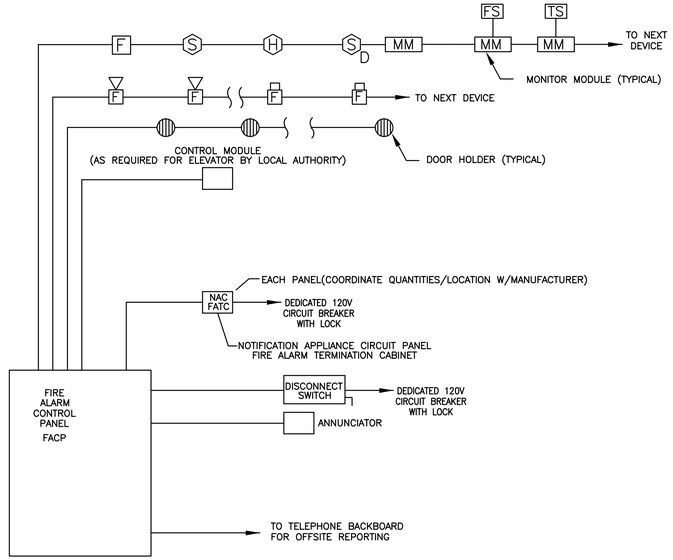
NO	PH	LOAD KW	DESCRIPTION	C/B	C/B	LOAD KW	DESCRIPTION	PH	NO
1	A	0.46	PORT OFFICE/CORRIDOR/VEST/KITCHEN LIGHTS	20/1	20/1	0.40	OUTSIDE WALL LIGHTS	A	2
3	B	0.56	STORAGE/LAN/TOILET LIGHTS	20/1	20/1	0.40	EME HALL NITE LIGHTS	B	4
5	C	0.19	INTERVIEW/SEARCH/OFFICE LIGHTS	20/1	20/1	0.40	OUTSIDE POLE LIGHTS	C	6
7	A	0.47	PROCESSING LIGHTS	20/1	20/1	1.44	HALL/KITCHEN RECEPT	A	8
9	B	1.40	KITCHEN RECEPT	20/1	20/1	0.36	SECURE STORE RECEPT	B	10
11	C	1.40	KITCHEN RECEPT	20/1	20/1	1.00	WATER COOLER	C	12
13	A	0.40	DAMPER HOT WATER TANK	20/1	20/1	0.36	QUAD AT DESK	A	14
15	B	0.50	CONTROLLED DOORS	20/1	20/1	0.54	LAN ROOM	B	16
17	C		SPARE	20/1	20/1	1.40	LAN ROOM	C	18
19	A		SPARE	----	20/1	1.40	LAN ROOM	A	20
21	B		SPARE	30/2	20/1		SPARE	B	22
23	C		----	----	20/1		SPARE	C	24
25	A	1.33	----	----	----	2.81	----	A	26
27	B	1.33	HEAT EXISTING	20/3	30/3	2.81	RTU-2	B	28
29	C	1.33	----	----	----	2.81	----	C	30
31	A	1.00	SECURITY PANEL	20/1	20/1		SPARE	A	32
33	B	1.00	SECURITY PANEL	20/1	20/1		SPARE	B	34
35	C		SPARE	20/1	20/1		SPARE	C	36
37	A	1.33	----	----	----		SPACE	A	38
39	B	1.33	ECUH-1	20/3	----		SPACE	B	40
41	C	1.33	----	----	----		SPACE	C	42
	A	4.99	SECURITY PANEL	TOTALS	A	11.40		6.41	A
	B	6.13	SECURITY PBNEL		B	10.24		4.11	B
	C	4.26	SECURITY PCNEL		C	9.87		5.61	C

DIVERSITY CALCULATION MDP

	CONNECTED	DEMAND	KW
LIGHTS	2.88	125.00%	3.60
RECEPT	4.96	50.00%	4.96
HEAT	8.00	0.00%	0.00
COOLING	8.42	100.00%	8.42
MOTOR	0.00		0.00
MISC	7.24	100.00%	7.24
LARGEST MOTOR	0.25	100.00%	0.25
TOTAL	31.76		24.48
		AMPS	68.02

NOTES:
1. REPLACE EXISTING PANEL, RECONNECT EXISTING CIRCUITS.

LOCATION: CONNECTED LOAD 31.51 KW CONNECTED AMPS 87.56 A

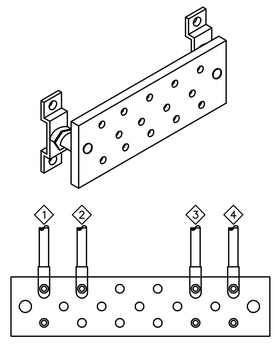


NOTES:

1. REFER TO THE FLOOR PLANS FOR ACTUAL DEVICE QUANTITIES
2. ALL WIRING SHALL BE IN CONDUIT.
3. REFER TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR TYPES AND OTHER REQUIREMENTS.
4. PROVIDE SMOKE DETECTORS ON BOTH SIDES OF ALL DOORS WITH DOOR HOLDERS WITHIN NFPA REQUIRED DISTANCES. DOOR HOLDER TO RELEASE DOOR UPON DETECTION OF SMOKE OR FIRE ALARM SYSTEM INITIATION SIGNAL.
5. PROVIDE SMOKE DETECTOR ADJACENT FIRE ALARM CONTROL PANEL.

1 TYPICAL FIRE ALARM RISER DIAGRAM

N.T.S.



1. NO. 2 STRANDED TO MDP.
2. NO. 2 STRANDED TO EACH MDF RACK.
3. NO. 6 STRANDED TO EACH SECURITY PANEL.
4. NO.6 STRANDED TO FACP.

2 DETAIL – TELECOM GROUND BUS INSTALLATION

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SHEET CONTENTS
ELECTRICAL - DETAILS & SCHEDULES

SHEET NO.:
E-501

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURERS	CATALOG NUMBER	MOUNTING	LAMPS	VOLTAGE	REMARKS
G	48" LENS STRIP LIGHT	EATON METALUX LITHONIA DAYBRITE	4SLSTP2035DD-UNV CLX L48 3000LM SEF RDL MVOLT GZ10 35K 80CRI WH FSS420L835-UNV-DIM	SURFACE	4000K LED 23 WATTS 2500 LUMENS	120/277VV	
G2	24" LENS STRIP LIGHT	EATON METALUX LITHONIA DAYBRITE	2SLSTP2040DD-UNV CLX L24 3000LM SEF RDL MVOLT GZ10 35K 80CRI WH FSS420L835-UNV-DIM	SURFACE WALL	4000K LED 23 WATTS 2500 LUMENS	120/277VV	
L122	LED DIRECT/INDIRECT 2X2	LITHONIA METALUX WILLIAMS	2VTL2-33L-ADP-EZ1-LP840 APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
L122E	LED DIRECT/INDIRECT 2X2	LITHONIA METALUX WILLIAMS	2VTL2-33L-ADP-EZ1-LP840-EL14L APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
L124	LED DIRECT/INDIRECT 2X4	LITHONIA METALUX WILLIAMS	2VTL24-40L-ADP-EZ1-LP840 APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 32 WATTS 3300 LUMENS	120/277V	
L1A	LED DIRECT/INDIRECT 2X2	LITHONIA METALUX WILLIAMS	2VTL2-33L-ADP-EZ1-LP940 APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
L1AE	LED DIRECT/INDIRECT 2X2	LITHONIA METALUX WILLIAMS	2VTL2-33L-ADP-EZ1-LP940-EL14L APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
L1AG	LED DIRECT/INDIRECT 2X2	LITHONIA METALUX WILLIAMS	2VTL2-33L-ADP-EZ1-LP940-BGTD APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	NOTE 6
L2	LED FLAT PANEL 2X2	LITHONIA METALUX WILLIAMS	EPANEL-22-3400LM-80CRI-40K-MIN10 APPROVED EQUAL APPROVED EQUAL	SURFACE CEILING	4000K LED 31 WATTS 4000 LUMENS	120/277V	W/SURFACE DRYWALL KIT
L6	LED FLAT PANEL 2X4	LITHONIA METALUX WILLIAMS	EPANEL-24-4000LM-80CRI-40K-MIN10 APPROVED EQUAL APPROVED EQUAL	SURFACE CEILING	4000K LED 37 WATTS 4000 LUMENS	120/277V	W/SURFACE DRYWALL KIT
L7	6" DOWNLIGHT	LITHONIA HALO WILLIAMS	LDN6-40/20-L06-AR-LSS-MVOLT-EZ10 APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 31 WATTS 2000 LUMENS	120/277V	
L8	6" SURFACE DOWNLIGHT FIRE RATED CEILING	JUNO HALO ELITE	IC1JB-JSF-7IN10LM-40K-90CRI-MVOLT-WH APPROVED EQUAL APPROVED EQUAL	SURFACE CEILING	4000K LED 26 WATTS 2000 LUMENS	120/277V	
L1024	SECURITY FIXTURE 2X4	LUMINAIRE FAIL SAFE KENALL	RMP22-F-H16CRSP-D16CRSP-MIN10-50W-40K-MVOLT-BLS/4ES-WHT APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
L1014	SECURITY FIXTURE 1X4	LUMINARE FAIL SAFE KENALL	RMP14-F-H16CRSP-D16CRSP-MIN10-50W-40K-MVOLT-BLS/4ES-WHT APPROVED EQUAL APPROVED EQUAL	RECESSED CEILING	4000K LED 26 WATTS 3300 LUMENS	120/277V	
V	VANITY	LITHONIA WILLIAMS METALUX	WL2-22L-EZ1-LP840 29 SERIES BC LED SERIES	SURFACE WALL	4000K LED 42 WATT 5375 LUMENS	120/277V	MOUNT ABOVE MIRROR
W1	WALLPACK	LITHONIA LSI LUMARK	DSXW1LED-10C-530-40K-T2M-MVOLT-PE-XXXX MIRADA SERIES XTOR SERIES	SURFACE WALL	4000K LED 13 WATT 1350 LUMENS	120/277V	W/PHOTOCELL MOUNT AT EXISTING FIXTURE HEIGHT/LOCATION

FIXTURE SCHEDULE NOTES:

1. FIRST MANUFACTURER IS BASIS OF DESIGN.
2. ALL FIXTURES SHALL BE 4000K UNLESS NOTED OTHERWISE
3. MANUFACTURERS OTHER THAN BASIS OF DESIGN SHALL PROVIDE CALCULATIONS.
4. CONTRACTOR SHALL PRE-QUALIFY SUBSTITUTIONS PER DIVISION 1.
5. ALL LED DRIVERS SHALL BE FCC COMPLIANT.
6. PROVIDE GTD WIRED TO MINI-INVERTER WIRED TO NOTED FIXTURES, LVS CEPS-M-110G.

EMERGENCY LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURERS	CATALOG NUMBER	LAMPS	VOLTAGE	REMARKS
EXIT	EXIT - THERMOPLASTIC NOTE 1 W/BATTERIES	LITHONIA EXITRONIX EMERGILITE	LQM S W 3 R 120/277 EL N VEX SEREIS APPROVED EQUAL	LED	120	RED LETTERS ON WHITE BACKGROUND UNIVERSAL MOUNTING, FACES/ARROWS AS INDICATED ON DRAWINGS.
EMER	EMERGENCY LIGHT W/REMOTE CAPACITY W/BATTERIES	LITHONIA EXITRONIX EMERGILITE	ELM2LED LED SEREIS APPROVED EQUAL	LED	120	NOTE 1
ECOMBO	COMBINATION EXIT EMERGENCY LIGHT W/BATTERIES W/REMOTE CAPACITY	LITHONIA EXITRONIX EMERGILITE	LHOM-LED-R-HO VLED SERIES APPROVED EQUAL	LED	120	RED LETTERS ON WHITE BACKGROUND UNIVERSAL MOUNTING, NOTE 1 FACES/ARROWS AS INDICATED ON DRAWINGS.
ERH	REMOTE HEAD	LITHONIA EXITRONIX EMERGILITE	ELA Q RL42-WP APPROVED EQUAL	LED	DC	WIRE TO ADJACENT EMER OR ECOMBO
ERHT	REMOTE TWIN HEADS	LITHONIA EXITRONIX EMERGILITE	ELA T Q 2RL52-WP APPROVED EQUAL	LED	DC	WIRE TO ADJACENT EMER OR ECOMBO
ERHW	REMOTE HEADS WET LOCATION FOR EXTERIOR LOCATIONS	LITHONIA EXITRONIX EMERGILITE	ELA T DWP 2RL1-WP APPROVED EQUAL	LED	DC	WIRE TO ADJACENT EMER OR ECOMBO
IN USE	IN USE LIGHT	LITHONIA EXITRONIX EMERGILITE	LQM P W 1 R SW09	LED	120	RED LETTERS ON WHITE BACKGROUND UNIVERSAL MOUNTING

NOTES

1. WIRE TO LIGHTING BRANCH CIRCUIT IN RESPECTIVE ROOM.
2. NOTED FIXTURE SHALL BE HIGH ABUSE TYPE.
3. FIRST LISTED FIXTURE IS BASIS OF DESIGN.

LIGHTING CONTROL SCHEDULE

SPACE TYPE	MANUAL CONTROL	AUTOMATED CONTROL TYPE	TIMEOUT DELAY TO OFF (MINUTES	REMARKS
CORRIDOR/VESTIBULE	N/A	OCCUPANCY SENSOR	10	AUTO ON TO 100%.
RESTROOMS	SWITCHBOX SENSOR WHERE NOTED ON PLANS	OCCUPANCY SENSOR	15	CONTROL FAN WHERE APPLICABLE WITH TWO POLE SWITCHING
JANITOR CLOSET/STORAGE	SWITCHBOX SENSOR	VACANCY SENSOR	15	
DATA CLOSET	LINE VOLTAGE SWITCH	VACANCY SENSOR	30	
ELECTRICAL SPACE	LINE VOLTAGE TOGGLE	N/A	N/A	
PROCESING/INTERVIEW ROOMS	LINE VOLTAGE TOGGLE WITH PILOT LIGHT	N/A DUE TO SECURITY ISSUES	N/A	
PRIVATE OFFICE	DIMMER SWITCH	VACANCY SENSOR	15	DAYLIGHT CONTROL WHERE NOTED
OPEN OFFICE	DIMMER SWITCH	VACANCY SENSOR	15	80% POWER AT ON. DAYLIGHT CONTROL
PROCESSING WAITING 102A/B	DIGITAL DIMMER SWITCHES	N/A DUE TO SECURITY ISSUES	N/A	MULTIZONE CONTROL/SCENE CONTROL 100% POWER AT ON DAYLIGHT CONTROL
PROCESSING AREA 102	DIGITAL DIMMER SWITCHES	VACANCY SENSOR	N/A	MULTIZONE CONTROL/SCENE CONTROL 100% POWER AT ON
KITCHEN	LINEVOLTAGE TOGGLE	VACANCY SENSOR	15	100% POWER AT ON

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ERIE, PENNSYLVANIA 16505

ISSUED

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
Thomas C. Heasley, Jr.
ENGINEER
PE-040980-E

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: TCH
DRAWN BY: LLH
CHECKED BY: TCH
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SHEET CONTENTS
ELECTRICAL - SCHEDULES

SHEET NO.:
E-502

TELECOMMUNICATIONS OUTLET SCHEDULE			
SYMBOL	DESCRIPTION	MOUNTING	COMMENTS
▽	SINGLE-PORT TELECOMMUNICATIONS OUTLET: - (1) 1" CONDUIT - (1) 4-11/16" SQUARE x 2-1/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLE-GANG, SINGLE-PORT FACEPLATE - (1) CATEGORY 6A JACK - (1) CATEGORY 6A CABLE	18" AFF TO CENTER OF BOX U.N.O.	
▽▽	PORT TELECOMMUNICATIONS OUTLET: - (1) 1" CONDUIT - (1) 4-11/16" SQUARE x 2-1/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLE-GANG, TWO-PORT FACEPLATE - (2) CATEGORY 6A BLUE DATA JACKS - (2) CATEGORY 6A BLUE DATA CABLES - (2) CATEGORY 6A WHITE VOICE JACKS - (2) CATEGORY 6A WHITE VOICE CABLES	18" AFF TO CENTER OF BOX U.N.O.	
W ▽	SINGLE-PORT TELECOMMUNICATIONS OUTLET FOR WALL-MOUNTED PHONE: - (1) 3/4" CONDUIT - (1) 4" SQUARE x 1-1/2" DEEP BACKBOX WITH SINGLE GANG VERTICAL TRIM RING - (1) STAINLESS STEEL FACEPLATE WITH CATEGORY 6 WHITE VOICE JACK AND PHONE LUGS - (1) CATEGORY 6A WHITE VOICE CABLE	45" AFF TO CENTER OF BOX U.N.O.	
TV ▽▽	TELEVISION TELECOMMUNICATIONS OUTLET: - (1) 1" CONDUIT STUB - (1) 4-11/16" SQUARE x 2-1/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) COAXIAL COUPLER INSERT - (1) CATEGORY 6A BLUE DATA JACKS - (1) CATEGORY 6A BLUE DATA CABLES - (1) RG6 COAXIAL CABLE - (1) RG6 F-CONNECTOR COUPLER INSERT	84" AFF. COORDINATE OUTLET HEIGHT WITH ELECTRICAL RECEPTACLE	
AP ▽▽	WIRELESS ACCESS POINT TELECOMMUNICATIONS OUTLET: - (1) 1" CONDUIT STUB - (1) 4-11/16" SQUARE x 2-1/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING AND SINGLE-GANG, TWO-PORT FACEPLATE - OR - - (1) TWO-PORT SURFACE HOUSING - (2) CATEGORY 6A BLUE DATA JACKS - (2) CATEGORY 6A BLUE DATA CABLES	SEE COMMENTS	- BOX OR HOUSING AS NECESSARY TO MEET INSTALLATION CONDITIONS - INCLUDE 30' COILED SLACK CABLE FOR AP LOCATION ADJUSTMENT

TELECOMMUNICATIONS OUTLET SCHEDULE NOTES:

1. REFER TO DIVISION 26 SPECIFICATIONS FOR BOX AND CONDUIT SPECIFICATIONS AND EXECUTION REQUIRMENTS.
2. REFER TO DIVISION 27 SPECIFICATIONS FOR LOW-VOLTAGE CABLING PATHWAY REQUIREMENTS.

SECURITY SYSTEM SYMBOLS

- C — CARDREADER
- N — CARDREADER-PINPAD
- KP — KEY PAD - INTRUSION DETECTION SYSTEM
- M — MOTION DETECTOR
- A — AUDIBLE ALARM
- P — PUSH BUTTON
- H — PANIC HARDWARE
- I — INTERCOM STATION
- ACS — ACCESS CONTROL SYSTEM
- D — DURESS PUSHBUTTON
- GO — GATE OPERATOR
- G — GLASS BREAK SENSOR
- O — LOOP DETECTOR
- PCU — PREMISES CONTROL UNIT
- SPC — SECURITY COMPUTER
- ACP — COMMUNICATION CABINET
- SL — STROBE LIGHT
- ACD — ACCESS CONTROL DOOR
- Y — KEYSWITCH
- WS — SECURITY WORKSTATION

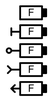
VIDEO SURVEILLANCE SYMBOLS

VIDEO SURVEILLANCE CAMERA:

- CAMERA ID
- APPROXIMATE VIEWING DIRECTION
- HORIZONTAL VIEWING ANGLE

CAMERA TYPE:
- C: DETENTION CORNER
- F: FIXED
- M: MULTISENSOR
- O: FISHEYE
- P: PAN-TILT-ZOOM
- V: VARIFOCAL

MOUNTING MODIFIERS:



- CEILING MOUNT
- WALL MOUNT
- POLE MOUNT
- EXTERIOR CORNER MOUNT
- DETENTION CORNER MOUNT

LINE TYPE KEY

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
- EXISTING TO REMAIN WORK (THIN SOLID LINE)
- NEW WORK UNDER FLOOR BY THIS CONTRACTOR
- CON — SITE UNDERGROUND CONDUIT
- //CON// — SITE REMOVED UNDERGROUND CONDUIT
- FOC — SITE UNDERGROUND FIBER OPTIC
- //FOC// — SITE REMOVED UNDERGROUND FIBER OPTIC
- T — SITE UNDERGROUND TELEPHONE
- OHT — SITE OVERHEAD TELEPHONE
- //T// — SITE REMOVED TELEPHONE
- TV — SITE UNDERGROUND TV CABLE

GENERAL SYMBOLS

- #/T-### — DETAIL NUMBER / SHEET NUMBER
- 9.### — KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

TELECOMMUNICATION OUTLET SYMBOLS

- TSE — TELEPHONE SERVICE ENTRANCE PROTECTION DEVICE
- BET — BUILDING ENTRANCE TERMINAL
- PB — COMMUNICATIONS PUNCH BLOCK
- PP — COMMUNICATIONS PATCH PANEL
- COM — COMMUNICATIONS CABINET
- FO — WALL MOUNTED FIBER OPTIC CABINET
- TGB — COMMUNICATIONS GROUND BUS BAR
- CLOCK
- ANTENNA
- EQUIPMENT RACK
- CABLE RUNWAY
- CABINET

GENERAL NOTES:

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INSTALL COMPLETE TECHNOLOGY SYSTEMS AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED.

2. MOUNT ALL TELECOMMUNICATIONS OUTLETS AT HEIGHTS ABOVE FINISHED FLOOR AS SHOWN IN THE TELECOMMUNICATIONS OUTLET SCHEDULE U.N.O.

3. SEE ELECTRICAL SPECIFICATIONS FOR LOCATIONS WHERE GRS CONDUIT SHALL BE USED, OR WHERE IMC, EMT, OR PVC CONDUIT MAY BE USED.

4. OFFSET BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE-RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. 'THRU-THE-WALL' BOXES SHALL NOT BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

5. VERIFY ALL EQUIPMENT SIZES AND POWER REQUIREMENTS FOR EQUIPMENT SUPPLIED BY OTHERS PRIOR TO INSTALLATION OF CONDUIT.

6. MOUNT TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES SO AS TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE COORDINATED WITH AND APPROVED BY THAT CONTRACTOR IN ADVANCE OF INSTALLATION.

7. CONCEAL ALL ELECTRICAL CONDUITS AND JUNCTION BOXES. COORDINATE WITH THE OTHER TRADES AND USE CHASES AND CEILING SPACES PROVIDED. WHERE BOXES AND CONDUIT ARE NOTED TO BE INSTALLED EXPOSED, THEY SHALL BE PAINTED TO MATCH THE SURFACE.

8. PROVIDE ALL OPENINGS REQUIRED IN WALLS. REPAIR ALL OPENINGS TO MATCH EXISTING USING A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. GROUT OR SEAL ALL CONDUITS THROUGH WALLS INTO OPENINGS. FIRESTOP ALL PENETRATIONS THROUGH FLOORS AND FIRE-RATED WALLS IN A MANNER THAT MAINTAINS THE RATING OF THE FLOOR OR ALL PENETRATED.

9. TERMINATE ALL TELEPHONE AND DATA JACKS WITH ALL 4 PAIRS TO ALLOW FOR INTERCHANGEABILITY.

10. PROVIDE PLASTIC OR NYLON BUSHINGS IN ALL CONDUIT STUBS PRIOR TO THE INSTALLATION OF CABLE

11. REFER TO THE G SERIES DRAWINGS FOR CODE ANALYSIS PLANS, PROJECT PHASING INFORMATION AND NOTES.

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ERIE INTERNATIONAL AIRPORT
GENERAL AVIATION FACILITY
REMODEL

4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

ISSUED

ISSUED FOR CONSTRUCTION

M&H NO.: R3225600-192560
DATE: 01/13/2021
DESIGNED BY: JRM
DRAWN BY: KLU
CHECKED BY: JMV
DO NOT SCALE DRAWINGS

SHEET CONTENTS
NOTES, SYMBOLS & ABBREVIATIONS

SHEET NO.:
T-001

1/11/2021 1:41:18 PM C:\Revit Local\3225600-192560_02-T-R20_Kyra.UrbanOAY5K.rvt

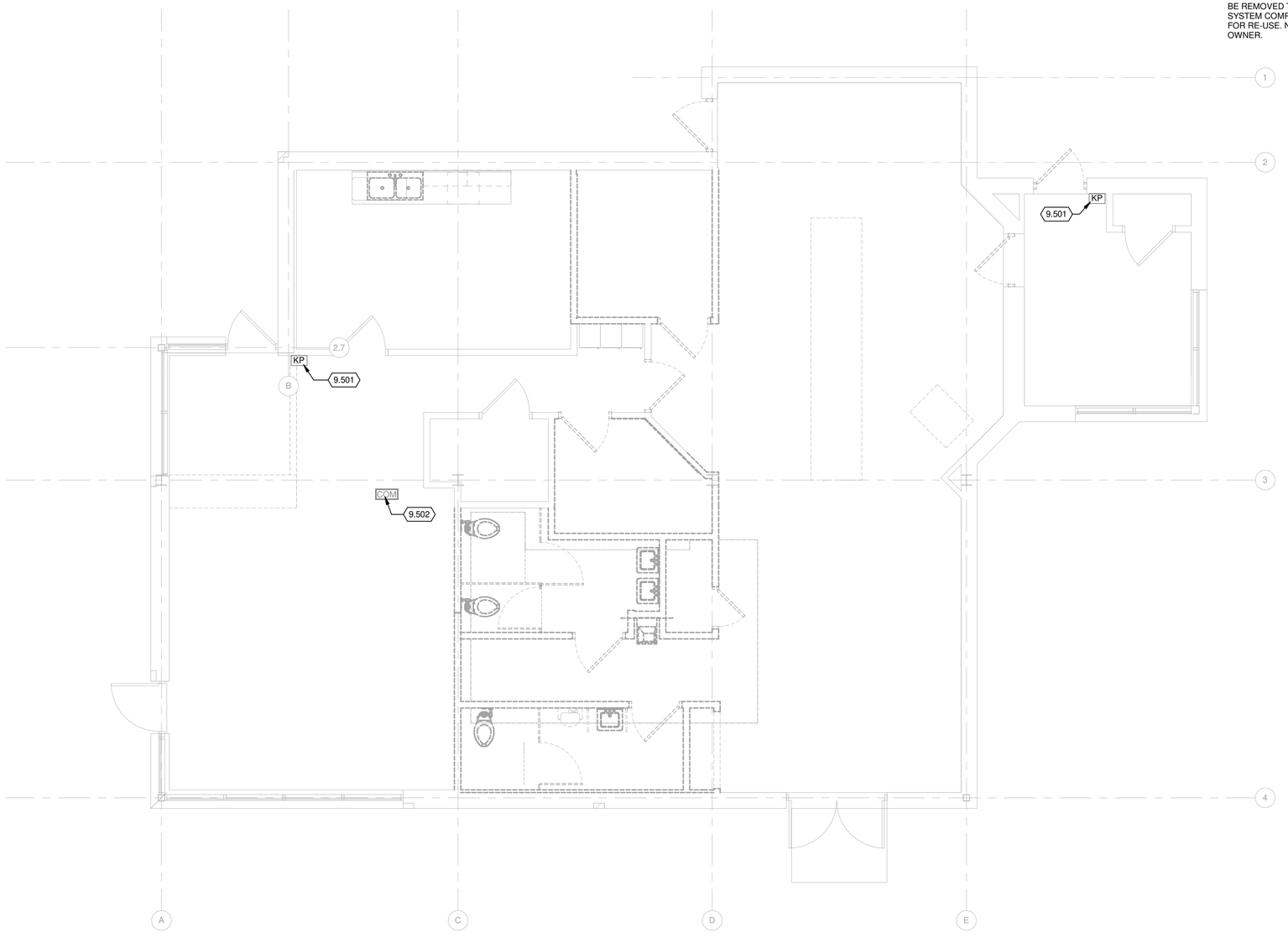
KEYED NOTES

9.501 EXISTING IDS KEYPAD. REMOVE AND STORE FOR RE-INSTALLATION AT NEW LOCATION. REFER TO T-121 FOR KEYPAD LOCATIONS.

9.502 EXISTING SECURITY CABINET. RELOCATE TO LAN ROOM 112.

DEMOLITION GENERAL NOTES:

1. ALL NETWORK AND SECURITY CABLING AND OUTLETS TO BE REMOVED TO SOURCE. INTRUSION DETECTION SYSTEM COMPONENTS SHALL BE REMOVED AND STORED FOR RE-USE. NETWORK DEVICES TO BE TURNED OVER TO OWNER.



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

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BICSI ID# 211615
EXPIRES 12-31-22
RCDD
1/13/2021

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SHEET CONTENTS
FIRST FLOOR DEMOLITION PLAN

SHEET NO.:
TD101

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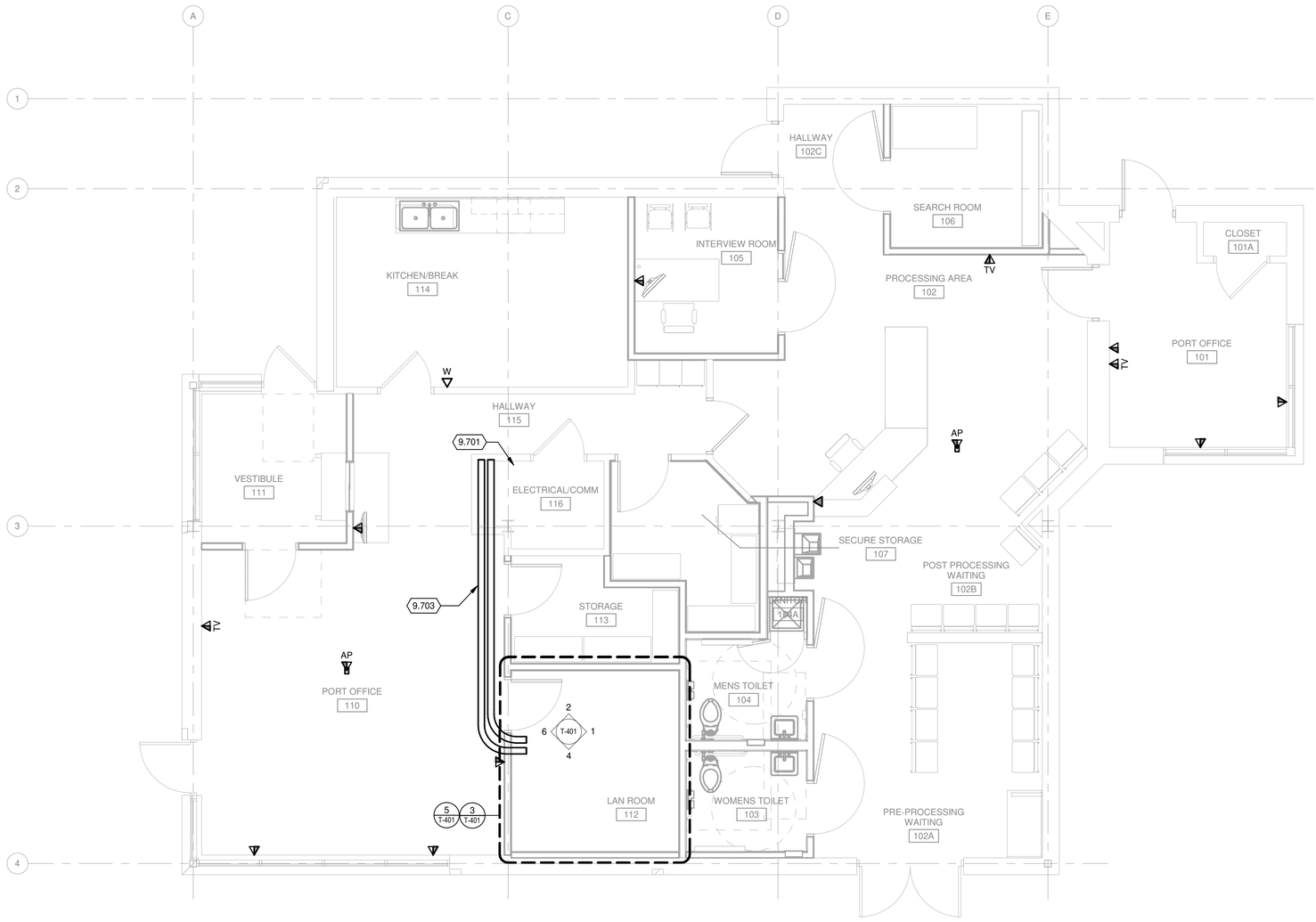
KEYED NOTES

9.701 EXISTING DEMARC LOCATION.

9.703 (2) 4" CONDUITS FROM ELECTRICAL ROOM 116 TO LAN ROOM 112. REFER TO DIVISION 07 SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.



TRUE NORTH PLAN NORTH

1 FIRST FLOOR COMMUNICATIONS PLAN

1/4" = 1'-0"

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SHEET CONTENTS
FIRST FLOOR COMMUNICATIONS PLAN

SHEET NO.:

T-101

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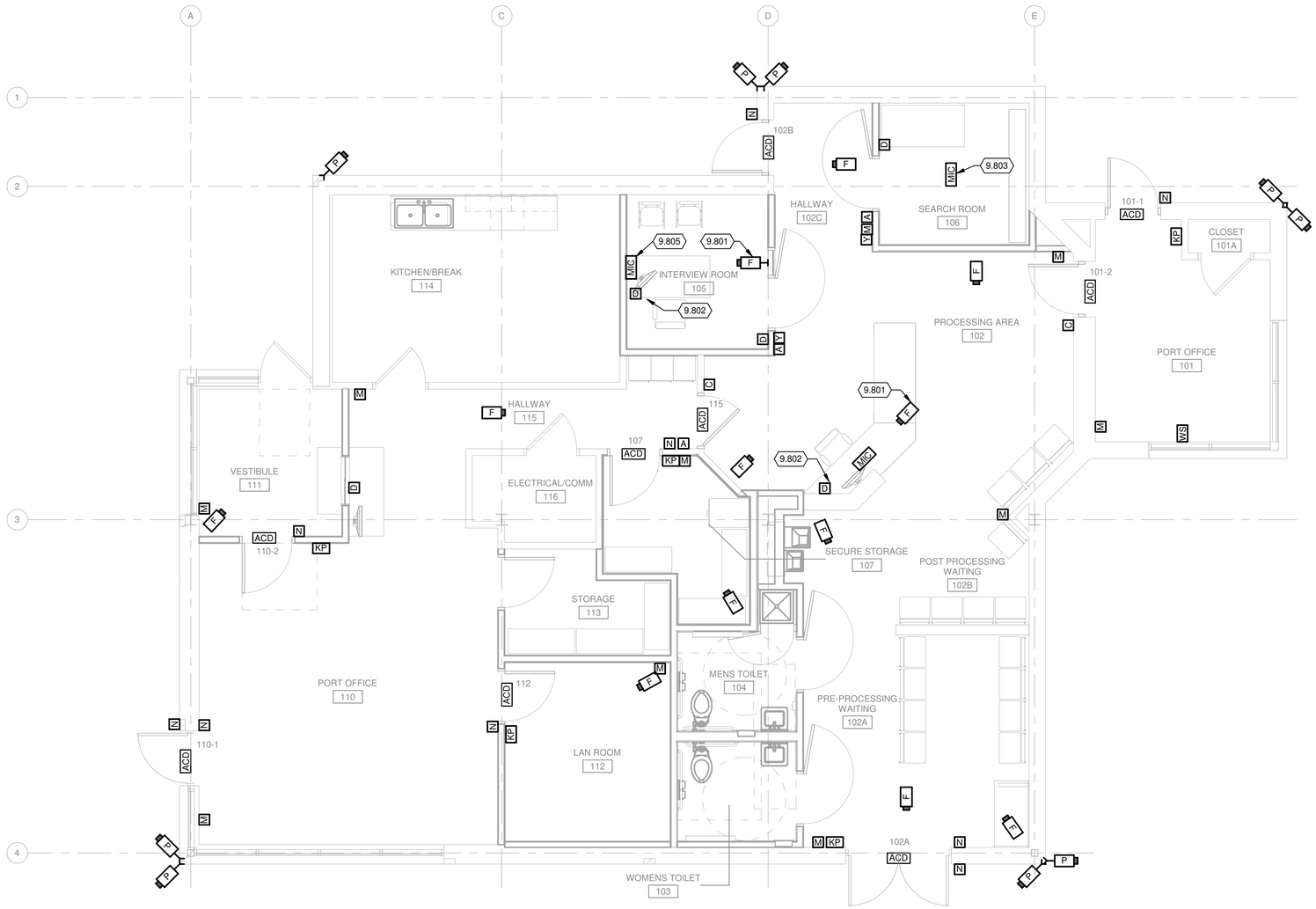
KEYED NOTES

9.801 PROVIDE CAMERA WITH AUDIO CAPABILITIES. MICROPHONE TO BE LOCATED AT DESK LOCATION.

9.802 DURESS BUTTON TO BE MOUNTED UNDER DESK CONCEALED FROM PUBLIC VIEW.

9.803 CEILING MOUNT MICROPHONE

9.805 WALL MOUNT MICROPHONE. INTEGRATE WITH IN ROOM CAMERA. MOUNT MICROPHONE 6" ABOVE TOP OF DESK.



TRUE NORTH PLAN NORTH

1 FIRST FLOOR SECURITY PLAN

1/4" = 1'-0"

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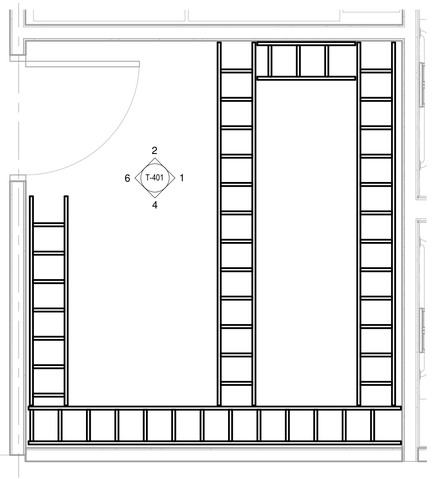
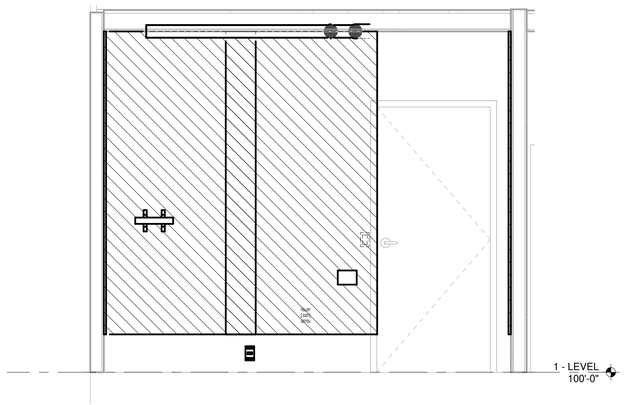
SHEET CONTENTS
FIRST FLOOR SECURITY PLAN

SHEET NO.:
T-121

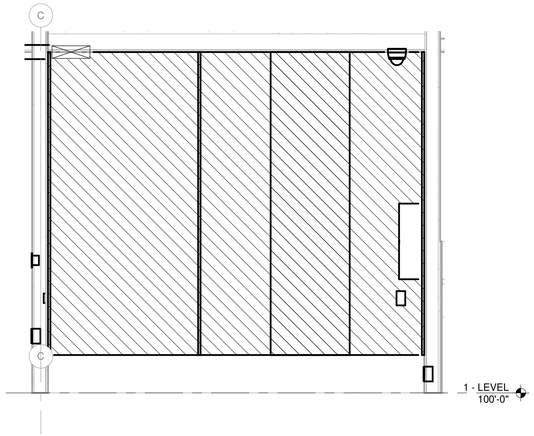
1/11/2021 1:41:20 PM C:\Revit Local\3225600-192560 02-T-R20_Kyra.UrbanOAY5K.rvt



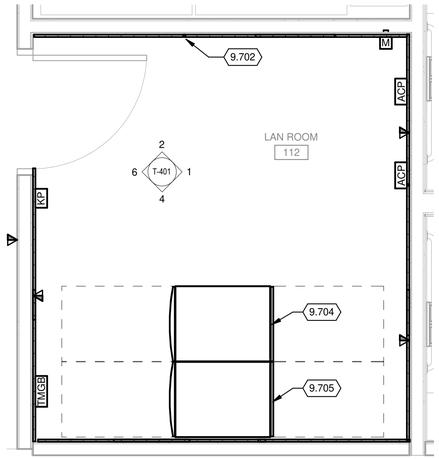
5 LAN ROOM 112 - CABLE TRAY
1/2" = 1'-0"



6 LAN ROOM 112 - WEST ELEVATION
1/2" = 1'-0"

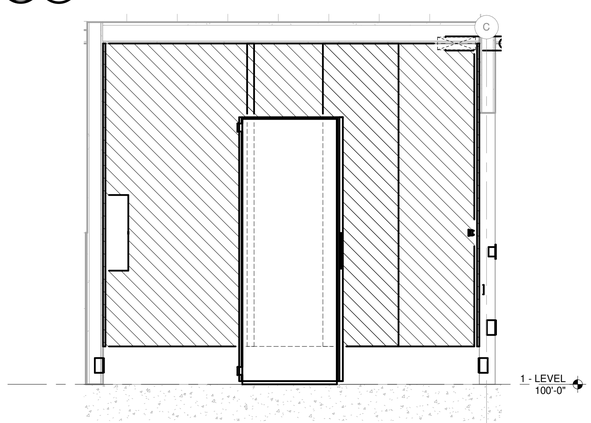


2 LAN ROOM 112 - NORTH ELEVATION
1/2" = 1'-0"

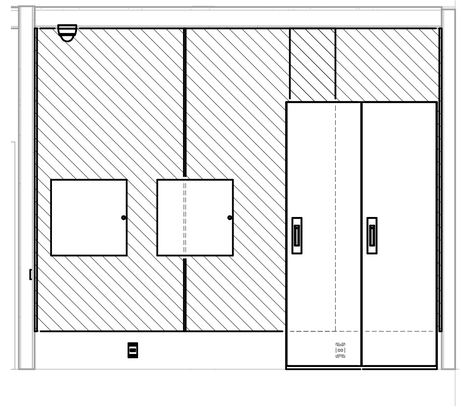


TRUE NORTH PLAN NORTH

3 LAN ROOM 112
1/2" = 1'-0"



4 LAN ROOM 112 - SOUTH ELEVATION
1/2" = 1'-0"



1 LAN ROOM 112 - EAST ELEVATION
1/2" = 1'-0"

KEYED NOTES

9.702 3/4" AC GRADE FIRE RATED PLYWOOD.

9.704 SECURITY CABINET.

9.705 LAN CABINET.

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SHEET CONTENTS
ENLARGED PLANS, ELEVATIONS & SECTIONS

SHEET NO.:
T-401

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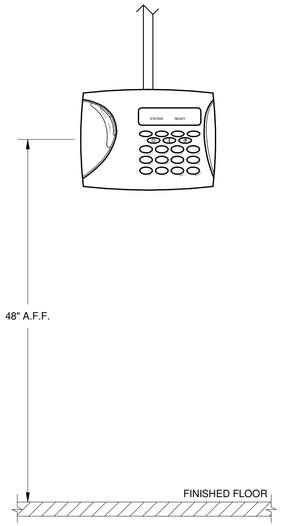
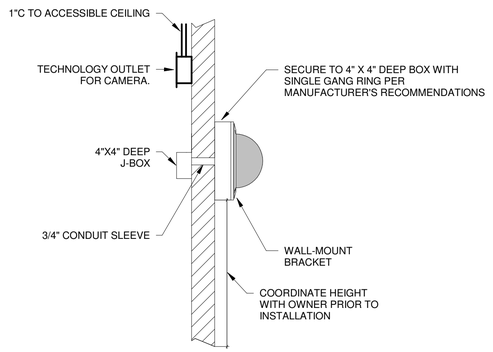
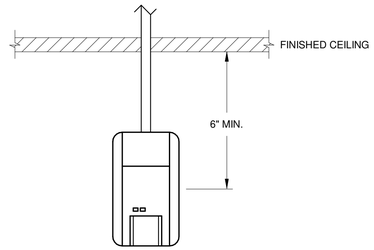


7 SURFACE MOUNTED KEYPAD DEVICE
1/8" = 1'-0"



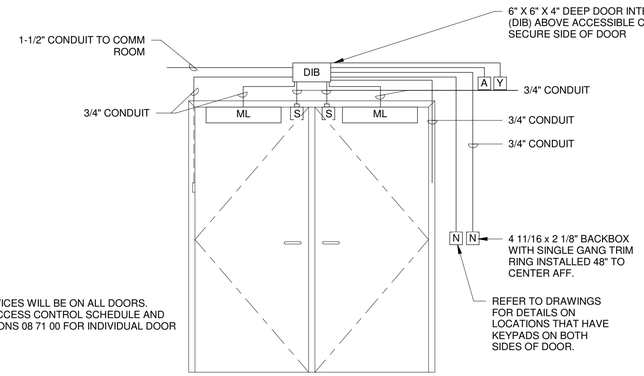
9 CAMERA DOME - INTERIOR WALL
NO SCALE



NOTES:

1. LOCATE UNIT SO THE EXPECTED INTRUDER MOVEMENT IS ACROSS THE DETECTION PATTERN FIELDS
2. DO NOT LOCATE UNIT ON A SURFACE EXPOSED TO MOISTURE.
3. DO NOT LOCATE UNIT IN ANY AREA CONTAINING EXCESSIVE METALLIC SURFACES.
4. DO NOT LOCATE UNIT WHERE IT MAY BE EXPOSED TO FALSE ALARM SOURCES SUCH AS: DIRECT SUNLIGHT, HEAT SOURCES (HEATERS, RADIATORS, ETC.) IN THE FIELD OF VIEW OR STRONG AIR DUCTS (FANS, AIR CONDITIONER, ETC.)
5. DO NOT LOCATE UNIT WHERE AMBIENT TEMPERATURE IS BELOW 32°F (0°C) OR ABOVE 131°F (55°C).

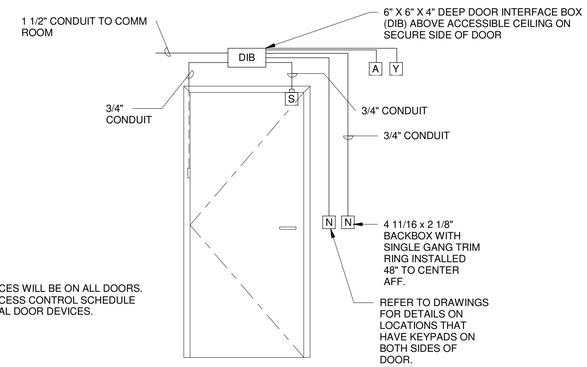
4 SURFACE MOUNTED INFRARED MOTION DETECTOR
NO SCALE



NOTES:

NOT ALL DEVICES WILL BE ON ALL DOORS. REFER TO ACCESS CONTROL SCHEDULE AND SPECIFICATIONS 08 71 00 FOR INDIVIDUAL DOOR DEVICES.

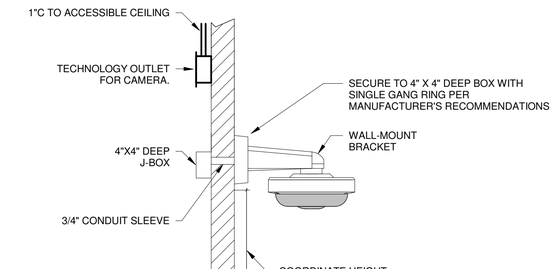
5 ACD - DOUBLE DOOR - MULLION
NO SCALE



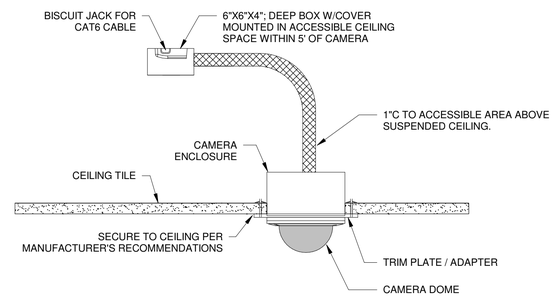
NOTES:

NOT ALL DEVICES WILL BE ON ALL DOORS. REFER TO ACCESS CONTROL SCHEDULE FOR INDIVIDUAL DOOR DEVICES.

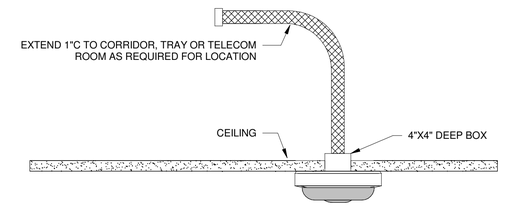
6 ACD - SINGLE DOOR
NO SCALE



1 CAMERA DOME - EXTERIOR WALL
NO SCALE



2 CAMERA DOME - ACOUSTICAL CEILING
NO SCALE



3 CAMERA DOME - GYP CEILING
NO SCALE

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4459 WEST 12TH STREET
ERIE, PENNSYLVANIA 16505

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BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
JASON MCCANN
BICSI ID# 211615
EXPIRES 12-31-22
RCDD
1/13/2021

ISSUED FOR CONSTRUCTION

M&H NO.:	R3225600-192560
DATE:	01/13/2021
DESIGNED BY:	JRM
DRAWN BY:	KLU
CHECKED BY:	JMV

DO NOT SCALE DRAWINGS

SHEET CONTENTS
DETAILS

SHEET NO.:
T-501

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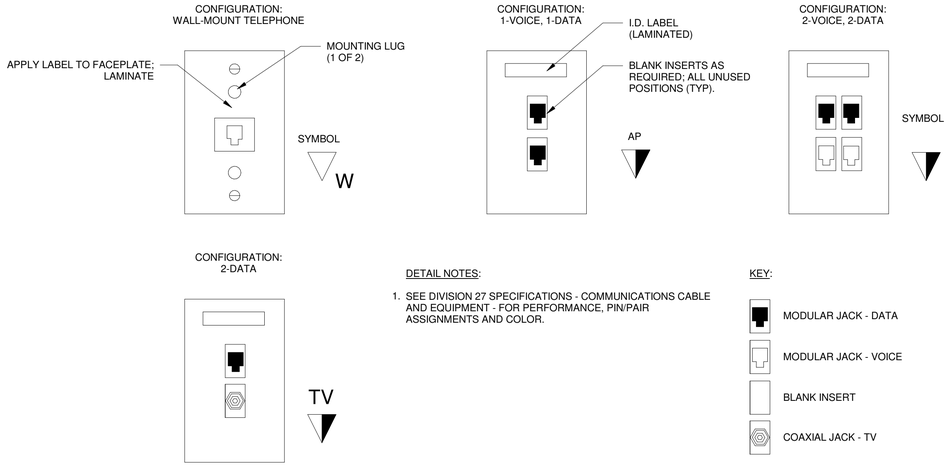


DETAIL NOTES:

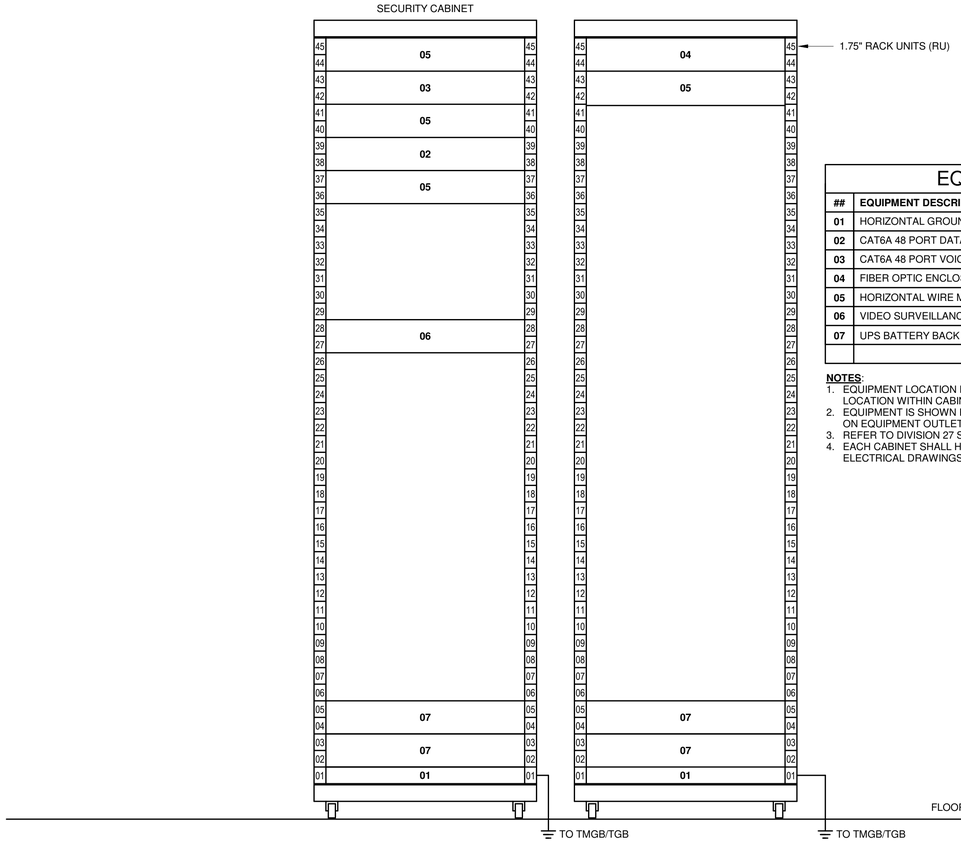
1. SEE DIVISION 27 SPECIFICATIONS - COMMUNICATIONS CABLE AND EQUIPMENT - FOR PERFORMANCE, PIN/PAIR ASSIGNMENTS AND COLOR.

KEY:

- MODULAR JACK - DATA
- MODULAR JACK - VOICE
- BLANK INSERT
- COAXIAL JACK - TV

1 TELECOMMUNICATIONS OUTLET LAYOUTS

12" = 1'-0"



EQUIPMENT SCHEDULE	
##	**EQUIPMENT DESCRIPTION**
01	HORIZONTAL GROUND BUS BAR
02	CAT6A 48 PORT DATA PATCH PANEL
03	CAT6A 48 PORT VOICE PATCH PANEL
04	FIBER OPTIC ENCLOSURE
05	HORIZONTAL WIRE MANAGEMENT
06	VIDEO SURVEILLANCE NVR
07	UPS BATTERY BACK UP

NOTES:

1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT. COORDINATE ACTUAL LOCATION WITHIN CABINET WITH OWNER PRIOR TO INSTALLATION.
2. EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES WILL BE BASED ON EQUIPMENT OUTLETS INSTALLED.
3. REFER TO DIVISION 27 SPECIFICATIONS FOR WIRE MANAGEMENT REQUIREMENTS.
4. EACH CABINET SHALL HAVE A GROUND WIRE DIRECTLY TO TMGB. REFER TO ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.

2 CABINET ELEVATIONS - LAN 112

1 1/2" = 1'-0"

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REMODEL

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ACCESS CONTROLLED DOOR SCHEDULE

DOOR ID	LEVEL	NEW/EXISTING	DETAIL	CREDENTIAL READER		LOCKING MECHANISM	REQUEST TO EXIT	DOOR MONITOR	FAIL OPERATION	AUTOMATIC DOOR OPERATOR	LOCAL ALARMS	FIRE ALARM INTERFACE	POWER TRANSFER	COMMENTS	ADDITIONAL NOTES
				SIDE 1	SIDE 2										
101-1	1 - LEVEL	New Construction	7/T-501	N	*	EL	RX	RM	FS	-	-	-	PT		
101-2	1 - LEVEL	New Construction	7/T-501	C	*	ML	RX	RM	FS	-	-	-	-		
102A	1 - LEVEL	New Construction	6/T-501	N	N	ML	RX	RM	FS	-	A	-	-		
102B	1 - LEVEL	New Construction	7/T-501	N	*	EL	RX	RM	FS	-	-	-	PT		
107	1 - LEVEL	New Construction	7/T-501	N	*	EL	RX	RM	FS	-	A	-	PT		
110-1	1 - LEVEL	New Construction	7/T-501	N	N	ML	RX	RM	FS	-	-	-	-		
110-2	1 - LEVEL	New Construction	7/T-501	N	*	EL	RX	RM	FS	-	-	-	PT		
112	1 - LEVEL	New Construction	7/T-501	N	*	EL	RX	RM	FS	-	-	-	PT		
115	1 - LEVEL	New Construction	6/T-501	C	*	ML	RX	RM	FS	-	-	-	-		

NOTES:
COORDINATE ACCESS CONTROL SCHEDULES WITH SPECIFICATION 08 71 00 DOOR HARDWARE.

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SHEET CONTENTS
SCHEDULES

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T-601

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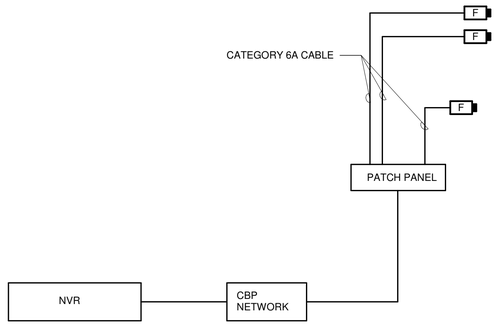
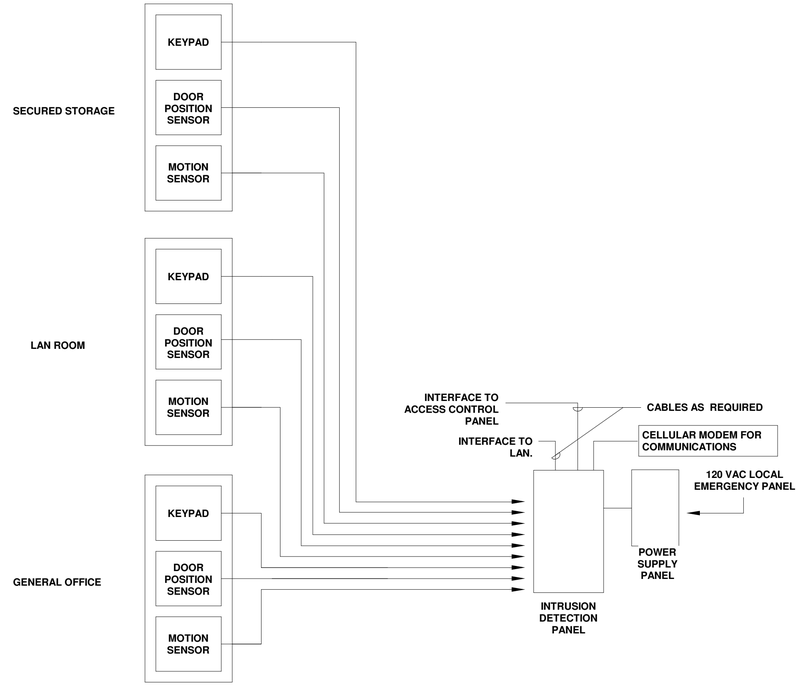


NOTE: CAMERA CABLE TO BE YELLOW

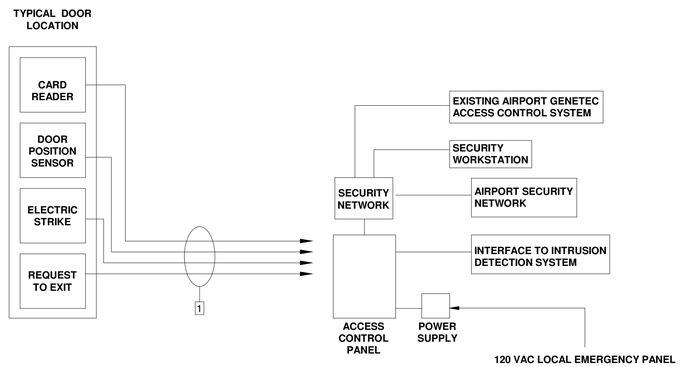
5 CAMERA ONE-LINE DIAGRAM (TYPICAL)
NO SCALE



NOTES:

1. ALL WIRING TO BE IN CONDUIT STUBS AND WIRE MANAGEMENT SYSTEM.
2. EACH ZONE NEEDS TO BE INDEPENDENTLY CONTROLLED.
3. SYSTEM SHALL BE CAPABLE TO BE MONITORED 24/7 BY STAFFED POSITION.
4. NOT ALL DEVICES ARE SHOWN. REFER TO FLOOR PLANS FOR ACTUAL LOCATIONS AND QUANTITIES.

1 INTRUSION DETECTION ONE-LINE DIAGRAM
NO SCALE



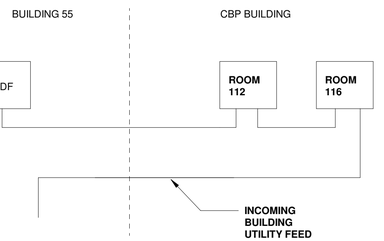
GENERAL NOTES:

ALL WIRING TO BE IN CONDUIT STUBS AND WIRE MANAGEMENT SYSTEM REFER TO SPECIFICATIONS SECTION 28 13 00 FOR MORE INFORMATION.

DETAIL NOTES:

1 **CABLES AND CONNECTORS AS RECOMMENDED BY MANUFACTURER. COORDINATE LOCATION OF PC WITH OWNER.**

2 ACCESS CONTROL ONE-LINE DIAGRAM
NO SCALE



BACKBONE CABLE SCHEDULE				
CROSS -SECTION	COPPER PAIRS	MULTI-MODE FOC	SINGLE-MODE FOC	REMARKS
MAIN TERMINAL MDF TO CBP RM 112			12 STRAND OS2	
CBP RM 116 TO CBP RM 112	25		N/A	
UTILITY FEED TO CBP RM 116	25		N/A	FEED IS EXISTING TO REMAIN
			N/A	

3 BACKBONE
NO SCALE

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ONE-LINES

SHEET NO.:
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