VA WILKES-BARRE MEDICAL CENTER

EXPAND EXISTING ONCOLOGY

1111 EAST END BLVD,
WILKES-BARRE, PA 18711

ISSUED FOR BID
03/19/2013

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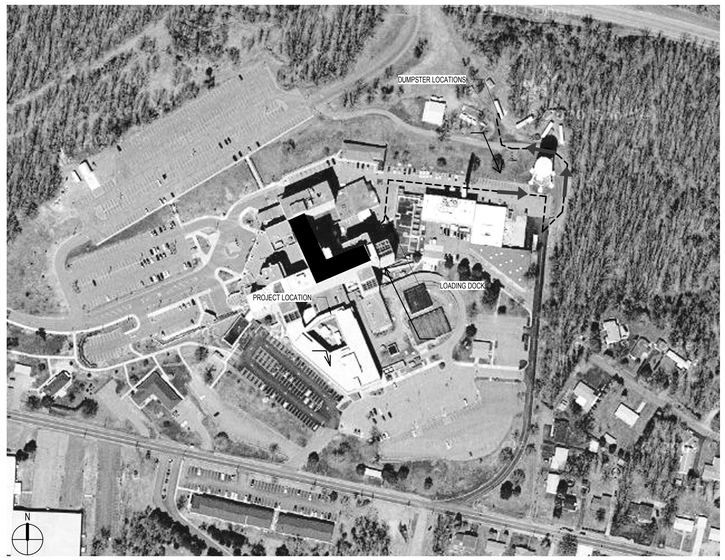

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	AS NOTED

Drawing Title: COVER SHEET

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: GI-001

Dwg. 01 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

ARCHITECTURAL GENERAL NOTES

1. PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED AS PART OF THE WORK. THE SPECIFICATIONS, DRAWINGS AND ADDITIONAL OWNER PROVIDED INFORMATION INCLUDE THE ENTIRE WORK. WHERE ITEMS OF MATERIAL, EQUIPMENT AND LABOR ARE REFERRED TO IN THE SINGULAR, SUCH ITEM OR ITEMS SHALL BE PROVIDED IN THE NUMBER NECESSARY FOR THE PROPER COMPLETION OF THE WORK. THE DRAWINGS ARE A GRAPHIC REPRESENTATION OF THE SCOPE, LOCATION AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHOWING THE EXECUTION OF THE WORK. THE INTENT OF THE SPECIFICATIONS IS TO OUTLINE OR INDICATE THE ITEMS OF WORK, OR OTHER, WHICH CANNOT READILY BE SHOWN ON THE DRAWINGS, AND FURTHER TO INDICATE THE TYPES AND QUALITIES OF MATERIALS AND WORKMANSHIP. SHOULD THE SPECIFICATIONS AND DRAWINGS DISAGREE IN THEMSELVES, OR WITH EACH OTHER, WRITTEN CLARIFICATIONS SHOULD BE REQUESTED OF THE ARCHITECT BY THE CONTRACTOR.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, HVAC PIPING, SPRINKLER, PLUMBING, STRUCTURAL AND GENERAL ARCHITECTURE. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CM/GC AND THE ARCHITECT, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

3. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODE AND ALL APPLICABLE COUNTY, CITY, STATE, FEDERAL LAWS AND REGULATIONS. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY CODES; ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CM/GC AND THE ARCHITECT AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

4. ANY UTILITY SHUT-OFFS AS REQUIRED BY CONTRACTORS FOR THE COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, WATER, SEWER, STEAM, SPRINKLER, ETC., MUST BE SCHEDULED THROUGH THE PROJECT ENGINEER AND GC PRIOR TO COMMENCEMENT OF THE WORK. 72 HOURS NOTICE MUST BE GIVEN.

5. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE CONSTRUCTION. ALL THE WORK SHALL BE INSTALLED WITH QUALITY WORKMANSHIP IN ACCORDANCE WITH INDUSTRY STANDARDS AND BE IN PROPER WORKING ORDER.

6. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR REGULATIONS INCLUDING, BUT NOT LIMITED TO, ELEVATOR USE, RUBBISH REMOVAL, PROTECTION OF BASE BUILDING CONSTRUCTION, AND ANY WORK WHICH WILL AFFECT OTHER PARTS OF THE BUILDING.

7. THE CONTRACTOR SHALL PROVIDE CHASES FOR MECHANICAL, PLUMBING, AND ELECTRICAL AS NECESSARY TO CONCEAL M.E.P. WORK. PIPING LOCATED INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL GAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING "FURRED SPACES" NOT INDICATED ON THE FLOOR PLANS.

8. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN WALLS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL HAVE THE SAME FIRE RATING OF THE WALL, SOFFIT OR CEILING IN WHICH THEY OCCUR. ALSO, PROVIDE 12"X12" ACCESS PANELS AT DRYWALL CEILINGS TO PROVIDE ACCESS TO RATED PARTITIONS (30'-0" O.C. MAX OR 1 PER ROOM MINIMUM.).

9. EACH CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS FOR THE PROPER STORAGE OF BUILDING MATERIALS ON THE SITE TO AVOID OVERLOADING THE FLOOR OR IMPEDING WITH COMPLETION OF THE WORK. MATERIALS ARE TO BE PROPERLY DISPERSED OVER BEAMS BETWEEN COLUMNS.

10. WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS FOR THIS WORK WHETHER OR NOT SHOWN AND/OR SPECIFIED.

11. ALL MATERIALS, METHODS OF INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

CONTRACTOR RESPONSIBILITIES WITH REGARD TO EXISTING CONDITIONS NOTES

1. INFORMATION CONTAINED ON THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS OF CONSTRUCTION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR IN EXECUTING THE NEW WORK. EVERY ATTEMPT HAS BEEN MADE TO PROVIDE COMPLETE AND ACCURATE REPRESENTATION OF SUCH EXISTING CONDITIONS. THIS INTERPRETATION HAS BEEN TAKEN FROM DRAWINGS SUPPLIED BY OWNER AND HAS BEEN FURTHER SUPPLEMENTED WITH FIELD-MEASUREMENTS AND OBSERVATIONS. THE INFORMATION CONTAINED IN THESE DRAWINGS, WITH REGARD TO THE EXISTING CONDITIONS OF CONSTRUCTION IN NO WAY RELEASES THE CONTRACTOR FROM THE RESPONSIBILITY FOR VERIFYING COMPLETELY ALL FIELD CONDITIONS RELATING TO THE EXECUTION OF THE WORK, AS DESCRIBED IN THESE CONTRACT DOCUMENTS.

3. NO GUARANTEE IS MADE AS TO THE GENERAL CONDITIONS OF THE EXISTING BUILDING. THE CONTRACTOR SHALL FIELD VERIFY AND DOCUMENT ALL EXISTING DIMENSIONS, ELEVATIONS, BENCHMARKS, MATERIALS, UTILITIES AND CONSTRUCTION TYPE THAT MAY AFFECT OR BE AFFECTED BY NEW WORK, AND SHALL COORDINATE SUCH FIELD VERIFICATION WITH THE CONTRACT DOCUMENTS AND THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS AND BRING THEM TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

4. THE CONTRACTOR SHALL FIELD-VERIFY THE EXISTING CONDITIONS AS THEY RELATED TO SPECIFIC PORTIONS OF THE WORK. VERIFICATION SHALL BE UNDERTAKEN IN ADVANCE TO ALLOW FOR THE TIMELY IDENTIFICATION OF EXISTING CONDITIONS THAT MAY AFFECT THE SCHEDULED INSTALLATION OF NEW WORK AS DESIGNED AND DETAILED, AND TO AVOID UNDUE AND UNREASONABLE DELAYS TO THE PROJECT SHOULD SUCH CONDITIONS BE DISCOVERED. TIMELY IDENTIFICATION OF SUCH CONDITIONS SHALL PROVIDE FOR A MINIMUM PERIOD OF TEN (10) WORKING DAYS DURING WHICH TIME THE ARCHITECT WILL EVALUATE THE CONDITIONS AND MAKE RECOMMENDATIONS FOR ACCOMMODATING NEW WORK.

5. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION AND EXTENT OF THE LIFE SAFETY SYSTEM (INCLUDING BUT NOT LIMITED TO SPRINKLER SYSTEMS, SMOKE DETECTION SYSTEMS, EMERGENCY LIGHTING SYSTEMS) AS THEY MAY BE AFFECTED BY THE NEW WORK. THE CONTRACTOR IS RESPONSIBLE FOR ACCOMMODATING THESE SYSTEMS WHEN AFFECTED BY NEW WORK SO THAT ALL APPLICABLE CODES REQUIREMENTS ARE SATISFIED.

6. THE AREAS ADJACENT TO THE PROJECT ARE CURRENTLY OCCUPIED, AND MUST REMAIN COMPLETELY OPERATIONAL DURING THEIR BUSINESS HOURS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY CONSTRUCTION ACTIVITIES WHICH MAY IMPEDE THEIR NORMAL OPERATIONS, INCLUDING ANY ACTIVITY WHICH CREATES EXCESSIVE NOISE, AND NOTIFY ANY OCCUPANTS OF THE BUILDING OF ANY CONSTRUCTION ACTIVITIES WHICH MAY AFFECT THEIR ABILITY TO OPERATE NORMALLY.

7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED AND SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

8. THE CONTRACTOR SHALL IDENTIFY POINTS OF ACCESS TO THE BUILDING AND VERIFY MINIMUM CLEARANCES AVAILABLE FOR USE IN TRANSPORTING NECESSARY CONSTRUCTION MACHINERY, EQUIPMENT, MATERIALS, AND COMPONENTS INTO THE BUILDING. USE OF SUCH POINTS OF ACCESS SHALL BE APPROVED BY THE OWNER.

9. THE CONTRACTOR SHALL IDENTIFY EXISTING COMPONENTS AND ASSEMBLIES WITHIN THE BUILDING THAT ARE CONSTRUCTED AS FIRE-RATED ASSEMBLIES; SHALL NOTE ANY DISCREPANCIES AND/OR CONFLICTS INVOLVING EXISTING CONDITIONS AND BRING THEM TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

10. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE BUILDING IN A WEATHER TIGHT CONDITION.

11. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW UTILITY LINES ON OR ADJACENT TO THE SITE AND NOTIFY ALL UTILITY COMPANIES WHEN WORK IS BEING CARRIED OUT NEAR THEIR LINES.

12. THE CONTRACT LIMIT OF WORK SHOWN ON DRAWINGS IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINER BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER INTERFACE BETWEEN EXISTING AND NEW WORK.

MATERIAL LEGEND

SECTIONS

- ACOUSTICAL TILE
- ALUMINUM (3/4 SCALE OR LARGER)
- BATT OR BLANKET INSULATION
- CERAMIC OR QUARRY TILE
- CONCRETE
- CONCRETE MASONRY UNIT
- CRUSHED STONE OR GRAVEL
- E.I.F.S. (EXTERIOR INSULATION AND FINISH SYSTEM)
- FACE BRICK
- FINISHED WOOD (FOR LARGE SCALE DETAILS)
- FIRE SAFING
- MEDIUM DENSITY FIBERBOARD
- PHENOLIC PANEL
- PLASTER, CEMENT, MORTAR OR G.W.B.
- PLYWOOD VENEER
- PRE-CAST CONCRETE
- RIGID INSULATION
- ROUGH WOOD (ALL BLOCKING AND FRAMING LUMBER)
- SHIM
- SPRAY-ON FIREPROOFING
- STEEL (3/4 SCALE OR LARGER)
- STONE: GRANITE OR MARBLE

CONTRACTOR GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL MEET WITH THE COTR PRIOR TO SUBMITTING A BID ON THIS PROJECT AND AT OTHER TIMES AS REQUIRED BY THE COTR TO VERIFY AND REVIEW REGULATIONS AND BUILDING PROCEDURES.

2. THE DRAWINGS AND SPECIFICATIONS ARE ONLY TO DEPICT THE GENERAL NATURE OF THE WORK AND SHOW THE GENERAL EXTENT OF THE PROJECT, AND DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS, NOR DO THEY SHOW ALL OF THE CONDITIONS WHICH MAY BE ENCOUNTERED TO PROPERLY EXECUTE THE WORK. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL WORK ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

3. NO GUARANTEE IS MADE AS TO THE GENERAL CONDITIONS OF EXISTING CONSTRUCTION. THE DEGREE OF VARIANCE FROM PLUMB, LEVEL, FLAT, AND/OR SOUND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ARCHITECT SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF VARIANCE WILL EFFECT DESIGN INTENT OR COMPLIANCE WITH THE QUALITY STANDARDS HEREIN.

4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGED BASE BUILDING AREAS CAUSED AS A RESULT OF WORK PERFORMED IN CONNECTION WITH THIS CONTRACT.

5. THE CONTRACTOR SHALL PERFORM A SITE VISIT. IN DOING SO THE CONTRACTOR HAS AGREED THAT HE HAS INVESTIGATED THE EXISTING CONDITIONS TO BE RENOVATED AND COMPARE THEM TO THE WORK TO BE PERFORMED ACCORDING TO THE CONSTRUCTION DOCUMENTS.

6. CONSTRUCTION BIDS SHALL BE SUBMITTED INCLUDING ANY AND ALL COSTS NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THESE DOCUMENTS AND WITHIN A CONSTRUCTION SCHEDULE AGREED UPON BY THE OWNER.

7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ELEVATOR AND/OR LOADING DOCK USE FOR DELIVERY OF MATERIALS WITH THE OWNER AND SHALL INCLUDE ANY FEE FOR THE OPERATION OF SAME IN HIS BID.

8. THE CONTRACTOR SHALL TURN THE WORK OVER IN CLEAN CONDITION INSIDE AND OUTSIDE. CLEANUP SHALL INCLUDE REMOVAL OF SMUDGES, MARKS, STAINS, FINGERPRINTS, SOIL, DIRT, PAINT, DUST, LINT, LABELS, DISCOLORATIONS AND OTHER FOREIGN MATERIALS. CLEAN ALL FINISHED SURFACES INSIDE AND OUTSIDE OF BUILDINGS, SUCH AS, BUT NOT LIMITED TO, FLOORS, WALLS, CEILINGS, WINDOW GLASS, DOORS, FIXTURES, HARDWARE AND EQUIPMENT. CLEAN ALL WORK ON THE SITE SUCH AS, BUT NOT LIMITED TO, WALKS, DRIVES, CURBS, PAVING, FENCES, GROUNDS, AND WALLS. SLICK SURFACES SHALL BE LEFT WITH A CLEAR SHINE. REMOVE ALL TEMPORARY FACILITIES AND JOB SIGN, INCLUDING SURFACE MATERIALS FOR TEMPORARY ROADS AND WALKWAYS. REPAIR ALL AREAS DAMAGED DURING THE WORK. IT SHALL BE UNDERSTOOD BY THE CONTRACTOR THAT THE QUALITY OF CLEANING AND POLISHING REQUIRED FOR ACCEPTANCE OF EACH AREA SHALL BE IN ACCORDANCE WITH THE INTENDED USE OF EACH AREA AND MAY BE IN EXCESS OF THE NORMAL PRACTICES OF THE CONSTRUCTION INDUSTRY.

9. THE CONTRACTOR SHALL PROVIDE LARGE VOLUME WASTE CONTAINERS ON THE SITE WITHIN THE CONSTRUCTION AREA AS REQUIRED. IN MUNICIPALITIES WHERE RECYCLING IS REQUIRED BY ORDINANCE, PROVIDE AN APPROPRIATE NUMBER OF CONTAINERS TO ALLOW SEPARATION OF MATERIAL. AT THE END OF EACH WORKING DAY ALL DEBRIS RESULTING FROM THE DAY'S WORK SHALL BE TRANSPORTED TO AND PLACED IN THE APPROPRIATE WASTE CONTAINERS.

10. THE CONTRACTOR SHALL PROVIDE FIRE PROTECTION AT EACH WASTE CONTAINER AS REQUIRED BY LOCAL AUTHORITIES.

11. THE CONTRACTOR SHALL NOT RELY ON THE ARCHITECT TO DISCOVER DEFECTS AND DEFICIENCIES IN THE WORK AND SHALL NOT BE RELIEVED OF ANY OBLIGATION BECAUSE OF ANY ACT OR OMISSION OF THE ARCHITECT.

12. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL WORK FROM VANDALISM, THEFT AND OTHER DAMAGE, AND SHALL PROTECT THE OWNER'S PROPERTY AND ADJACENT PROPERTY FROM DAMAGE. PROTECTION OF THE PROPERTY UNDER THE CONTRACTOR'S CONTROL AT ALL TIMES IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY LOSS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

13. WHENEVER IT IS NECESSARY TO PROVIDE TEMPORARY "PATHS OF EGRESS" THROUGH THE AREAS OF THE WORK, SUCH PATHS SHALL BE PROVIDED BY THE CONTRACTOR WITH ADEQUATE ARTIFICIAL LIGHT, DIRECTION SIGNS, CLEARANCES, FIRE PROTECTION, ETC., AND SHALL BE CONSTRUCTED AND MAINTAINED SAFE FROM FIRE, SMOKE, AND OTHER PHYSICAL DANGERS.

14. THE CONTRACTOR SHALL PROVIDE FIRE [PREVENTION SYSTEM AND ADEQUATE FIRE EXTINGUISHERS AT ALL LEVELS OF THE STRUCTURE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL MAINTAIN SUCH EQUIPMENT IN WORKING ORDER THROUGHOUT CONSTRUCTION. THE TYPE, QUANTITY AND LOCATION OF THIS EQUIPMENT SHALL BE REASONABLY ADEQUATE TO SUIT THE CONDITIONS AND COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES.

SYMBOL LEGEND

ROOM INDICATION
ROOM NAME — ROOM NAME
101 — ROOM NUMBER

NORTH ARROW
N — PLAN NORTH
TRUE NORTH

DOOR SYMBOL
101

WINDOW SYMBOL
1 — WINDOW TYPE OR VISION PANEL
ON ELEVATION — IN PLAN

BUILDING WALL SECTION INDICATION
1 — SECTION NUMBER
A101 — SHEET WHERE SHOWN

ELEVATION INDICATION
F2, A201 — INTERIOR AND/OR EXTERIOR
A1, A4, A201, A2, A3 — MULTIPLE INTERIOR

FIRE EXTINGUISHER CABINET
F.E.C

DETAIL INDICATION
AREA DETAILED
SIM — DETAIL NUMBER
1, A101 — SHEET WHERE SHOWN

REVISION INDICATION
REVISION NUMBER
1

ALIGN WITH EXISTING CONSTRUCTION
A

PARTITION TYPE SYMBOL
PARTITION TYPE

EQUIPMENT DESIGNATION
(SEE EQUIPMENT MANUAL)
001 — EQUIPMENT TYPE

CEILING HEIGHT
10' 0" A.F.F.

FINISH SYMBOLS
ROOM FINISH TAG
INI# 101
NAME
CEILING: CEILING FINISH
WALL: WALL FINISH
FLOOR: FLOOR FINISH
BASE: BASE FINISH
CG — DENOTES CORNER GUARD LOCATION

LINETYPE SYMBOLS
1, A — EXISTING COLUMN GRID
LIMIT OF WORK
CENTER LINE / ELEVATION LINE
WORK ABOVE, BEYOND OR TO BE REMOVED
BUMPER GUARD, CHAIR RAIL, HAND RAIL FOR LOCATION SEE PLANS
ALTERNATE LIMIT OF WORK
BREAK LINE
CONSTRUCTION WASTE MANAGEMENT ROUTE

MATCHLINE
AREA A, A102 — INDICATOR OF AREA SHOWN ON DRAWING
SHEET NUMBER OF ADJACENT DRAWING

KEYNOTE SYMBOL
D2 — KEYNOTE INDICATOR

EXISTING DOOR DESIGNATION
EXISTING DOOR

NEW DOOR DESIGNATION
NEW DOOR

EMERGENCY DOOR DESIGNATION
NEW DOOR
EMERGENCY SWING

DOUBLE EGRESS DOOR DESIGNATION
NEW DOOR

STARTING POINT
STARTING POINT

ELEVATION TAG
Name
Elevation

GENERAL DIMENSIONING
0'-0" — COLUMN GRID CENTERLINE INDICATOR
0'-0" — FACE OF SURFACE INDICATOR

NOTE: DIMENSIONS ARE TAKEN FROM/TO FINISH SURFACE, UNLESS OTHERWISE NOTES.

0'-0" ±

NOTE: THE ± INDICATES A DIMENSION THAT CAN VARY. (NOTIFY THE ARCHITECT OF ANY CHANGE IN THAT DIMENSION IF IT IS GREATER THAN 1")

0'-0"
VIF

NOTE: EXISTING DIMENSIONS INDICATED AS [0'-0"] OR WITH (VIF) ARE SUPPLIED TO THE ARCHITECT BY OTHERS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. (SEE "GENERAL CONTRACTOR RESPONSIBILITIES WITH RESPECT TO EXISTING CONDITION NOTES")

DRAWING LIST

SHEET NUMBER	SHEET NAME	ISSUED FOR 100%
GI-001	COVER SHEET	*
GI-002	DRAWING LIST, DOCUMENT CONVENTIONS & NOTES	*
GC-140	PARTIAL THIRD FLOOR ICRA & PHASING PLAN	*
GC-141	PARTIAL FOURTH FLOOR ICRA & PHASING PLAN	*
GC-142	PARTIAL FOURTH FLOOR LIFE SAFETY & OCCUPANCY PLANS	*
S-001	GENERAL NOTES	*
S-141	LEVEL 4 FRAMING PLANS	*
S-151	ROOF-PENTHOUSE FRAMING PLANS	*
S-200	TYPICAL DETAILS	*
S-201	SECTIONS	*
S-202	SECTIONS AND DETAILS	*
AD-131	THIRD FLOOR, PENTHOUSE & ROOF DEMOLITION PLANS	*
AD-141	FOURTH FLOOR DEMOLITION PLANS	*
AE-141	FOURTH FLOOR ARCHITECTURAL & DIMENSION PLANS	*
AE-142	FOURTH FLOOR REFLECTED CEILING PLANS	*
AE-151	PENTHOUSE & ROOF PLANS	*
AE-201	ENLARGED FLOOR PLANS, ELEVATIONS & SCHEDULES	*
AE-202	ENLARGED FLOOR PLANS & ELEVATIONS	*
AE-203	ELEVATIONS	*
AE-204	ENLARGED TOILET PLAN & ELEVATIONS	*
AE-221	SIGNAGE PLAN	*
AE-301	INTERIOR DETAILS	*
AE-302	INTERIOR DETAILS	*
AE-303	INTERIOR DETAILS	*
AE-304	PARTITION TYPES & RATED DETAILS	*
AE-305	DOOR & BORROWED LIGHT FRAME DETAILS & SCHEDULES	*
AF-141	PARTIAL FOURTH FLOOR FINISH PLAN	*
AF-142	PARTIAL FOURTH FLOOR PATTERN PLAN	*
AF-401	FINISH DETAILS & SCHEDULE	*
M-001	MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND	*
MD-131	3RD FLOOR ABOVE CEILING HYDRONIC DEMOLITION PLANS	*
MD-141	4TH FLOOR DUCTWORK DEMOLITION PLANS	*
MD-142	4TH FLOOR HYDRONIC DEMOLITION PLANS	*
MH-131	3RD FLOOR ABOVE CEILING DUCTWORK PLANS	*
MH-141	4TH FLOOR REFLECTED CEILING PLANS	*
MH-142	4TH FLOOR DUCTWORK PLANS	*
MH-151	ROOFTOP MECHANICAL PLANS	*
MP-131	3RD FLOOR ABOVE CEILING HYDRONIC PLANS	*
MP-141	4TH FLOOR HYDRONIC PLANS	*
M-401	PENTHOUSE ENLARGED MECHANICAL PLANS	*
M-402	MECHANICAL SECTIONS	
M-501	MECHANICAL DETAILS	*
M-502	MECHANICAL DETAILS	*
M-503	MECHANICAL DETAILS	*
M-504	CONTROL DETAILS- AHU	*
M-505	CONTROL DETAILS	*
M-506	MECHANICAL SCHEMATICS	*
M-601	MECHANICAL SCHEDULES	*
M-602	MECHANICAL SCHEDULES	*
M-603	MECHANICAL SCHEDULES	*
E-001	ELECTRICAL NOTES, ABBREVIATIONS, LEGENDS AND LIGHT FIXTURE SCHEDULE	*
E-131	PARTIAL 3RD FLOOR ELECTRICAL POWER PLAN AREA B	*
ED-141	4TH FLOOR POWER & COMMUNICATION DEMOLITION PLANS	*
ED-142	4TH FLOOR LIGHTING & FIRE ALARM DEMOLITION PLANS	*
EC-141	4TH FLOOR ELECTRICAL SYSTEMS PLAN	*
EP-141	4TH FLOOR POWER & COMMUNICATIONS PLANS	*
EP-142	4TH FLOOR HVAC POWER PLANS	*
EL-141	4TH FLOOR LIGHTING PLANS	*
E-151	PENTHOUSE ELECTRICAL AND LIGHTING PLANS	*
E-401	ELECTRICAL ENLARGEMENTS	*
E-501	ELECTRICAL DETAILS	*
E-502	ELECTRICAL DETAILS	*
E-601	ELECTRICAL SIGNLE LINE DIAGRAM	*
E-602	PANEL SCHEDULES	*
E-603	PANEL SCHEDULES	*
E-604	PANEL SCHEDULES	*
FA-141	4TH FLOOR FIRE ALARM AND LIFE SAFETY PLANS	*
P-001	PLUMBING NOTES, ABBREVIATIONS, LEGEND AND SCHEDULES	*
PD-141	4TH FLOOR SANITARY DEMOLITION PLAN	*
PD-142	4TH FLOOR DOMESTIC WATER DEMOLITION PLANS	*
PG-141	4TH FLOOR MEDICAL GAS PLANS	*
PP-141	4TH FLOOR SANITARY PLANS	*
PP-142	4TH FLOOR DOMESTIC WATER PLANS	*
PP-151	ROOFTOP PLUMBING PLANS	*
PP-341	4TH FLOOR AREA A PLUMBING ISOMETRICS	*
PP-342	4TH FLOOR AREA B PLUMBING ISOMETRICS	*
PP-501	PLUMBING DETAILS	*
FP-141	4TH FLOOR FIRE PROTECTION DEMOLITION PLAN	*
FP-142	4TH FLOOR FIRE PROTECTION PLANS	*

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Project Number	Scale
3659	As indicated

Drawing Title: DRAWING LIST, DOCUMENT CONVENTIONS & NOTES

Approved: Project Director

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VA Project Number: 693-11-122
Building Number: 1 & 27
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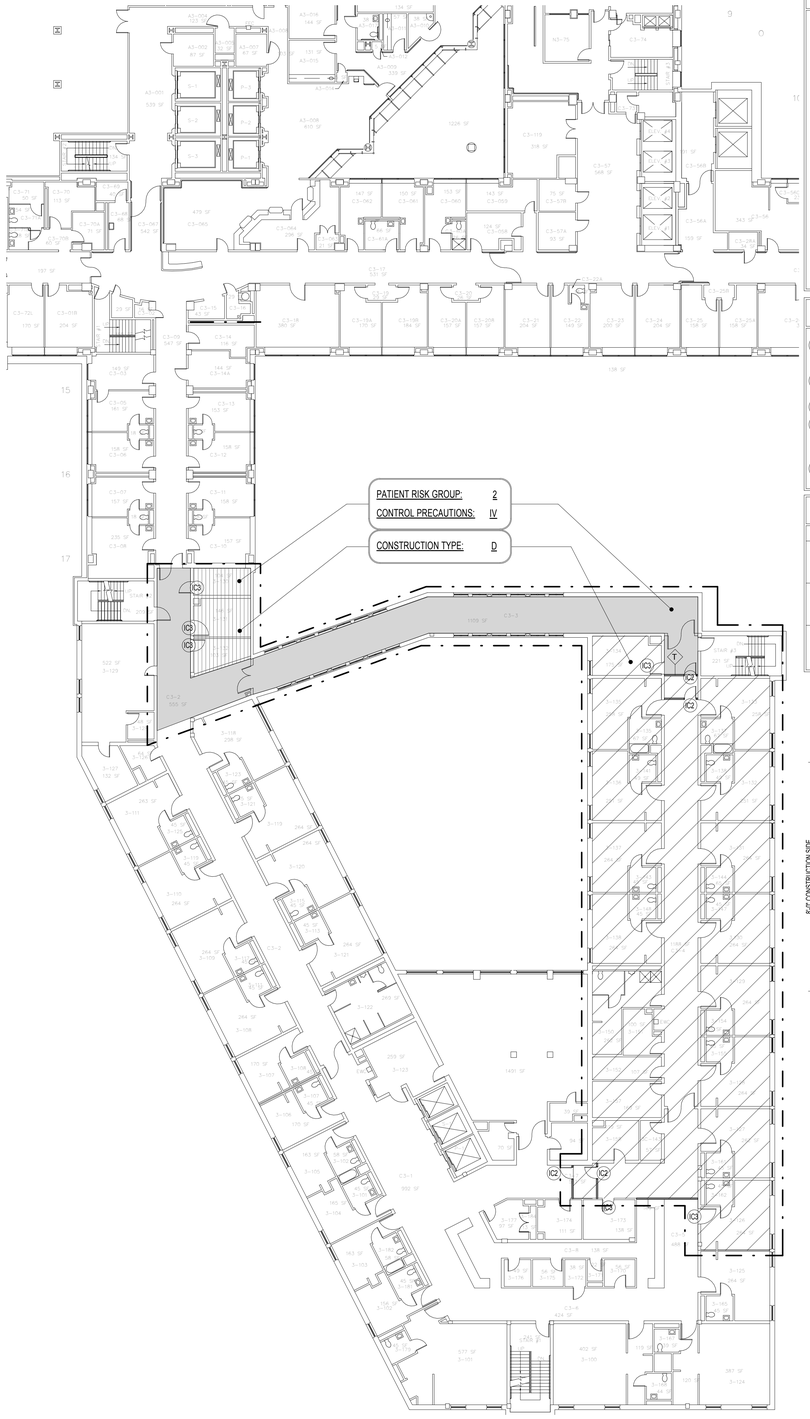
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL THIRD FLOOR ICRA AND PHASING PLAN
1/16" = 1'-0"

PHASING GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH HOSPITAL ANY SHUT-DOWN (MPE, ELEVATOR, BLOCKING OF ENTRANCES) TO INSURE THE OPERATION AND SERVICES OF ALL OCCUPIED AREAS OUTSIDE CONSTRUCTION AREA.

2. CONSTRUCT TEMPORARY PARTITIONS / BARRIERS AS PER SPECIFICATIONS SECTION 01500 FOR POLLUTION CONTROL AND TO SEPARATE CONSTRUCTION WORK FROM OTHER AREAS OF THE BUILDING. ALL TEMPORARY PARTITIONS MUST STAY IN PLACE UNTIL THE CEILING IS INSTALLED AND THE ONLY WORK LEFT TO BE DONE IS MINOR FINISHES AND PUNCH LIST ITEMS.

3. PRIOR TO PARTIAL VA OCCUPANCY OF EACH PHASE, MECHANICAL AND ELECTRICAL SYSTEMS ARE TO BE FULLY OPERATIONAL.

4. PROVIDE SCHEDULE TO C.O.R / ARCHITECT THAT SHOWS THE FOLLOWING:
   - BEGINNING AND END DATES OF EACH PHASE
   - DATES THAT COORDINATE SHUT-DOWN AND TIE-INS
   - ALL OTHER IMPORTANT INFORMATION THAT WILL AFFECT THE OWNERS OCCUPANCY OF AREAS OUTSIDE THE LIMIT OF WORK.

5. NOTIFY IN WRITING TO C.O.R. AND ARCHITECT, WITHIN SEVEN WORKING DAYS, AREAS OF THE BUILDING TO BE TURNED-OVER FOR CONSTRUCTION.

6. PERFORM THE NECESSARY DEMOLITION WORK REQUIRED TO COMPLETE THE NEW WORK ON EACH PHASE. REFER TO DEMOLITION PLANS AND NOTES ON SHEET AD131. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHAT PORTION OF THE OVERALL DEMOLITION WORK IS REQUIRED FOR EACH PHASE.

7. ALL CONSTRUCTION-RELATED WASTE RECEPTACLES TO BE COVERED AT ALL TIMES.

ICRA KEYNOTES

IC1 PROVIDE INFECTION CONTROL PRECAUTIONS / CONTAINMENT SYSTEM AS REQUIRED BY HOSPITAL INFECTION CONTROL REPRESENTATIVE FOR ALL AREAS OUTSIDE THE LIMIT OF WORK.

IC2 PROVIDE TEMPORARY CONSTRUCTION DOOR WITH GASKETING TO PREVENT THE MOVEMENT OF DUST.

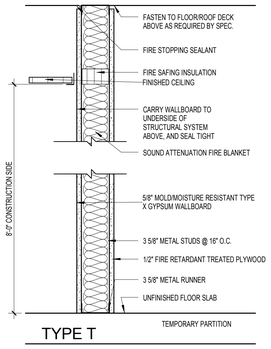
IC3 PROVIDE EXISTING DOOR WITH GASKETING TO PREVENT THE MOVEMENT OF DUST.

IC4 WORK TO BE PERFORMED AFTER HOURS AND ON WEEKENDS. COVER ANY EXPOSED LIVING WORK WITH 6 PLY FIRE-RATED PLASTIC. REPLACE CEILING TILES AND CLEAN AREA. NOTIFY VA 2 WEEKS BEFORE ANY WORK IN THIS AREA IS TO BE PERFORMED.

IC5 UTILIZE TRASH CHUTE FOR DEMOLITION MATERIALS. CONTRACTOR TO COORDINATE WITH INFECTION CONTROL REPRESENTATIVE AND C.O.R.

PHASING LEGEND

PATTERN	PHASE	DESCRIPTION
	#1	PERFORM WORK AFTER EXISTING ASSISTED LIVING AREA IS VACATED AND COORDINATE WITH 4TH FLOOR WORK.
	#2	PERFORM WORK AFTER EXISTING CLINIC HAS BEEN VACATED AND NEW ONCOLOGY IS OPERATIONAL. COORDINATE WITH 4TH FLOOR WORK.
		CORRIDOR WORK TO BE PERFORMED OUTSIDE VA NORMAL WORKING HOURS



TYPE T

CONSTRUCT PARTITION TO BE SOLID AND SEALED AT ENTIRE PERIMETER TO PREVENT THE TRANSMISSION OF DUST

INFECTION CONTROL RISK MITIGATION RECOMMENDATIONS MATRIX OF PRECAUTIONS FOR CONSTRUCTION AND RENOVATION

Type of Construction / Project Activity Table

TYPE A	Inspection and Non-Invasive Activities Includes, but is not limited to: - removal of ceiling tiles for visual inspection limited to 1 tile to 50 square feet - painting (but not sanding), wall covering - electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection
TYPE B	Small scale, short duration activities which create minimal dust Includes, but is not limited to: - installation of telephone and computer cabling - access to chase spaces - cutting of walls or ceiling where dust migration can be controlled
TYPE C	Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies Includes, but is not limited to: - sanding of walls for painting or wall covering - removal of floor coverings, ceiling tiles and casework - new wall construction - minor duct work or electrical work above ceilings - major cabling activities - any activity which cannot be completed within a single work shift
TYPE D	Major demolition and construction projects Includes, but is not limited to: - activities which require consecutive work shifts - requires heavy demolition or removal of a complete ceiling system - new construction

Patient Risk Group Table

Group 1 Low Risk	Group 2 Medium Risk	Group 3 High Risk	Group 4 Highest Risk
- Office areas (non-clinical)	- Cardiology - Echocardiology - Endoscopy - GI - Physical Therapy - Radiology/MRI - Nuclear Medicine - Respiratory Care (except bronchoscopy area) - Cafeteria - Outpatient areas- clinics and offices (exception: transplant and oncology)	- Emergency Room - Post Anesthesia Care Units - Labor and Delivery - Pediatrics - Admission/Discharge area - Laboratories - Pharmacy - Inpatient units (not otherwise specified) at all AEHN locations	- All Operating Rooms including Labor and Delivery - Anesthesia and Pump areas - Central Equipment/Sterile Supply - Cardiac Catheterization and Angiography Areas - Interventional Radiology - Radiation Oncology - All Intensive Care Units - Newborn Nurseries, including NICU - Dialysis Unit - Oncology - inpatient & outpatient - Transplant - inpatient & outpatient - Pharmacy Admixture - Negative Pressure Isolation Rooms/areas (including bronchoscopy area)

Infection Control Matrix - Class of Precautions: Construction Project by Patient Risk

Patient Risk Group	Construction Project Type TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group 1	I	II	II	III/IV
MEDIUM Risk Group 2	I	II	III	IV
HIGH Risk Group 3	I	III	III/IV	IV
HIGHEST Risk Group 4	III	III/IV	III/IV	IV

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

It is the Contractor's Responsibility to provide the following Infection Control Precautions depending upon the Area Class Designation

	During Construction Project	Upon Completion of Project
CL- I	1. Execute work by methods to minimize raising dust from construction operations. 2. Immediately replace a ceiling tile displaced for visual inspection.	1. Wipe surfaces to remove dust.
CLASS II	1. Includes all activities required by Class I 2. Provide active means to prevent airborne dust from dispersing into atmosphere. 3. Water mist work surfaces to control dust while cutting. 4. Seal unused doors with duct tape. 5. Block off and seal air vents. 6. Replace adhesive walk-off mats at entrance and exit of work area. Replace used mats in accordance with manufacturer's recommendations. 7. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system.	1. Wipe work surfaces with disinfectant. 2. Contain construction waste before transport in tightly covered containers. 3. Wet mop and/or vacuum work area with HEPA filtered vacuum before leaving work areas. 4. Remove isolation of HVAC system in areas where work is being performed.
CLASS III	1. Includes all activities required by Class II 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Remove or isolate HVAC system in area where work is being done to prevent contamination of duct system. 4. Complete all critical barriers before construction begins or implement control cube method. 5. Maintain negative air pressure within work site utilizing HEPA-equipped air filtration units. 6. Contain construction waste before transport in tightly covered containers. 7. Cover transport receptacles or carts. Tape covers. 8. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work areas. 9. Remove isolation of HVAC system in areas where work is being performed.	1. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers. 3. Cover transport receptacles or carts. Tape covering. 4. Vacuum work with HEPA-filtered vacuums. 5. Wet mop with disinfectant. 6. Remove isolation of HVAC system in areas where work is being performed.
CLASS IV	1. Includes all activities required by Class III 2. Obtain Infection Control Permit from Hospital Safety Officer or Facilities Management Maintenance and Engineering department before construction begins. 3. Isolate HVAC system in areas where work is being done to prevent contamination of duct system. 4. Complete all critical barriers or implement control cube method before construction begins. 5. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. 6. Seal holes, pipes, conduits, and punctures appropriately. 7. Construct anteroom and require all personnel to pass through this room so they can be vacuumed sing a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that re removed each time they leave the work site. 8. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area. 9. Place adhesive walk-off mats at entrance to work area within anteroom. 10. Replace per manufacturer's recommendations. Do not remove barriers from work area until completed project is inspected each by the Hospital Safety Officer, Facilities Management Maintenance and Engineering Department and thoroughly cleaned by the Hospital Environmental Services Department or their contracted Environmental Service Company Contain construction waste before transport in tightly covered containers. 11. Cover transport receptacles or carts. Tape covering. 12. Vacuum work area with HEPA filtered vacuums. 13. Wet mop with disinfectant after barriers are removed. 14. Remove isolation of HVAC system in areas where work is being performed.	1. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. 2. Contain construction waste before transport in tightly covered containers. 3. Cover transport receptacles or carts. Tape covering 4. Vacuum work area with HEPA filtered vacuums. 5. Wet mop area with disinfectant after barriers are removed. 6. Remove or isolate HVAC system in areas where work was being performed.

FULLY SPRINKLERED

ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: PARTIAL THIRD FLOOR ICRA & PHASING PLAN

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

VA Project Number: 693-11-122

Building Number: 1 & 27

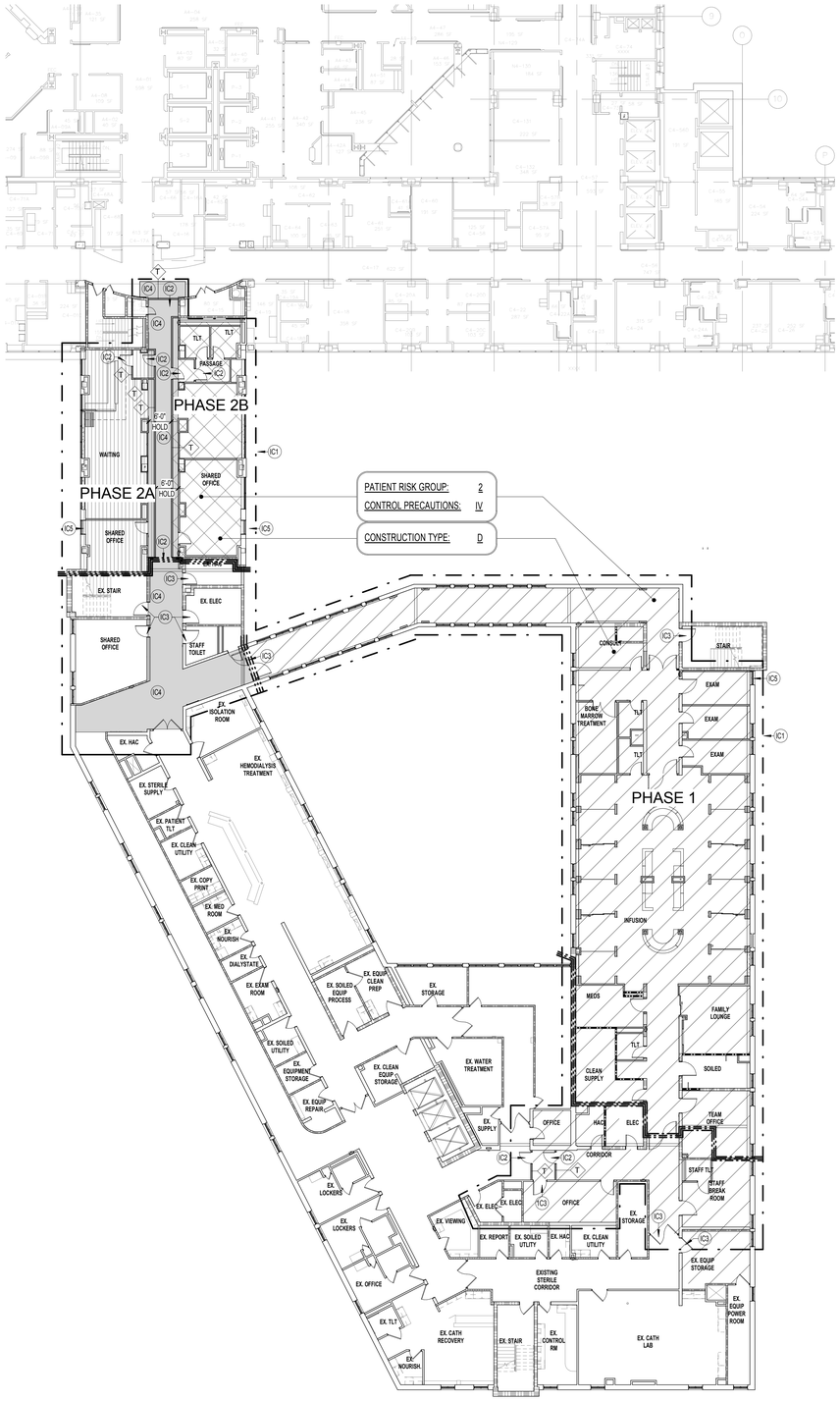
Drawing Number: GC-140

Dwg. 03 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR ICRA AND PHASING PLAN
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1. CONTRACTOR TO COORDINATE WITH HOSPITAL ANY SHUT-DOWN (MPE, ELEVATOR, BLOCKING OF ENTRANCES) TO INSURE THE OPERATION AND SERVICES OF ALL OCCUPIED AREAS OUTSIDE CONSTRUCTION AREA.

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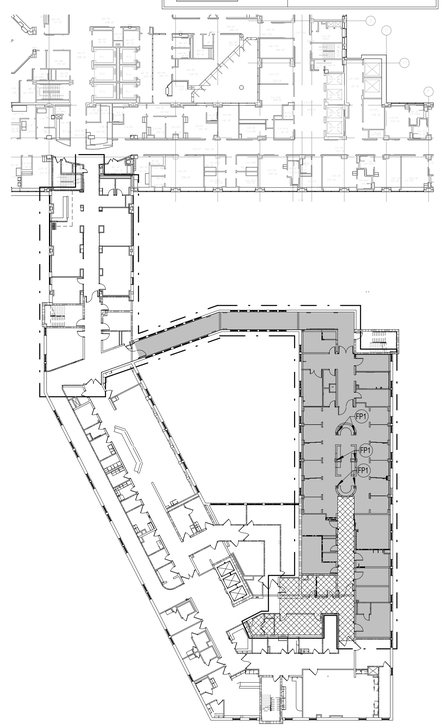
PHASING LEGEND

PATTERN	PHASE	DESCRIPTION
	#1	PERFORM WORK WHILE EXISTING ONCOLOGY UNIT REMAINS IN OPERATION
	#2A	PERFORM WORK AFTER EXISTING ONCOLOGY IS VACATED AND NEW ONCOLOGY IS OPERATIONAL.
	#2B	PERFORM WORK AFTER EXISTING ONCOLOGY IS VACATED AND NEW ONCOLOGY IS OPERATIONAL AND PHASE 2A IS COMPLETE.
		WORK TO BE PERFORMED AFTER HOURS AND ON WEEKENDS. NOTIFY VA 2WEEKS BEFORE ANY WORK IN THIS AREA IS TO BE PERFORMED.



F7 SPRAY FIRE PROOF DIAGRAM
1/32" = 1'-0"

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FIRE PROTECTION LEGEND

EXISTING 1 HR FIRE RATED ROOF CONSTRUCTION
CONTRACTOR TO INSPECT AND SURVEY EXISTING CONDITION OF FIRE PROOFING WITHIN PROJECT AREA AND PERFORM ALL NECESSARY WORK REQUIRED TO ACHIEVE THE FIRE RATING OF STRUCTURE INCLUDING SUPPORTING BEAMS AND JOISTS TO MEET THE REQUIREMENTS OF UL DESIGN NO. P717

1 HR FIRE RATED ROOF CONSTRUCTION
INCLUDING SUPPORTING BEAMS AND JOISTS UL DESIGN NO. P717

FP1 1 HR FIRE RATED COLUMN
UL DESIGN NO. X752

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: PARTIAL FOURTH FLOOR ICRA & PHASING PLAN

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

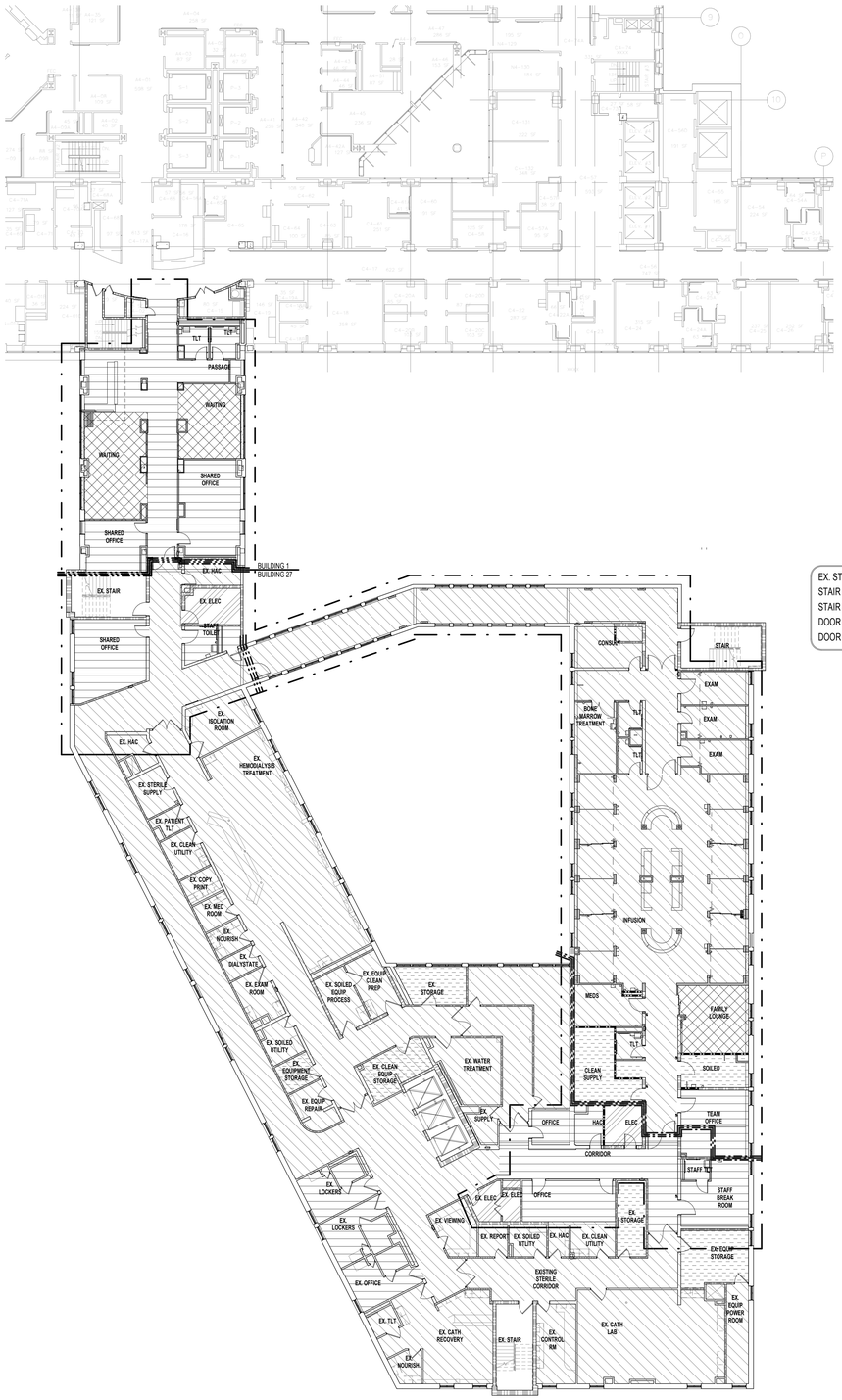
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

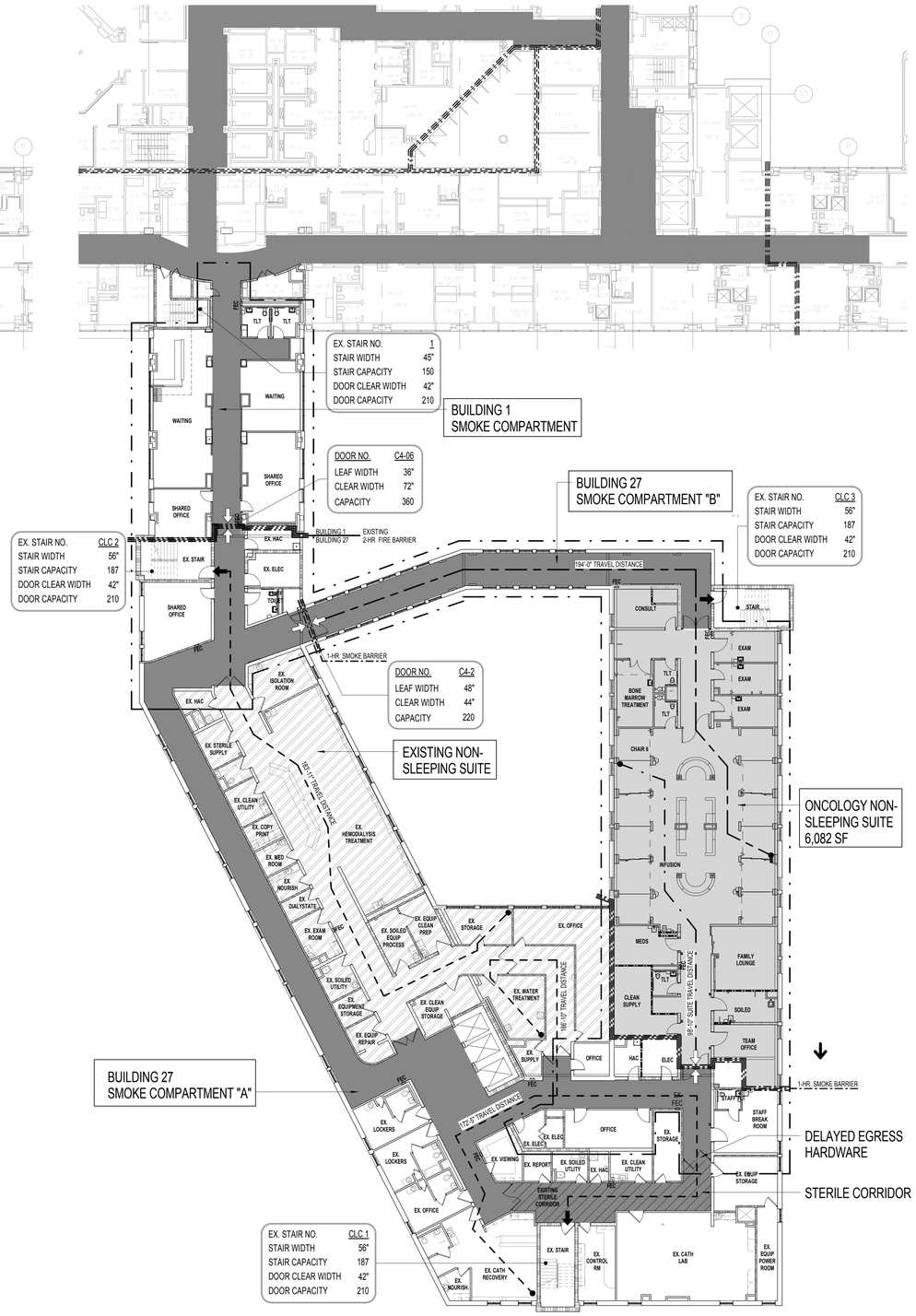
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: GC-141
Dwg. 04 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR OCCUPANCY PLAN
1/16" = 1'-0"



F4 LIFE SAFETY PLAN
1/16" = 1'-0"

CODE REQUIREMENTS FOR RENOVATION

- Life Safety Code NFPA 101-2012
- Uniform Federal Accessibility Standards 1988
- VA Barrier Free Design Guide 2011
- International Building Code 2012
- NFPA National Fire Codes 2012
- VA Seismic Requirements, H-18-8, 2011
- National Electrical Code 2011
- National Standard Plumbing Code 2012
- Safety Code for Elevators and Escalators, American Society of Mechanical Engineers 2010
- ASME Boiler and Pressure Valve Code 2013
- ASME Code for Pressure Piping 2013
- Architectural Barriers Act Accessibility Standards PG-18-13
- Building Code Requirements for Reinforced Concrete, American Concrete Institute and Commentary 1995
- Manual of Steel Construction, Load and Resistance Factor Design Specifications for Structural Steel Buildings, American Institute of of Steel Construction, 2010
- Energy Policy Act of 2005
- DOE Interim Final Rule
- The Provisions for Construction and Safety Signs
- Ventilation for Acceptable Indoor Air Quality 2010
- Safety Standards for Refrigeration Systems 2010
- VA Fire Protection and Design Manual

	BUILDING 1	BUILDING 27
	NFPA 101 2012	
BUILDING OCCUPANCY CLASSIFICATION	EXISTING HEALTHCARE AND AMBULATORY HEALTHCARE	
TYPE OF CONSTRUCTION	TYPE II (2,2,2)	
EXISTING BUILDING HEIGHT	12 STORIES	4 STORIES
EXISTING BUILDING AREA	682,000 SF	180,000 SF
PROJECT AREA	2,502 SF	10,063 SF
FIRE SUPPRESSION SYSTEM	NFPA 13 SPRINKLER SYSTEM	
CORRIDOR WIDTH		
CORRIDORS NON HOSPITAL	44 INCHES	
CORRIDOR ACCESS (MIN.)	60 INCHES	
CORRIDORS BED MOVEMENT	96 INCHES	
ALLOWABLE DEAD END CORRIDOR	30 FEET	
TRAVEL DISTANCE		
MAXIMUM ALLOWABLE TRAVEL DISTANCE	200 FEET	
SUITE TRAVEL DISTANCE	100 FEET	
COMMON PATH OF TRAVEL	100 FEET	
OCCUPANT		
OCCUPANT LOAD	256	
EXIT		
(MINIMUM) NUMBER OF EXITS REQUIRED	2	
(MINIMUM) EXIT CAPACITY	84	
(MINIMUM) STAIR, DOOR AND CORRIDOR WIDTH	(EXISTING) STAIR: 36" (EXISTING) DOOR: 36" (EXISTING) CORRIDOR: 44"	
CORRIDOR FIRE-RESISTANT RATING		
WITH OCCUPANT LOAD GREATER THAN 30	SMOKE PARTITION	
INTERIOR FINISHES		
INTERIOR WALL AND CEILING FINISH REQUIREMENTS	CLASS A OR B	
INTERIOR FLOOR FINISH REQUIREMENTS	CLASS A OR B	

FIRE RATINGS

NON-LOADBEARING WALLS AND PARTITIONS	HOURS	UL DESIGN #
FIRE WALLS (8.3)	2	# U411
EXIT ENCLOSURES (7.2.2.5)	2	N/A
EXITS PASSAGEWAY (7.2.6)	2	N/A
FIRE PARTITIONS (8.3)	1	# U465
SMOKE BARRIERS (8.5)	1	# U419
SHAFT ENCLOSURES (8.6)	2	# U438
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	1	# P717
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS AND TRUSSES	2	# X752

GENERAL NOTES:

1) ALL RATED INTERIOR PARTITION SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE RATED PARTITION SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS

2) CONTRACTOR TO PATCH AND REPAIR ALL NEW AND EXISTING FIREPROOFING AFTER INSTALLATION OF NEW WORK AS REQUIRED TO MAINTAIN REQUIRED FIRE RATING. CONTRACTOR TO USE MATERIALS COMPATIBLE WITH EXISTING FIREPROOFING FOR PATCH WORK.

PROJECT AREA SUMMARY

TOTAL AREA	12,690 S.F.

BUILDING CONSTRUCTION TYPE

NFPA 101

TYPE II (2,2,2)

OCCUPANT LOAD

FOURTH FLOOR - BUILDING 27

USE	AREA (SF)	SF/PERSON	LOAD
ASSEMBLY UNCONCENTRATED	338	15 NET	23
BUSINESS	2,274	100 GROSS	23
MECHANICAL	445	300 GROSS	2
OUTPATIENT TREATMENT	6,571	100 GROSS	66
STORAGE	435	300 GROSS	2
TOTAL LOAD	10,063	-	116

PARTIAL FOURTH FLOOR - BUILDING 1

USE	AREA (SF)	SF/PERSON	LOAD
ASSEMBLY UNCONCENTRATED	592	15 NET	40
BUSINESS	1,910	100 GROSS	20
TOTAL LOAD	2,502	-	158

LIFE SAFETY GENERAL NOTES

1. EXISTING EXITS TO BE MAINTAINED DURING DEMOLITION / CONSTRUCTION. PROVIDE TEMPORARY PROTECTION AS REQUIRED TO MAINTAIN EGRESS AND SAFE PASSAGE FROM THE BUILDING.

2. PROVIDE HEPA EXHAUST FANS TO KEEP SPACE WITHIN THE PROJECT AREA UNDER NEGATIVE PRESSURE AS LOCATIONS AND CONDITIONS DICTATE.

3. PROVIDE TEMPORARY PROTECTION WHILE WORKING IN THE SPACES, BELOW OR ABOVE THE AREA OF DEMOLITION / CONSTRUCTION.

4. PROVIDE BARRIERS, TEMPORARY PARTITIONS TO PROTECT OCCUPANTS FROM PHYSICAL HAZARD AND NOISE DURING DEMOLITION / CONSTRUCTION AND AS REQUIRED FOR INFECTION CONTROL.

5. THE LOCATION OF CONSTRUCTION DOORS IN CONSTRUCTION BARRIERS TO BE DETERMINED BY THE CONTRACTOR. DOORS AND FRAMES IN CONSTRUCTION BARRIERS TO BE HOLLOW METAL. DOORS TO BE SELF CLOSING AND LOCKABLE.

6. COORDINATE DEMOLITION WITH PHASING PLANS INTEGRATING DEMOLITION WITH EXISTING CONSTRUCTION TO MINIMIZE DISRUPTION OF BUILDING OPERATIONS.

LIFE SAFETY PLAN LEGEND

- NON RATED SMOKE PARTITION SUITE SEPARATION
- NON RATED SMOKE PARTITION
- 1 HOUR FIRE RATED BARRIER / PARTITION
- EXISTING 1 HOUR FIRE RATED SMOKE BARRIER
- EXISTING NON RATED SMOKE PARTITION
- EXISTING 1 HOUR FIRE RATED BARRIER / PARTITION
- EXISTING 2 HOUR FIRE RATED BARRIER / PARTITION
- EXIT ACCESS CORRIDORS
- EXIT DISCHARGE
- SMOKE COMPARTMENT EXIT
- 200'-0" MAX. — TOTAL TRAVEL DISTANCE TO AN EXIT
- 200'-0" MAX. — SMOKE COMPARTMENT TRAVEL DISTANCE (NFPA)
- 100'-0" MAX. — SUITE TRAVEL DISTANCE

NOTE:
RATED PARTITIONS AND SMOKE BARRIERS SHOWN ON THE EGRESS PLAN ARE A COMBINATION OF NEW AND EXISTING CONSTRUCTION.
SEE DRAWINGS AE-101 AND AE-302 FOR REQUIREMENTS OF NEW CONSTRUCTION AND VERIFICATION OF EXISTING.

OCCUPANCY TYPE LEGEND

- ASSEMBLY UNCONCENTRATED
- BUSINESS
- MECHANICAL OCCUPANT LOAD
- OUTPATIENT TREATMENT
- STORAGE

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Revisions | Date

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Project Number	Scale
3659	As indicated

Drawing Title: PARTIAL FOURTH FLOOR LIFE SAFETY & OCCUPANCY PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: GC-142
Dwg. 05 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

DESIGN CRITERIA NOTES

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION.

2. GRAVITY LOADS:

DESIGN LOADS ARE AS LISTED BELOW.

LIVE LOADS:

HOSPITALS:
OPERATING ROOMS, LABORATORIES 60 PSF
PATIENT ROOMS 40 PSF
CORRIDORS ABOVE FIRST FLOOR 80 PSF

PARTITIONS IN NON-PUBLIC AREAS 15 PSF

ROOFS 20 PSF

SUPERIMPOSED DEAD LOADS:

MECHANICAL, ELECTRICAL AND CEILING 10 PSF
FINISHES WHERE SHOWN ON ARCHITECTURAL AS REQUIRED

3. WIND LOADS:
BASIC DESIGN WIND LOADS ARE IN ACCORDANCE WITH ASCE7-10. DESIGN ASSUMPTIONS ARE AS FOLLOW:

BASIC WIND SPEED=120 MPH
EXPOSURE TYPE B
RISK CATEGORY IV

4. SEISMIC DESIGN - THE STRUCTURE HAS BEEN DESIGNED ACCORDING TO THE INTERNATIONAL BUILDING CODE, 2012.

RISK CATEGORY IV
SEISMIC IMPORTANCE FACTOR, Ie=1.50
0.2 SECOND SPECTRAL ACCELERATION, Ss=7.6g
1.0 SECOND SPECTRAL ACCELERATION, S1=24.0g
SITE CLASS=D
SEISMIC DESIGN CATEGORY=C

MISCELLANEOUS NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BETWEEN THOSE DOCUMENTS AND ANY SAFETY REGULATIONS. SUCH REVIEW AND NOTIFICATION SHALL OCCUR PRIOR TO PRODUCTION OF SHOP DRAWINGS.

2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS, FOR PROTECTING THE COMPLETED STRUCTURAL FRAMING FROM DAMAGE DUE TO TEMPORARY CONSTRUCTION LOADINGS, FOR DETERMINING SEQUENCES OF CONSTRUCTION, AND FOR DETERMINATION, DESIGN, AND INSTALLATION OF ALL FALSEWORK, FORMWORK, STAGING, TEMPORARY BRACING, SHEETING, AND SHORING NECESSARY FOR CONSTRUCTION.

3. SUBMIT SHOP DRAWINGS 10 BUSINESS DAYS (MINIMUM) PRIOR TO DATE THAT RETURNED SHOP DRAWINGS ARE REQUIRED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATE AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

4. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.

CONCRETE NOTES

CAST IN PLACE CONCRETE:

1. CLASSES OF CONCRETE SHALL BE AS FOLLOWS:

CLASSES OF CONCRETE			
LOCATION	28 DAY F'c (psi)	CONC. TYPE	MAX. NOM. COARSE AGG. SIZE
TOPPING SLABS	4,000	N.W.C.	3/4"

N.W.C. DENOTES NORMAL WEIGHT CONCRETE WITH A MAX. DRY DENSITY = 150 PCF

2. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. SEE SECTION 7.7, ACI 318-10 FOR CONDITIONS NOT NOTED.

CONCRETE PROTECTION	
TOPPING SLABS	1.5" TOP

CONCRETE REINFORCEMENT NOTES:

1. CONCRETE REINFORCING BARS SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60, EXCEPT AS NOTED. REINFORCEMENT REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706, U.N.O.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. THE FOLLOWINGWELDED WIRE FABRIC SHALL BE USED FOR AREAS SPECIFIED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

NON-STRUCTURAL TOP'G SLABS 6 X 6 - W1.4 X W1.4

3. LAPS IN WELDED WIRE FABRIC SHALL BE TWO MESH AT SPLICES.

4. PROVIDE STANDARD BAR CHAIRS WITH PROTECTIVE TIPS AND SPACERS SPACED AS REQUIRED TO PROVIDE SPECIFIED CONCRETE PROTECTION FOR REINFORCEMENT BUT NOT TO EXCEED 3'-0" ON CENTER FOR SLABS, BEAMS, AND GRADE BEAMS. PLACE BAR CHAIRS LONGITUDINALLY IN BEAMS DIRECTLY BELOW THE STIRRUPS.

CONCRETE MASONRY UNITS NOTES:

1. CMU MORTAR SHALL MEET ASTM C270, TYPE "S", AND HAVE A COMPRESSIVE CUBE STRENGTH OF 1800 PSI AT 28 DAYS.

2. CMU GROUT, POURED OR PUMPED, SHALL MEET ASTM C476, AND HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.

3 PROVIDE STEEL LINTELS ABOVE ALL WALL OPENINGS PER STRUCTURAL DRAWINGS.

LIGHT GAGE METAL FRAMING NOTES:

1. DESIGNATIONS SHOWN ON STRUCTURAL DRAWINGS CONFORM TO INDUSTRY STANDARD NOMENCLATURE. MANUFACTURER AND/OR SUPPLIER MUST SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS SIGNED AND SEALED BY A PENNSYLVANIA REGISTERED ENGINEER INDICATING CAPACITY OF MEMBERS, FRAMING, DETAILS, BRACING, BRIDGING AND ALL OTHER ACCESSORIES TO CONFORM TO LOAD CRITERIA.

2. ALL STEEL STUDS SHALL BE HOT DIPPED GALVANIZED (G-60) PER ASTM A525. STEEL STUDS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST AISI SPECIIFCATIONS. 18 GAGE OR LIGHTER MEMBERS SHALL COMPY WITH ASTM A653 CQ (FY=33 KSI). 16 GAGE AND HEAVIER MEMBERS SHALL COMPLY WITH ASTM A653 SQ (FY=33 KSI).

3. PERFORM WELDING OF ALL LIGHT GAGE STEEL FRAMING IN ACCORDANCE WITH AWS D1.3 (SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES).

4. MAKE CONNECTIONS WITH SELF-DRILLING, SELF TAPPING SCREWS OR WELDING SO THAT THE CONNECTIONS MEET OR EXCEEDS THE DESIGN LOADS. ALWAYS USE WELDS WHERE SHOWN ON DRAWINGS.

5. CUT ALL LIGHT GAGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.

STEEL NOTES

A. STRUCTURAL STEEL

1. STRUCTURAL STEEL CONSTRUCTION HAS BEEN DESIGNED IN ACCORDANCE WITH A.I.S.C. "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 2005, U.N.O.

2. STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, U.N.O.

STEEL	
FLOOR/ROOF BEAMS AND GIRDERS EXCLUDING W8X10 AND SMALLER	ASTM A992-50
CHANNELS, TEES, ANGLES, BARS, PLATES, W8X10 AND SMALLER BEAMS	ASTM A36
STEEL TUBING (TS SECTIONS) (Fy = 46 KSI)	ASTM A500-GR. B
STEEL PIPE TYPE "E" OR "S"	ASTM A501 OR A53

3. CONNECTION BOLTS SHALL CONFORM TO ASTM A325. USE BEARING TYPE BOLTS WITH THREAD ALLOWED ACROSS THE SHEAR PLANE (TYPE N) AT TYPICAL BEAM SHEAR CONNECTIONS, U.N.O. USE TYPE "SC" BOLTS WITH EITHER DIRECT TENSION INDICATOR OR LOAD INDICATOR WASHERS AT ALL BOLTED SLIP CRITICAL CONNECTIONS.

4. STEEL BEAM CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR. BEAM CONNECTIONS SHALL DEVELOP THE END REACTIONS GIVEN ON THE DRAWINGS. WHERE END REACTIONS ARE NOT SPECIFIED, THE BEAM CONNECTION SHALL DEVELOP 50% OF THE BEAMS WEB ALLOWABLE SHEAR CAPACITY. A MINIMUM CONNECTION CAPACITY OF 12 KIPS SHALL BE PROVIDED FOR ALL BEAMS, UNLESS NOTED OTHERWISE BY SPECIFIED REACTION.

THE STRUCTURAL STEEL FABRICATOR SHALL PROVIDE CERTIFICATION BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, THAT THE CONNECTION DESIGN IS IN ACCORDANCE WITH ALL APPLICABLE CODES AND SPECIFICATIONS.

5. FOR ALL HIGH STRENGTH BOLTS, HARDENED WASHERS SHALL BE PROVIDED.

6. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123.

7. STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.

8. OPEN WEB STEEL JOISTS AND BRIDGING SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE. BRIDGING SHALL BE WELDED TO STEEL BEAMS AND ANCHORED TO MASONRY OR CONCRETE WALLS AT THE ENDS, U.N.O.

9. THE RESPONSIBILITY FOR ANY TEMPORARY SHORING OR BRACING DURING THE CONSTRUCTION PHASE BEFORE COMPLETION OF CONNECTION AND POURING OF FLOOR SLAB IS ADDRESSED IN THE SPECIFICATIONS AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

10. IF NOT SHOWN ON DRAWINGS, SUPPORT OF METAL DECK AROUND COLUMN CLOSURE, SCREED PLATES AROUND THE OPENINGS AND EDGE SLAB SHALL BE PROVIDED BY THE CONTRACTOR.

B. WELDING

1. WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" D1.1; AWS D1.3-SHEET STEEL; AND AWS D1.4 "REINFORCING STEEL WELDING CODE".

2. ELECTRODES FOR FIELD AND SHOP WELDS OF STRUCTURAL STEEL SHALL BE E70XX, U.N.O.

3. ELECTRODES FOR WELDING OF REINFORCING STEEL SHALL BE E80XX.

4. ELECTRODES FOR WELDING OF SHEET STEEL SHALL CONFORM TO AWS D1.3.

5. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.

6. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL GROOVE WELDS SHALL BE FULL PENETRATION.

7. ONLY LOW HYDROGEN ELECTRODES SHALL BE USED ON REINFORCING STEEL AND ASTM A992 STEEL.

8. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

ABBREVIATIONS USED ON STRUCTURAL DRAWINGS

A.F.F.	ABOVE FINISHED FLOOR	LWC	LIGHT WEIGHT CONCRETE
ADD'L	ADDITIONAL	L.F.	LINEAR FOOT
A.R.	ANCHOR ROD	LG.	LONG
L	ANGLE	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
BET.	BETWEEN	L.P.	LOW POINT
BSMT.	BASEMENT		
BM.	BEAM	MECH.	MECHANICAL
BRG.	BEARING	M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING
B.S.	BOTH SIDES		
B or BOT.	BOTTOM	MIN.	MINIMUM
B.O.D.	BOTTOM OF DECK		
BLDG.	BUILDING	N.S.	NEAR SIDE
		(N)	NEW
CANT.	CANTILEVER	N.T.S.	NOT TO SCALE
C.I.P.	CAST-IN-PLACE		
CL	CENTER LINE	O.C.	ON CENTER
CLR.	CLEAR	OPNG.	OPENING
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	O.F.	OUTSIDE FACE
CONN.	CONNECTION		
CONT.	CONTINUOUS	PEN.	PENETRATION
C.J.	CONTROL JOINT	PERP.	PERPENDICULAR
		PC.	PRECAST
DET.	DETAIL	PL	PLATE
DIA.	DIAMETER	P.T.	POST-TENSIONED
DIM.	DIMENSION	P.L.F.	POUNDS PER LINEAR FOOT
DIR.	DIRECTION	PSI	POUNDS PER SQUARE INCH
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DRWG.	DRAWING or DRAWINGS		
		REINF.	REINFORCING or REINFORCE
EA.	EACH	REM	REMAINDER
E.E	EACH END	REQ'D	REQUIRED
E.F.	EACH FACE		
E.W.	EACH WAY	SCHED.	SCHEDULE
E.O.D.	EDGE OF DECK	SECT.	SECTION
E.O.S.	EDGE OF SLAB	S.W.	SHORT-WAY
EL	ELEVATION	SIM.	SIMILAR
EMBED.	EMBEDMENT	S.O.G.	SLAB ON GRADE
EQ.	EQUAL	SL.	SLOPED
(E)	EXISTING	SP.	SPACES
E.J.	EXPANSION JOINT	SQ.	SQUARE
		SF	SQUARE FOOT
F.S.	FAR SIDE	STD.	STANDARD
FT.	FEET	STL.	STEEL
FIN.	FINISH or FINISHED	STIFF.	STIFFENER
FL.	FLOOR	STRUCT.	STRUCTURAL
FTG.	FOOTING	SYM.	SYMMETRICAL
GALV.	GALVANIZED	TEMP.	TEMPORARY
GA.	GAUGE or GAGE	T	TOP
		T&B	TOP AND BOTTOM
HGR.	HANGER	T.O.B.	TOP OF BEAM
HT.	HEIGHT	T.O.C.	TOP OF CONCRETE
H.P.	HIGH POINT	T.O.S.	TOP OF STEEL
HK.	HOOK	T.O.W.	TOP OF WALL
HOR.	HORIZONTAL	TYP.	TYPICAL
IN.	INCHES	U.N.O.	UNLESS NOTED OTHERWISE
INT.	INTERIOR		
INV.	INVERT	V.I.F.	VERIFY IN FIELD
		VERT.	VERTICAL
JT.	JOINT		
		W.W.F.	WLEDED WIRE FABRIC
K	1000 POUNDS	W.W.R.	WELDED WIRE REINFORCEMENT
		W/	WITH
		W.P.	WORK POINT

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Revisions | Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL NATALIE E WILLIAMS ENGINEER No. 076743
4/17/2013

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Project Number 3628
Scale 12" = 1'-0"

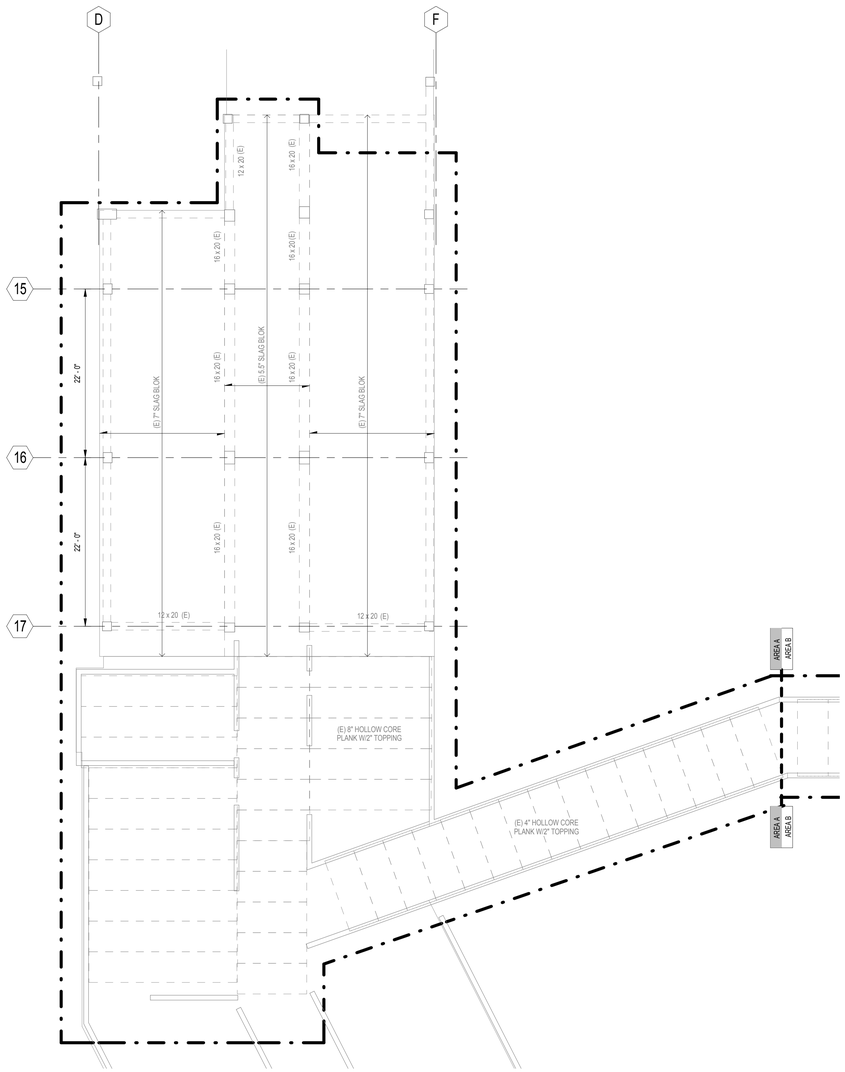
Drawing Title: GENERAL NOTES
Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711
Date 4/17/2013 | Checked RAZ | Drawn NEW

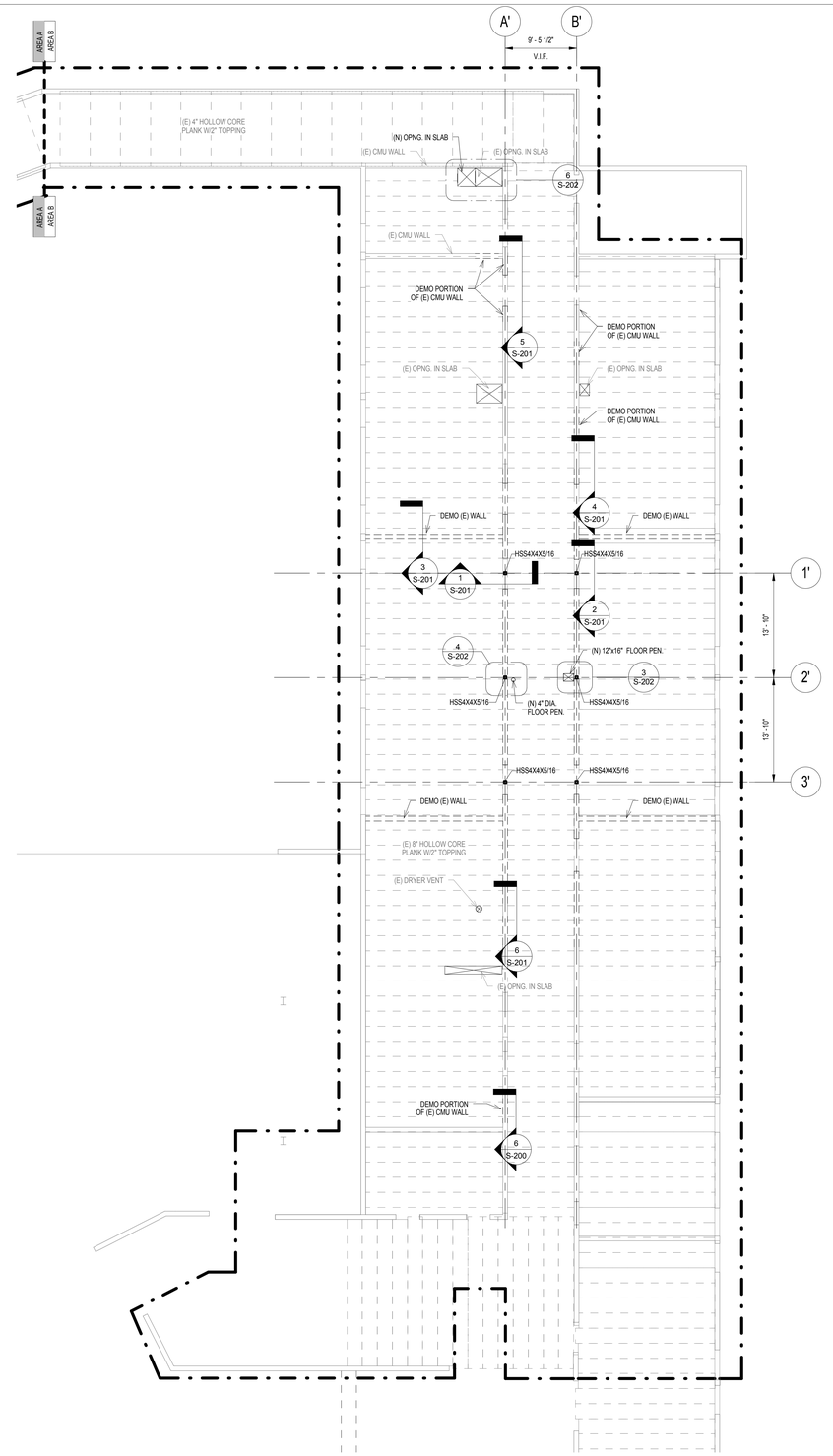
VA Project Number 693-11-122
Building Number 1 & 27
Drawing Number S-001
Dwg. 6 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

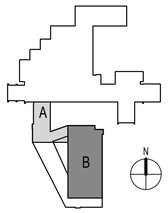


2 LEVEL 4 FRAMING PLAN - AREA A
1/8" = 1'-0"



1 LEVEL 4 FRAMING PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



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Revisions	Date

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4/17/2013

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Project Number	Scale
3628	As indicated

Drawing Title: LEVEL 4 FRAMING PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

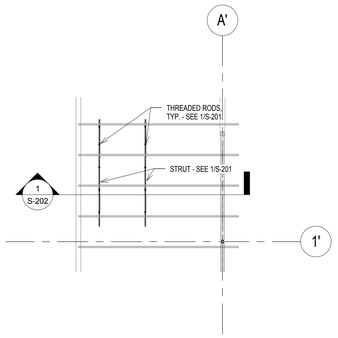
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
4/17/2013	RAZ	NEW

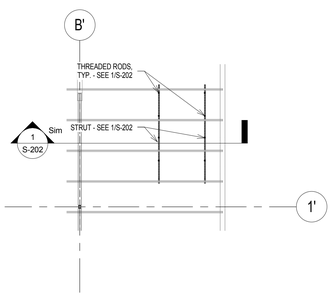
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: S-141
Dwg. 7 of 79

Office of Facilities Management
Department of Veterans Affairs

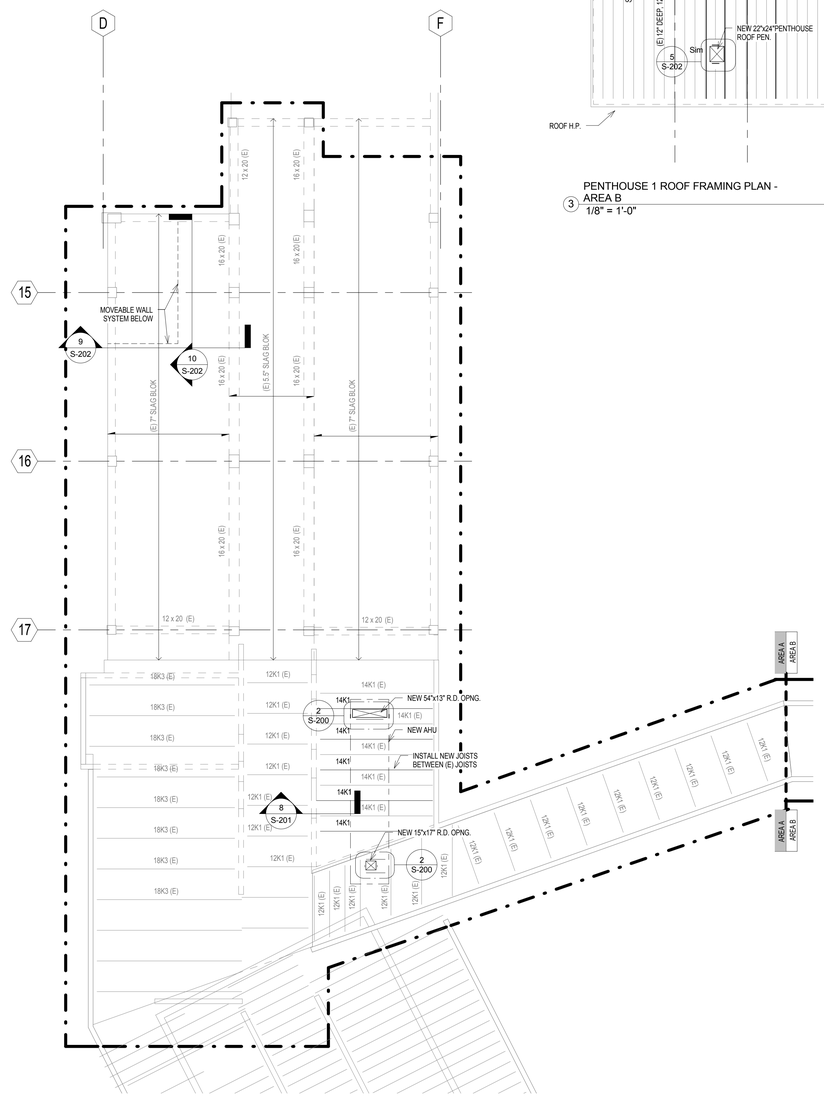
VA FORM 08-6231, OCT 1978



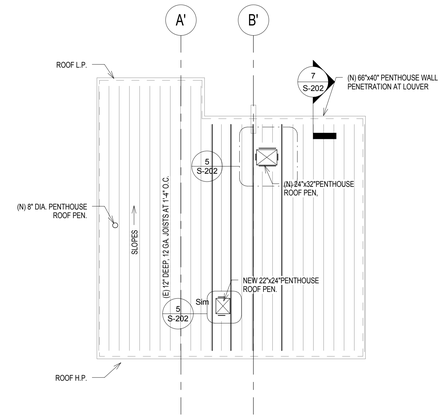
5 PATIENT LIFT FRAMING PLAN
1/8" = 1'-0"



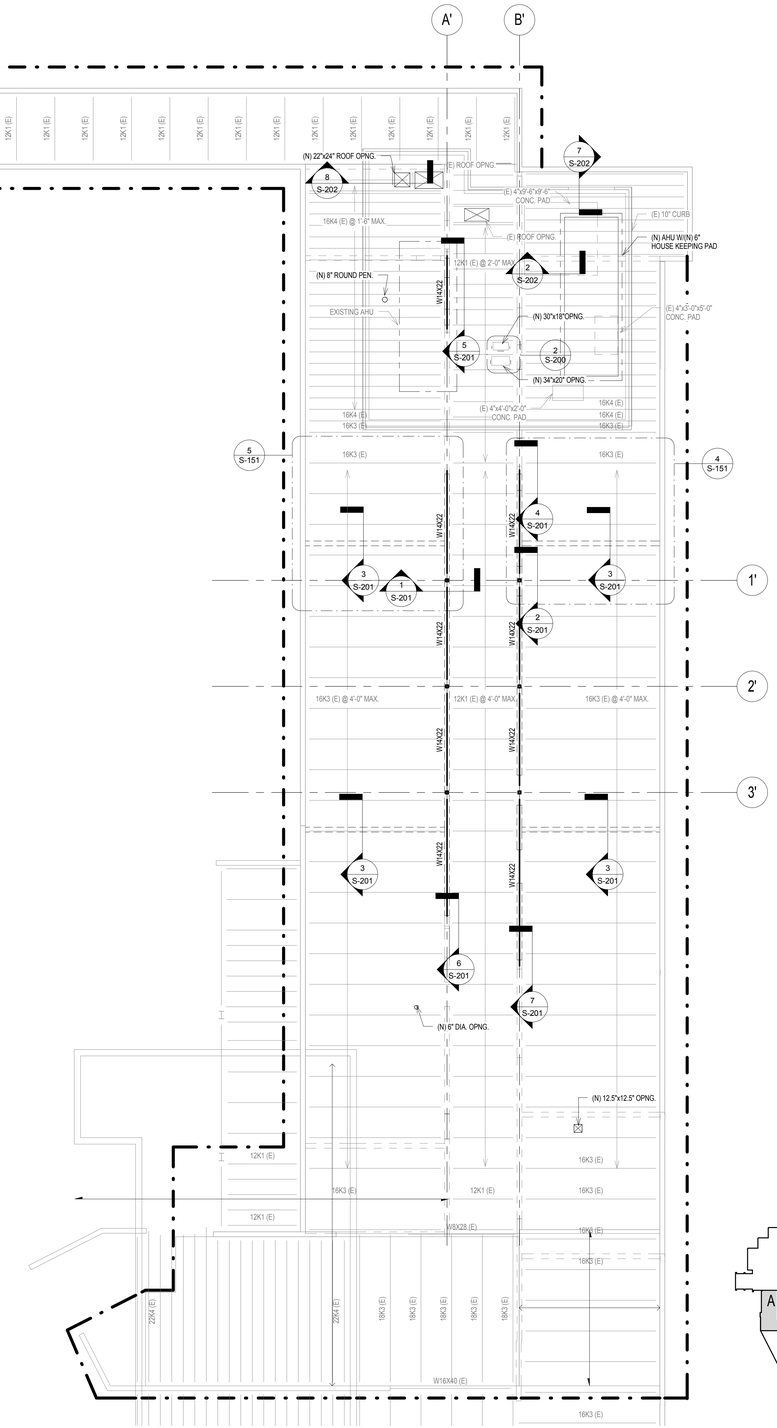
4 PATIENT LIFT FRAMING PLAN
1/8" = 1'-0"



2 ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

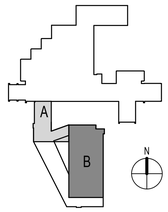


3 PENTHOUSE 1 ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"



1 ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER NATALIE E WILLIAMS No. 076743 — 4/17/2013

PROJECT MANAGER:
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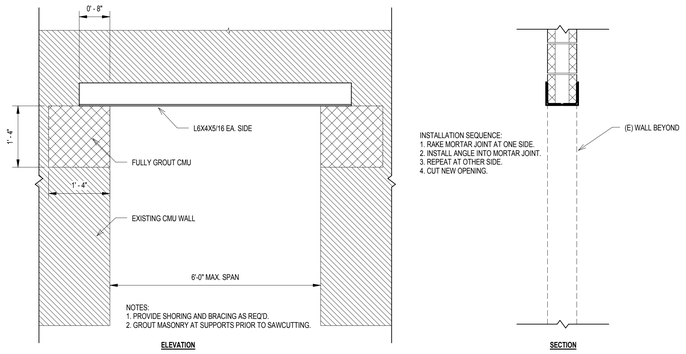
Project Number	Scale
3628	As indicated

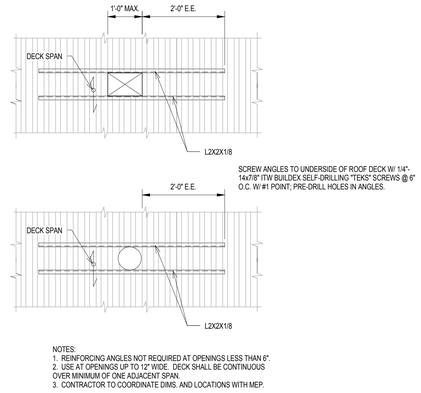
Drawing Title	ROOF/PENTHOUSE FRAMING PLANS
Project Title	EXPAND EXISTING ONCOLOGY
VA Project Number	693-11-122
Building Number	1 & 27
Approved: Project Director	
Location	1111 EAST END BLVD, WILKES-BARRE, PA 18711
Date	4/17/2013
Checked	RAZ
Drawn	NEW
Drawing Number	S-151
Dwg. 8 of 79	

Office of Facilities Management
Department of Veterans Affairs

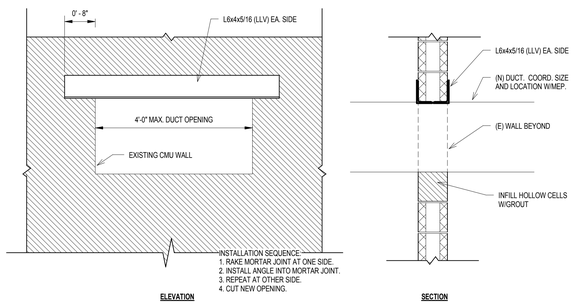
VA FORM 08-6231, OCT 1978



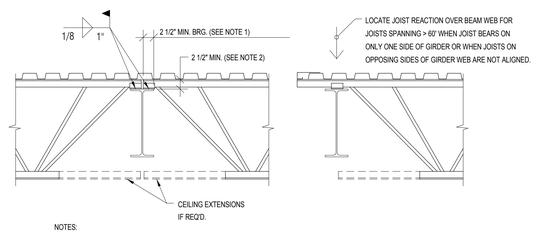
6 STEEL LINTELS IN EXISTING CMU WALLS
3/4" = 1'-0"



3 TYPICAL SMALL OPENING IN METAL ROOF DECK
3/4" = 1'-0"

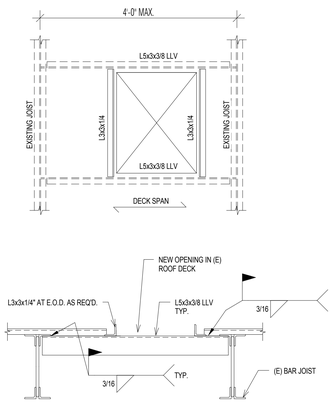


8 LINTELS AT DUCT PEN. THRU (E) WALL
3/4" = 1'-0"



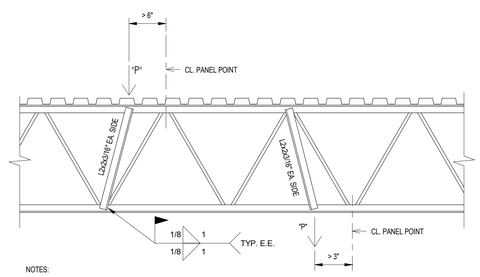
NOTES:
1. JOIST MANUFACTURER SHALL DESIGN AND PROVIDE SPECIAL JOIST SEATS AT LOCATIONS WHERE THE WIDTH OF BEARING AT SUPPORTS IS LESS THAN THE MINIMUM DIMENSION SPECIFIED BY THE STEEL JOIST INSTITUTE.
2. INCREASE SEAT DEPTH WHERE REQUIRED ON SLOPING JOISTS; COORDINATE SEAT DEPTH DIMS. WITH STRUCTURAL STEEL DETAILER AND ADJUST BEAM TOP OF STEEL ELEVATIONS AS REQUIRED.

5 K-SERIES JOIST BEARING ON STEEL BEAM
3/4" = 1'-0"



NOTES:
1. SHIM TIGHT BETWEEN TOP OF NEW ANGLE AND UNDERSIDE OF EXISTING DECK; TACK WELD SHIMS TO BEAM.
2. INSTALL NEW FRAMING BEFORE CUTTING OPENING IN SLAB.

2 TYPICAL NEW ROOF DECK OPENING
3/4" = 1'-0"

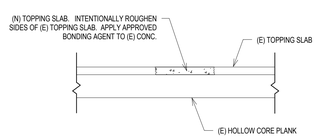


NOTES:
1. INSTALL L 2x2 STIFFENER ANGLES EA. SIDE PER THIS DETAIL AT LOCATIONS WHERE CONCENTRATED LOADS > 150 POUNDS ARE ATTACHED TO THE TOP OR BOTTOM CHORDS OF JOISTS AT LOCATIONS > 3" THE CLOSEST ADJACENT PANEL POINT.
2. INDIVIDUAL CONCENTRATED LOADS SHALL NOT EXCEED THE FOLLOWING:

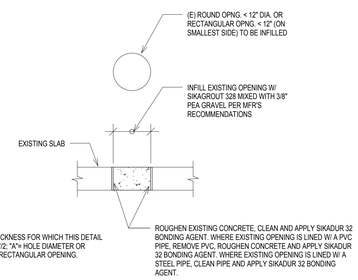
"K" SERIES JOIST DEPTH	MAX. PERMITTED CONC. LOAD
8" TO 12"	200#
14" TO 16"	300#
18" TO 20"	400#
22" TO 26"	500#
28" TO 30"	600#

3. NO MORE THAN TWO CONCENTRATED LOADS > MAX. LOAD "A"/3 MAY BE ATTACHED TO ANY ONE JOIST.
4. CONCENTRATED LOADS > MAX. LOAD "A"/3 MUST LOCATED AT LEAST SPAN/3 APART.

4 JOIST REINFORCING ("K" SERIES JOISTS)
3/4" = 1'-0"



7 TYP. TOPPING SLAB REPAIR
3/4" = 1'-0"



1 TYPICAL SLAB INFILL AT EXISTING OPENINGS < 12"
3/4" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Abatement Consultant: GOLDEN CORPORATION
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER NATALIE E. WILLIAMS No. 076743
4/17/2013

PROJECT MANAGER:
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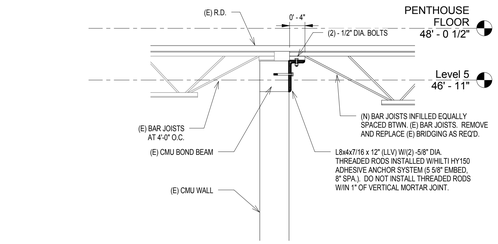
Project Number	Scale
3628	3/4" = 1'-0"

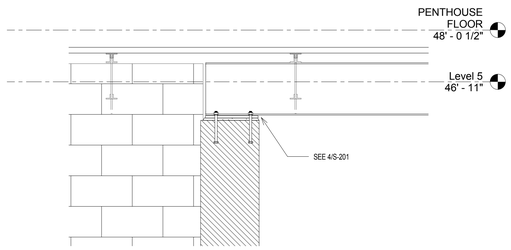
Drawing Title: TYPICAL DETAILS
Approved: Project Director
Project Title: EXPAND EXISTING ONCOLOGY
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711
Date: 4/17/2013 | Checked: RAZ | Drawn: NEW
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: S-200
Dwg. 9 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



8 SECTION
3/4" = 1'-0"



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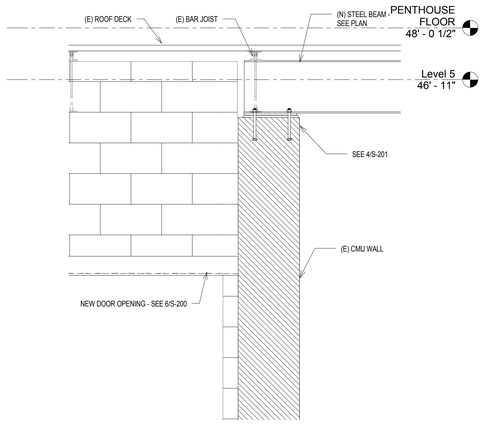
3/4" = 1'-0"



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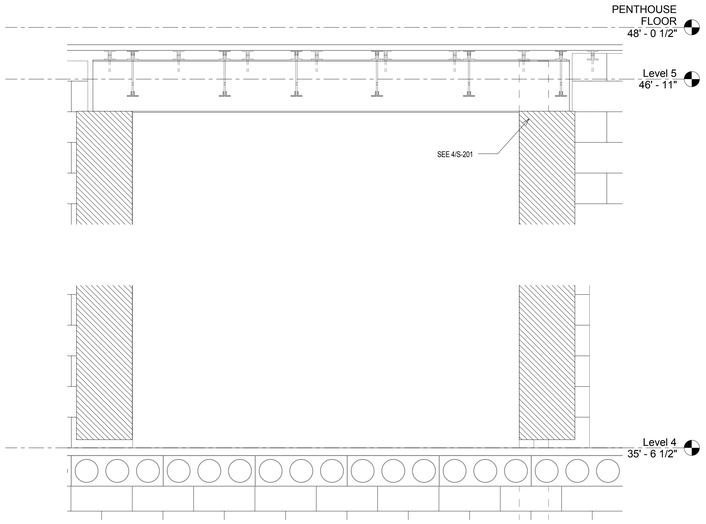
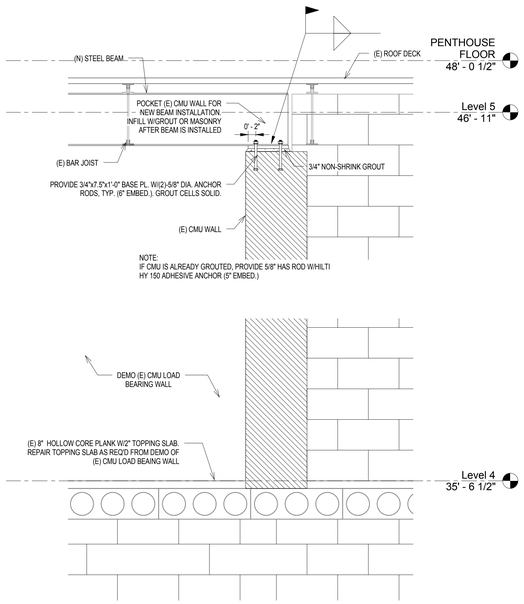
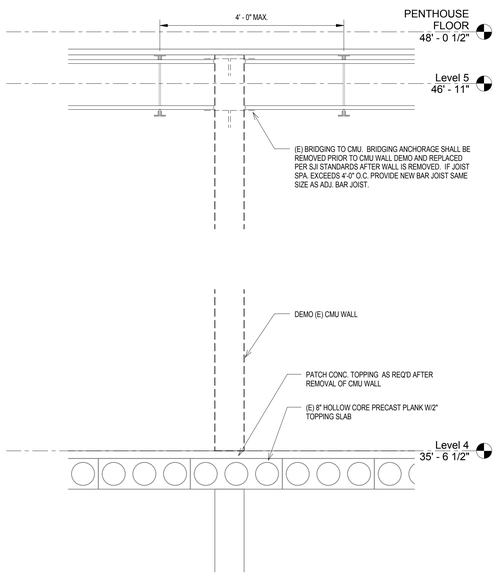
3/4" = 1'-0"



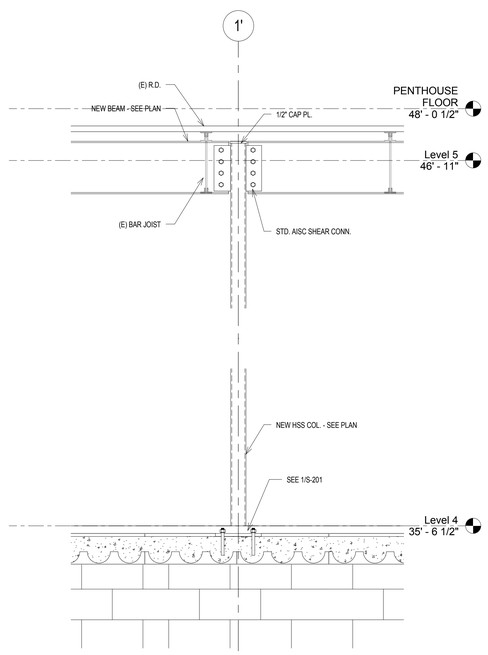
5 SECTION
3/4" = 1'-0"



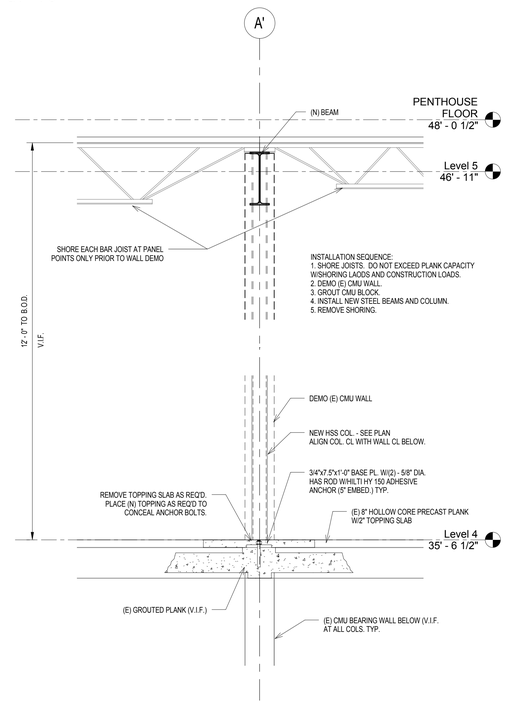
4 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



1 SECTION
3/4" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

CONSULTANTS:

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NATALIE E WILLIAMS
ENGINEER
No. 076743
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4/17/2013

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Project Number	Scale
3628	3/4" = 1'-0"

Drawing Title: SECTIONS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
4/17/2013	RAZ	NEW

VA Project Number: 693-11-122

Building Number: 1 & 27

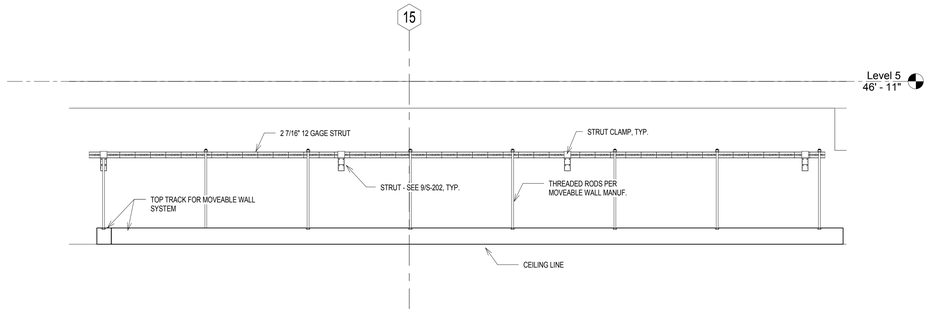
Drawing Number: S-201

Dwg. 10 of 79

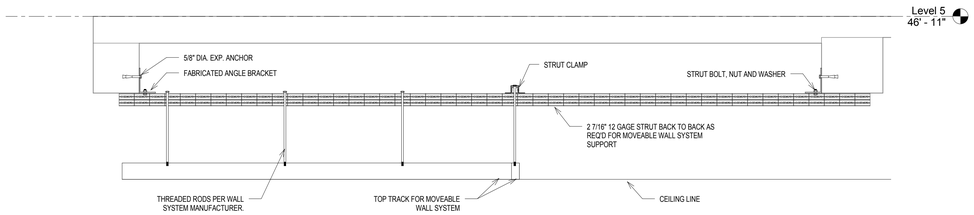
Office of Facilities Management

Department of Veterans Affairs

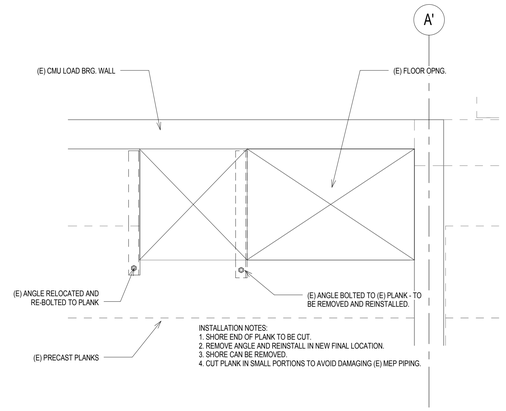
VA FORM 08-6231, OCT 1978



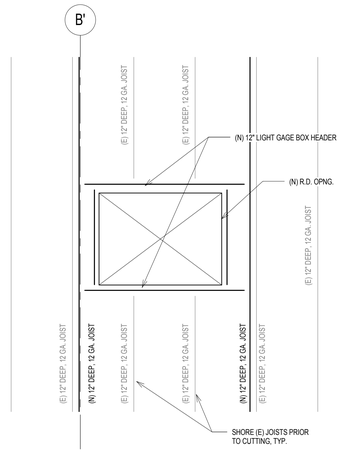
10 SECTION AT MOVEABLE WALL SYSTEM
3/4" = 1'-0"



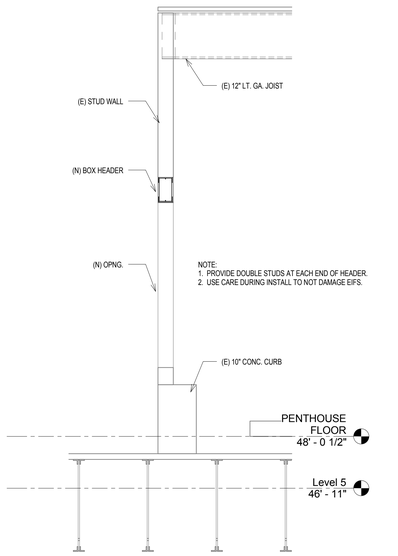
9 SECTION AT MOVEABLE WALL SYSTEM
3/4" = 1'-0"



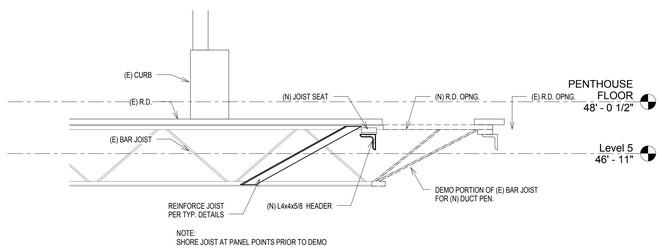
6 PLANK PENETRATION DETAIL
3/4" = 1'-0"



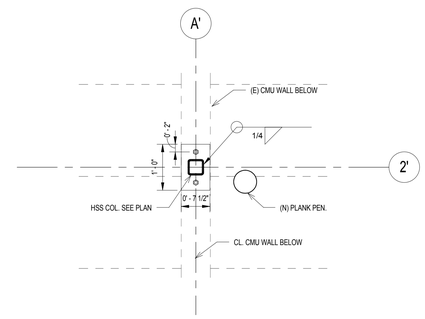
5 PENTHOUSE ROOF OPENING PLAN DETAIL
3/4" = 1'-0"



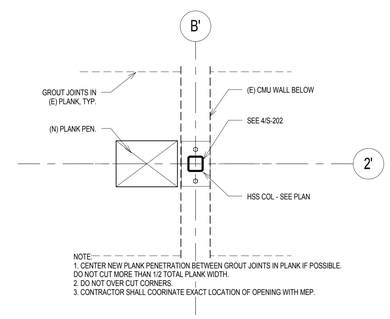
7 SECTION AT NEW LOUVER IN PENTHOUSE
3/4" = 1'-0"



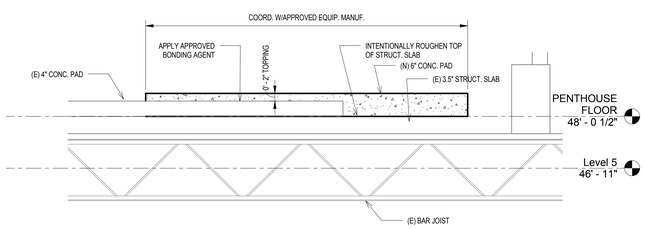
8 SECTION
3/4" = 1'-0"



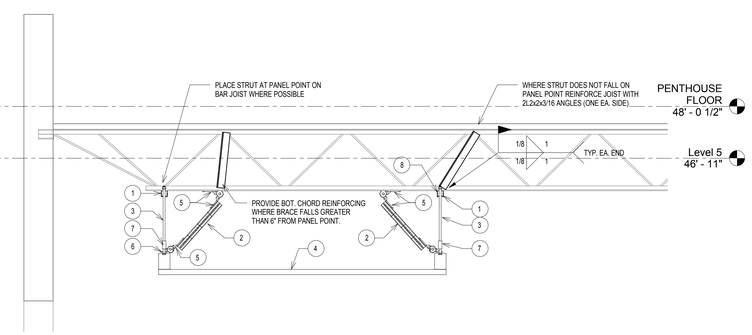
4 TYP. COL. BASE PL. DETAIL
3/4" = 1'-0"



3 PLANK PENETRATION DETAIL
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



1 PATIENT LIFT SUPPORT
3/4" = 1'-0"

PARTS LIST

1	1 5/8" 12 GAGE STRUT B2B (3 1/4" TOTAL HEIGHT)
2	1 5/8" STRUT (12 GAGE) LATERAL BRACE - 2 PER THREADED ROD (1 EA. DIRECTION)
3	1/2" DIA. THREADED ROD, 3'-0" MAX SPA. PER PATIENT LIFT MANUF. REQ'MENTS.
4	PATIENT LIFT RAIL PROVIDED BY PATIENT LIFT VENDOR.
5	SEISMIC HINGE, STRUT HALF W/BOLT AND NUT (ITEM NO. 00333309) ATTACHED WITH TWO 1/2" DIA. BOLTS, LOCKWASHERS, AND 1/2" STRUT NUTS.
6	SEISMIC HINGE, BASE/HANGER HALF, 1/2" (ITEM NO. 00333308).
7	1/2" DIA. ROD COUPLER W/1/2" LOCK WASHER AND NUT.
8	BEAM CLAMP

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

CONSULTANTS:

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Abatement Consultant: COLDEN CORPORATION
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER NATALIE E. WILLIAMS No. 076743 — 4/17/2013

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Project Number	Scale
3628	As indicated

Drawing Title: SECTIONS AND DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
4/17/2013	RAZ	NEW

VA Project Number: 693-11-122

Building Number: 1 & 27

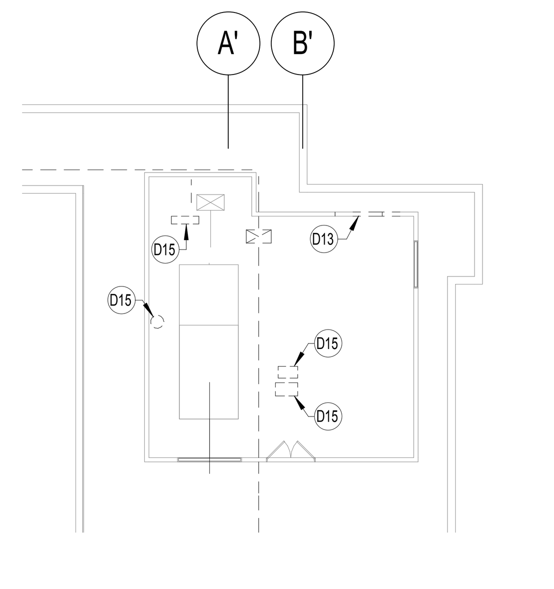
Drawing Number: S-202

Dwg. 11 of 79

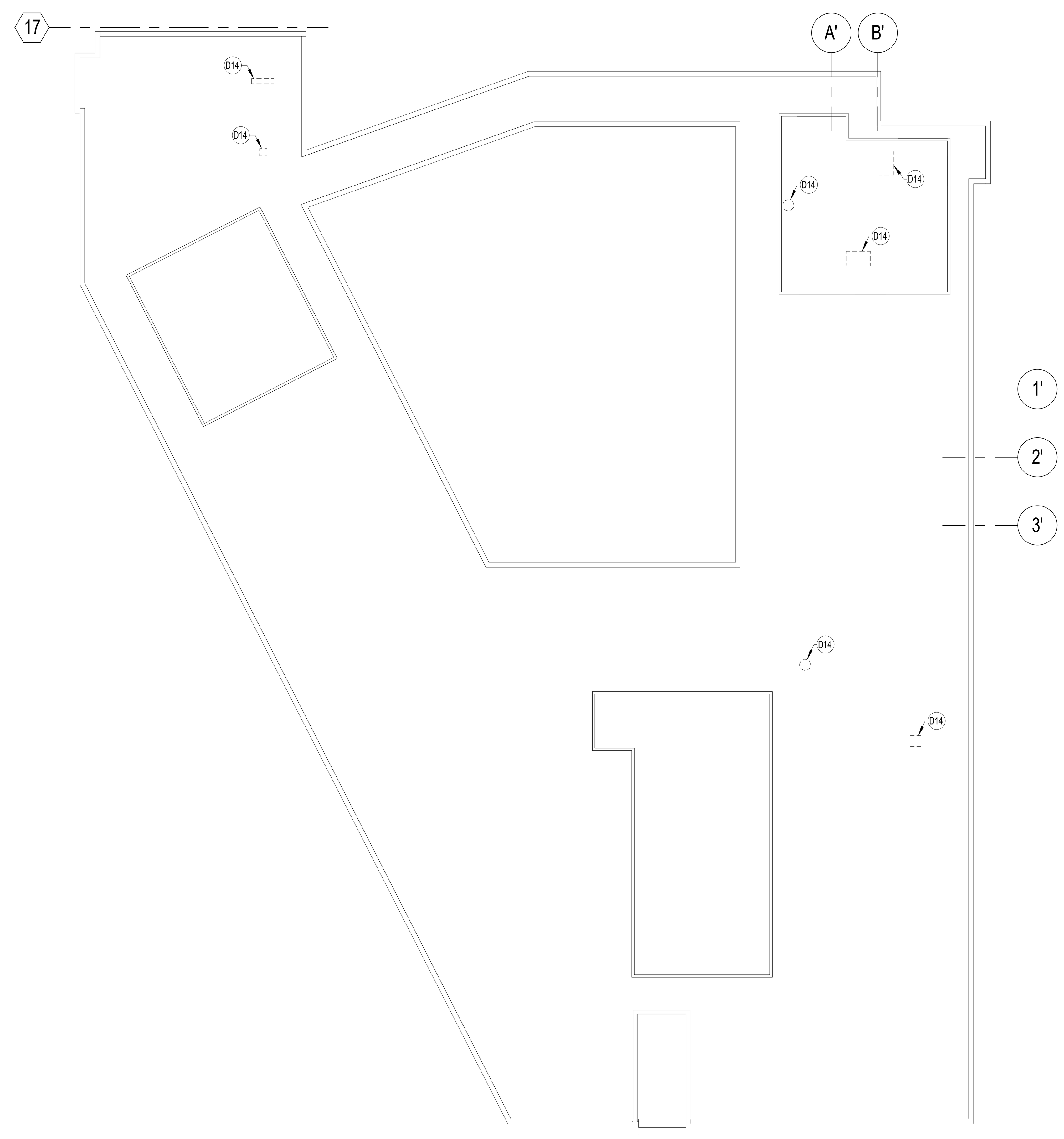
Office of Facilities Management

Department of Veterans Affairs

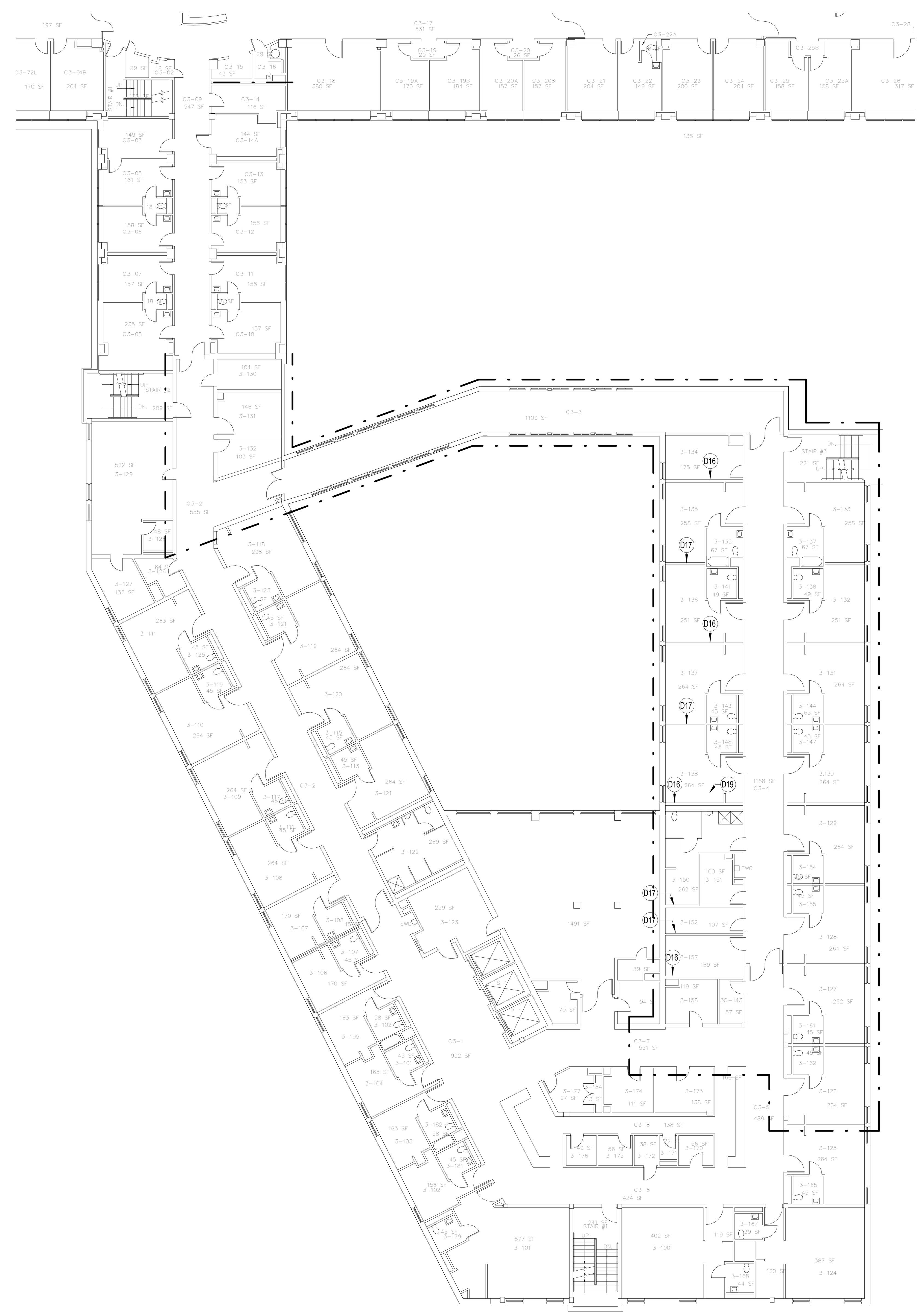
VA FORM 08-6231, OCT 1978



B2 PENTHOUSE DEMOLITION PLAN
1/16" = 1'-0"



F1 BUILDING 27 ROOF DEMOLITION PLAN
1/16" = 1'-0"



F4 PARTIAL THIRD FLOOR ABOVE CEILING DEMOLITION PLAN
1/16" = 1'-0"

DEMOLITION LEGEND

REMOVE EXISTING WALL CONSTRUCTION, SHOWN WITH DASHED LINES, IN ITS ENTIRETY FROM FLOOR TO STRUCTURE ABOVE INCLUDING DOORS, DOOR FRAMES, BORROWED LIGHTS, TERRAZZO BASE, ASSOCIATED ELEC. / MECH. WORK, ETC. PREPARE AREA FOR NEW CONSTRUCTION.

REMOVE EXISTING DOOR OR BORROWED LIGHT HOLLOW METAL FRAME ASSEMBLY, SHOWN WITH DASHED LINES. CLOSE EXISTING OPENING WITH METAL STUDS AT 16" O.C. WITH GYPSUM BOARD ON EACH SIDE. ALIGN NEW WORK FLUSH WITH EXISTING ADJACENT PARTITION. MATCH EXISTING WALL THICKNESS.

PROVIDE OPENING IN EXISTING PARTITION, SHOWN WITH DASHED LINES, AS REQUIRED TO INSTALL NEW HOLLOW METAL DOOR FRAME OR BORROWED LIGHT OF THE TYPE AND STYLE INDICATED ON THE DOOR OR BORROWED LIGHT SCHEDULE.

REMOVE EXISTING CASEWORK, COUNTERS, SHELVING, EQUIPMENT AND SUPPORTS, SHOWN WITH DASHED LINES.

REMOVE EXISTING PLUMBING FIXTURES, SHOWN WITH DASHED LINES. EXISTING PIPING SHALL BE CAPPED AS INDICATED ON THE PLUMBING DRAWINGS. ANY FLOOR PENETRATIONS DUE TO THE REMOVAL OF PIPING ARE TO BE FILLED AS NOTED IN THE CUTTING AND PATCHING GENERAL NOTES.

DEMOLITION KEYNOTES

- D1 REMOVE EXISTNG MILLWORK.
- D2 REMOVE EXPANSION JOINT COVER.
- D3 REMOVE EXISTING HEADWALL, MED GAS OUTLETS AND ASSOCIATED PLUMBING. COORDINATE WITH PLUMBING DRAWINGS.
- D4 REMOVE EXISTING ALUMINUM FRAME ASSEMBLY.
- D5 REPLACE DAMAGED ALUMINUM WINDOW TRIM.
- D6 REMOVE EXISTING WINDOW, SILL AND ASSOCIATED TRIM. PREPARE OPENING TO RECEIVE NEW ALUMINUM WINDOW AND SOLID SURFACE SILL.
- D7 REMOVE WALLCOVERING, HANDRAIL, WALL PROTECTION & BUMPER RAIL.
- D8 REMOVE GYPSUM WALLBOARD FROM EXISTING WALL.
- D9 EXISTING CEILING TO REMAIN.
- D10 EXISTING FLOOR TO REMAIN.
- D11 DEMOLISH FLOOR TO EXISTING ADJACENT FLOOR SEAM. REMOVE HANDRAILS, BUMPER RAILS, WALL BASE AND DOOR FRAME PROTECTION IN THIS AREA.
- D12 REMOVE EXISTING WINDOW AND ASSOCIATED SILL DOWN TO MASONRY OPENING. PREPARE OPENING TO RECEIVE NEW LOUVER.
- D13 REMOVE PORTION OF EXISTING EXTERIOR WALL. FRAME NEW OPENING PRIOR TO REMOVAL OF EXTERIOR FINISH SYSTEM AND SHEATHING. SHORE EXISTING WALL AND ROOF DURING DEMOLITION TO ENSURE NO DAMAGE TO EXTERIOR FINISH SYSTEM THAT IS TO REMAIN. PREPARE OPENING TO RECEIVE NEW LOUVER.
- D14 PROVIDE OPENING IN EXISTING ROOF SYSTEM. COORDINATE SIZE AND LOCATION WITH MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR FRAMING DETAILS. COORDINATE WITH NEW WORK PLANS AND DETAILS.
- D15 PROVIDE OPENING IN EXISTING CONCRETE FLOOR SYSTEM. COORDINATE SIZE AND LOCATION WITH MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR FRAMING DETAILS. COORDINATE WITH NEW WORK PLANS AND DETAILS.
- D16 REMOVE PORTION OF CMU WALL AS REQUIRED TO ACCOMODATE DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
- D17 REMOVE PORTION OF METAL STUD WALL AS REQUIRED TO ACCOMODATE DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
- D18 REMOVE GWB FROM ABOVE SOFFIT AS NEEDED TO INSTALL DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
- D19 RELOCATE SUPPORT FOR PATIENT LIFT TO ALLOW FOR DUCTWORK. SEE STRUCTURAL DRAWINGS.

DEMOLITION GENERAL NOTES

1. DEMOLITION IS INTENDED TO PREPARE THE BUILDING TO RECEIVE THE NEW WORK. THE INFORMATION PROVIDED IN NO WAY INTENDS TO MEAN THAT DEMOLITION IS LIMITED ONLY TO THOSE ITEMS SPECIFICALLY IDENTIFIED. THE CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS OF CONSTRUCTION AND EQUIPMENT WITHIN THE PROJECT AREA, INDICATED ON DEMOLITION PLAN, INCLUDING, BUT NOT LIMITED TO FLOOR MATERIAL, BASE, WALLS, FINISHES, CEILINGS, DOORS, DOOR FRAMES, CASEWORK, ELECTRICAL, MECHANICAL, PLUMBING FIXTURES AND SYSTEM, AS REQUIRED TO ALLOW FOR THE EXECUTION OF NEW WORK.

2. THE OWNER SHALL REMOVE ALL NON-BUILT-IN EXISTING MEDICAL EQUIPMENT, STORAGE UNITS AND FURNITURE. THE CONTRACTOR SHALL REMOVE OF SUPPORTS, TRACKS, BUILT IN ITEMS (STORAGE CABINETS, CASEWORK, ETC.), ALONG WITH THE NORMAL DEMOLITION WORK. THE CONTRACTOR SHALL REMOVE AND TURN OVER TO OWNER FOR STORAGE ANY ANCILLARY PIECES SUCH AS (BUT NOT LIMITED TO) MOUNTING BRACKETS, HARDWARE, MISC. SUPPORTS ITEMS, ETC. REQUIRED FOR THE REINSTALLATION OF EQUIPMENT; CONTRACTOR TO SEE EQUIPMENT BOOK FOR INFORMATION ON PLACEMENT INSTALLATION OF EXISTING AND NEW EQUIPMENT.

3. THE CONTRACTOR SHALL REMOVE ALL ITEMS TO BE DEMOLISHED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, PROJECTIONS, BOLTS, NAILS, ETC. FROM EXISTING SURFACES, AND PATCH ALL HOLES TO MATCH ADJACENT SURFACES OR PROVIDE NEW SCHEDULED FINISHES.

4. THE CONTRACTOR SHALL BRING TO THE ARCHITECT'S ATTENTION FOR DECISION ALL STRUCTURAL INTERFERENCE THAT WOULD AFFECTED THE EXECUTION OF THE NEW WORK. . NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE / CORING SHALL BE REVIEWED BY THE ARCHITECT.

5. THE CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR FINISHES AND ADHESIVE DOWN TO THE CONCRETE SLAB, AND LEAVE FLOOR SMOOTH FOR NEW FINISH. THE CONTRACTOR SHALL OBSERVE MANUFACTURER'S REQUIREMENTS FOR SUB-FLOOR PREPARATION. TREATMENT OF EXISTING FLOOR FINISHES WITHIN AREAS OF DEMOLITION SHALL BE AS FOLLOWS:
   A. CARPET: REMOVE ENTIRELY, INCLUDING PADDING. REMOVE REMAINING GLUE RESIDUE AND PATCH AS NECESSARY FOR NEW FLOOR FINISH.
   B. VINYL: REMOVE ENTIRELY AFTER MATERIAL HAS BEEN TESTED FOR ASBESTOS. REMOVE GLUE OR GROUT RESIDUE. PATCH AS NECESSARY TO PROVIDE LEVEL SURFACE.
   C. CERAMIC TILE: REMOVE ENTIRELY. PATCH AND REPAIR FLOORS WITH A LATEX LEVELING COMPOUND TO PRODUCE A SMOOTH, LEVEL SURFACE TO RECEIVE NEW FINISHES.

5. THE CONTRACTOR SHALL REMOVE EXISTING FINISHES, INCLUDING CERAMIC TILE, VINYL WALL COVERING, WALL BASE ETC. AT ALL EXISTING WALLS TO RECEIVE NEW FINISHES, UNLESS NOTED OTHERWISE, AND LEAVE WALL SURFACE SMOOTH TO RECEIVE NEW FINISHES.

6. THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK, AND PATCH AND REPAIR EXISTING CEILINGS TO MATCH EXISTING.

7. WHERE NEW CEILING ARE INDICATED, THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF NEW CEILINGS.

8. THE CONTRACTOR SHALL REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DOCUMENTS FOR REQUIRED DEMOLITION WORK AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK, ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.

9. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PHASING PLANS TO DETERMINE THE SCOPE OF WORK TO BE PERFORM IN EACH PHASE AND TO CAREFULLY INTEGRATE WITH EXISTING CONSTRUCTION TO REMAIN FOR EACH PHASE AND UPON COMPLETION OF FINAL PHASE WITH MINIMAL DISRUPTION OF BUILDING OPERATIONS.

10. REMOVE ALL CEILING WITHIN LIMIT OF WORK U.N.O.

11. ALL WALLS TO BE DEMOLISHED ARE MASONRY U.N.O.

12. REFER TO ABATEMENT DRAWINGS AND SPECS PRIOR TO DEMOLITION.

13. REMOVE ALL WALL MOUNTED DEVICES WITHIN THE PROJECT AREA.

14. REMOVE PLASTER CEILINGS ABOVE DROP ACT CEILINGS.

15. REMOVE DRYWALL CEILINGS.

16. REMOVE EXISTING STEAM RADIATION SYSTEM AS PER MEP REQUIREMENTS AND ASSOCIATED EXTERIOR WALL INSULATION TO MASONRY PER ABATEMENT REQUIREMENTS. REMOVE SILL TO WINDOW SYSTEM. PATCH EXISTING WALL WHERE COVER DOES NOT FORM A COMPLETE ENCLOSURE AROUND. SEE MEP DEMOLITION FOR EXTENT OF WORK.

CUTTING AND PATCHING GENERAL NOTES

1. WHERE EXISTING CONSTRUCTION TO REMAIN IS DAMAGE BY THE REMOVAL OF EXISTING CONSTRUCTION OR ANY OTHER WORK PREFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL PATCH, REPAIRED AND ALIGN ALL EXISTING CONSTRUCTION SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR AND PREPARE EXISTING SURFACE TO RECEIVE NEW SCHEDULED FINISHES.

2. WHERE EXISTING DUCTS, PIPES AND ELECTRICAL CONDUITS ARE LEFT EXPOSED FROM DEMOLITION WORK IN FINISHED SPACES, THE CONTRACTOR SHALL INCLOSE THEM WITH A GYPSUM WALLBOARD PARTITION.

3. WHERE EXISTING EXTERIOR WALL OR INTERIOR PARTITIONS ARE DAMAGED IN AREAS OF SELECTIVE DEMOLITION BY THE REMOVAL OF EXISTING CONSTRUCTION OR ANY OTHER DEMOLITION ACTION, THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES TO MATCH EXISTING OR PRODUCE A SMOOTH SURFACE TO RECEIVE NEW FINISHES.

4. WHERE LEVEL CHANGES, HOLES, DEPRESSIONS, OR FORMED TRENCHES ARE UNCOVERED IN EXISTING CONCRETE SLAB BY THE REMOVAL OF EXISTING WALLS / EXISTING FLOORING OR ANY OTHER DEMOLITION ACTION, THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONCRETE SURFACES WITH A LATEX OR GYPCRETE LEVELING COMPOUND UNLESS SPECIFIED OTHERWISE TO PRODUCE A SMOOTH LEVEL SURFACE TO RECEIVE NEW FINISHES.

5. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM EXISTING WALL / PARTITION TO REMAIN, THE CONTRACTOR SHALL INFILL THE OPENING / PENETRATION WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION, OR AN UL-APPROVED MATERIAL TO MAINTAIN THE EXISTING FIRE RATED ASSEMBLY.

6. WHERE WALL AREAS THAT ARE LEFT EXPOSED AS A RESULT OF AN ADDJUSTMENT IN FINISH CEILING HEIGHT. THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES TO MATCH EXISTING OR PRODUCE A SMOOTH SURFACE TO RECEIVE NEW FINISHES.

7. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY FLOOR OR ROOF ASSEMBLY TO REMAIN, THE CONTRACTOR SHALL INFILL THE OPENING WITH MATERIALS TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING, AS INDICATED BELOW:
   A. WHERE OPENINGS ARE ACCESSIBLE TO FOOT TRAFFIC, EXPOSED TO VIEW, OR ARE GREATER THAN 2", THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.
   B. AREAS NOT EXPOSED TO VIEW, OR GREATER THAN 6", THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.
   C. AREAS NOT EXPOSED TO VIEW, CONCEALED BY CONSTRUCTION OR WHERE THE OPENING IS LESS THAN 6" THE OPENING MUST BE FILLED WITH A UL DESIGN SYSTEM AS SPECIFIED IN DIVISION 7 "THROUGH PENETRATION RESISTIVE MATERIAL".

FULLY SPRINKLERED

ISSUED FOR BID

Revisions	Date

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Project Number: 3659
Scale: As indicated

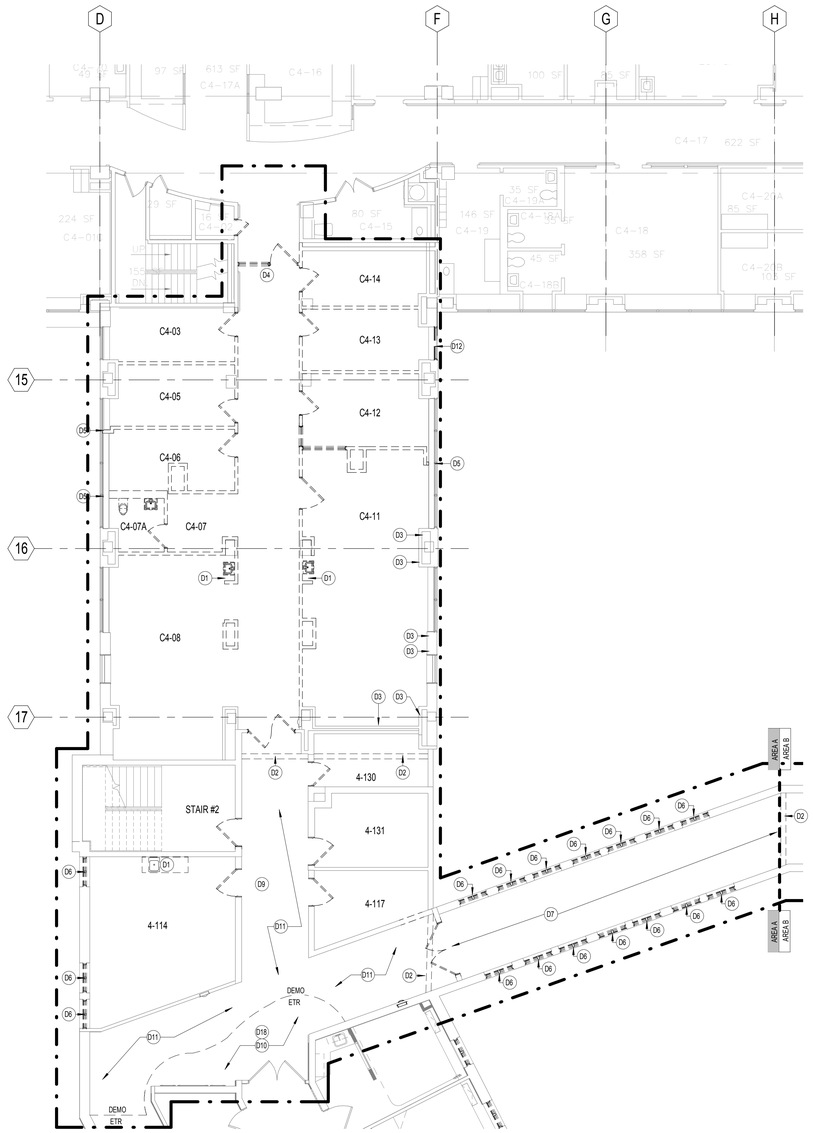
Drawing Title: THIRD FLOOR, PENTHOUSE & ROOF DEMOLITION PLANS
Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711
Date: 04/17/2013
Checked: WJ
Drawn: EN

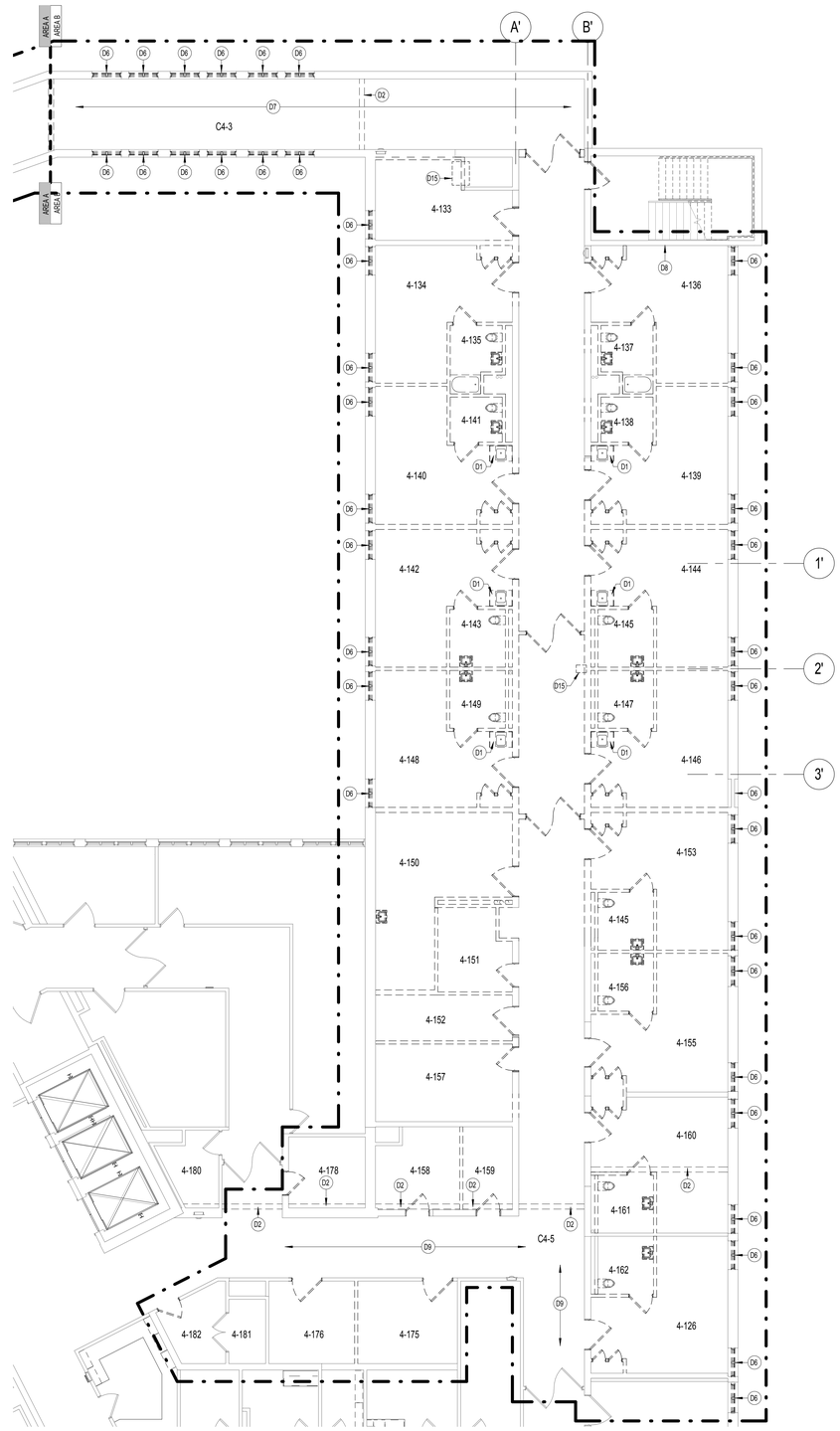
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AD-131
Dwg. 12 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

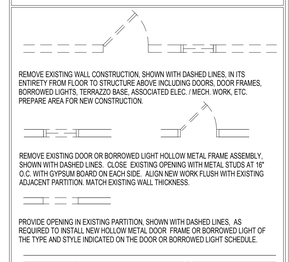


F1 PARTIAL FOURTH FLOOR DEMOLITION PLAN AREA A
1/8" = 1'-0"



F4 PARTIAL FOURTH FLOOR DEMOLITION PLAN AREA B
1/8" = 1'-0"

DEMOLITION LEGEND



CUTTING AND PATCHING GENERAL NOTES

1. WHERE EXISTING CONSTRUCTION TO REMAIN IS DAMAGE BY THE REMOVAL OF EXISTING CONSTRUCTION OR ANY OTHER WORK PREFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL PATCH, REPAIRED AND ALIGN ALL EXISTING CONSTRUCTION SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR AND PREPARE EXISTING SURFACE TO RECEIVE NEW SCHEDULED FINISHES.

2. WHERE EXISTING DUCTS, PIPES AND ELECTRICAL CONDUITS ARE LEFT EXPOSED FROM DEMOLITION WORK IN FINISHED SPACES, THE CONTRACTOR SHALL INCLOSE THEM WITH A GYPSUM WALLBOARD PARTITION.

3. WHERE EXISTING EXTERIOR WALL OR INTERIOR PARTITIONS ARE DAMAGED IN AREAS OF SELECTIVE DEMOLITION BY THE REMOVAL OF EXISTING CONSTRUCTION OR ANY OTHER DEMOLITION ACTION. THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES TO MATCH EXISTING OR PRODUCE A SMOOTH SURFACE TO RECEIVE NEW FINISHES.

4. WHERE LEVEL CHANGES, HOLES, DEPRESSIONS, OR FORMED TRENCHES ARE UNCOVERED IN EXISTING CONCRETE SLAB BY THE REMOVAL OF EXISTING WALLS / EXISTING FLOORING OR ANY OTHER DEMOLITION ACTION, THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONCRETE SURFACES WITH A LATEX OR GYPCRETE LEVELING COMPOUND UNLESS SPECIFIED OTHERWISE TO PRODUCE A SMOOTH LEVEL SURFACE TO RECEIVE NEW FINISHES.

5. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM EXISTING WALL / PARTITION TO REMAIN, THE CONTRACTOR SHALL INFILL THE OPENING / PENETRATION WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION, OR AN UL-APPROVED MATERIAL TO MAINTAIN THE EXISTING FIRE RATED ASSEMBLY.

6. WHERE WALL AREAS THAT ARE LEFT EXPOSED AS A RESULT OF AN ADDJUSTMENT IN FINISH CEILING HEIGHT. THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES TO MATCH EXISTING OR PRODUCE A SMOOTH SURFACE TO RECEIVE NEW FINISHES.

7. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY FLOOR OR ROOF ASSEMBLY TO REMAIN, THE CONTRACTOR SHALL INFILL THE OPENING WITH MATERIALS TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING, AS INDICATED BELOW:

A. WHERE OPENINGS ARE ACCESSIBLE TO FOOT TRAFFIC, EXPOSED TO VIEW, OR ARE GREATER THAN 2". THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.
B. AREAS NOT EXPOSED TO VIEW, OR GREATER THAN 6". THE OPENING MUST BE FILLED WITH A CONCRETE SYSTEM SIMILAR TO EXISTING.
C. AREAS NOT EXPOSED TO VIEW, CONCEALED BY CONSTRUCTION OR WHERE THE OPENING IS LESS THAN 6" THE OPENING MUST BE FILLED WITH A UL DESIGN SYSTEM AS SPECIFIED IN DIVISION 7 "THROUGH PENETRATION RESISTIVE MATERIAL".

DEMOLITION GENERAL NOTES

1. DEMOLITION IS INTENDED TO PREPARE THE BUILDING TO RECEIVE THE NEW WORK. THE INFORMATION PROVIDED IN NO WAY INTENDS TO MEAN THAT DEMOLITION IS LIMITED ONLY TO THOSE ITEMS SPECIFICALLY IDENTIFIED. THE CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS OF CONSTRUCTION AND EQUIPMENT WITHIN THE PROJECT AREA, INDICATED ON DEMOLITION PLAN, INCLUDING, BUT NOT LIMITED TO FLOOR MATERIAL, BASE, WALLS, FINISHES, CEILINGS, DOORS, DOOR FRAMES, CASEWORK, ELECTRICAL, MECHANICAL, PLUMBING FIXTURES AND SYSTEM, AS REQUIRED TO ALLOW FOR THE EXECUTION OF NEW WORK.

2. THE OWNER SHALL REMOVE ALL NON-BUILT-IN EXISTING MEDICAL EQUIPMENT, STORAGE UNITS AND FURNITURE. THE CONTRACTOR SHALL REMOVE OF SUPPORTS, TRACKS, BUILT IN ITEMS (STORAGE CABINETS, CASEWORK, ETC.), ALONG WITH THE NORMAL DEMOLITION WORK. THE CONTRACTOR SHALL REMOVE AND TURN OVER TO OWNER FOR STORAGE ANY ANCILLARY PIECES SUCH AS (BUT NOT LIMITED TO) MOUNTING BRACKETS, HARDWARE, MISC. SUPPORTS ITEMS, ETC. REQUIRED FOR THE REINSTALLATION OF EQUIPMENT. CONTRACTOR TO SEE EQUIPMENT BOOK FOR INFORMATION ON PLACEMENT INSTALLATION OF EXISTING AND NEW EQUIPMENT.

3. THE CONTRACTOR SHALL REMOVE ALL ITEMS TO BE DEMOLISHED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, PROJECTIONS, BOLTS, NAILS, ETC. FROM EXISTING SURFACES, AND PATCH ALL HOLES TO MATCH ADJACENT SURFACES OR PROVIDE NEW SCHEDULED FINISHES.

4. THE CONTRACTOR SHALL BRING TO THE ARCHITECT'S ATTENTION FOR DECISION ALL STRUCTURAL INTERFERENCE THAT WOULD AFFECTED THE EXECUTION OF THE NEW WORK. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE / CORING SHALL BE REVIEWED BY THE ARCHITECT.

5. THE CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR FINISHES AND ADHESIVE DOWN TO THE CONCRETE SLAB, AND LEAVE FLOOR SMOOTH FOR NEW FINISH. THE CONTRACTOR SHALL OBSERVE MANUFACTURER'S REQUIREMENTS FOR SUB-FLOOR PREPARATION. TREATMENT OF EXISTING FLOOR FINISHES WITHIN AREAS OF DEMOLITION SHALL BE AS FOLLOWS:
A. CARPET: REMOVE ENTIRELY, INCLUDING PADDING. REMOVE REMAINING GLUE RESIDUE AND PATCH AS NECESSARY FOR NEW FLOOR FINISH.
B. VINYL: REMOVE ENTIRELY AFTER MATERIAL HAS BEEN TESTED FOR ASBESTOS. REMOVE GLUE OR GROUT RESIDUE. PATCH AS NECESSARY TO PROVIDE LEVEL SURFACE.
C. CERAMIC TILE: REMOVE ENTIRELY. PATCH AND REPAIR FLOORS WITH A LATEX LEVELING COMPOUND TO PRODUCE A SMOOTH, LEVEL SURFACE TO RECEIVE NEW FINISHES.

5. THE CONTRACTOR SHALL REMOVE EXISTING FINISHES, INCLUDING CERAMIC TILE, VINYL WALL COVERING, WALL BASE ETC. AT ALL EXISTING WALLS TO RECEIVE NEW FINISHES, UNLESS NOTED OTHERWISE, AND LEAVE WALL SURFACE SMOOTH TO RECEIVE NEW FINISHES.

6. THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK, AND PATCH AND REPAIR EXISTING CEILINGS TO MATCH EXISTING.

7. WHERE NEW CEILING ARE INDICATED, THE CONTRACTOR SHALL REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF NEW CEILINGS.

8. THE CONTRACTOR SHALL REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DOCUMENTS FOR REQUIRED DEMOLITION WORK AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK, ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.

9. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH PHASING PLANS TO DETERMINE THE SCOPE OF WORK TO BE PERFORM IN EACH PHASE AND TO CAREFULLY INTEGRATE WITH EXISTING CONSTRUCTION TO REMAIN FOR EACH PHASE AND UPON COMPLETION OF FINAL PHASE WITH MINIMAL DISRUPTION OF BUILDING OPERATIONS.

10. REMOVE ALL CEILING WITHIN LIMIT OF WORK U.N.O.

11. ALL WALLS TO BE DEMOLISHED ARE MASONRY U.N.O.

12. REFER TO ABATEMENT DRAWINGS AND SPECS PRIOR TO DEMOLITION.

13. REMOVE ALL WALL MOUNTED DEVICES WITHIN THE PROJECT AREA.

14. REMOVE PLASTER CEILINGS ABOVE DROP ACT CEILINGS.

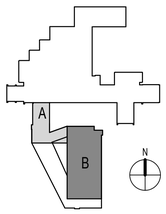
15. REMOVE DRYWALL CEILINGS.

16. REMOVE EXISTING STEAM RADIATION SYSTEM AS PER MEP REQUIREMENTS AND ASSOCIATED EXTERIOR WALL INSULATION TO MASONRY PER ABATEMENT REQUIREMENTS. REMOVE SILL TO WINDOW SYSTEM. PATCH EXISTING WALL WHERE COVER DOES NOT FORM A COMPLETE ENCLOSURE AROUND. SEE MEP DEMOLITION FOR EXTENT OF WORK.

DEMOLITION KEYNOTES

D1 REMOVE EXISTING MILLWORK.
D2 REMOVE EXPANSION JOINT COVER.
D3 REMOVE EXISTING HEADWALL, MED GAS OUTLETS AND ASSOCIATED PLUMBING. COORDINATE WITH PLUMBING DRAWINGS.
D4 REMOVE EXISTING ALUMINUM FRAME ASSEMBLY.
D5 REPLACE DAMAGED ALUMINUM WINDOW TRIM.
D6 REMOVE EXISTING WINDOW, SILL AND ASSOCIATED TRIM. PREPARE OPENING TO RECEIVE NEW ALUMINUM WINDOW AND SOLID SURFACE SILL.
D7 REMOVE WALLCOVERING, HANDRAIL, WALL PROTECTION & BUMPER RAIL.
D8 REMOVE GYPSUM WALLBOARD FROM EXISTING WALL.
D9 EXISTING CEILING TO REMAIN.
D10 EXISTING FLOOR TO REMAIN.
D11 DEMOLISH FLOOR TO EXISTING ADJACENT FLOOR SEAM. REMOVE HANDRAILS, BUMPER RAILS, WALL BASE AND DOOR FRAME PROTECTION IN THIS AREA.
D12 REMOVE EXISTING WINDOW AND ASSOCIATED SILL DOWN TO MASONRY OPENING. PREPARE OPENING TO RECEIVE NEW LOUVER.
D13 REMOVE PORTION OF EXISTING EXTERIOR WALL. FRAME NEW OPENING PRIOR TO REMOVAL OF EXTERIOR FINISH SYSTEM AND SHEATHING. SHORE EXISTING WALL AND ROOF DURING DEMOLITION TO ENSURE NO DAMAGE TO EXTERIOR FINISH SYSTEM THAT IS TO REMAIN. PREPARE OPENING TO RECEIVE NEW LOUVER.
D14 PROVIDE OPENING IN EXISTING ROOF SYSTEM. COORDINATE SIZE AND LOCATION WITH MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR FRAMING DETAILS. COORDINATE WITH NEW WORK PLANS AND DETAILS.
D15 PROVIDE OPENING IN EXISTING CONCRETE FLOOR SYSTEM. COORDINATE SIZE AND LOCATION WITH MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR FRAMING DETAILS. COORDINATE WITH NEW WORK PLANS AND DETAILS.
D16 REMOVE PORTION OF CMU WALL AS REQUIRED TO ACCOMODATE DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
D17 REMOVE PORTION OF METAL STUD WALL AS REQUIRED TO ACCOMODATE DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
D18 REMOVE GWB FROM ABOVE SOFFIT AS NEEDED TO INSTALL DUCTWORK. PATCH AND REPAIR TO MATCH EXISTING.
D19 RELOCATE SUPPORT FOR PATIENT LIFT TO ALLOW FOR DUCTWORK. SEE STRUCTURAL DRAWINGS.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: FOURTH FLOOR DEMOLITION PLANS

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Approved: Project Director

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

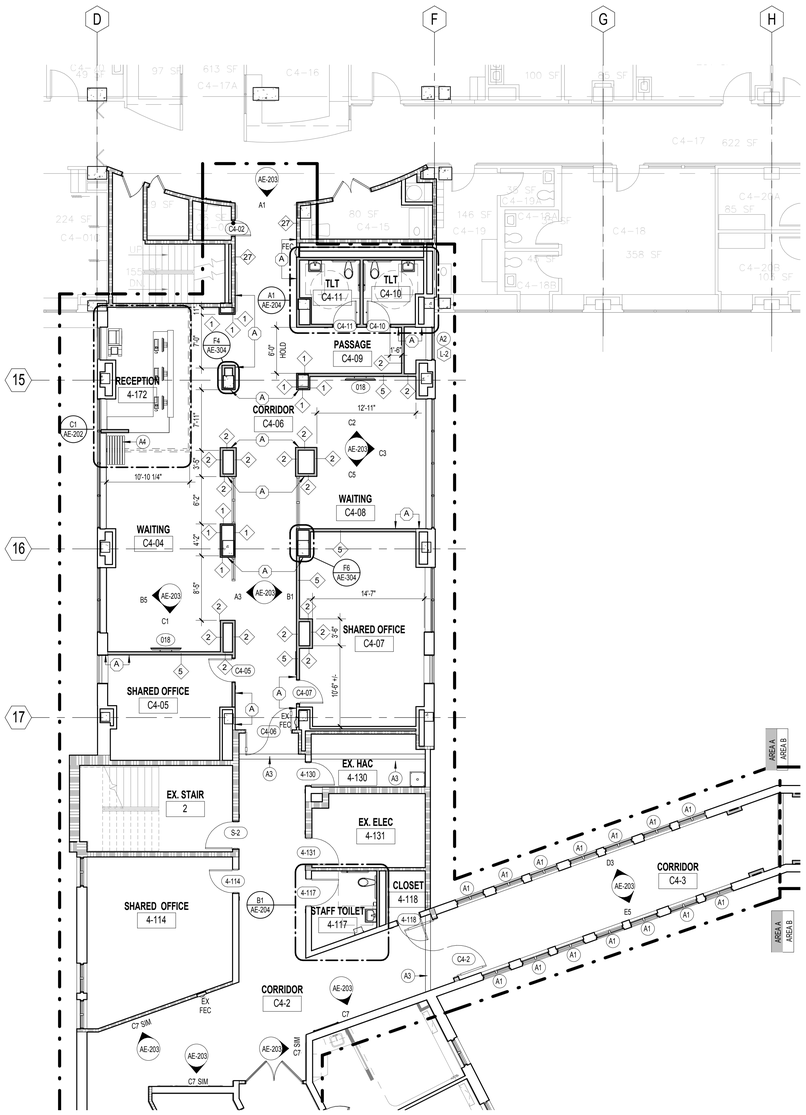
Drawing Number: AD-141

Dwg. 13 of 79

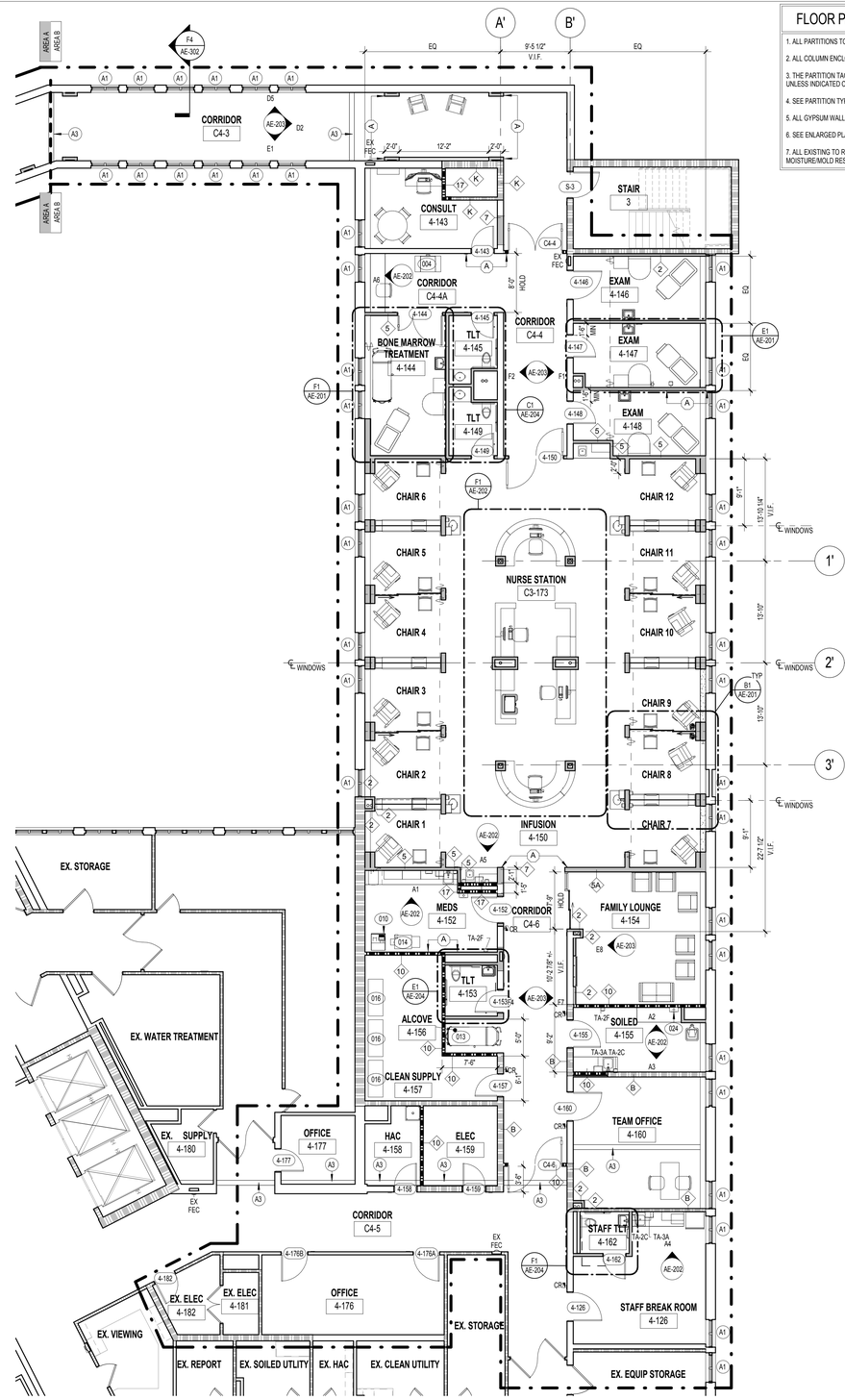
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR ARCHITECTURAL PLAN AREA A
1/8" = 1'-0"



F4 FOURTH FLOOR ARCHITECTURAL PLAN AREA B
1/8" = 1'-0"

FLOOR PLAN PARTITION GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE 5 UNLESS INDICATED OTHERWISE.
2. ALL COLUMN ENCLOSURES TO BE PARTITION TYPE 2 UNLESS INDICATED OTHERWISE.
3. THE PARTITION TAG INDICATES THE TYPE OF PARTITION FROM CORNER TO CORNER UNLESS INDICATED OTHERWISE.
4. SEE PARTITION TYPES ON SHEET AE-304 FOR ADDITIONAL INFORMATION.
5. ALL GYPSUM WALLBOARD TO BE MOISTURE RESISTANT PER SPECIFICATION.
6. SEE ENLARGED PLANS FOR WALL TYPES OF ENLARGED AREAS.
7. ALL EXISTING TO REMAIN EXPOSED CMU WALLS TO HAVE ONE LAYER OF 5/8" MOISTURE/MOLD RESISITANT GYPSUM WALLBOARD APPLIED TO WALL.

ARCHITECTURAL KEYNOTES

- A1 INSTALL NEW ALUMINUM WINDOW IN EXISTING OPENING. VERIFY OPENING SIZE IN FIELD. SEE DETAILS ON SHEET AE-305.
- A2 INSTALL NEW ALUMINUM LOUVER IN EXISTING OPENING. VERIFY OPENING SIZE IN FIELD. SEE DETAILS ON SHEET AE-151.
- A3 INSTALL NEW EXPANSION JOINT COVER.
- A4 GLASS PANEL WALL SYSTEM.

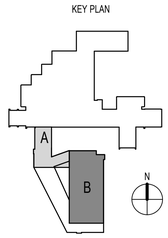
ARCHITECTURAL FLOOR PLAN GENERAL NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS IN LARGE SCALE PLANS, ELEVATIONS, AND DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. SEE TYPICAL COLUMN ENCLOSURE DETAIL ON SHEET AE-302.
3. WHERE A ONE HOUR OR NON-RATED PARTITION IS SHOWN AS A CONTINUATION OF A TWO HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND AN ADDITIONAL LAYER OF GYPSUM BOARD SHALL BE PROVIDED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
4. ALL WALL MOUNTED LAVATORIES SHALL BE MOUNTED TO ALLOW FOR 1'-3" MINIMUM BETWEEN THE CENTERLINE OF THE LAVATORY AND FACE OF ADJACENT WALL. UNLESS OTHERWISE NOTED. THERE IS AN ADDITIONAL REQUIREMENT TO PROVIDE A MINIMUM OF 4" BETWEEN SIDE OF LAVATORY AND FACE OF ADJACENT WALL. FIXED EQUIPMENT, CASEWORK, ETC. ALL BACK-TO-BACK LAVATORIES TO BE INSTALLED IN WALL TYPE 5A.
5. ALL WATER CLOSETS SHALL BE MOUNTED SO THAT THERE IS 1'-6" BETWEEN FACE OF THE CLOSEST ADJACENT SIDE WALL OR TOILET PARTITION AND THE CENTERLINE OF THE WATER CLOSET. THE FLUSH VALVE FOR ALL WATER CLOSETS SHALL BE MOUNTED ON THE "OPEN-MOST" SIDE OF THE WATER CLOSET AT 44" MAXIMUM A.F.F. TO THE TOP.
6. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMODATE DEPTH REQUIRED BY PLUMBING WIRES.
7. DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK. REFER TO CASEWORK NOTES FOR ADDITIONAL INFORMATION.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LATEXING AND TAPERING EXISTING CONCRETE FLOOR SLAB WHERE MATERIAL CHANGES OCCUR.
9. CONTRACTOR SHALL BUILD OUT PARTITIONS TO ACCOMMODATE DEPTH REQUIRED BY FIRE EXTINGUISHER CABINETS AND RECESSED POWER PANELS. COORDINATE WITH ENGINEERING DRAWINGS. FINAL LOCATIONS OF ALL CABINETS AND PANELS TO BE APPROVED BY ARCHITECT.
10. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THRU METAL STUD / GYPSUM PARTITIONS. REFER TO DETAILS TO FOLLOW FOR PATCHING PENETRATIONS IN RATED WALLS.
11. CONTRACTOR TO COORDINATE LOCATION OF CONSTRUCTION JOINTS WITH FINISH FLOOR MATERIALS SO THAT NO CONSTRUCTION JOINT IS LOCATED BENEATH CERAMIC, PORCELAIN OR QUARRY TILES.
12. SEE AE-201 FOR EQUIPMENT SCHEDULE.

PARTITION PLAN INDICATIONS

- EXISTING PARTITION TO BE REMOVED
- EXISTING PARTITION TO REMAIN
- EXISTING SMOKE PARTITION
- EXISTING ONE HOUR SMOKE BARRIER
- EXISTING TWO HOUR FIRE BARRIER
- TEMPORARY PARTITION
- T — TYPICAL FURRING
- 2 — TYPICAL NON RATED PARTITION
- 5 — TYPICAL NON RATED SMOKE PARTITION
- 8 — TYPICAL ONE HOUR RATED PARTITION
- 10 — TYPICAL ONE HOUR SMOKE BARRIER
- 10A

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: FOURTH FLOOR ARCHITECTURAL & DIMENSION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

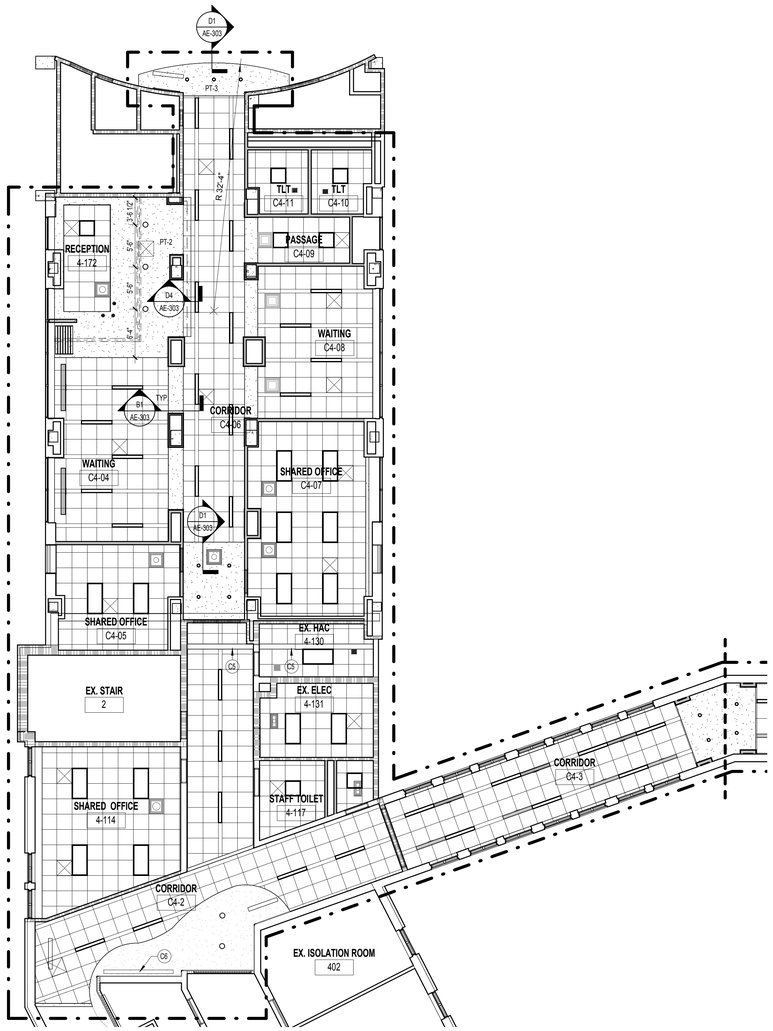
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

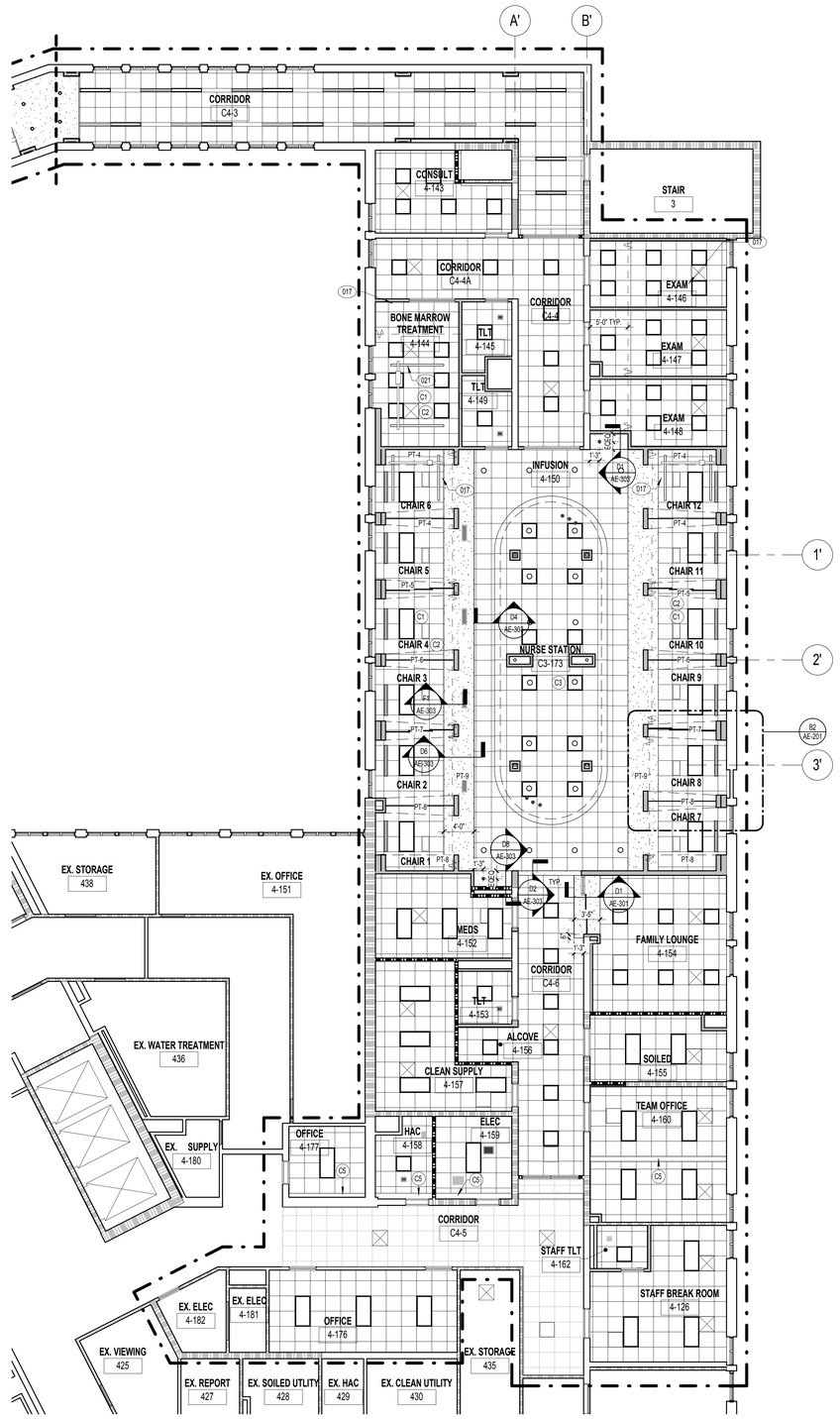
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-141
Dwg. 14 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR REFLECTED CEILING PLAN AREA A
1/8" = 1'-0"



F4 FOURTH FLOOR REFLECTED CEILING PLAN AREA B
1/8" = 1'-0"

REFLECTED CEILING GENERAL NOTES

1. CONTRACTOR TO INSTALL CEILING IN ALL ROOMS AS SHOWN IN THE REFLECTED CEILING PLAN AND AS INDICATED IN THE FINISH SCHEDULE TO RECEIVE NEW CEILINGS. FOLLOW CEILING SYMBOL LEGEND FOR CEILING LAYOUT.

2. WHERE NEW CEILING ARE INDICATED, REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF NEW CEILINGS. PATCH AND REPAIR EXISTING WALLS AS REQUIRED TO INSTALL NEW FINISHES.

3. REMOVE ALL EXISTING CEILINGS TO ALLOW FOR PROPER INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK. PATCH AND REPAIR EXISTING CEILINGS TO MATCH EXISTING OR INSTALL NEW CEILINGS AS INDICATED ON THE REFLECTED CEILING PLAN AND/OR FINISH PLAN.

4. THE CONTRACTOR MUST SUBMIT TO ARCHITECT COORDINATED REFLECTED CEILING PLAN FOR. REVIEW AND APPROVAL INCORPORATING LIGHT FIXTURES, SPRINKLER HEADS AND MECHANICAL LAYOUTS.

5. REFER TO HVAC DRAWINGS FOR LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLS.

6. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, NURSE CALL DOME LIGHTS, ETC.

7. SPRINKLER HEADS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS. SPRINKLER HEADS TO ALIGN WITH EACH OTHER IN BOTH NORTHSOUTH AND EASTWEST DIRECTIONS WHERE THEY OCCUR IN A SINGLE SPACE. SIMILARLY FOR OTHER CEILING DEVISES. THE CONTRACTOR SHALL INSTALL SUFFICIENT SPRINKLER HEADS IN ALL SPACES TO PROVIDE (100%) COVERAGE AS DEFINED IN NFPA 13. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF THE SPRINKLER HEADS.

8. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS IN GYPSUM BOARD CEILINGS AND IN HARD SURFACE SOFFITS SO THAT THE ARCHITECT, THE STATE AND LOCAL OFFICIALS CAN INSPECT RATED WALLS. THESE ACCESS PANELS SHALL BE LOCATED AS NECESSARY TO VIEW ALL SURFACES OF THE RATED WALL(S).

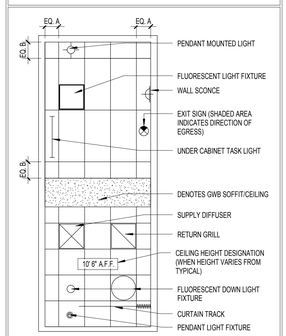
9. ALL ACT CEILINGS ARE 8'-0" U.N.O.

10. ALL GWB SOFFIT CEILINGS ARE 7'-10" U.N.O AND PT-6 @ CEILINGS AND THEIR SOFFIT FASCIAS W/ GWB.

11. WHERE SUPPORT WIRES FOR ACOUSTICAL CEILING GRID CANNOT BE INSTALLED VERTICALLY, THE CONTRACTOR SHALL PROVIDE A UNISTRUT BENEATH THE OBSTRUCTION AS TO PERMIT WIRES TO BE VERTICALLY ATTACHED TO THE UNISTRUT.

12. ALL CURTAIN TRACKS SHALL BE SUPPORTED INDEPENDENT OF THE CEILING AND SUSPENSION SYSTEM.

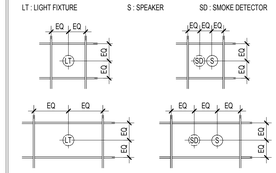
CEILING SYMBOL LEGEND



CEILING CONTRACTOR TO MEASURE EACH CEILING AREA AND ESTABLISH A CEILING LAYOUT TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH ROOM. AVOID USE OF LESS-THAN 6" TILES.

FIXTURE MOUNTING MATRIX

LT : LIGHT FIXTURE S : SPEAKER SD : SMOKE DETECTOR



TYPICAL SINGLE DEVICE MOUNTING TYPICAL DOUBLE DEVICE MOUNTING

REFLECTED CEILING PLAN KEYNOTES

C1 CEILING CONTRACTOR TO COORDINATE CEILING LAYOUT IN ROOM WITH EQUIPMENT SUPPORT RAILS AND OTHER CEILING MOUNTED EQUIPMENT.

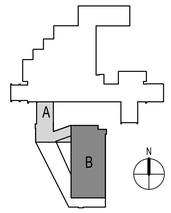
C2 CONTRACTOR TO SUPPLY AND INSTALL UNISTRUT SUPPORT SYSTEM EQUIPMENT RAILS, MOUNTING PLATES ETC. TO SUPPORT PATIENT LIFTS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. SEE ALSO DETAILS A1 AND A3/AE-302.

C3 SUSPENDED WOOD CEILING (C-3)

C4 REMOVE EXISTING CAN LIGHTS. REPLACE CEILING TILES AS NEEDED.

C5 INSTALL NEW EXPANSION JOINT COVER.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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VA Project Number: 693-11-122

Building Number: 1 & 27

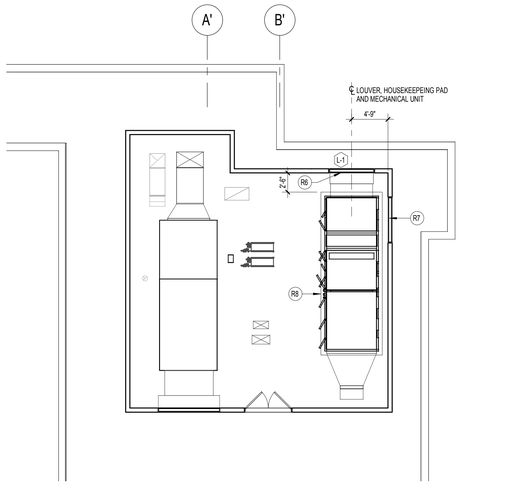
Drawing Number: AE-142

Dwg. 15 of 79

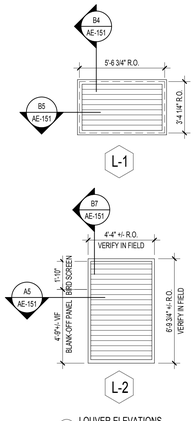
Office of Facilities Management

Department of Veterans Affairs

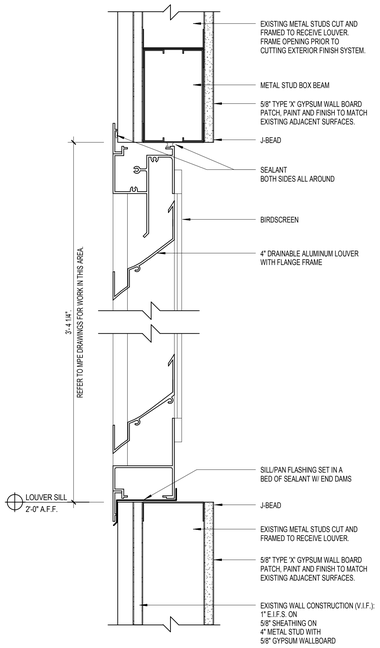
VA FORM 08-6231, OCT 1978



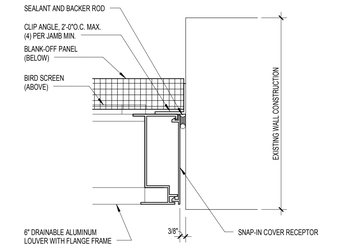
B1 PENTHOUSE 1 ARCHITECTURAL AND DIMENSION PLAN
1/8" = 1'-0"



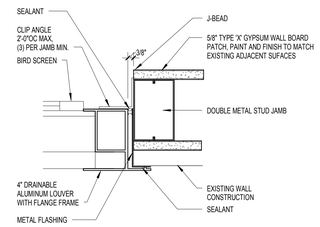
B2 LOUVER ELEVATIONS
1/4" = 1'-0"



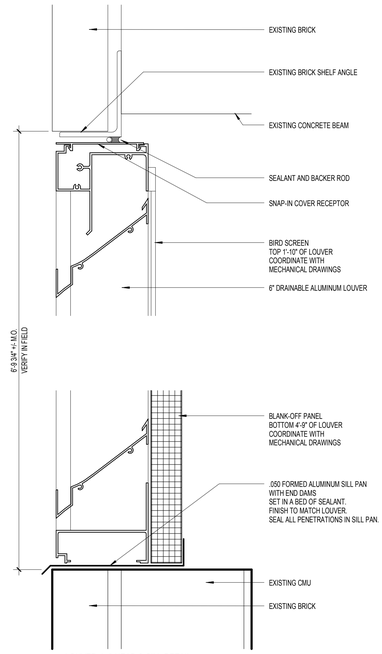
B4 LOUVER L-1 HEAD & SILL DETAIL
3" = 1'-0"



A5 LOUVER L-2 JAMB DETAIL
3" = 1'-0"



B5 LOUVER L-1 JAMB DETAIL
3" = 1'-0"



B7 LOUVER L-2 HEAD & SILL DETAIL
3" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ALL DEMOLITION AND PATCHING WORK TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 01 73 29, CUTTING AND PATCHING AND SECTION 02 41 00, DEMOLITION.

2. NOTIFY ARCHITECT OF DISREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.

3. REMOVE NO MORE EXISTING ROOFING THAN WHAT CAN BE COVERED IN ONE DAY BY NEW ROOFING AND SO THAT BUILDING INTERIOR REMAINS WATERTIGHT AND WEATHERTIGHT.

4. REMOVE, REPLACE, PATCH AND REPAIR MATERIALS AND SURFACES CUT OR DAMAGED DURING DEMOLITION AND INSTALLATION, BY METHODS AND WITH MATERIALS SO AS NOT TO VOID EXISTING ROOF WARRANTIES. NOTIFY ROOF WARRANTOR BEFORE PROCEEDING.

5. NOTIFY ROOF WARRANTOR ON COMPLETION OF SELECTIVE DEMOLITION, AND OBTAIN DOCUMENTATION VERIFYING THAT EXISTING ROOF SYSTEM HAS BEEN INSPECTED AND WARRANTY REMAINS IN EFFECT. SUBMIT DOCUMENTATION AT PROJECT CLOSEOUT.

6. NEW FLASHING AND SEALANT SHALL BE COMPATIBLE WITH EXISTING ROOFING SYSTEM.

7. SUPPORT EXISTING METAL DECK AT ALL NEW ROOF PENETRATIONS AS SHOWN ON STRUCTURAL DRAWINGS.

8. PROVIDE CRICKETS AT ALL NEW ROOF CURBS, EQUIPMENT SUPPORTS AND ENCLOSURES TO ENSURE POSITIVE DRAINAGE TO EXISTING ROOF DRAINS.

9. CRICKETS SLOPE 1/2" PER FOOT.

EXTERIOR & ROOF PLAN KEYNOTES

R1 CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AND METAL DECK AS REQUIRED TO INSTALL ROOF CURB AND AIR HANDLING UNITS. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WATERTIGHT SEAL. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

R2 CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AND METAL DECK AS REQURED TO INSTALL THRU-ROOF MECHANICAL DUCT AND ROOF CURB. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WATERTIGHT SEAL. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

R3 NOT USED

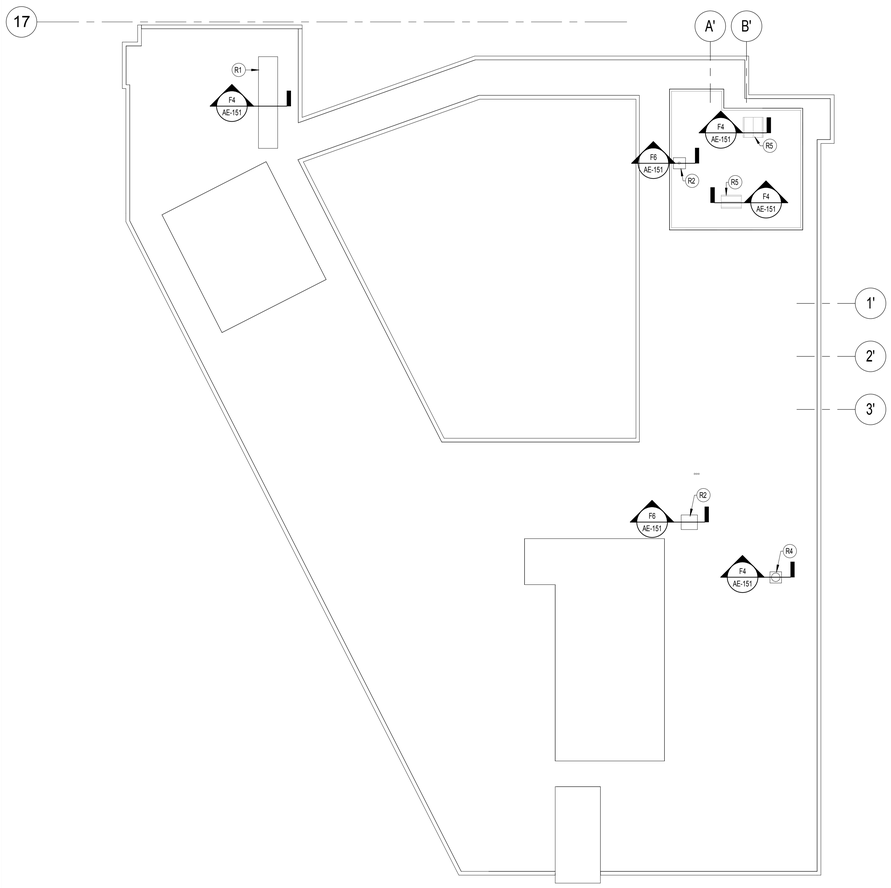
R4 CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AND METAL DECK AS REQURED TO INSTALL ROOF CURB FOR MECHANICAL EXHAUST FAN. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WATERTIGHT SEAL. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

R5 CONTRACTOR TO CUT EXISTING ROOFING SYSTEM AND METAL DECK AS REQURED TO INSTALL ROOF CURB FOR MECHANICAL VENT ROOF CAP. CONTRACTOR TO PATCH AND REPAIR ROOF TO PROVIDE A WATERTIGHT SEAL. REFER TO STRUCTURAL AND MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

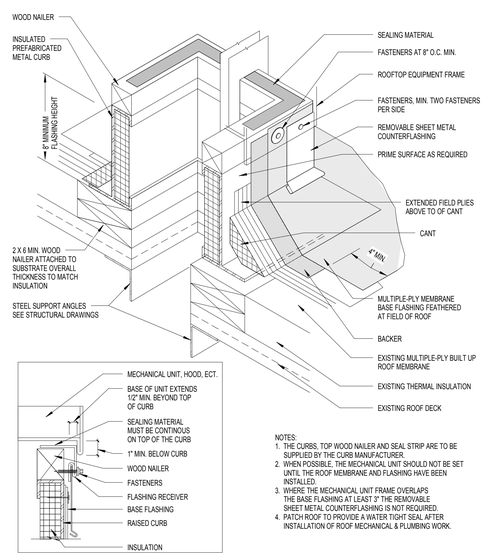
R6 CONTRACTOR TO CUT EXISTING WALL SYSTEM AND PROVIDE FRAMING SUPPORT AS REQURED TO INSTALL ALUMINUM LOUVER. CONTRACTOR TO PATCH AND REPAIR WALL TO PROVIDE A WATERTIGHT SEAL. REFER TO MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

R7 INSTALL 2" INSULATED BLANK-OFF PANEL BEHIND EXISTING LOUVER TO REMAIN. . REFER TO MPE DRAWINGS FOR RELATED WORK IN THIS AREA.

R8 INSTALL 6" THICK CONCRETE HOUSEKEEPING PAD 6" LARGER THAN MECHANICAL UNIT ON EACH SIDE FOR NEW MECHANICAL UNIT. REFER TO MPE DRAWINGS FOR RELATED WORK IN THIS AREA. REFER TO STRUCTURAL DRAWINGS FOR DETAIL.

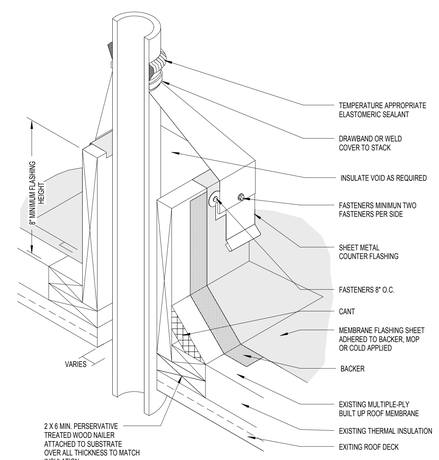


F1 BUILDING 27 ROOF PLAN
1/16" = 1'-0"



NOTES:
1. THE CURBS, TOP WOOD NAILER AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. WHEN POSSIBLE, THE MECHANICAL UNIT SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
3. WHERE THE MECHANICAL UNIT FRAME OVERLAPS THE BASE FLASHING AT LEAST 3" THE REMOVIABLE SHEET METAL COUNTERFLASHING IS NOT REQUIRED.
4. PATCH ROOF TO PROVIDE A WATER TIGHT SEAL AFTER INSTALLATION OF ROOF MECHANICAL & PLUMBING WORK.

F4 MOP OR COLD APPLIED FLASHING AT INSULATED PREFABRICATED METAL CURB
1 1/2" = 1'-0"

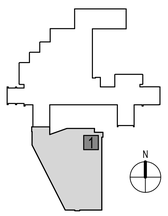


NOTES:

1. THIS DETAIL ALLOWS THE OPENING TO BE COMPLETED BEFORE THE STACK IS PLACED.
2. THE CLEARANCE NECESSARY BETWEEN THE OPTIONAL GYPSUM OR METAL LINER AND THE STACK AND THE NEED FOR INSULATION WILL DEPEND ONTHE TEMPERTURE OF THE MATERIAL HANDLED BY THE STACK.
3. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMANT OPTIONS FOR SHEET METAL.
4. REFER TO THE BURMB INTRODUCTION FOR ADDITIONAL INFORMATION.

F6 MOP OR COLD APPLIED FLASHING AT ISOLATED STACK FLASHING
1 1/2" = 1'-0"

KEY PLAN



FULLY SPRINKLERED
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Revisions	Date

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3659	As indicated

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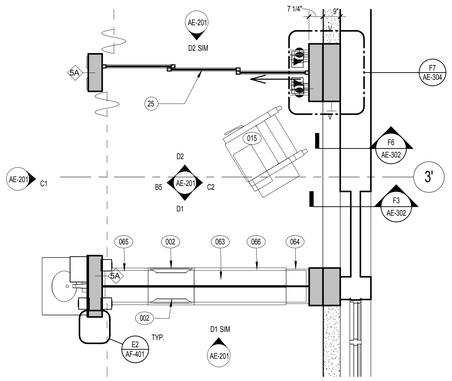
04/17/2013	WJ	WJ

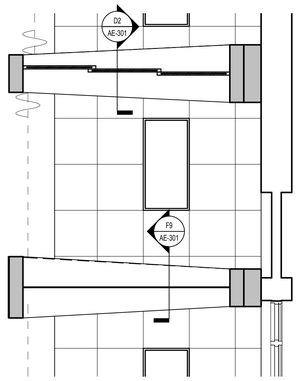
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-151
Dwg. 16 of 79

Office of Facilities Management
Department of Veterans Affairs

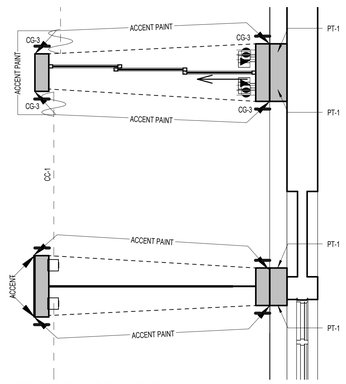
VA FORM 08-6231, OCT 1978



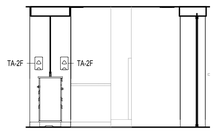
B1 ENLARGED PLAN - TYPICAL INFUSION BAY
3/8" = 1'-0"



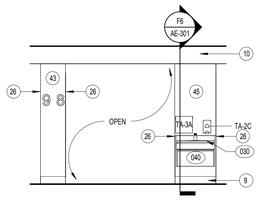
B2 ENLARGED REFLECTED CEILING PLAN - TYPICAL INFUSION BAY
3/8" = 1'-0"



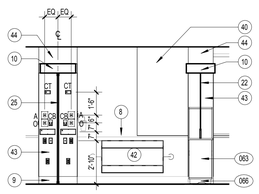
B3 ENLARGED FINISH PLAN - TYPICAL INFUSION BAY
3/8" = 1'-0"



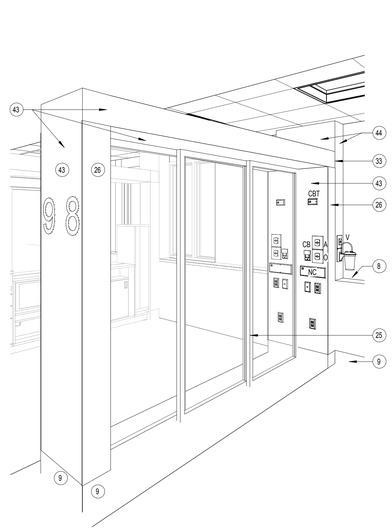
B5 TYPICAL INFUSION BAY
1/4" = 1'-0"



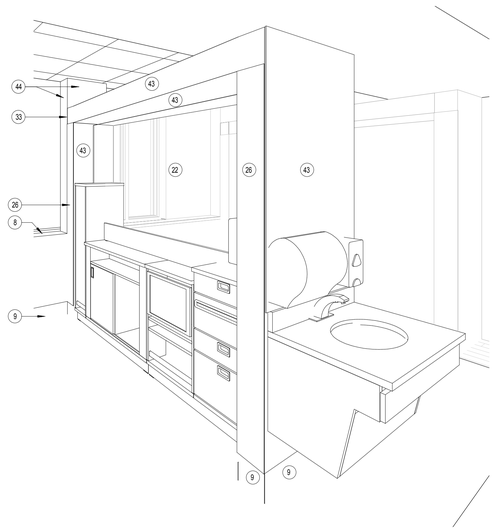
C1 TYPICAL INFUSION BAY
1/4" = 1'-0"



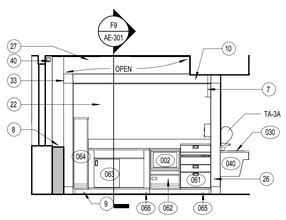
C2 TYPICAL INFUSION BAY
1/4" = 1'-0"



D3 VIEW AT INFUSION HEADWALL



D5 VIEW AT INFUSION CASEWORK



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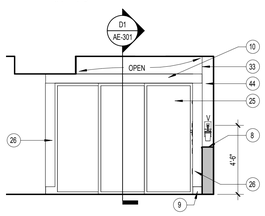

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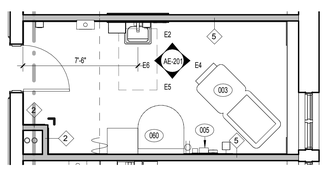
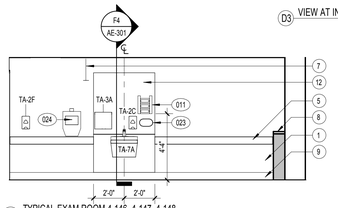
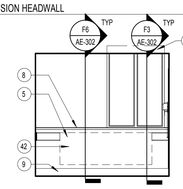


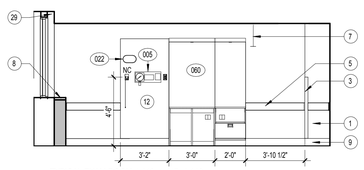
E1 TYPICAL EXAM ROOM 4-146, 4-147, 4-148
1/4" = 1'-0"



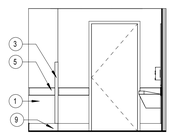
E2 TYPICAL EXAM ROOM 4-146, 4-147, 4-148
1/4" = 1'-0"



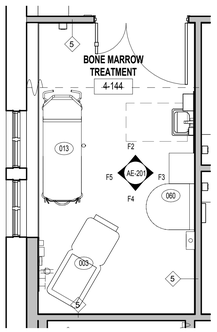
E4 TYPICAL EXAM ROOM 4-146, 4-147, 4-148
1/4" = 1'-0"



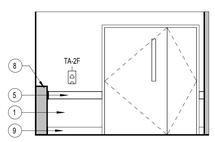
E5 TYPICAL EXAM ROOM 4-146, 4-147, 4-148
1/4" = 1'-0"



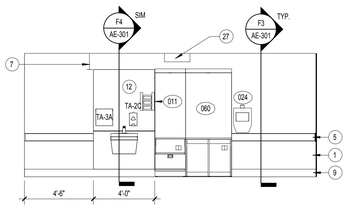
E6 TYPICAL EXAM ROOM 4-146, 4-147, 4-148
1/4" = 1'-0"



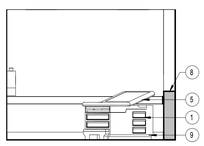
F1 ENLARGED PLAN - 4-144 BONE MARROW TREAMTENT
1/4" = 1'-0"



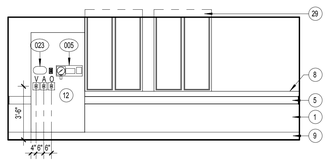
F2 BONE MARROW TREATMENT 4-144 NORTH
1/4" = 1'-0"



F3 BONE MARROW TREATMENT 4-144 EAST
1/4" = 1'-0"



F4 BONE MARROW TREATMENT 4-144 SOUTH
1/4" = 1'-0"



F5 BONE MARROW TREATMENT 4-144 WEST
1/4" = 1'-0"

EQUIPMENT PLAN SYMBOL LEGEND

001	EQUIPMENT TAG	DOOR HARDWARE	
01	FURNITURE TAG	CR	CARD READER
		PP	PUSH PLATE
		HO	MAGNETIC HOLD OPEN

EQUIPMENT GENERAL NOTES

1. CONTRACTOR TO SEE THE EQUIPMENT SCHEDULE FOR SCOPE OF WORK AND RESPONSIBILITY IN THE PURCHASING, PLACEMENT AND INSTALLATION OF EQUIPMENT.

2. CONTRACTOR MUST PROVIDE ALL MPE ROUGH-INS FOR ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR CONTRACTOR.

3. CONTRACTOR PROVIDE IN-WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR CONTRACTOR. SEE AE-201 FOR DETAILS.

4. CONTRACTOR TO SEE VENDOR EQUIPMENT DRAWINGS FOR RESPONSIBILITY AND SCOPE OF WORK IN THE INSTALLATION OF VENDOR EQUIPMENT. ALL WORK REFERRED TO IN THE VENDOR EQUIPMENT DRAWINGS AS BY OWNER / CUSTOMER, CONTRACTOR OR BY OTHERS IS IN THE SCOPE OF WORK OF THE GC / CM.

5. SEE BLOCKING/MOUNTING TYPE DETAILS ON SHEET AE-302.

EQUIPMENT SCHEDULE

EQUIPMENT		RESPONSIBILITIES			
NUM	DESCRIPTION	PURCHASED BY	PLACED BY	INSTALLED BY	REMARKS
001	COMPUTER WORK STATION	OWNER	OWNER	OWNER	
002	TELEVISION, PATIENT	OWNER	OWNER	CONTRACTOR	
003	EXAM TABLE	OWNER	OWNER	OWNER	
004	SCALE, WHEELCHAIR	OWNER	OWNER	OWNER	
005	SPHYGMOMANOMETER	OWNER	OWNER	OWNER	
006	REFRIGERATOR, UNDER-COUNTER	OWNER	OWNER	OWNER	
007	PRINTER	OWNER	OWNER	OWNER	
008	REFRIDGERATOR	OWNER	OWNER	OWNER	
009	CART , CRASH	OWNER	OWNER	OWNER	
010	DISEPENSER, MEDICATION, MAIN	OWNER	OWNER	OWNER	
011	TRIPLE BOX GLOVE DISPENSER	OWNER	OWNER	OWNER	
012	MICROWAVE	OWNER	OWNER	OWNER	
013	STRETCHER	OWNER	OWNER	OWNER	
014	MEDICATION CART	OWNER	OWNER	OWNER	
015	INFUSION CHAIR	OWNER	OWNER	OWNER	
016	SHELVING, METRO 24" X 60"	OWNER	OWNER	OWNER	
017	PATIENT LIFT 53'-0" LENGTH	CONTRACTOR	CONTRACTOR	CONTRACTOR	
018	TELEVISION	OWNER	OWNER	CONTRACTOR	
019	ICE MACHINE, COUNTER	OWNER	CONTRACTOR	CONTRACTOR	
021	BARIATRIC PATIENT LIFT	CONTRACTOR	CONTRACTOR	CONTRACTOR	
022	HYGREEN SENSOR	CONTRACTOR	CONTRACTOR	CONTRACTOR	
023	HYGREEN SENSOR	CONTRACTOR	CONTRACTOR	CONTRACTOR	
024	SHARPS CONTAINER	OWNER	OWNER	OWNER	INSTALL SALVAGED EQUIPMENT
030	30" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
031	36" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
032	60" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
033	72" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
034	88" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
035	96" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
036	150" WORKSURFACE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
040	ADA SINK CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
041	ADA SINK CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
042	30" X 36" BASE CABINET W/ 4 DRAWERS	CONTRACTOR	CONTRACTOR	CONTRACTOR	
043	30" X 36" 2 DOOR BASE CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
044	36" X 36" 2 DOOR BASE CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
045	18" x 36" BASE CABINET WITH 4 DRAWERS	CONTRACTOR	CONTRACTOR	CONTRACTOR	
051	30" X 24" 2 DOOR UPPER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
052	30" X 30" 2 DOOR UPPER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
053	36" X 30" 2 DOOR UPPER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
054	18" X 30" 1 DOOR UPPER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
060	CONSULT TABLE W/ PRINTER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
061	24" X 39" DOUBLE SIDED NURSE SERVER CABINET	CONTRACTOR	CONTRACTOR	CONTRACTOR	
062	24" X 36" DOUBLE SIDED MEDIA UNIT	CONTRACTOR	CONTRACTOR	CONTRACTOR	
063	24" X 39" DOUBLE SIDED ISLAND	CONTRACTOR	CONTRACTOR	CONTRACTOR	
064	12" X 60" DOUBLE SIDED WARDROBE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
065	48" X 4" BASE	CONTRACTOR	CONTRACTOR	CONTRACTOR	
066	60" X 4" BASE	CONTRACTOR	CONTRACTOR	CONTRACTOR	

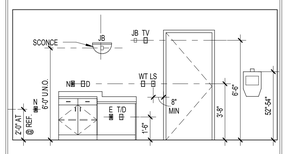
INTERIOR ELEVATION KEYNOTES

1. PLASTIC WALL PROTECTION (PWP-1).
2. FULL HEIGHT CORNER GUARD (CG-1).
3. CORNER GUARD,4'-0"H (CG-2)
4. HANDRAIL (HR-1), MOUNT TOP AT 2'-10" A.F.F.
5. CHAIR RAIL , MOUNT TOP AT 2'-10" A.F.F.
6. BUMPER RAIL (BR-1) MOUNT TOP @ 1'-0" A.F.F.
7. CUBICLE CURTAIN & TRACK.
8. SOLID SURFACE (SSP-1) WINDOW SILL.
9. SCHEDULED BASE.
10. GYPSUM WALL BOARD SOFFIT.
11. WALL SCONCE.
12. SOLID PHENOLIC PANEL (SPP) AFFIXED WITH Z-CLIPS
13. WIRE MANAGER
14. PLASTIC LAMINATE (PL-1)
15. DECORATIVE PLASTIC GLAZING (DPG-1) IN ALUMINUM STOREFRONT SYSTEM.
16. GLASS WALL TILE (GWT-1)
17. PORCELAIN WALL TILE (CWT-1)
18. 2 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-2)
19. SOLID SURFACE (SSP-1)
20. DECORATIVE WOOD CEILING (C-3)
21. DIRECTORY
22. DECORATIVE RESIN PANEL (DPG-7) IN ALUMINUM CHANNEL SYSTEM
23. SOLID PHENOLIC PANEL (SPP) IN WALL PANEL SYSTEM (DWS-1)
24. QUARTZ SURFACE (QS-1) TRANSACTION TOP
25. 3 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-1)
26. END GUARD (CG-3)
27. PATIENT LIFT SYSTEM
28. PENDANT LIGHT FIXTURE
29. MANUAL ROLLER SHADE (WT-1)
30. PLASTIC LAMINATE (PL-2)
31. ALUMINUM BARSTOCK
32. SOLID SURFACE POLYMER (SSP-2)
33. 1/4" ALUMINUM REVEAL
34. SIGNAGE DPG-2. AFFIXED WITH STAINLESS STEEL STANDOFFS
35. QUARTZ SURFACE (QS-2) WORKSURFACE
36. WALL WASH LIGHT FIXTURE
37. LIGHT BOX WITH DPG-3
38. NOT USED
39. UNDER COUNTER BRACKET
40. MOTORIZED ROLLER SHADE WT-2
41. TACKBOARD (TB-1)
42. HEATING ELEMENT
43. ACCENT PAINT. REFER TO AF-141 FOR PAINT COLOR.
44. GENERAL PAINT (PT-1)
45. SOLID PHENOLIC PANEL (SPP-2)
46. SOLID PHENOLIC PANEL (SPP-3)
47. MOVEABLE GLASS PANEL WALL (OP-1)

INTERIOR ELEVATION GENERAL NOTES

1. REFER TO AE-221 FOR SIGNAGE PLAN
2. REFER TO SCHEDULE FOR FINISHES SPECIFICATION SECTION 090600 AND FINISH PLAN AF-141 FOR ADDITIONAL FINISH INFORMATION.
3. ALL WALLS TO BE PT-1 U.N.O. ALL TRIM TO BE PT-2 U.N.O.
4. ALL VERTICAL CASEWORK SURFACES TO BE PL-1 U.N.O. ALL CASEWORK WORKSURFACES AND BACKSPLASHES TO BE SSP-1 U.N.O.
5. REFER TO AE-201 FOR EQUIPMENT LEGEND.

ELECTRICAL AND DATA OUTLETS TYPICAL MOUNTING HEIGHT



FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: ENLARGED FLOOR PLANS, ELEVATIONS & SCHEDULES

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

VA Project Number: 693-11-122

Building Number: 1 & 27

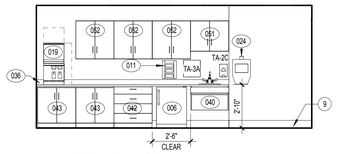
Drawing Number: AE-201

Dwg. 17 of 79

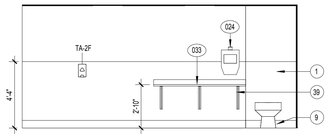
Office of Facilities Management

Department of Veterans Affairs

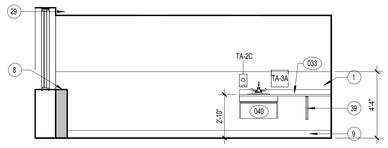
VA FORM 08-6231, OCT 1978



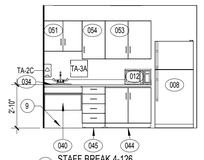
A1 MEDICATION ROOM 4-152
1/4" = 1'-0"



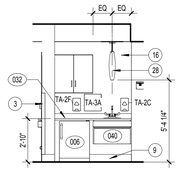
A2 SOILED UTILITY 4-155
1/4" = 1'-0"



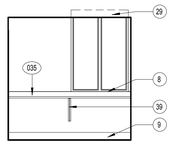
A3 SOILED UTILITY 4-155
1/4" = 1'-0"



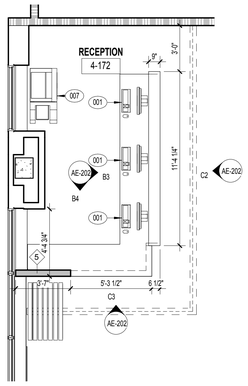
A4 STAFF BREAK 4-126
1/4" = 1'-0"



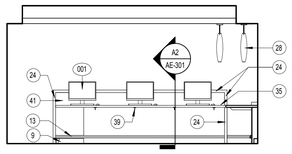
A5 TYPICAL NOURISHMENT
1/4" = 1'-0"



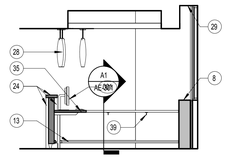
A6 CORRIDOR C4-4A
1/4" = 1'-0"



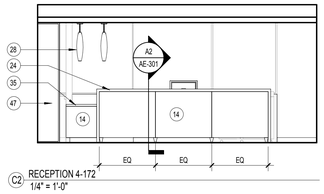
C1 ENLARGED PLAN - RECEPTION 4-172
1/4" = 1'-0"



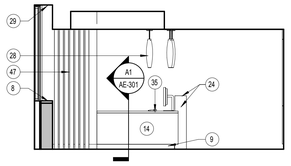
B3 RECEPTION 4-172
1/4" = 1'-0"



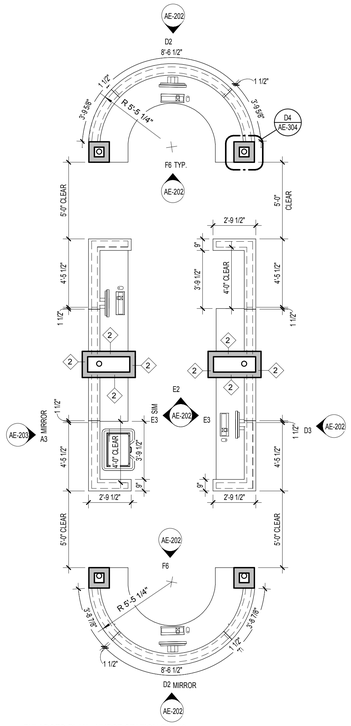
B4 RECEPTION 4-172
1/4" = 1'-0"



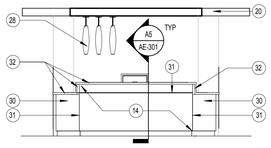
C2 RECEPTION 4-172
1/4" = 1'-0"



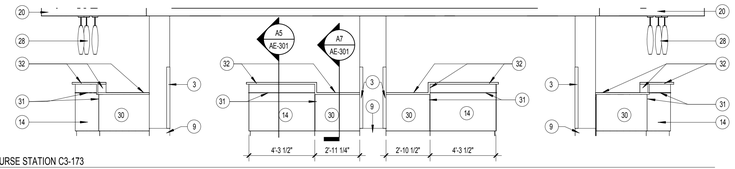
C3 RECEPTION 4-172
1/4" = 1'-0"



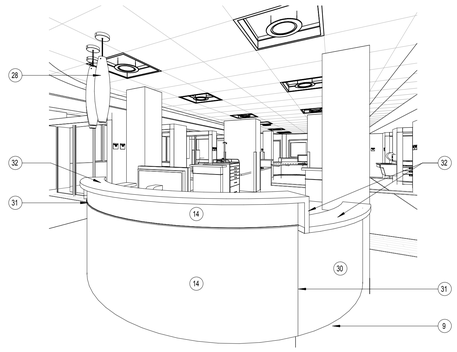
F1 ENLARGED PLAN - NURSE STATION C3-173
1/4" = 1'-0"



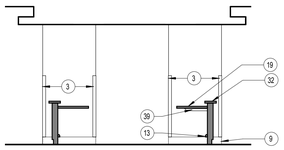
D2 NURSE STATION C3-173
1/4" = 1'-0"



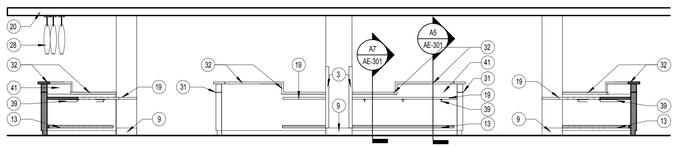
D3 NURSE STATION C3-173
1/4" = 1'-0"



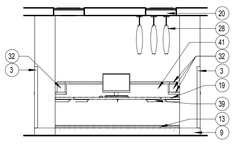
E6 NURSE STATION C3-173



E2 NURSE STATION C3-173
1/4" = 1'-0"



E3 NURSE STATION C3-173
1/4" = 1'-0"



F6 NURSE STATION C3-173
1/4" = 1'-0"

INTERIOR ELEVATION KEYNOTES

1. PLASTIC WALL PROTECTION (PWP-1).
2. FULL HEIGHT CORNER GUARD (CG-1).
3. CORNER GUARD,4'-0"H (CG-2)
4. HANDRAIL (HR-1), MOUNT TOP AT 2'-10" A.F.F.
5. CHAIR RAIL, MOUNT TOP AT 2'-10" A.F.F.
6. BUMPER RAIL (BR-1) MOUNT TOP @ 1'-0" A.F.F.
7. CUBICLE CURTAIN & TRACK.
8. SOLID SURFACE (SSP-1) WINDOW SILL.
9. SCHEDULED BASE.
10. GYPSUM WALL BOARD SOFFIT.
11. WALL SCONCE.
12. SOLID PHENOLIC PANEL (SPP) AFFIXED WITH Z-CLIPS
13. WIRE MANAGER
14. PLASTIC LAMINATE (PL-1)
15. DECORATIVE PLASTIC GLAZING (DPG-1) IN ALUMINUM STOREFRONT SYSTEM.
16. GLASS WALL TILE (GWT-1)
17. PORCELAIN WALL TILE (CWT-1)
18. 2 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-2)
19. SOLID SURFACE (SSP-1)
20. DECORATIVE WOOD CEILING (C-3)
21. DIRECTORY
22. DECORATIVE RESIN PANEL (DPG-7) IN ALUMINUM CHANNEL SYSTEM
23. SOLID PHENOLIC PANEL (SPP) IN WALL PANEL SYSTEM (DWS-1)
24. QUARTZ SURFACE (QS-1) TRANSACTION TOP
25. 3 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-1)
26. END GUARD (CG-3)
27. PATIENT LIFT SYSTEM
28. PENDANT LIGHT FIXTURE
29. MANUAL ROLLER SHADE (WT-1)
30. PLASTIC LAMINATE (PL-2)
31. ALUMINUM BARSTOCK
32. SOLID SURFACE POLYMER (SSP-2)
33. 1/4" ALUMINUM REVEAL
34. SIGNAGE DPG-2. AFFIXED WITH STAINLESS STEEL STANDOFFS
35. QUARTZ SURFACE (QS-2) WORKSURFACE
36. WALL WASH LIGHT FIXTURE
37. LIGHT BOX WITH DPG-3
38. NOT USED
39. UNDER COUNTER BRACKET
40. MOTORIZED ROLLER SHADE WT-2
41. TACKBOARD (TB-1)
42. HEATING ELEMENT
43. ACCENT PAINT. REFER TO AF-141 FOR PAINT COLOR.
44. GENERAL PAINT (PT-1)
45. SOLID PHENOLIC PANEL (SPP-2)
46. SOLID PHENOLIC PANEL (SPP-3)
47. MOVEABLE GLASS PANEL WALL (OP-1)

EQUIPMENT GENERAL NOTES

1. CONTRACTOR TO SEE THE EQUIPMENT SCHEDULE FOR SCOPE OF WORK AND RESPONSIBILITY IN THE PURCHASING, PLACEMENT AND INSTALLATION OF EQUIPMENT.
2. CONTRACTOR MUST PROVIDE ALL MPE ROUGH-INS FOR ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR CONTRACTOR.
3. CONTRACTOR PROVIDE IN-WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, WHETHER PROVIDED BY OWNER, OWNER VENDOR, OR CONTRACTOR. SEE AE-201 FOR DETAILS.
4. CONTRACTOR TO SEE VENDOR EQUIPMENT DRAWINGS FOR RESPONSIBILITY AND SCOPE OF WORK IN THE INSTALLATION OF VENDOR EQUIPMENT. ALL WORK REFERRED TO IN THE VENDOR EQUIPMENT DRAWINGS AS BY OWNER / CUSTOMER, CONTRACTOR OR BY OTHERS IS IN THE SCOPE OF WORK OF THE CC / OM.
5. SEE BLOCKING/MOUNTING TYPE DETAILS ON SHEET AE-302.

INTERIOR ELEVATION GENERAL NOTES

1. REFER TO AE-221 FOR SIGNAGE PLAN
2. REFER TO SCHEDULE FOR FINISHES SPECIFICATION SECTION 090600 AND FINISH PLAN AF-141 FOR ADDITIONAL FINISH INFORMATION.
3. ALL WALLS TO BE PT-1 U.N.O. ALL TRIM TO BE PT-2 U.N.O.
4. ALL VERTICAL CASEWORK SURFACES TO BE PL-1 U.N.O. ALL CASEWORK WORKSURFACES AND BACKSPLASHES TO BE SSP-1 U.N.O.
5. REFER TO AE-201 FOR EQUIPMENT LEGEND.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: ENLARGED FLOOR PLANS & ELEVATIONS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	Checker	Author

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: AE-202

Dwg. 18 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

INTERIOR ELEVATION GENERAL NOTES

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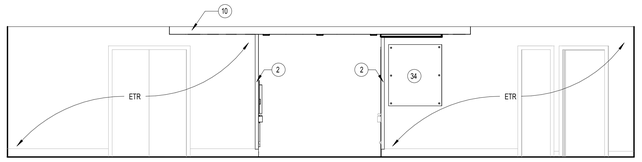
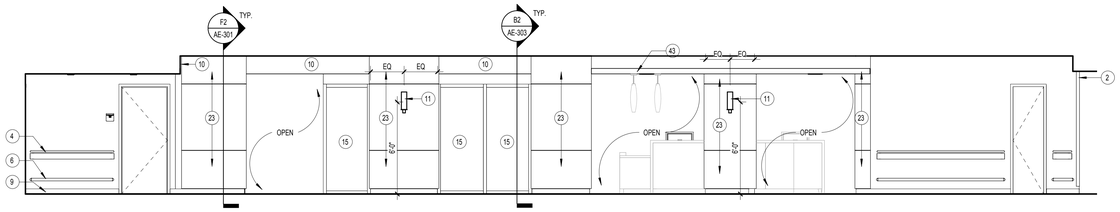
5. REFER TO AE-201 FOR EQUIPMENT LEGEND.

INTERIOR ELEVATION KEYNOTES

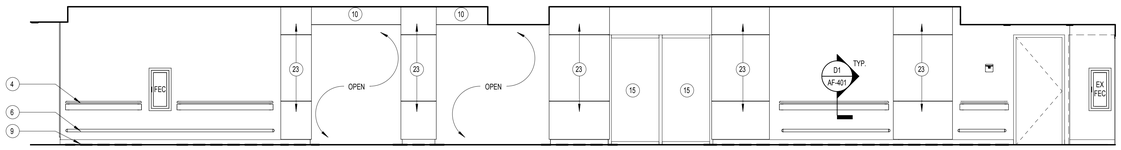
1. PLASTIC WALL PROTECTION (PWP-1).
2. FULL HEIGHT CORNER GUARD (CG-1).
3. CORNER GUARD,4'-0"H (CG-2)
4. HANDRAIL (HR-1), MOUNT TOP AT 2'-10" A.F.F.
5. CHAIR RAIL, MOUNT TOP AT 2'-10" A.F.F.
6. BUMPER RAIL (BR-1) MOUNT TOP @ 1'-0" A.F.F.
7. CUBICLE CURTAIN & TRACK.
8. SOLID SURFACE (SSP-1) WINDOW SILL.
9. SCHEDULED BASE.
10. GYPSUM WALL BOARD SOFFIT.
11. WALL SCONCE.
12. SOLID PHENOLIC PANEL (SPP) AFFIXED WITH Z-CLIPS
13. WIRE MANAGER
14. PLASTIC LAMINATE (PL-1)
15. DECORATIVE PLASTIC GLAZING (DPG-1) IN ALUMINUM STOREFRONT SYSTEM.
16. GLASS WALL TILE (GWT-1)
17. PORCELAIN WALL TILE (CWT-1)
18. 2 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-2)
19. SOLID SURFACE (SSP-1)
20. DECORATIVE WOOD CEILING (C-3)
21. DIRECTORY
22. DECORATIVE RESIN PANEL (DPG-7) IN ALUMINUM CHANNEL SYSTEM
23. SOLID PHENOLIC PANEL (SPP) IN WALL PANEL SYSTEM (DWS-1)
24. QUARTZ SURFACE (QS-1) TRANSACTION TOP
25. 3 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-1)
26. END GUARD (CG-3)
27. PATIENT LIFT SYSTEM
28. PENDANT LIGHT FIXTURE
29. MANUAL ROLLER SHADE (WT-1)
30. PLASTIC LAMINATE (PL-2)
31. ALUMINUM BARSTOCK
32. SOLID SURFACE POLYMER (SSP-2)
33. 1/4" ALUMINUM REVEAL
34. SIGNAGE DPG-2. AFFIXED WITH STAINLESS STEEL STANDOFFS
35. QUARTZ SURFACE (QS-2) WORKSURFACE
36. WALL WASH LIGHT FIXTURE
37. LIGHT BOX WITH DPG-3
38. NOT USED
39. UNDER COUNTER BRACKET
40. MOTORIZED ROLLER SHADE WT-2
41. TACKBOARD (TB-1)
42. HEATING ELEMENT
43. ACCENT PAINT. REFER TO AF-141 FOR PAINT COLOR.
44. GENERAL PAINT (PT-1)
45. SOLID PHENOLIC PANEL (SPP-2)
46. SOLID PHENOLIC PANEL (SPP-3)
47. MOVEABLE GLASS PANEL WALL (OP-1)



A1 ENTRY TO UNIT
1/4" = 1'-0"



A3 CORRIDOR C4-06
1/4" = 1'-0"



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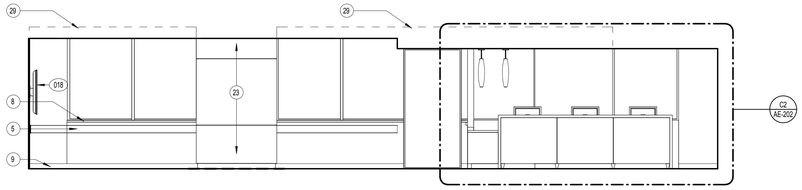

B5 WAITING C4-04
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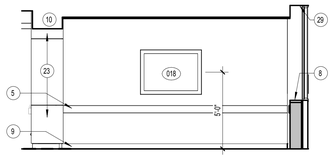

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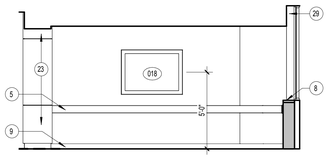
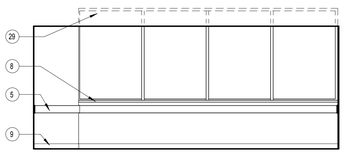
1/4" = 1'-0"



C2 WAITING C4-08
1/4" = 1'-0"



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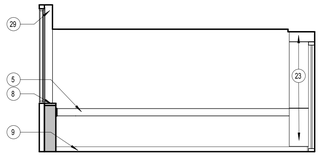
1/4" = 1'-0"



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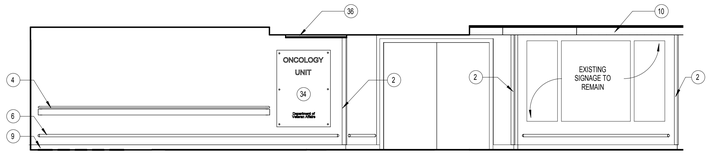

C7 CORRIDOR C4-2
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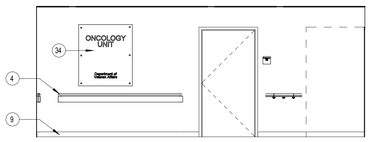

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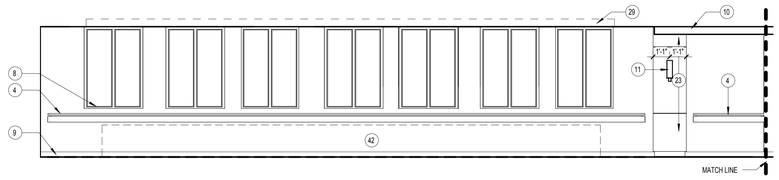
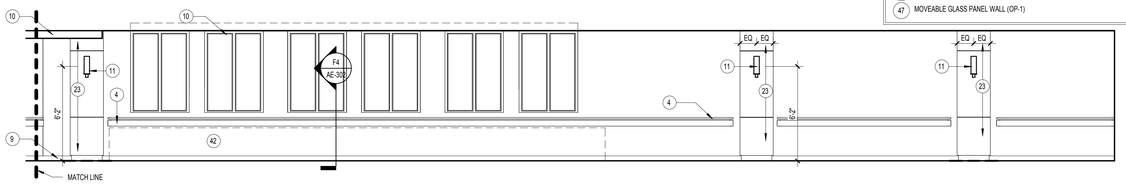
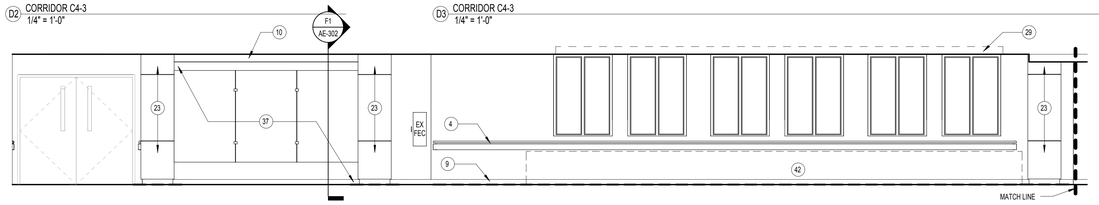
1/4" = 1'-0"



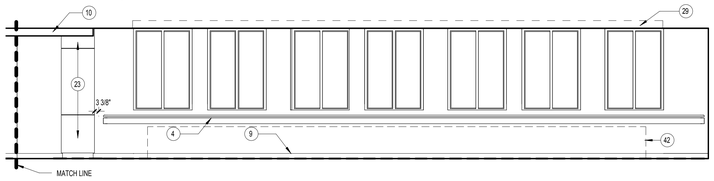
D3 CORRIDOR C4-3
1/4" = 1'-0"



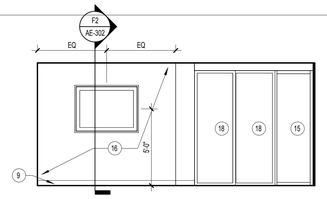
D5 CORRIDOR C4-3
1/4" = 1'-0"



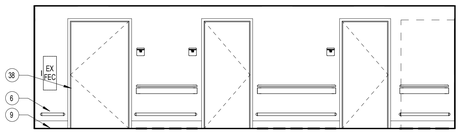
E1 CORRIDOR C4-3
1/4" = 1'-0"



E5 CORRIDOR C4-3
1/4" = 1'-0"



E8 FAMILY LOUNGE 4-154
1/4" = 1'-0"



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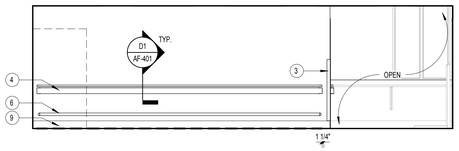

F2 CORRIDOR C4-4
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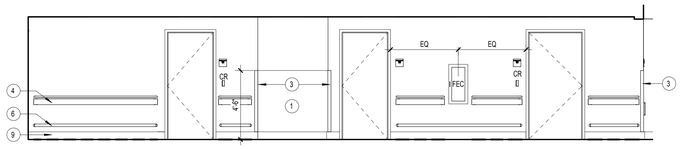
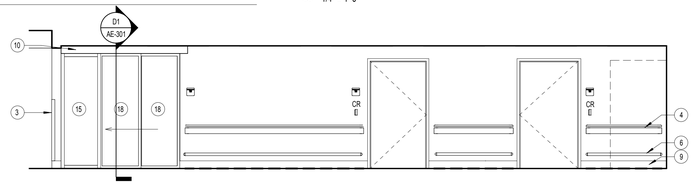


F4 CORRIDOR C4-6
1/4" = 1'-0"



F7 CORRIDOR C4-6
1/4" = 1'-0"

FULLY SPRINKLERED
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Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: ELEVATIONS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	Checker	Author

VA Project Number: 693-11-122

Building Number: 1 & 27

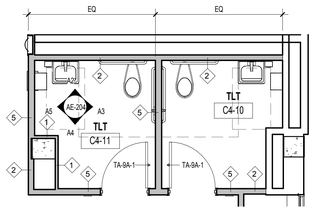
Drawing Number: AE-203

Dwg. 19 of 79

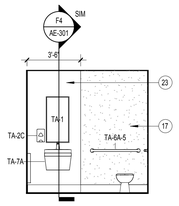
Office of Facilities Management

Department of Veterans Affairs

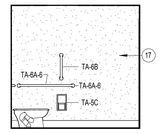
VA FORM 08-6231, OCT 1978



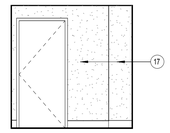
A1 ENLARGED PLAN - TLT C4-11 AND C4-10
1/4" = 1'-0"



A2 C4-11 - TLT (C4-10 OPP. HAND)
1/4" = 1'-0"



A3 C4-11 - TLT (C4-10 OPP. HAND)
1/4" = 1'-0"



A4 C4-11 - TLT (C4-10 OPP. HAND)
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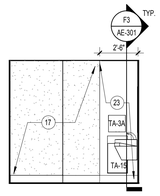
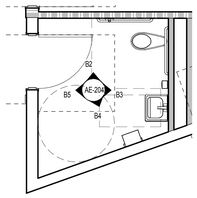
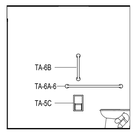


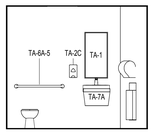
A5 C4-11 - TLT (C4-10 OPP. HAND)
1/4" = 1'-0"



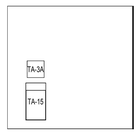
B1 ELARGED PLAN - STAFF TOILET 4-117
1/4" = 1'-0"



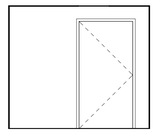
B2 4-117 - STAFF TOILET
1/4" = 1'-0"



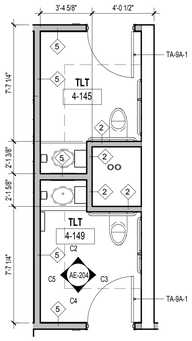
B3 4-117 - STAFF TOILET
1/4" = 1'-0"



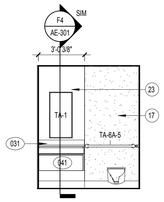
B4 4-117 - STAFF TOILET
1/4" = 1'-0"



B5 4-117 - STAFF TOILET
1/4" = 1'-0"



C1 ENLARGED PLAN - TLT 4-145 AND TLT 4-149
1/4" = 1'-0"



C2 4-149 - TLT (4-145 OPP. HAND)
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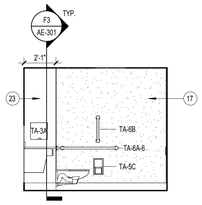
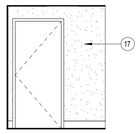
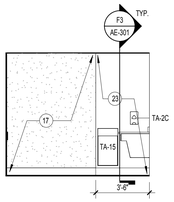


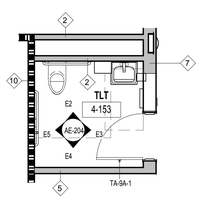
C3 4-149 - TLT (4-145 OPP. HAND)
1/4" = 1'-0"



C4 4-149 - TLT (4-145 OPP. HAND)
1/4" = 1'-0"



C5 4-149 - TLT (4-145 OPP. HAND)
1/4" = 1'-0"



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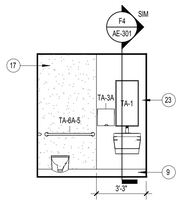

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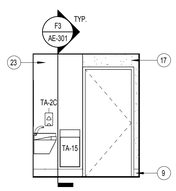

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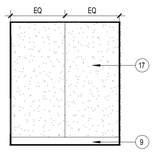

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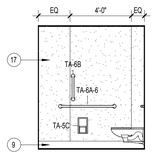
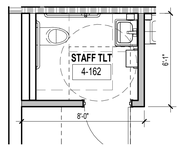
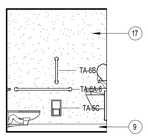


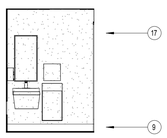
E5 4-153 - TLT
1/4" = 1'-0"



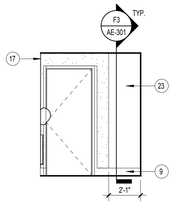
F1 ENLARGED PLAN - 4-162 STAFF TLT
1/4" = 1'-0"



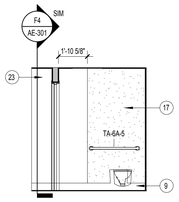
F2 4-162 STAFF TLT
1/4" = 1'-0"



F3 4-162 STAFF TLT
1/4" = 1'-0"

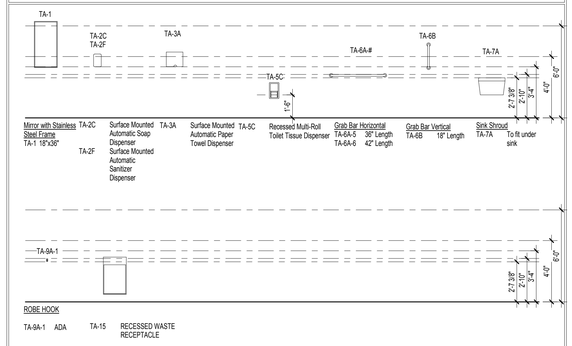


F4 4-162 STAFF TLT
1/4" = 1'-0"



F5 4-162 STAFF TLT
1/4" = 1'-0"

TOILET AUUESSORIES LEGEND



NOTES:

1. ADA REQUIRES THAT MOUNTING HEIGHTS FOR BARRIER FREE DESIGN BE SO LOCATED THAT THE OPERATIVE PORTION (I.E. PUSH KNOB, TOWELS SLOT) BE NO HIGHER THAN 40" FROM FINISHED FLOOR. GRAB BARS BE BETWEEN 33" AND 36" AND COIN SLOTS BE NO HIGHER THAN 48" FROM FINISHED FLOOR.
2. TOILET ACCESSORIES DESIGN VARIES BY MANUFACTURER. SEE MANUFACTURER MOUNTING HEIGHT REQUIREMENTS FOR ROUGH-INS DIMENSIONS AND LOCATION.

TOILET ACCESSORY SCHEDULE

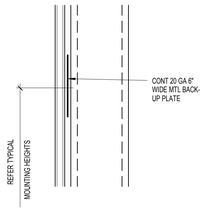
ACCESSORY		MOUNTING			RESPONSIBILITY		
T.A. #	DESCRIPTION	HEIGHT	REMARKS	TYPE	PURCHASED BY	PLACED BY	INSTALLED BY
TA-1A-2	GLASS MIRROR	3' - 4"	TO BOTTOM OF UNIT	A	CONTRACTOR	CONTRACTOR	CONTRACTOR
TA-2C	SOAP DISPENSER	3' - 4"	TO SENSOR	A	OWNER	CONTRACTOR	CONTRACTOR
TA-2F	STERILIZER DISPENSER		TO SENSOR		OWNER	CONTRACTOR	CONTRACTOR
TA-3A	PAPER TOWEL DISPENSER	3' - 4"	TO SENSOR	A	OWNER	CONTRACTOR	CONTRACTOR
TA-5C	TOILET TISSUE DISPENSER - RECESSED	4' - 0"	TO BOTTOM OF UNIT	-	OWNER	CONTRACTOR	CONTRACTOR
TA-6A-5	GRAB BAR -36"	2' - 10"	TO TOP OF TUBING	C	CONTRACTOR	CONTRACTOR	CONTRACTOR
TA-6A-6	GRAB BAR - 42"	2' - 10"	TO TOP OF TUBING	C	CONTRACTOR	CONTRACTOR	CONTRACTOR
TA-6B-1	GRAB BAR - 18" - VERTICAL	3' - 3"	TO BOTTOM OF TUBING	C	CONTRACTOR	CONTRACTOR	CONTRACTOR
TA-7A	SHROUD	0"	INSTALLED 18" A.F.F.	C		CONTRACTOR	CONTRACTOR
TA-9A-1	ROBE HOOK	3' - 4"	TO TOP OF UNIT (ADA HEIGHT)	-	CONTRACTOR	CONTRACTOR	CONTRACTOR
TA-15	WASTE RECEPTACLE - RECESSED	8"	TO BOTTOM OF UNIT	-			

INTERIOR ELEVATION KEYNOTES

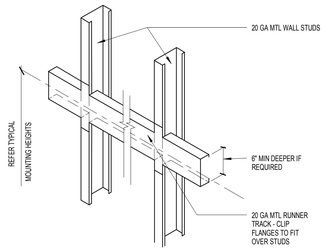
1. PLASTIC WALL PROTECTION (PWP-1).
2. FULL HEIGHT CORNER GUARD (CG-1).
3. CORNER GUARD,4'-0"H (CG-2)
4. HANDRAIL (HR-1), MOUNT TOP AT 2'-10" A.F.F.
5. CHAIR RAIL, MOUNT TOP AT 2'-10" A.F.F.
6. BUMPER RAIL (BR-1) MOUNT TOP @ 1'-0" A.F.F.
7. CUBICLE CURTAIN & TRACK.
8. SOLID SURFACE (SSP-1) WINDOW SILL.
9. SCHEDULED BASE.
10. GYPSUM WALL BOARD SOFFIT.
11. WALL SCONCE.
12. SOLID PHENOLIC PANEL (SPP) AFFIXED WITH Z-CLIPS
13. WIRE MANAGER
14. PLASTIC LAMINATE (PL-1)
15. DECORATIVE PLASTIC GLAZING (DPG-1) IN ALUMINUM STOREFRONT SYSTEM.
16. GLASS WALL TILE (GWT-1)
17. PORCELAIN WALL TILE (CWT-1)
18. 2 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-2)
19. SOLID SURFACE (SSP-1)
20. DECORATIVE WOOD CEILING (C-3)
21. DIRECTORY
22. DECORATIVE RESIN PANEL (DPG-7) IN ALUMINUM CHANNEL SYSTEM
23. SOLID PHENOLIC PANEL (SPP) IN WALL PANEL SYSTEM (DWS-1)
24. QUARTZ SURFACE (QS-1) TRANSACTION TOP
25. 3 DOOR TELESCOPING SLIDING DOOR SYSTEM W/ DECORATIVE PLASTIC GLAZING (DPG-1)
26. END GUARD (CG-3)
27. PATIENT LIFT SYSTEM
28. PENDANT LIGHT FIXTURE
29. MANUAL ROLLER SHADE (WT-1)
30. PLASTIC LAMINATE (PL-2)
31. ALUMINUM BARSTOCK
32. SOLID SURFACE POLYMER (SSP-2)
33. 1/4" ALUMINUM REVEAL
34. SIGNAGE DPG-2 AFFIXED WITH STAINLESS STEEL STANDOFFS
35. QUARTZ SURFACE (QS-2) WORKSURFACE
36. WALL WASH LIGHT FIXTURE
37. LIGHT BOX WITH DPG-3
38. NOT USED
39. UNDER COUNTER BRACKET
40. MOTORIZED ROLLER SHADE WT-2
41. TACKBOARD (TB-1)
42. HEATING ELEMENT
43. ACCENT PAINT. REFER TO AF-141 FOR PAINT COLOR.
44. GENERAL PAINT (PT-1)
45. SOLID PHENOLIC PANEL (SPP-2)
46. SOLID PHENOLIC PANEL (SPP-3)
47. MOVEABLE GLASS PANEL WALL (OP-1)

INTERIOR ELEVATION GENERAL NOTES

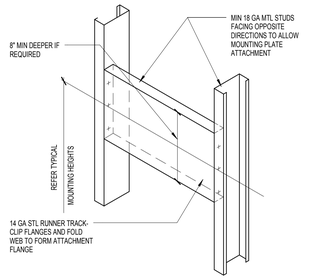
1. REFER TO AE-221 FOR SIGNAGE PLAN
2. REFER TO SCHEDULE FOR FINISHES SPECIFICATION SECTION 090600 AND FINISH PLAN AF-141 FOR ADDITIONAL FINISH INFORMATION.
3. ALL WALLS TO BE PT-1 U.N.O. ALL TRIM TO BE PT-2 U.N.O.
4. ALL VERTICAL CASEWORK SURFACES TO BE PL-1 U.N.O. ALL CASEWORK WORKSURFACES AND BACKSPLASHES TO BE SSP-1 U.N.O.
5. REFER TO AE-201 FOR EQUIPMENT LEGEND.



F6 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE A
3/8" = 1'-0"



F7 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE B
3/8" = 1'-0"



F8 ACCESSORY/EQUIPMENT MOUNTING DETAIL TYPE C
3/8" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions | Date

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Project Number	Scale
3659	As indicated

Drawing Title: ENLARGED TOILET PLAN & ELEVATIONS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

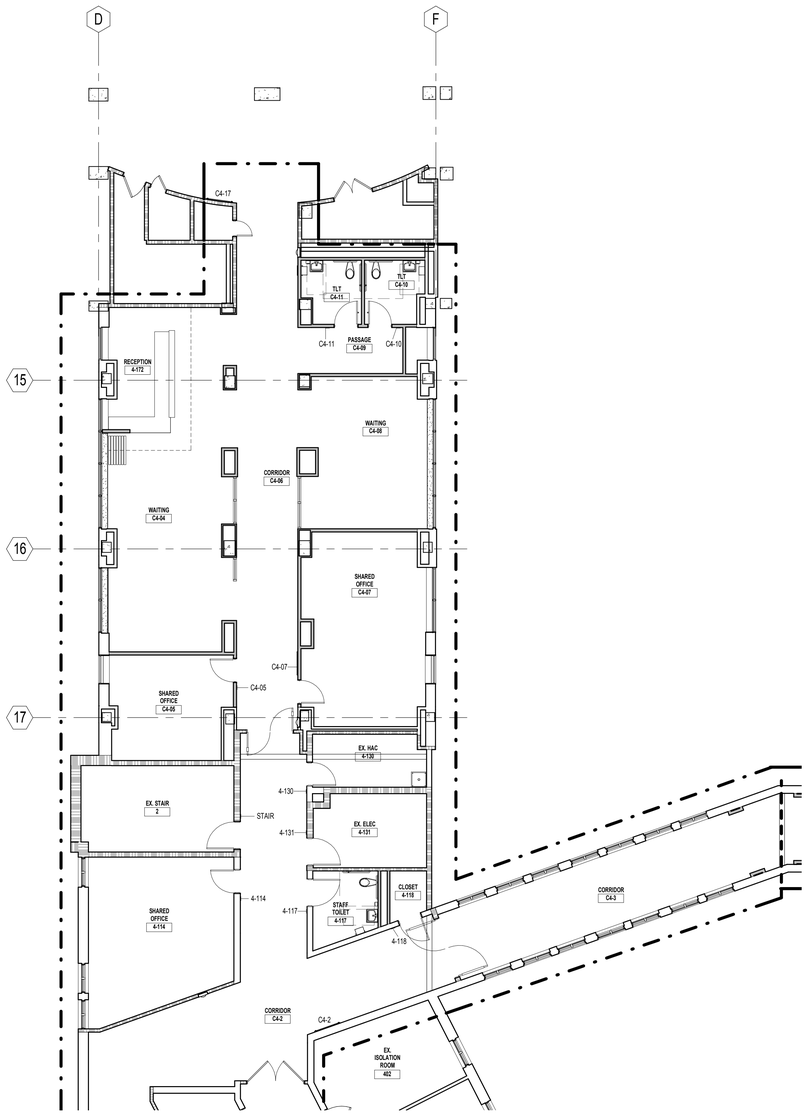
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

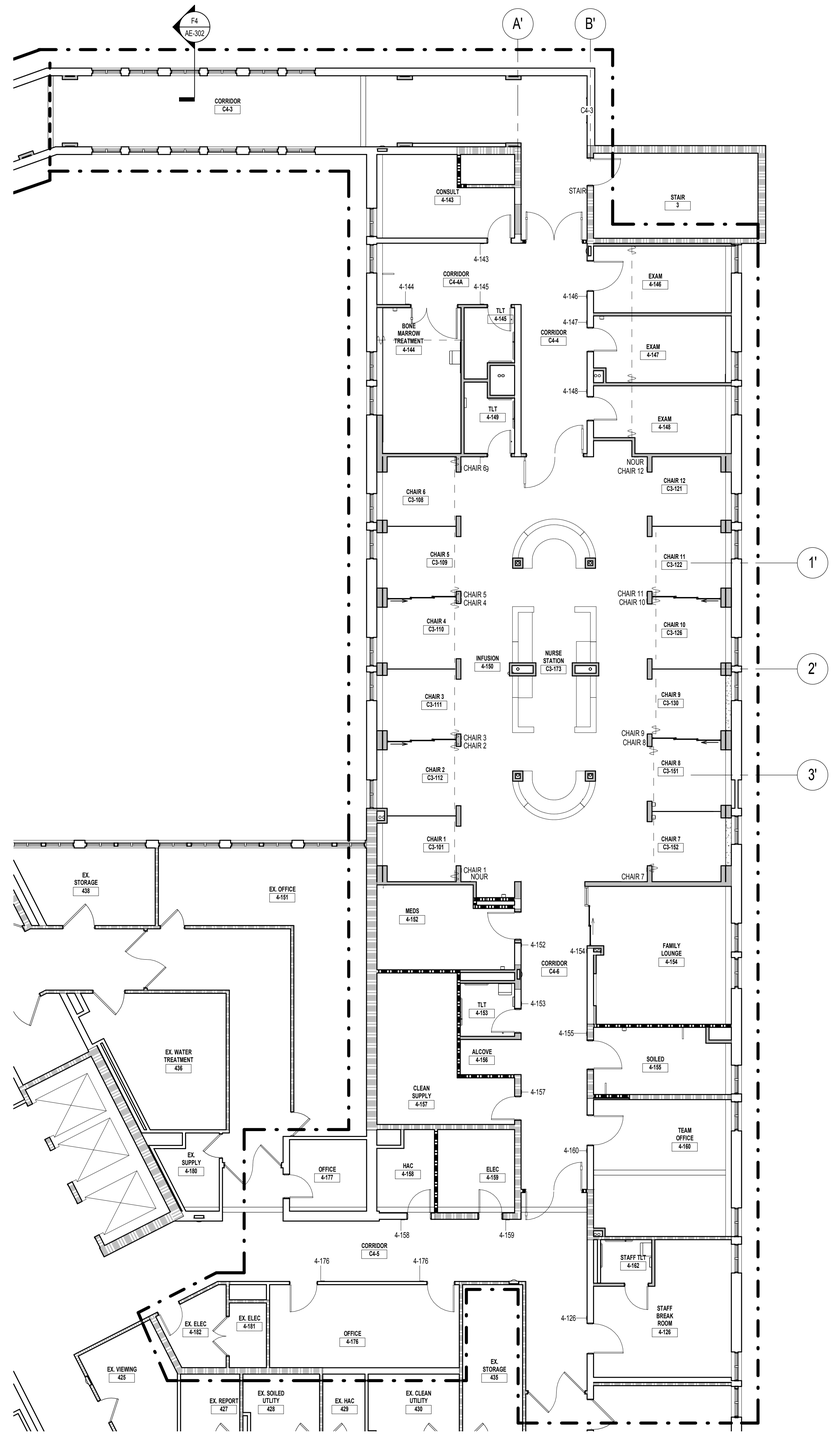
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-204
Dwg. 20 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR SIGNAGE PLAN AREA A
1/8" = 1'-0"

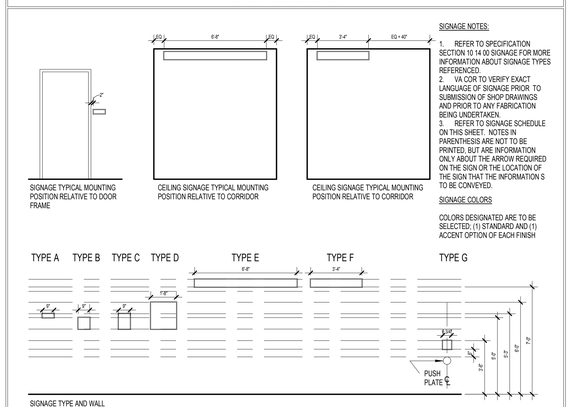


F4 FOURTH FLOOR SIGNAGE PLAN AREA B
1/8" = 1'-0"

SIGNAGE SCHEDULE

MARK	SIGN TYPE	SIGN TEXT	ROOM NUMBER (ON SIGN)	ROOM NAME (LOCATION)	ROOM NUMBER
4-114	B	SHARED OFFICE	4-114	CORRIDOR	C4-2
4-117	B	STAFF TOILET	4-117	CORRIDOR	C4-2
4-118	A	CLOSET	4-118	CORRIDOR	C4-2
4-126	B	STAFF BREAK ROOM	4-126	CORRIDOR	C4-5
4-130	A	HEATING/ AC	4-130	CORRIDOR	C4-2
4-131	A	ELECTRICAL CLOSET	4-131	CORRIDOR	C4-2
4-143	B	CONSULTATION ROOM	4-143	CORRIDOR	C4-4A
4-144	C	BONE MARROW TREATMENT	4-144	CORRIDOR	C4-4A
4-145	B	TOILET	4-145	CORRIDOR	C4-4A
4-146	C	EXAM 1	4-146	CORRIDOR	C4-4
4-147	C	EXAM 2	4-147	CORRIDOR	C4-4
4-148	C	EXAM 3	4-148	CORRIDOR	C4-4
4-149	B	TOILET	4-149	INFUSION	4-150
4-152	B	MEDICATION ROOM	4-152	CORRIDOR	C4-6
4-153	B	TOILET	4-153	CORRIDOR	C4-6
4-154	D	FAMILY LOUNGE	4-152	CORRIDOR	C4-6
4-155	B	SOILED UTILITY	4-155	CORRIDOR	C4-6
4-157	B	CLEAN SUPPLY	4-157	CORRIDOR	C4-6
4-158	A	HAC	4-158	CORRIDOR	C4-5
4-159	A	ELECTRICAL ROOM	4-159	CORRIDOR	C4-5
4-160	B	TEAM OFFICE	4-160	CORRIDOR	C4-6
4-162	A	TOILET	4-162	STAFF BREAK ROOM	4-162
4-176	B	OFFICE	4-176	CORRIDOR	C4-5
4-176	B	OFFICE	4-176	CORRIDOR	C4-5
C4-2	TBD	TBD	1	CORRIDOR	C4-2
C4-3	TBD	TBD	1	CORRIDOR	C4-3
C4-05	B	SHARED OFFICE	C4-05	CORRIDOR	C4-06
C4-07	B	SHARED OFFICE	C4-07	CORRIDOR	C4-06
C4-10	B	TOILIET	C4-10	PASSAGE	C4-10
C4-11	B	TOILET	C4-11	PASSAGE	C4-11
C4-17	TBD	TBD	-	CORRIDOR	C4-17
CHAIR 1	D	1	-	INFUSION	4-150
CHAIR 2	D	2	-	INFUSION	4-150
CHAIR 3	D	3	-	INFUSION	4-150
CHAIR 4	D	4	-	INFUSION	4-150
CHAIR 5	D	5	-	INFUSION	4-150
CHAIR 6	D	6	-	INFUSION	4-150
CHAIR 7	D	7	-	INFUSION	4-150
CHAIR 8	D	8	-	INFUSION	4-150
CHAIR 9	D	9	-	INFUSION	4-150
CHAIR 10	D	10	-	INFUSION	4-150
CHAIR 11	D	11	-	INFUSION	4-150
CHAIR 12	D	12	-	INFUSION	4-150
NOUR	A	NOURISHMENT	-	INFUSION	4-150
NOUR	A	NOURISHMENT	-	INFUSION	4-150
STAIR	C	STAIR	-	CORRIDOR	C4-3
STAIR	C	STAIR	-	CORRIDOR	C4-2

SIGNAGE LEGEND



SIGNAGE NOTES:

1. REFER TO SPECIFICATION SECTION 10 14 00 SIGNAGE FOR MORE INFORMATION ABOUT SIGNAGE TYPES REFERENCED.
2. VA COR TO VERIFY EXACT LANGUAGE OF SIGNAGE PRIOR TO SUBMISSION OF SHOP DRAWINGS AND PRIOR TO ANY FABRICATION BEING UNDERTAKEN.
3. REFER TO SIGNAGE SCHEDULE ON THIS SHEET. NOTES IN PARENTHESIS ARE NOT TO BE PRINTED, BUT ARE INFORMATION ONLY ABOUT THE ARROW REQUIRED ON THE SIGN OR THE LOCATION OF THE SIGN THAT THE INFORMATION S TO BE CONVEYED.

SIGNAGE COLORS

COLORS DESIGNATED ARE TO BE SELECTED; (1) STANDARD AND (1) ACCENT OPTION OF EACH FINISH

FULLY SPRINKLERED

ISSUED FOR BID

Revisions | Date

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Project Number	Scale
3659	As indicated

Drawing Title: SIGNAGE PLAN

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	NW	AS

VA Project Number: 693-11-122

Building Number: 1 & 27

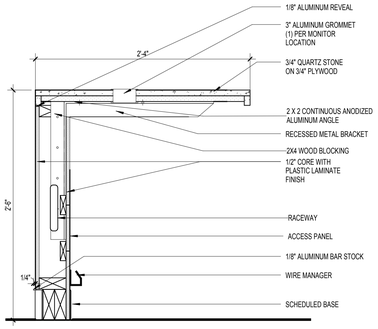
Drawing Number: AE-221

Dwg. 21 of 79

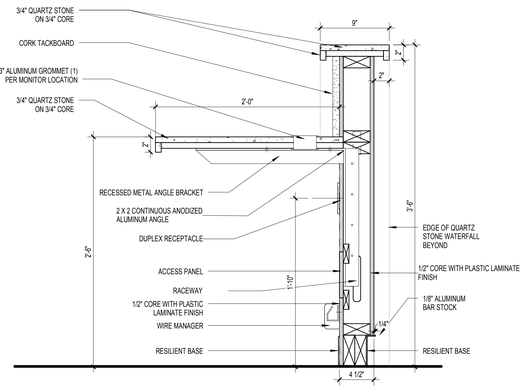
Office of Facilities Management

Department of Veterans Affairs

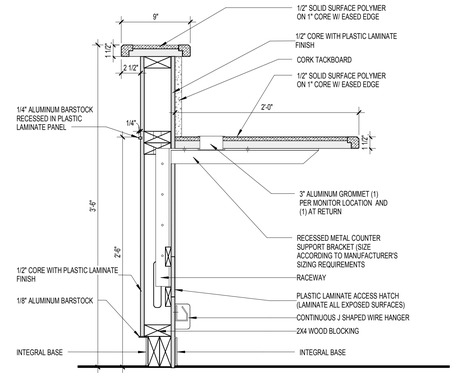
VA FORM 08-6231, OCT 1978



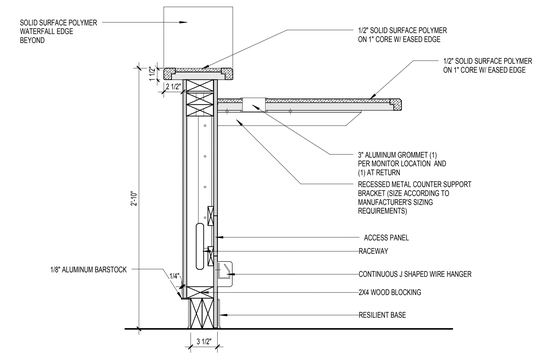
A1 SECTION @ RECEPTION DESK
1 1/2" = 1'-0"



A2 SECTION @ RECEPTION DESK
1 1/2" = 1'-0"



A5 SECTION @ NURSE STATION
1 1/2" = 1'-0"



A7 SECTION @ NURSE STATION
1 1/2" = 1'-0"

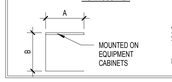
CASEWORK NOTES

1. ALL CASEWORK IS PL-1 FOR ALL VERTICAL SURFACES AND SSP-1 FOR ALL COUNTEROPS U.N.O. GRAIN DIRECTION TO RUN TOP TO BOTTOM U.N.O
2. THESE NOTES ARE TYPICAL UNLESS OTHERWISE NOTED.
3. ALL CASEWORK TO BE BALANCED CONSTRUCTION.
4. ALL EXPOSED AND SEMI EXPOSED PARTS, AS DETERMINED IN THE "IDENTIFICATIO OF PART NOTES" TO HAVE PLASTIC LAMINATE FINISH.
5. ALL OPEN SPACE SIZES AND KNEE BRACES LOCATIONS TO BE VERIFIED WITH EQUIPMENT TO BE INSTALLED AND WITH ACTUAL ROOM DIMENSIONS.
6. PROVIDE RECESSED WALL BRACKET FOR COUNTERS WITH SPANS GREATER THAN 4'-0". UNLESS NOTED OTHERWISE.
7. ALL PLASTIC LAMINATE JOINTS TO BE NOTED ON SHOP DRAWINGS.
8. ALL FINISHED END PANELS AT BASE CABINETS TO BE ONE CONTINUOUS PANEL INCLUDING BASE.
9. INSTALL GROMMETS IN COUNTER TOPS @ 3'-0" ON CENTER.

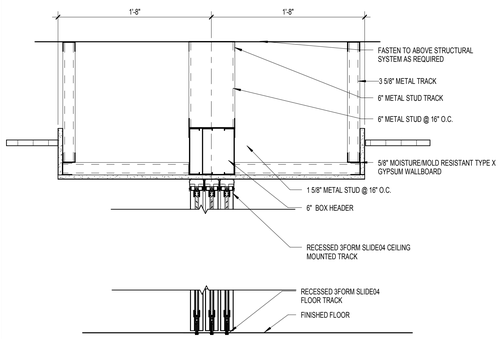
CABINET DIMENSIONS LEGEND

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION.
2. DIMENSIONS IDENTIFIED IN THE THIS LEGEND ARE TYPICAL UNLESS OTHERWISE NOTED IN ELEVATIONS AND OR SECTIONS.

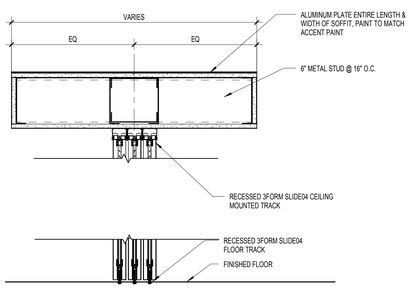
WORK COUNTER



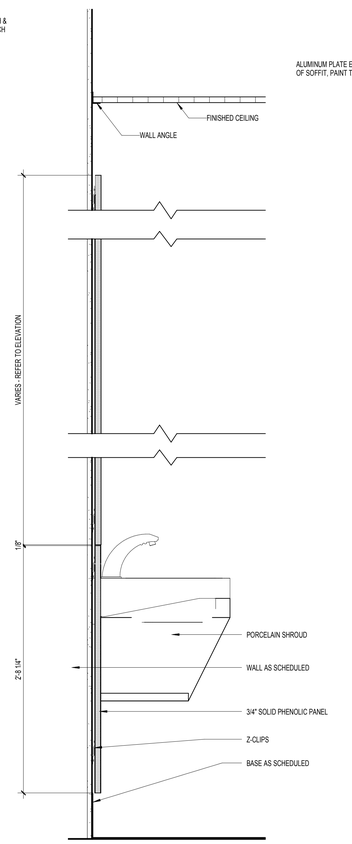
A. 2'-6" TYPICAL
2'-1" WHEN ADJACENT TO BASE CABINETS
B. 2'-6"



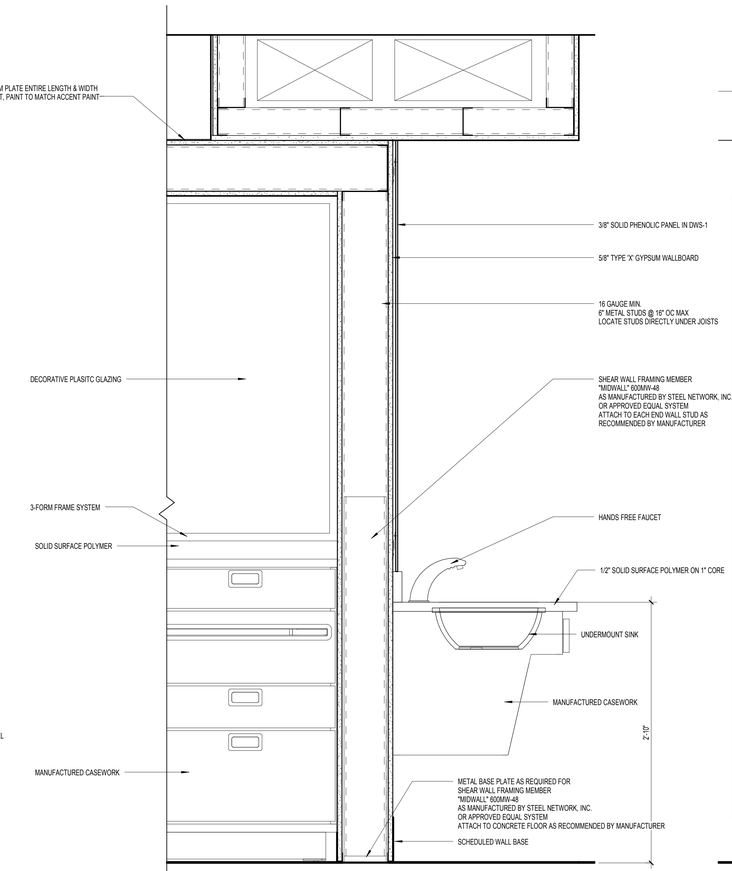
D1 3-FORM SLIDE @ FAMILY LOUNGE
1 1/2" = 1'-0"



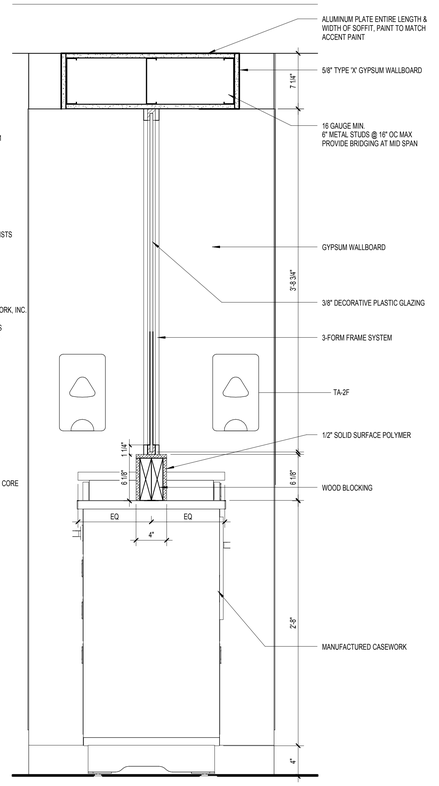
D2 3-FORM SLIDE @ INFUSION BAYS
1 1/2" = 1'-0"



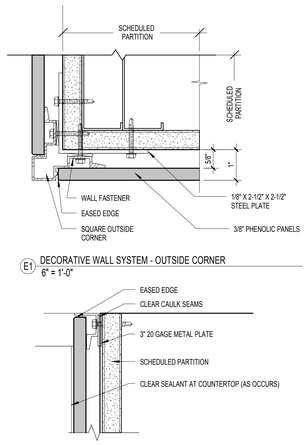
F4 SECTION @ SINK PHENOLIC PANEL
1 1/2" = 1'-0"



F6 SECTION @ INFUSION BAY HANDWASH SINK
1 1/2" = 1'-0"

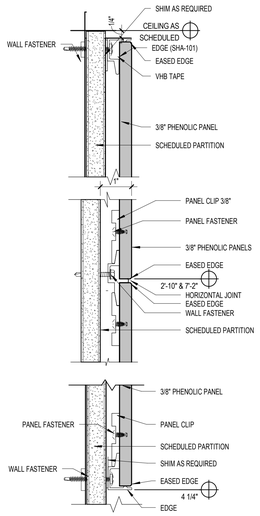


F9 SECTION AT INFUSION BAY CASEWORK
1 1/2" = 1'-0"

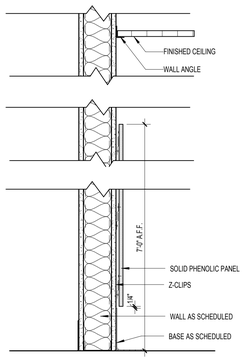


E1 DECORATIVE WALL SYSTEM - OUTSIDE CORNER
6" = 1'-0"

F1 DECORATIVE WALL SYSTEM - INSIDE CORNER
6" = 1'-0"



F2 DECORATIVE WALL SYSTEM
6" = 1'-0"



F3 SECTION @ TYPICAL PHENOLIC WALL PANEL
1 1/2" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: INTERIOR DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	JP	EN

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-301
Dwg. 22 of 79

Office of Facilities Management
Department of Veterans Affairs

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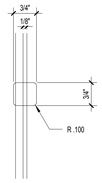
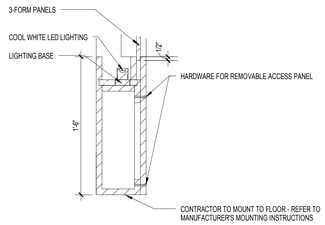
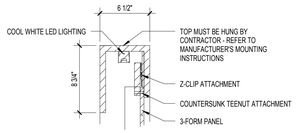


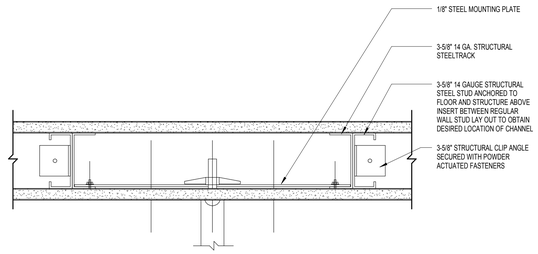
B1 DETAIL @ LIGHT BOX JOINT
6" = 1'-0"



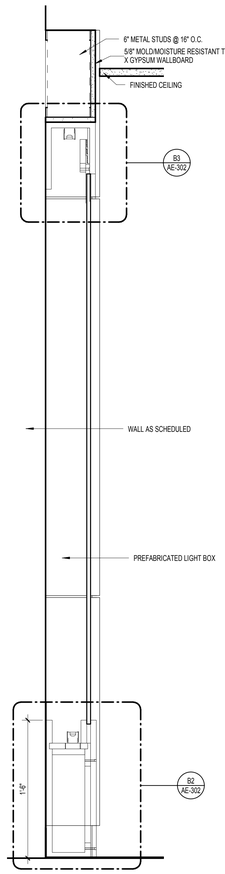
B2 DETAIL @ LIGHT BOX
1 1/2" = 1'-0"



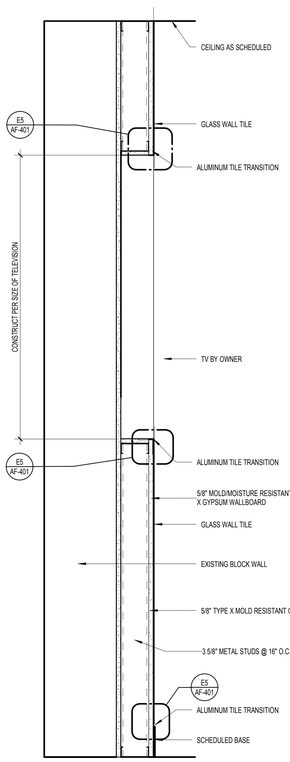
B3 DETAIL @ LIGHT BOX
1 1/2" = 1'-0"



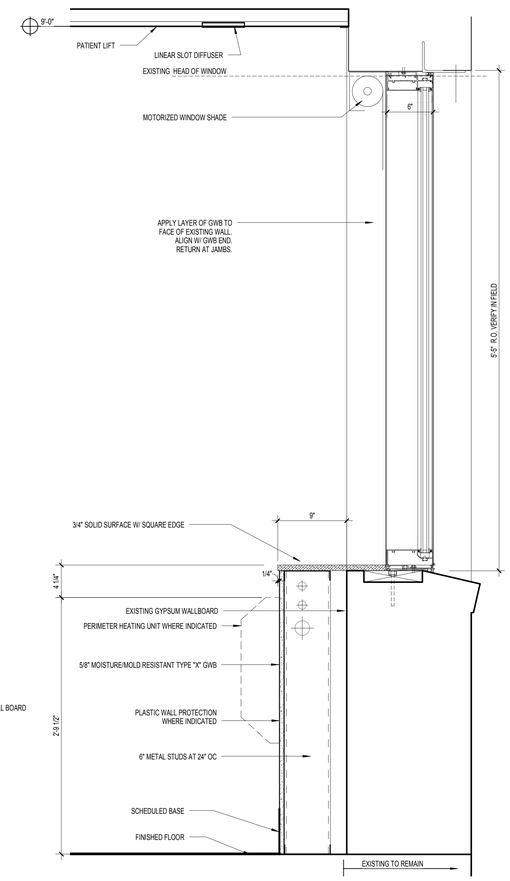
B4 TV MOUNTING BRACKET DETAIL - PLAN VIEW
3" = 1'-0"



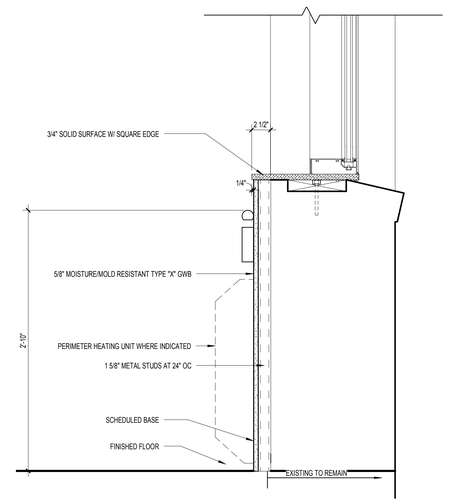
F1 SECTION @ LIGHT BOX
1 1/2" = 1'-0"



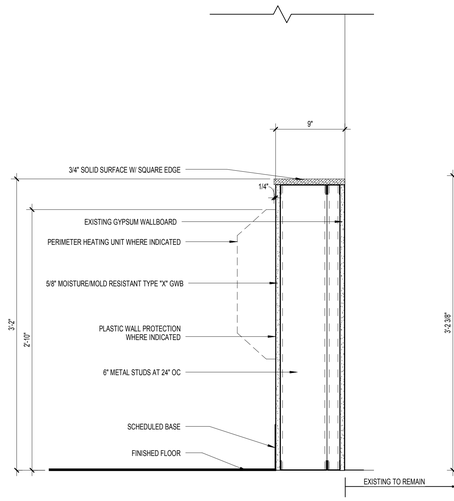
F2 SECTION @ FAMILY LOUNGE TV
1 1/2" = 1'-0"



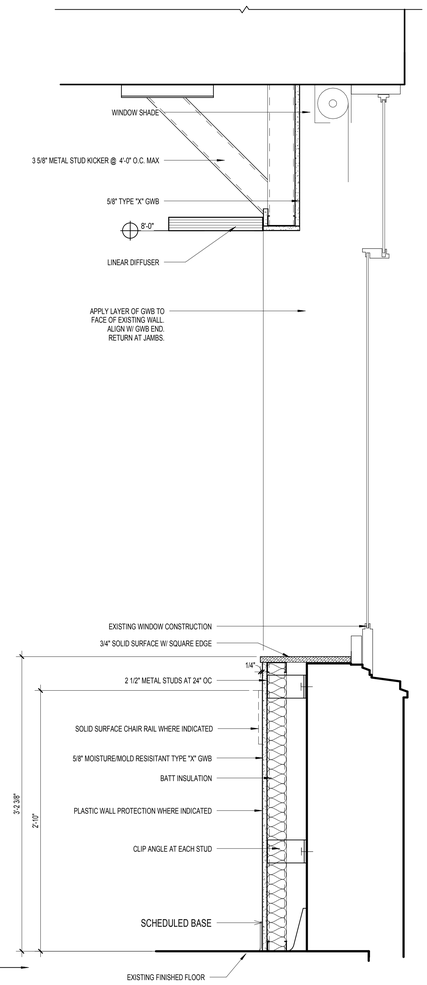
F3 SECTION @ BULDING 27 WINDOW
1 1/2" = 1'-0"



F4 SECTION @ CORRIDOR C4-3
1 1/2" = 1'-0"



F6 SECTION @ BUILDING 27 HEATING ELEMENT
1 1/2" = 1'-0"



F8 SECTION AT WINDOW IN BUILDING 1
1 1/2" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: INTERIOR DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	JP	EN

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-302
Dwg. 23 of 79

Office of Facilities Management
Department of Veterans Affairs

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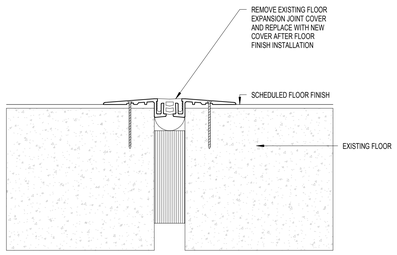
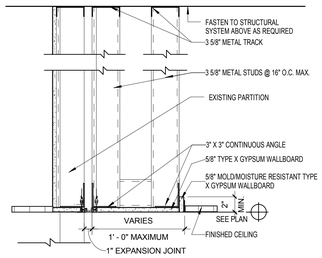
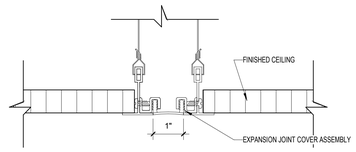


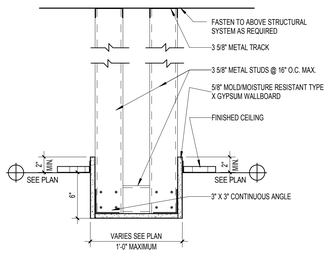
A1 EXPANSION JOINT DETAIL
6" = 1'-0"



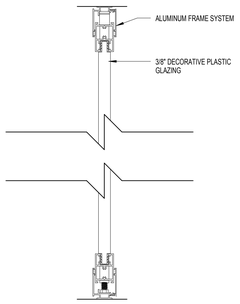
A2 EXPANSION JOINT DETAIL AT SOFFIT
1 1/2" = 1'-0"



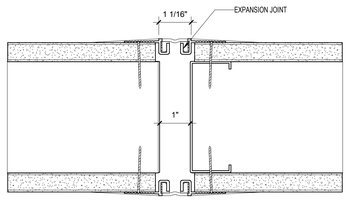
A3 EXPANSION JOINT DETAIL AT CEILING
6" = 1'-0"



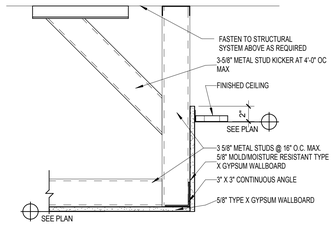
B1 SOFFIT DETAIL
1 1/2" = 1'-0"



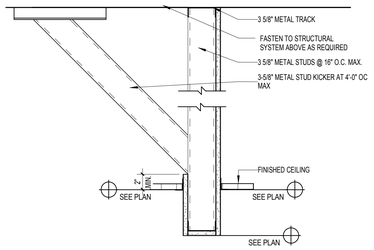
B2 SECTION @ ALUMINUM FRAME SYSTEM
6" = 1'-0"



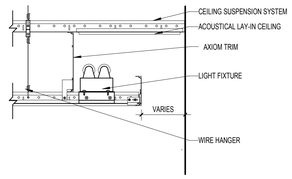
B3 EXPANSION JOINT DETAIL PLAN
6" = 1'-0"



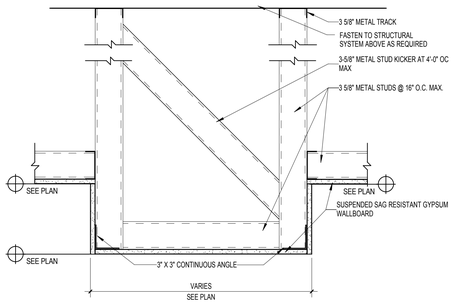
D1 SOFFIT DETAIL
1 1/2" = 1'-0"



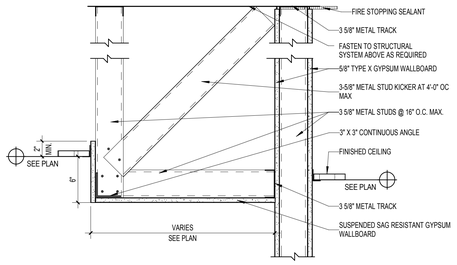
D2 SOFFIT DETAIL 2
1 1/2" = 1'-0"



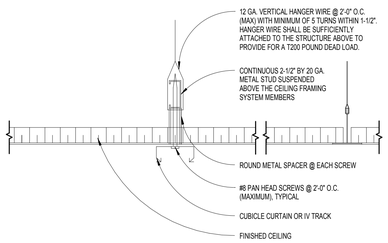
D4 COVE LIGHT DETAIL
1 1/2" = 1'-0"



D6 SOFFIT DETAIL
1 1/2" = 1'-0"

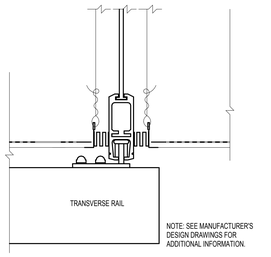


D8 SOFFIT DETAIL
1 1/2" = 1'-0"



NOTE:
1. CONTRACTOR TO VERIFY CUBICLE CURTAIN TRACK CLEARANCE WITH LIGHT FIXTURES, MECHANICAL DIFFUSERS AND SPRINKLER HEADS
2. PROVIDE SUFFICIENT HANGING SUPPORT TO THE CEILING TRACK AND/OR WOOD BLOCKING SO THE CUBICLE CURTAIN TRACK WILL SUPPORT THE WEIGHT REQUIRED IN THE SPECIFICATIONS.

F1 ATTACHMENT OF CUBICLE CURTAIN TRACK
1 1/2" = 1'-0"



F3 LIFT SYSTEM DETAIL
3" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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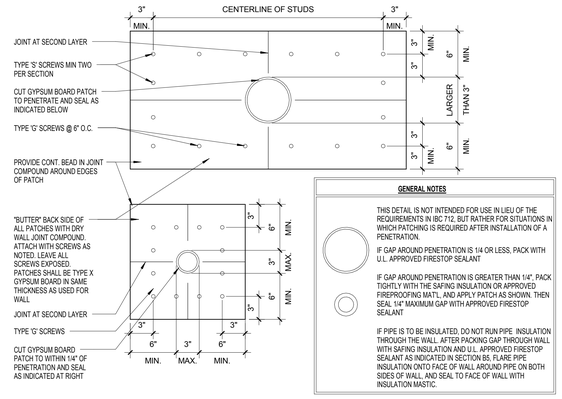
Project Number	Scale
3659	As indicated

Drawing Title	INTERIOR DETAILS
Approved: Project Director	
Project Title	EXPAND EXISTING ONCOLOGY
Location	1111 EAST END BLVD, WILKES-BARRE, PA 18711
Date	04/17/2013
Checked	NW
Drawn	EN
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	AE-303
Dwg. 24 of 79	

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



GENERAL NOTES

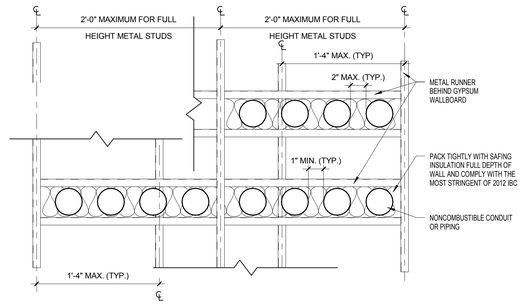
THIS DETAIL IS NOT INTENDED FOR USE IN LIEU OF THE REQUIREMENTS IN IBC 712, BUT RATHER FOR SITUATIONS IN WHICH PATCHING IS REQUIRED AFTER INSTALLATION OF A PENETRATION.

IF GAP AROUND PENETRATION IS 1/4 OR LESS, PACK WITH U.L. APPROVED FIRESTOP SEALANT

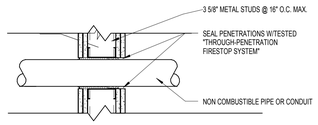
IF GAP AROUND PENETRATION IS GREATER THAN 1/4", PACK TIGHTLY WITH THE SAFING INSULATION OR APPROVED FIREPROOFING MATL, AND APPLY PATCH AS SHOWN. THEN SEAL 1/4" MAXIMUM GAP WITH APPROVED FIRESTOP SEALANT

IF PIPE IS TO BE INSULATED, DO NOT RUN PIPE INSULATION THROUGH THE WALL. AFTER PACKING GAP THROUGH WALL WITH SAFING INSULATION AND U.L. APPROVED FIRESTOP SEALANT AS INDICATED IN SECTION B5, FLARE PIPE INSULATION ONTO FACE OF WALL AROUND PIPE ON BOTH SIDES OF WALL, AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.

B1 PATCHING AND SEALING PENETRATIONS IN RATED AND/OR SMOKE WALLS
1 1/2" = 1'-0"

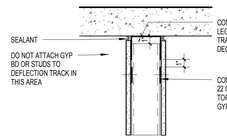


B2 UL LISTED MULTIPLE NONCOMBUSTIBLE CONDUIT/PIPE PENETRATION IN RATED AND SMOKE WALLS
1 1/2" = 1'-0"



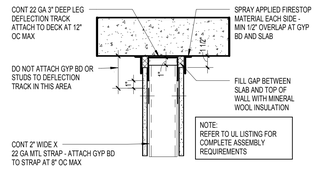
NOTES:
1. IF ANY PIPES ARE TO BE INSULATED, DO NOT RUN INSULATION THROUGH A RATED AND/OR RATED SMOKE WALL. AFTER SEALING PENETRATIONS AROUND PIPE THROUGH WALL WITH "THROUGH PENETRATION FIRESTOP SYSTEM", FLARE INSULATION ONTO FACE OF WALL AROUND PIPE ON BOTH SIDES OF WALL, AND SEAL TO FACE OF WALL WITH INSULATION MASTIC.
2. COMBUSTIBLE CONDUIT AND/OR PIPE IS NOT ALLOWED
3. THIS IS A TYPICAL ARRANGEMENT. REPEAT THIS PROCEDURE AS NEEDED TO ACCOMMODATE ALL NONCOMBUSTIBLE CONDUIT AND PIPE PENETRATIONS THROUGH THE WALLS.

B4 SECTION OF NONCOMBUSTABLE CONDUIT OR PIPE PENETRATION
1 1/2" = 1'-0"



CONCRETE FLOOR OR ROOF
NON-RATED OR SMOKE RESISTANT

B6 PARTITION HEAD DETAIL
1 1/2" = 1'-0"



CONCRETE FLOOR OR ROOF SLAB
ONE HOUR FIRE RATED AND ONE HOUR FIRE RATED SMOKE BARRIER UL-HW-D-0108

B7 PARTITION HEAD DETAILS
1 1/2" = 1'-0"

PARTITION TYPES GENERAL NOTES

1. ALL FIRE RATED AND SMOKE BARRIER PARTITIONS MUST BE INSTALLED PER THEIR UL DESIGN NUMBERS.

2. INSTALL FIRE SEALANT AROUND THE ENTIRE PERIMETER TO PREVENT THE PASSAGE OF SMOKE IN ALL RATED AND SMOKE PARTITIONS.

3. INSTALL SOUND ATTENUATION BLANKET IN ALL PARTITIONS THAT FORM ANY PART OF THE ENCLOSURE OF THE FOLLOWING ROOMS: TOILET ROOMS, EXAM ROOMS,OFFICES AND MECHANICAL ROOMS. THESE PARTITIONS SHALL HAVE 3-1/2" FIBERGLASS BATT SOUND ATTENUATION BLANKETS AND MEET MINIMUM SOUND TRANSMISSION RATING OF STC 45. USE ACOUSTICAL SEALANT AROUND THE ENTIRE PERIMETER ON NON-RATED PARTITIONS.

4. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" GLASS-MAT WATER RESISTANT GYPSUM BACKER BOARD (DENS-SHIELD) IN ALL AREAS TO RECEIVE CERAMIC TILE. SKIM COAT ENTIRE SURFACE NOT COVER BY TILE.

5. REPLACE 5/8" GYPSUM WALLBOARD WITH 5/8" MOISTURE AND MOLD-RESISTANT GYPSUM WALL BOARD PER SPEC ON ALL WALLS OTHER THAN THOSE COVERED IN NOTE # 4 ABOVE.

6. FOR HEIGHTS UP TO AND INCLUDING 14'-0" TYPICAL INTERIOR METAL STUDS ARE 20 GA. AT 16" O.C.; FOR HEIGHTS ABOVE 14'-0", USE 18 GA AT 16" O.C.; USE DOUBLE 20 GA. STUDS AT DOORS AND BORROWED LIGHT FRAMES

7. NOTIFY ARCHITECT OF WORK TO BE PERFORMED ON EXISTING PARTITIONS AND PROVIDE PRICING ACCORDING TO UNIT PRICES OUTLINED IN SPECIFICATION SECTION 012200.

8. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING IN PARTITIONS TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, DOOR HARDWARE, FURNISHINGS, OR SIMILAR CONSTRUCTION. COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF "GYPSUM CONSTRUCTION HANDBOOK".

9. WHEN INFILLING OR ABUTTING EXISTING PARTITIONS CONTRACTOR TO ADD AN ADDITIONAL LAYER OF GYPSUM WALLBOARD TO PARTITION TYPE AND/OR SKIM COAT WALL AS REQUIRED TO PROVIDE A FLUSH SURFACE. THICKNESS OF GYPSUM WALLBOARD AND / OR STUD SIZE TO BE DETERMINED IN FIELD TO PROVIDE A FLUSH SURFACE.

10. EXTEND ALL WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PROVIDE SLIP TRACK AT TOP OR ANOTHER APPROVED METHOD TO ALLOW FOR A 1" DEFLECTION OF THE STRUCTURE.

EXISTING PARTITION TYPE LEGEND

EXISTING PARTITION TO REMAIN ONE HOUR FIRE RATING SMOKE BARRIER. CONTRACTOR TO INSPECT AND SURVEY EXISTING CONDITION OF PARTITION AND PERFORM ALL NECESSARY WORK REQUIRED TO ACHIEVE THE FIRE RATING FROM FLOOR TO STRUCTURE ABOVE. CONTRACTOR TO USE MATERIALS IDENTICAL TO EXISTING MATERIALS OR MATERIALS WHOSE INSTALLED PERFORMANCE WILL EQUAL OR SURPASS THAT OF EXISTING MATERIALS.

TYPE B
EXIST. 1 HOUR SMOKE BARRIER

EXISTING PARTITION TO REMAIN TWO HOUR FIRE RATED SMOKE BARRIER. CONTRACTOR TO INSPECT AND SURVEY EXISTING CONDITION OF PARTITION AND PERFORM ALL NECESSARY WORK REQUIRED TO ACHIEVE THE FIRE RATING FROM FLOOR TO STRUCTURE ABOVE. CONTRACTOR TO USE MATERIALS IDENTICAL TO EXISTING MATERIALS OR MATERIALS WHOSE INSTALLED PERFORMANCE WILL EQUAL OR SURPASS THAT OF EXISTING MATERIALS.

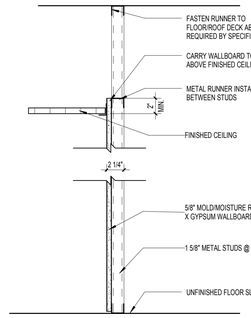
TYPE D
EXIST. 2 HOUR SMOKE BARRIER

EXISTING SMOKE PARTITION TO REMAIN. CONTRACTOR TO INSPECT AND SURVEY EXISTING CONDITION OF PARTITION AND PERFORM ALL NECESSARY WORK REQUIRED TO CONFORM WITH PARTITION TYPE 8. CONTRACTOR TO USE MATERIALS IDENTICAL TO EXISTING MATERIALS OR MATERIALS WHOSE INSTALLED PERFORMANCE WILL EQUAL OR SURPASS THAT OF PARTITION TYPE 8 MATERIALS.

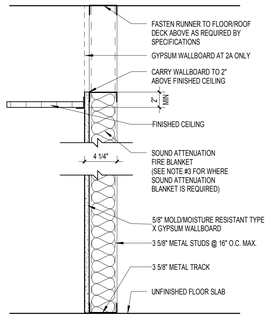
TYPE G
EXIST. SMOKE PARTITION

EXISTING SHAFT WALL TO REMAIN. CONTRACTOR TO INSPECT AND SURVEY EXISTING CONDITION OF PARTITION AND PERFORM ALL NECESSARY WORK REQUIRED TO CONFORM WITH PARTITION TYPE 17. CONTRACTOR TO USE MATERIALS IDENTICAL TO EXISTING MATERIALS OR MATERIALS WHOSE INSTALLED PERFORMANCE WILL EQUAL OR SURPASS THAT OF PARTITION TYPE 17 MATERIALS.

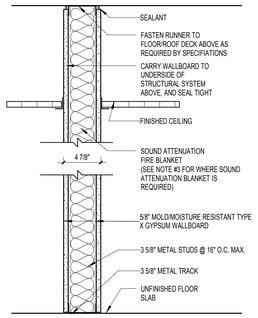
TYPE K
EXIST. 2 HOUR SHAFT WALL



TYPE 1

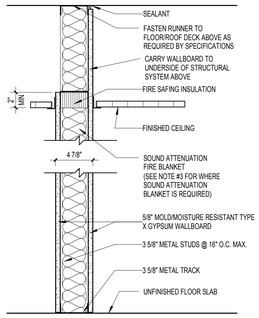


TYPE 2

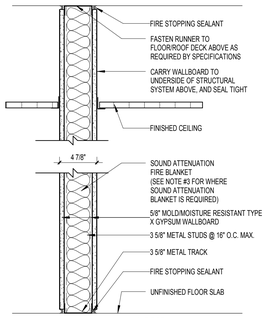


TYPE 5
STC 49
TYPE 5A SAME AS TYPE 5 EXCEPT 6" METAL STUDS

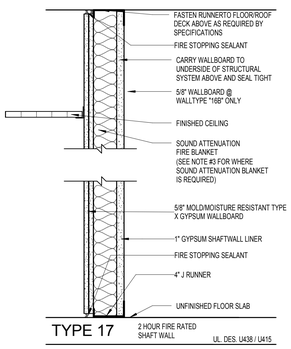
TYPE 7 CONSTRUCT WALL TO ALIGN WITH EXISTING ADJACENT WALLS



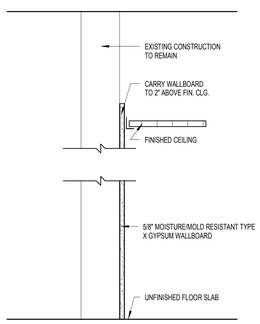
TYPE 8 SMOKE PARTITION



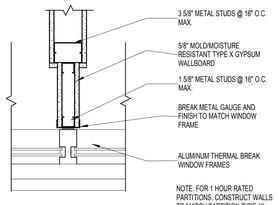
TYPE 10 1 HOUR FIRE RATED WALL UL DES U465/U419
STC 49



TYPE 17 2 HOUR FIRE RATED SHAFT WALL UL DES. U438 / U415

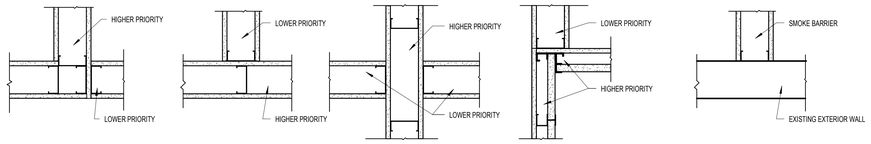


TYPE 27

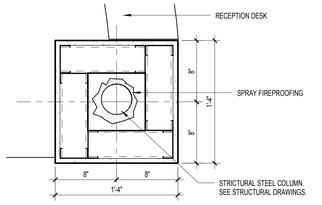


NOTE: FOR 1 HOUR RATED PARTITIONS, CONSTRUCT WALLS TO MATCH PARTITION TYPE 10.

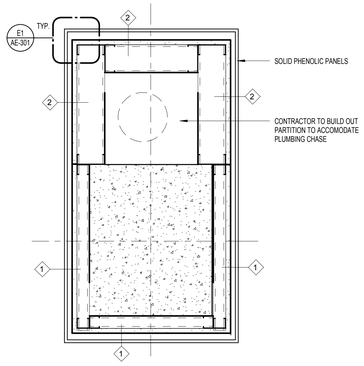
F1 DETAIL @ WINDOW
1 1/2" = 1'-0"



F2 RATED PARTITION INTERSECTION
1 1/2" = 1'-0"

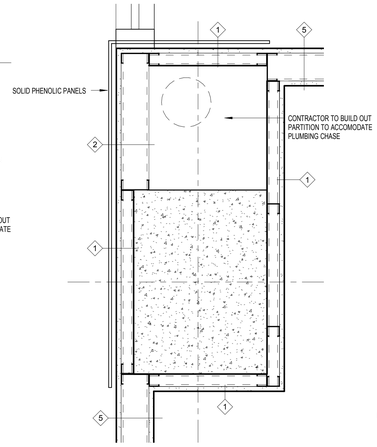


D4 TYPICAL COLUMN ENCLOSURE AT NURSES' STATION
1 1/2" = 1'-0"



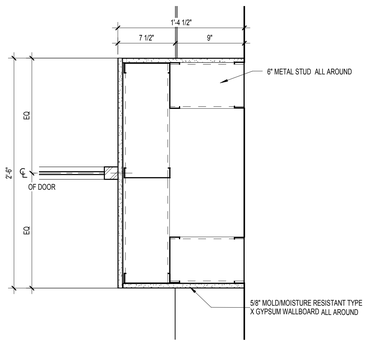
NOTE: ALIGN EDGES TO ADJACENT COLUMN ENCLOSURES AND CHASES

F4 TYPICAL COLUMN ENCLOSURE IN WAITING AREA
1 1/2" = 1'-0"



NOTE: ALIGN EDGES TO ADJACENT COLUMN ENCLOSURES AND CHASES

F6 COLUMN ENCLOSURE AT C4-07 (C4-08, C4-11 SIM)
1 1/2" = 1'-0"



NOTE: SEE AE-201 AND PG-141 FOR FURTHER MED GAS COORDINATION

F7 COLUMN ENCLOSURE AT INFUSION BAY
1 1/2" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: PARTITION TYPES & RATED DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

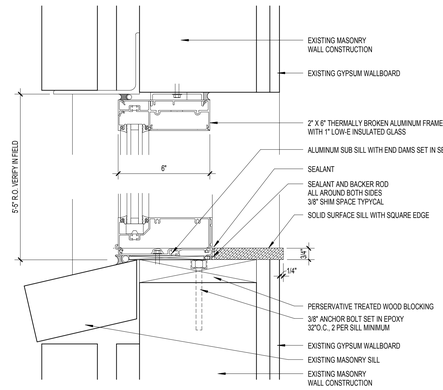
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	EN

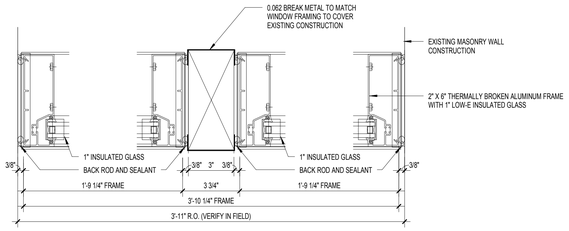
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-304
Dwg. 25 of 79

Office of Facilities Management
Department of Veterans Affairs

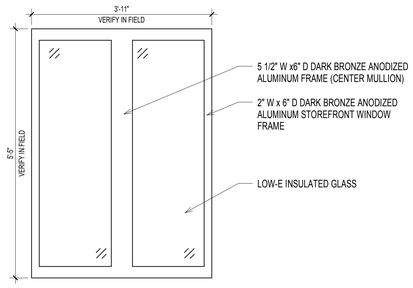
VA FORM 08-6231, OCT 1978



A1 TYPICAL SECTION @ WINDOW
3" = 1'-0"



C1 TYPICAL DETAIL @ WINDOW JAMB
3" = 1'-0"

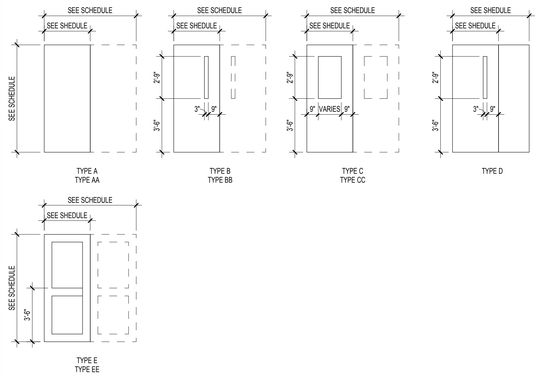


E1 EXTERIOR WINDOW ELEVATION
3/4" = 1'-0"

DOOR LEGEND

1. NUMBER: SEE FLOOR PLAN FOR DOOR NUMBER

2. DOOR ELEVATION: SEE TYPES BELOW



3. DOOR SIZE:

SEE SCHEDULE FOR WIDTH, HEIGHT AND THICKNESS

4. DOOR MATERIAL:

SCA = SOLID CORE ACROVYN FACES
AL = ALUMINUM & GLASS

5. DOOR FINISH:

WTF = WOOD TRANSPARENT FINISH
AL = ANODIZED ALUMINUM

6. GLASS TYPE:

CTG = 1/4" CLEAR TEMPERED GLASS
FRG = 1/4" FIRE RATED GLASS
FTG = 1/4" FROSTED TEMPERED GLASS
FFRG = 1/4" FROSTED FIRE RATED GLASS

7. FRAME ELEVATION:

SEE HOLLOW METAL ELEVATION LEGEND

8. FRAME MATERIAL:

HM = HOLLOW METAL
AL = ALUMINUM
ETR = EXISTING TO REMAIN

9. FRAME FINISH:

MP = METAL, PAINTED
AL = ANODIZED ALUMINUM

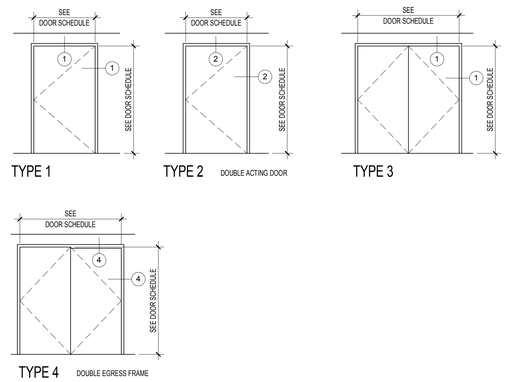
11. UL RATING:

20 M ; 45 M

12. HARDWARE SET:

SEE HARDWARE SETS IN SPECIFICATIONS.

HOLLOW METAL ELEVATIONS LEGEND



DOOR SCHEDULE

DOOR #	DOOR TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR FIN	FRAME TYPE	FRAME MATL	FRAME FIN	GLAZING WD	GLAZING TYPE	UL RATING	REMARKS
4-114	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-		
4-117	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-118	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-126	A	3' - 10"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-130	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-131	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	45 MIN	
4-143	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-144	D	6' - 0"	7' - 0"	1 3/4"	SCA	HIRA	3	HM	MP	3"	CTG	-	4'-0" DOOR, 2'-0" LEAF
4-145	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-146	A	3' - 10"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-147	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-148	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-149	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-150	EE	7' - 4"	7' - 0"	1 3/4"	SCA	HIRA	3	HM	MP		FTG	-	
4-152	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-153	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
4-155	A	3' - 8"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	45 MIN	
4-157	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	45 MIN	
4-158	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP			-	PREPARE FRAME FOR NEW DOOR SWING
4-159	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	45 MIN	
4-160	A	3' - 10"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-162	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-176A	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-176B	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-177	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	-	
4-182	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	20 MIN	
C4-2	EE	8' - 0"	7' - 0"	1 3/4"	SCA	HIRA	3	HM	MP		FFRG	45 MIN	
C4-02	A	2' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP			90 MIN	
C4-4	BB	7' - 4"	7' - 0"	1 3/4"	SCA	HIRA	2	HM	MP	3"	FRG	45 MIN	
C4-05	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
C4-6	BB	7' - 4"	7' - 0"	1 3/4"	SCA	HIRA	3	HM	MP	6"	FRG	-	
C4-06	BB	6' - 0"	7' - 0"	1 3/4"	SCA	HIRA	4	HM	MP	6"	FRG	90 MIN	
C4-07	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	1	HM	MP		-	-	
C4-10	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	2	HM	MP		-	-	
C4-11	A	3' - 0"	7' - 0"	1 3/4"	SCA	HIRA	2	HM	MP		-	-	
S-2	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	90 MIN	
S-3	A	3' - 6"	7' - 0"	1 3/4"	SCA	HIRA	1	ETR	MP		-	90 MIN	

DOOR AND BORROWED LIGHT SCHEDULE GENERAL NOTES

1. DOOR NUMBERING MAY NOT BE SEQUENTIAL. DOORS ARE NUMBERED TO MATCH THE ROOM NUMBERING.

2. ALL FRAMES SHALL BE CAULKED CONTINUOUSLY TO WALL.

3. WHEREVER THERE IS A CRACK LEFT BETWEEN THE BOTTOM OF DOOR FRAME AND THE FINISH FLOOR, THE CONTRACTOR SHALL PROVIDE CAULKING TO SEAL CRACK.

4. ALL THRESHOLDS SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, THE AMERICAN WITH DISABILITIES ACT AND CHAPTER 11 OF THE BUILDING CODE.

5. NON-RATED DOORS MAY BE UNDERCUT 3/4" MAXIMUM. DOORS IN RATED WALLS SHALL NOT BE UNDERCUT.

6. DOORS SCHEDULED TO HAVE A FIRE RATING LABEL SHALL HAVE A METAL LABEL PERMANENTLY AFFIXED TO BOTH THE DOOR AND FRAME. A VINYL LABEL AND EMBOSSED LABEL IN THE FRAME IS UNACCEPTABLE.

7. THE CONTRACTOR SHALL VERIFY THAT CLOSERS AND OTHER HARDWARE WILL ALLOW THE DOOR TO OPEN 180 DEGREES WHEN SUCH DOOR SWINGS ARE INDICATED ON THE FLOOR PLAN AND / OR THIS SCHEDULE.

8. ALL INTERIOR DOORS SHALL BE SOLID CORE, PRE-FINISHED UNLESS OTHERWISE NOTED IN THE SPECIFICATION.

9. ALL INTERIOR DOORS WITH CLOSER SHALL HAVE CLOSERS ADJUSTED TO 5 LB MAXIMUM PULL FORCE.

10. ALL DOORS WITH CLOSERS SHALL HAVE KICK PLATES.

11. DOORS SCHEDULED TO RECEIVE VIEW PANELS SHALL HAVE WOOD BEAD FRAME SURROUNDED IN SPECIES TO MATCH DOOR FINISH. FIRE RATED DOORS SHALL HAVE FIRE RATED WOOD BEAD.

12. ALL FRAMES SHALL BE 16 GAUGE, DOUBLE RABBETED AND PRIMED TO RECEIVE PAINT.

13. ALL HARDWARE IN RATED DOORS SHALL MEET THE REQUIREMENTS OF NFPA 80.

14. ALL EXAM ROOM ENTRANCE DOORS, EQUIPMENT STORAGE ROOMS, SOILED AND CLEAN HOLDING ROOMS DOORS SHALL HAVE SWING CLEAR HINGES.

15. THE TOP OF THE BORROWED LIGHTS FRAMES SHALL LINE UP WITH THE TOP OF THE DOOR FRAMES.

16. MOUNT THE METAL STOPS IN THE BORROWED LIGHTS ON THE "INSIDE" OF THE SPACE

17. ALL VIEW PANELS IN 45 MIN OR 20 MIN DOORS SHALL HAVE '/4" WIRE GLASS OR EQUAL AS SPECIFIED. GLASS SIZE SHALL NOT EXCEED 1296 SQUARE INCHES.

18. ALL OTHER VIEW PANELS OR BORROWED LIGHTS NOT MENTIONED IN NOTE 17 TO HAVE '/" TEMPERED GLASS.

19. ALL EXISTIN TO REMAIN FRAMES (ETR) SHALL BE REPAIRED AS NEEDED AND FINISHED TO MATCH NEW FRAMES.

DOOR FRAME DETAILS GENERAL NOTES

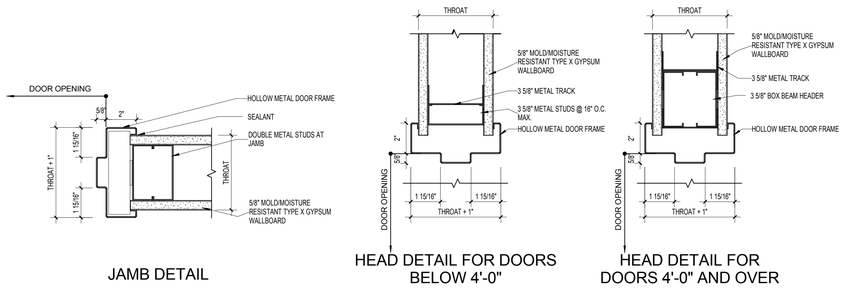
1. THROAT SIZE VARIES WITH STUD SIZES AND LAYERS OF GYPSUM WALLBOARD.

2. SEE FLOOR PLANS AND PARTITION TYPES FOR THROAT DIMENSIONS.

3. REFER TO STRUCTURAL DRAWING FOR LINTEL INFORMATION AT MASONRY OPENINGS.

4. UNLESS NOTED OTHERWISE ALL DOOR FRAMES TO BE 6" FROM PERPENDICULAR WALLS. CROSS CORRIDOR SMOKE DOORS FRAMES TO BE 4" FROM PERPENDICULAR WALLS.

5. ALL EXAM ROOM DOOR FRAMES TO BE 18" FROM PERPENDICULAR WALLS.

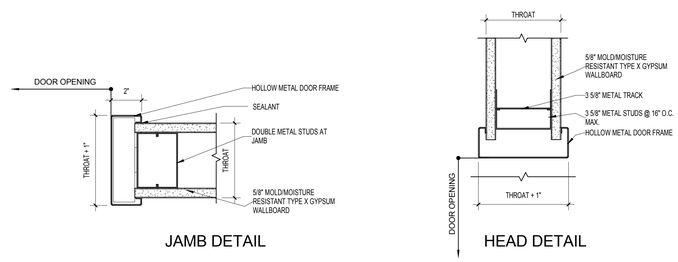


JAMB DETAIL

HEAD DETAIL FOR DOORS BELOW 4'-0"

HEAD DETAIL FOR DOORS 4'-0" AND OVER

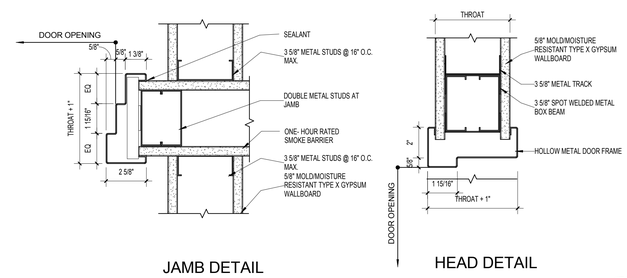
F1 FRAME DETAIL TYPE 1
3" = 1'-0"



JAMB DETAIL

HEAD DETAIL

F4 FRAME DETAIL TYPE 2
3" = 1'-0"



JAMB DETAIL

HEAD DETAIL

F7 FRAME DETAIL TYPE 4
3" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: DOOR & BORROWED LIGHT FRAME DETAILS & SCHEDULES

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

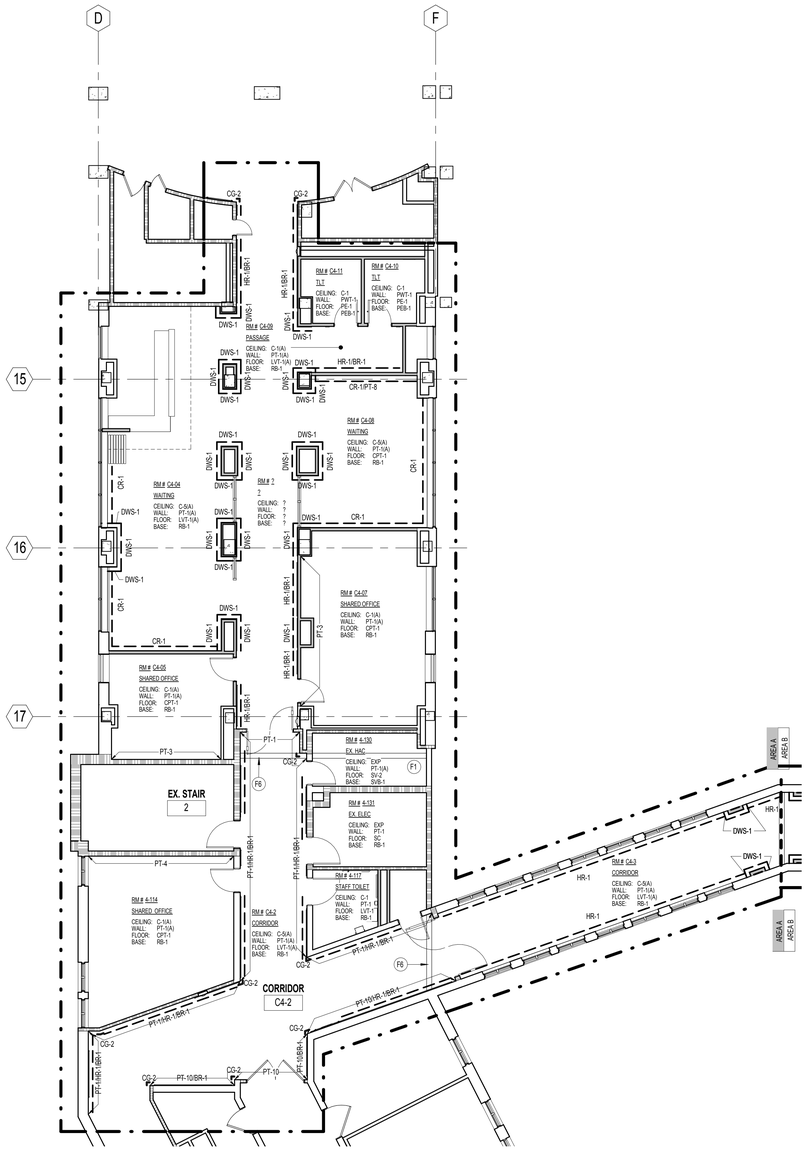
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	JP	EN

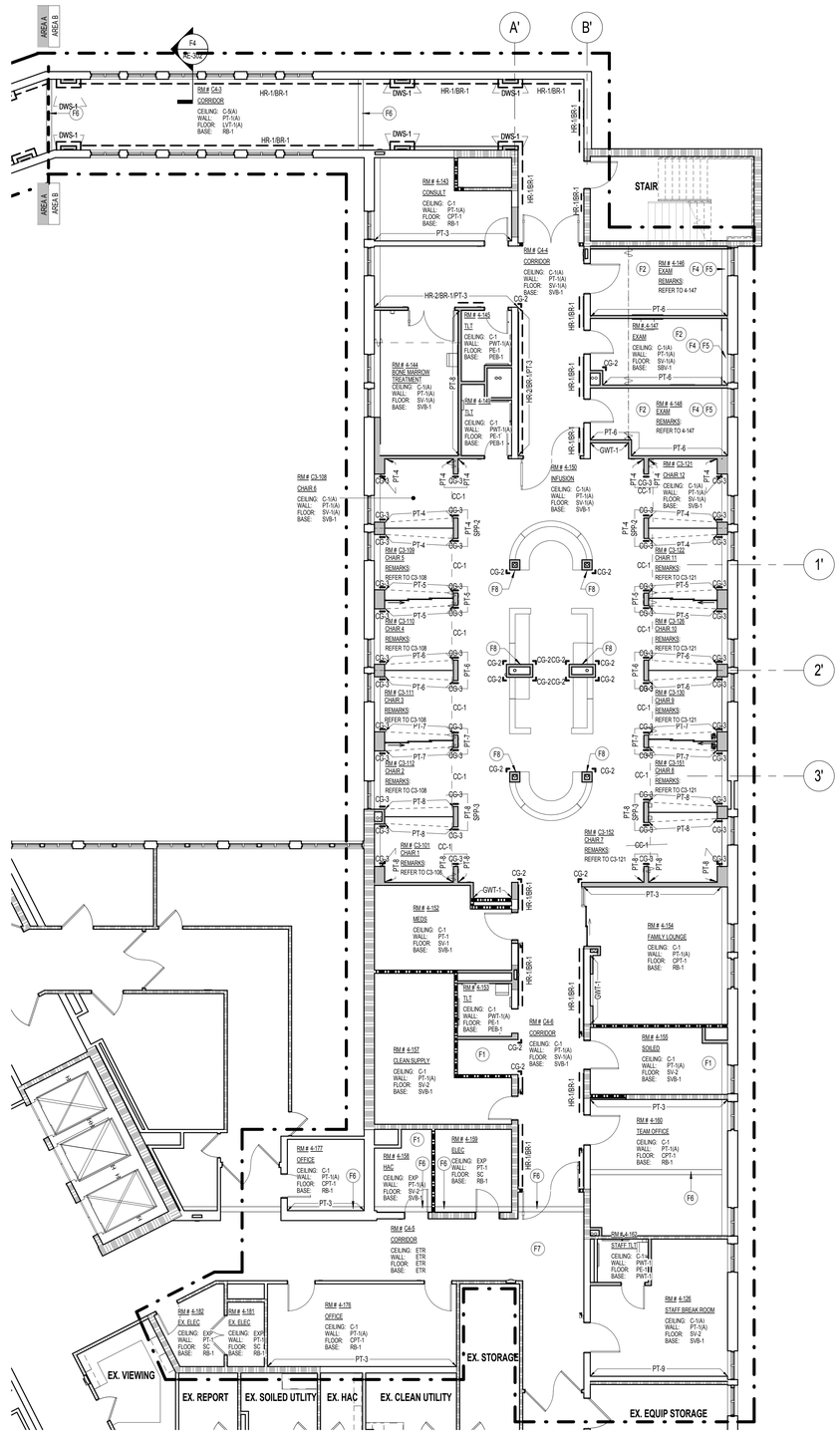
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AE-305
Dwg. 26 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



F1 FOURTH FLOOR FINISH PLAN AREA A
1/8" = 1'-0"



F4 FOURTH FLOOR FINISH PLAN AREA B
1/8" = 1'-0"

FINISH GENERAL NOTES

1. WHEN AN (A) IS IN THE FINISH TAG IT REFERS TO AN ACCENT FINISH. SEE THE FINISH / FLOOR PATTERN PLANS OR ELEVATIONS FOR TYPE AND LOCATION.

2. TYPICAL ROOM FINISH ARE C-1 / PT-1 / SV-1 / SVB-1. ALL WALLS TO BE PT-1 U.N.O. ALL TRIM TO BE PT-2 U.N.O. ALL SILLS TO BE SSP-1 U.N.O.

3. HANDRAIL,CHAIRRAIL AND BUMPER RAIL TO RUN CONTINUOUSLY FROM DOOR BUCK TO DOOR BUCK, TERMINATING AT ALL VERTICAL INTERRUPTIONS.

4. FLASH PATCH FLOORING AS REQUIRED TO PROVIDE A FLUSH TRANSITION AT ALL DIFFERENT FLOORING MATERIALS.

5. ALL GWB SOFFITS ARE TO BE PAINTED. FASCIA AND UNDERSIDE ARE TO MATCH. PROVIDE FRY REGLET REVEALS AS A MATERIAL OR COLOR TRANSITION. GWB SOFFITS ARE NEVER TO RECEIVE VINYL WALL COVERING.

6. ALL FURNITURE AND FURNITURE PANELS ARE N.I.C., UNLESS NOTED OTHERWISE.

7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ITEMS REQUIRING FINISH SELECTIONS THAT ARE NOT CLARIFIED IN THE CONTRACT DOCUMENTS.

8. SEAMLESS FLOORING TO HAVE A WELD ROD COLOR TO MATCH FLOOR.

9. CEILING ACCESS PANELS, HVAC DIFFUSERS/GRILLES SHALL BE WHITE UNLESS NOTED OTHERWISE.

10. ALL EXISTING WALL SURFACES TO REMAIN ARE TO BE PREPARED TO RECEIVE NEW WALL FINISH. SEE PLANS FOR EXTENT, TYPICAL.

11. FLOOR LEVELING WILL BE AN APPLIED TOPPING THROUGHOUT THE ENTIRE FLOOR. IF REQUIRED. A SURVEY OF ALL FLOOR SURFACES SHALL BE MADE BY THE GENERAL CONTRACTOR FOR THE PURPOSE OF DETERMINING OUT-OF-LEVEL CONDITIONS THAT WOULD PROHIBIT THE LEVEL PLACEMENT OF FLOORING, FILES OR FURNITURE, AND/OR INTERFERE WITH THE INSTALLATION OF ARCHITECTURAL OR MILLWORK ELEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR LEVELING FLOOR TO COVER MILLWORK TOLERANCES, FLOOR FINISHES, ETC.

FINISH KEYNOTES

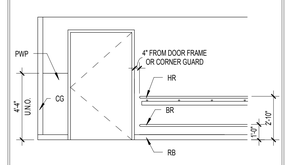
- F1 PLASTIC WALL PROTECTION (PWP-1) TO 4'-0" AFF. RAILROAD TO MINIMIZE SEAMS.
- F2 SOLID SURFACE POLYMER CHAIR RAIL (CR-1) ALL WALLS MTD. AT 2'-10" AFF AND PLASTIC WALL PROTECTION (PWP-1). ALL WALLS FROM TOP OF BASE TO BOTTOM OF CHAIR RAIL.
- F3 DPG-2 IN ALUMINUM CHANNELS TOP & BOTTOM.
- F4 SOLID SURFACE POLYMER (SSP-1) SILL
- F5 WINDOW TREATMENT (WT-1) AT ALL WINDOWS
- F6 EXPANSION JOINT
- F7 PATCH AND PAINT AS REQUIRED TO MATCH EXISTING FINISHES.
- F8 PAINT ALL SIDES OF COLUMN, PT-9

INTERIOR FINISH MATERIAL CODES

CODE	MATERIALS
BR	BUMPER RAIL
C	CEILING
CC	CUBICLE CURTAIN
CG	CORNER GUARD
CPT	CARPET
CR	CHAIR RAIL
DPG	DECORATIVE PLASTIC GLAZING
DWS	DECORATIVE WALL SYSTEM
EPT	EPOXY PAINT
ETR	EXISTING TO REMAIN
EX	EXISTING
GWT	GLASS WALL TILE
HR	HAND RAIL
LVT	LUXURY VINYL TILE
PE	POURED EPOXY FLOORING
PEB	POURED EPOXY INTEGRAL BASE
PL	PLASTIC LAMINATE
PM	PROJECTION MOULDING
PT	PAINT
PWP	PLASTIC WALL PROTECTION
PWT	PORCELAIN WALL TILE
QS	QUARTZ STONE
RB	RUBBER BASE
SC	SEALED CONCRETE
SG	SEMI-GLOSS PAINT
SPP	SOLID PHENOLIC PANEL
SSP	SOLID SURFACE POLYMER
SV	SEAMLESS VINYL FLOORING
SVB	SEAMLESS VINYL BASE
SSP	SOLID SURFACE POLYMER
SV	SEAMLESS VINYL FLOORING
TB	TACKBOARD
WS	WALL SCONCE
WT	WINDOW TREATMENT

WALL PROTECTION LEGEND

CG = CORNER GUARD
BR = BUMPER RAIL
HR = HANDRAIL
PWP = WALL PROTECTION



NOTE:
RUN SHEETS OF WALL PROTECTION HORIZONTALLY TO MINIMIZE SEAMS.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: PARTIAL FOURTH FLOOR FINISH PLAN

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

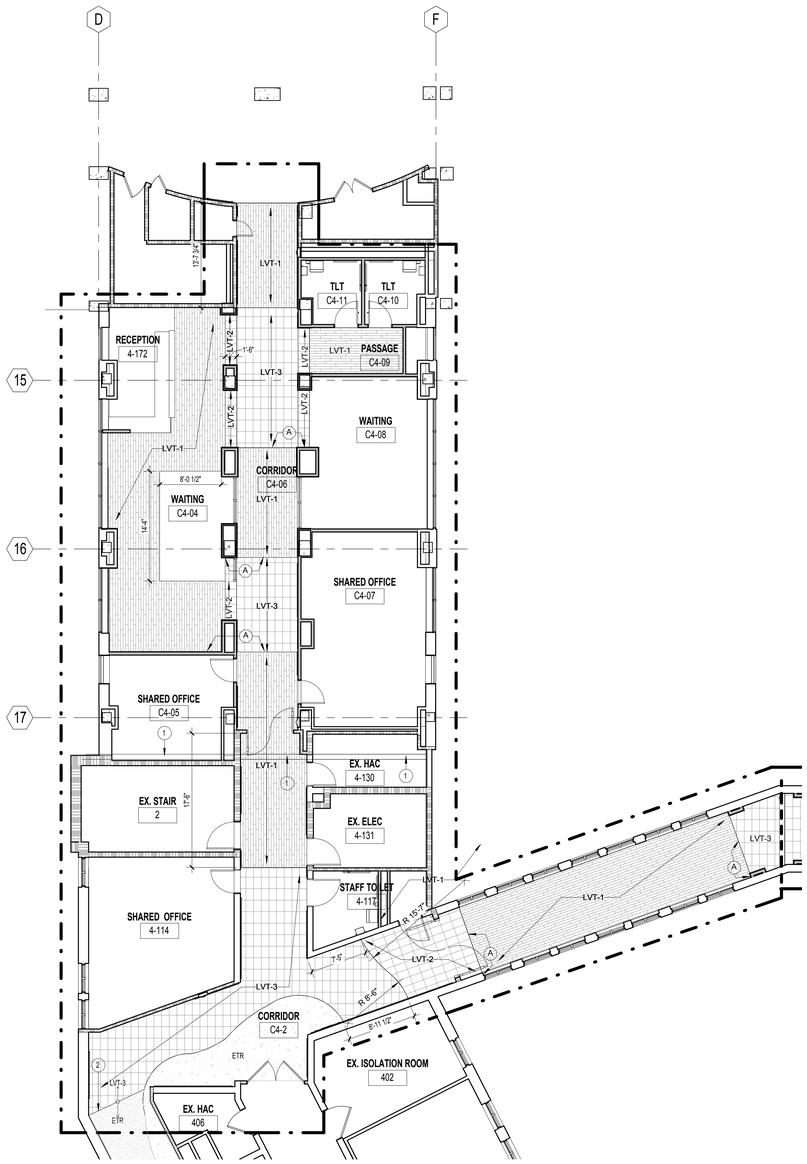
Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	NW

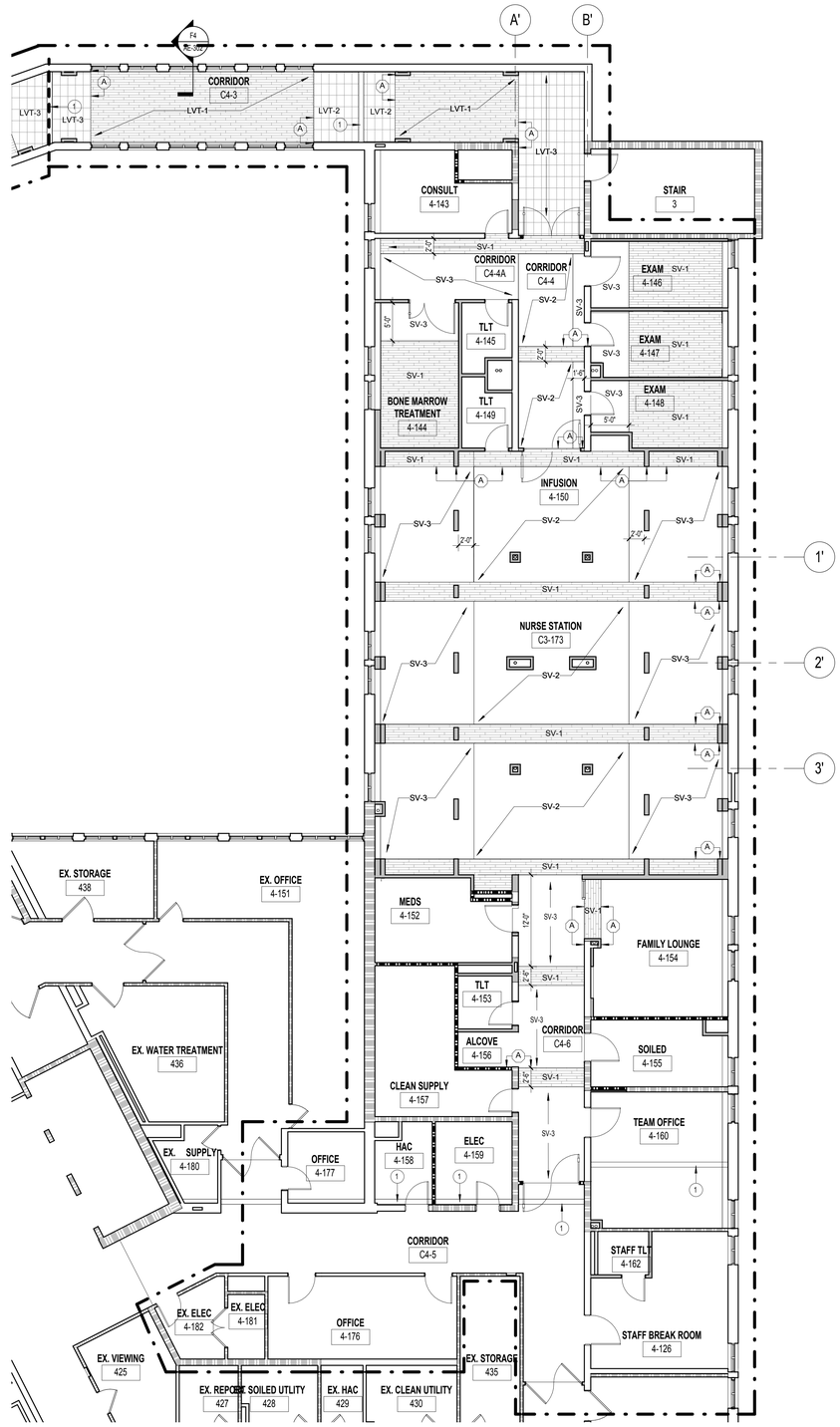
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AF-141
Dwg. 27 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 FOURTH FLOOR FLOOR PATTERN PLAN AREA A
1/8" = 1'-0"



2 FOURTH FLOOR FLOOR PATTERN PLAN AREA B
1/8" = 1'-0"

FLOOR PATTERN GENERAL NOTES

1. PRIOR TO ORDERING MATERIAL, CONTRACTOR SHALL SUBMIT TO ARCHITECT COORDINATED FLOOR PATTERN PLANS FOR REVIEW AND APPROVAL. THE FLOOR PATTERN PLAN SHALL SHOW COMPLETE LAYOUTS, DIMENSIONS AND STARTING POINTS.
2. ALL FLOOR SUBSTRATES ARE TO BE COMPLETELY FREE OF DIRT AND ADHESIVE RESIDUE PRIOR TO FLOOR INSTALLATION.
3. ALL FLOOR SUBSTRATES ARE TO BE TESTED FOR MOISTURE AND ALKALI PRIOR TO FLOOR INSTALLATION AS PER MANUFACTURER'S RECOMMENDATION. VERIFY WITH MATERIAL INSTALLATION INSTRUCTIONS.
4. WOOD SHEET FLOORING IS TO BE INSTALLED WITH MANUFACTURER'S RECOMMENDED ADHESIVE FOR HOSPITAL PATIENT ROOM FLOORS.
5. ALL CERAMIC TILE FLOORING TO HAVE STAINLESS STEEL TRANSITIONS AS PER SPECIFICATIONS.
6. ALL FLOORING TO CONTINUE UNDER ALL CASEWORK.
7. SHEET RUBBER (SR) AND SHEET VINYL (SV) TO BE COLD WELDED, UNLESS NOTED OTHERWISE.
8. ALL FLOORING MATERIALS TRANSITIONS MUST BE FLUSH. FLOORS ARE TO BE PREPPED AND FEATHERED TO ACCOMODATE A SMOOTH TRANSITION.
9. PROVIDE LEVEL TRANSITIONS BETWEEN NEW AND EXISTING FLOORING.

FLOOR PATTERN KEYNOTES

1. EXPANSION JOINT
2. CUT EXISTING FLOOR TO RECEIVE NEW FLOORING AT EXISTING FLOOR SEAM.

FULLY SPRINKLERED
ISSUED FOR BID

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Drawing Title: PARTIAL FOURTH FLOOR PATTERN PLAN

Approved: Project Director

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Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	NW

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: AF-142
Dwg. 28 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
2. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
3. ALL MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK UNDER THE CONTRACT SHALL BE NEW, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED, AND TO THE EXTENT POSSIBLE, STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR.
4. ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWING SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND COR. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
5. ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
6. THE MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT AS SHOWN ON THE DRAWINGS ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS AND REPLACEMENT. PROVIDE PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL ALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND/OR WITH ALL APPLICABLE CODES AND STANDARDS.
7. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND ROUTING OF ALL PROPOSED DUCTWORK, PIPING AND EQUIPMENT WITHIN THE BUILDING STRUCTURE.
8. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT.
10. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
11. DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. EXACT ROUTING OF DUCTWORK AND PIPING MUST BE DETERMINED IN THE FIELD. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING ANY DUCTWORK, PIPING OR EQUIPMENT. ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS OR DIMENSIONS SHALL BE REPORTED TO THE A/E AND VAMC COR BEFORE THE PERFORMANCE OF ANY WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF HIS WORK. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLED.
12. DUCTWORK AND PIPING SHALL BE KEPT AS CLOSE AND HIGH AS POSSIBLE TO THE BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE IN ORDER THAT THE MAXIMUM AMOUNT OF SPACE IS AVAILABLE. ADDITIONAL OFFSETS, FITTINGS, ETC. NOT SHOWN BUT REQUIRED TO MAINTAIN MAXIMUM CLEARANCE SHALL BE PROVIDED AT NO ADDITIONAL COST,
13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, PAINTING AND CLEANING ASSOCIATED WITH THIS PROJECT UNLESS NOTED OTHERWISE.
14. PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS.
15. CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT.
16. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
17. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.
18. CONTRACTOR SHALL TAKE POSSESSION OF AND DISPOSE OF ALL EXISTING MATERIALS AND EQUIPMENT BEING DEMOLISHED AND/OR REMOVED. ALL ITEMS SHALL BE DISPOSED OF IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, AND REGULATIONS THAT APPLY. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISPOSAL.
19. INSTALL SHUTOFF-DUTY VALVES AT EACH BRANCH CONNECTION TO SUPPLY MAINS, AND AT SUPPLY CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL CHECK VALVES AT EACH PUMP DISCHARGE AND ELSEWHERE AS REQUIRED TO CONTROL FLOW DIRECTION.
20. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION
21. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.
22. THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS: APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED. DAMAGED THREADS: DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS THAT HAVE CRACKED OR OPEN WELDS.
23. INSTALL MANUAL AIR VENTS AT HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.
24. CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT OF ITS NOMINAL THICKNESS. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.
25. INSULATE INSTRUMENT CONNECTIONS FOR THERMOMETERS, PRESSURE GAGES, PRESSURE TEMPERATURE TAPS, TEST CONNECTIONS, FLOW METERS, SENSORS, SWITCHES, AND TRANSMITTERS ON INSULATED PIPES, VESSELS, AND EQUIPMENT. SHAPE INSULATION AT THESE CONNECTIONS BY TAPERING IT TO AND AROUND THE CONNECTION WITH INSULATING CEMENT AND FINISH WITH FINISHING CEMENT, MASTIC, AND FLASHING SEALANT.
26. THE MECHANICAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARATION OF COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE COMPLETED WITH COORDINATION FROM THE GENERAL CONTRACTOR AND ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS AND ELEVATIONS, AS REQUIRED, TO FULLY COORDINATE ALL NEW WORK WITH ITSELF AND EXISTING CONDITIONS. DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO, ALL DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID AND HEIGHT, BEAMS AND JOISTS (WITH ELEVATIONS MARKED), ELECTRICAL CONDUIT LARGER THAN 2 INCHES IN DIAMETER AND ANY OTHER CEILING MOUNT DEVICES OR EQUIPMENT THAT PROTRUDE INTO THE CEILING CAVITY. IF THERE ARE ANY OUTSTANDING ISSUES THAT CANNOT BE RESOLVED, CONSULT WITH ARCHITECT AND/OR ENGINEER (THROUGH THE VA COR) FOR GUIDANCE AND MAKE CORRECTIONS IN ACCORDANCE WITH DIRECTIONS GIVEN. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED. ANY INSTALLATION COMMENCED PRIOR TO APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK AND MAY HAVE TO BE MODIFIED, MOVED AND/OR RECONFIGURED AT CONTRACTORS COST.
27. DUCT SMOKE DETECTOR SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, TIED INTO THE FIRE ALARM BY THE ELECTRICAL CONTRACTOR AND INTERLOCKED WITH THE BAS AND UNIT BY THE MECHANICAL CONTRACTOR.

HVAC DESIGN DATA

DESIGN CONDITIONS	SUMMER			WINTER			LOWEST AVERAGE ANNUAL DEWPOINT
	TEMP	WET BULB TEMP	% HUMIDITY	TEMP	DEWPOINT TEMP	% HUMIDITY	
OUTDOOR DESIGN CONDITIONS	89 °F	72 °F	---	4 °F	-8 °F	---	-3 ºF
OFFICE	75 °F	65 °F	60	70 °F	27 °F	20	---
CORRIDORS	75 °F	65 °F	60	70 °F	27 °F	20	---
CLEAN UTILITY / STORAGE ROOM	N/A	N/A	N/A	N/A	N/A	N/A	---
TOILETS - PUBLIC (INTERIOR)	75 °F	65 °F	60	70 °F	27 °F	20	---
TOILETS - PATIENT (INTERIOR)	75 °F	65 °F	60	70 °F	27 °F	20	---
HOUSEKEEPING AID CLOSET	N/A	N/A	N/A	N/A	N/A	N/A	---
ELECTRICAL EQUIPMENT CLOSETS	N/A	N/A	N/A	40 °F	N/A	N/A	---
EXAMINATION ROOM	75 °F	65 °F	60	70 °F	27 °F	20	---
SOILED UTILITY	N/A	N/A	N/A	N/A	N/A	N/A	---
BLOOD DRAW ROOM	75 °F	65 °F	60	70 °F	27 °F	20	---
LOUNGE	75 °F	65 °F	60	70 °F	27 °F	20	---
MULTIPURPOSE ROOM	75 °F	65 °F	60	70 °F	27 °F	20	---
ADMISSION / MAIN WAITING	75 °F	65 °F	60	70 °F	27 °F	20	---
NURSES STATION	75 °F	65 °F	60	70 °F	27 °F	20	---
MEDICATION STORAGE	75 °F	65 °F	60	70 °F	27 °F	20	---
BMT PATIENT ROOM	75 °F	65 °F	60	70 °F	27 °F	20	---

NOTES:

1. ROOM DESIGN DATA FROM MARCH 2011 DEPARTMENT OF VETERANS AFFAIRS HVAC DESIGN MANUAL FOR NEW, REPLACMENT, ADDITION, AND RENOVATION OF EXISTING VA FACILITUES.
2. OUTDOOR DESIGN DATA FROM ASHRAE 2009 CLIMATIC DESIGN CONDITIONS.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
AB	AIR BLENDER
AAV	AUTOMATIC AIR VENT
ACC	AIR COOLED CONDENSER
ACCH	AIR COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ACD	AUTOMATIC CONTROL DAMPER,MODULATING
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFW	AIR FOIL WHEEL (FAN)
AHU	AIR-HANDLING UNIT
AMP	AMPERGE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
AXF	AXIAL FLOW
B	BOILER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BDR	BASE BOARD RADIATOR
BFP	BACKFLOW PREVENTER
BFT	BOILER PLANT FIRE TUBE
BG	BOTTOM GRILLE
BHP	BRAKE HORSEPOWER
BHW	HOT WATER HEATING BOILER
BHX	BOILER BLOWDOWN HEAT EXCHANGER
BIW	BACKWARD INCLINED WHEEL (FAN)
BMT	BONE MARROW TRANSPLANT
BR	BOTTOM REGISTER
BSC	BIOLOGICAL SAFETY CABINETS
BT	BLOWOFF TANK
BTC	BLOWOFF TANK CONTROL VALVE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWT	BOILER PLANT WATER TUBE
C	CENTIGRADE (CELCIUS)
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CENT	CENTRIFICAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CFP	CHEMICAL FEED PUMP
CG	CEILING GRILLE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHW	CHILLER WATER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CM	CARBON MONOXIDE
CM	CUBIC METER
CM/S	CUBIC METER PER SECOND
CO	CLEAN OUT
CO2	CARBON DIOXODE
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CS	CONDENSATE STORAGE TANK
CSG	CLEAN STEAM GENERATOR
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CWCC	CHILLED WATER COOLING COIL
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN (TO COOLING TOWER)
CWS	CONDENSER WATER SUPPLY (FROM COOLING TOWER)
D	DAMPER - AUTOMATIC
D-1	OUTDOOR AIR DAMPER
D-2	RETURN AIR DAMPER
D-3	RELIEF AIR DAMPER
DB	DECIBELS
Db	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DIW	DEIONIZED WATER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EVAPORATIVE COOLER
ECC	ENGINEERING CONTROL CENTER
ECU	EVAPORATIVE CONDENSER UNIT
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EGS	EMERGENCY GAS SHUTOFF
EGT	ENTERING GLYCOL TEMPERATURE
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
EMD	END OF MAIN DRIP (STEAM)
ENT	ENTERING
ER	EXHAUST REGISTER
ERC	ELECTRIC REHEAT COIL
ERP	ELECTRIC RADIANT PANEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETO	ETHYLENE OXIDE
EUH	ELECTRIC UNIT HEATER
EWC	EVAPORATIVE WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT (4 PIPE)
FCUC	FAN COIL UNIT COOLING ONLY
FCUH	FAN COIL UNIT HEATING ONLY
FCW	FORWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FHX	FLUE GAS/FEEDWATER HEAT EXCHANGER
FM	FLOW METER
FOP	FUEL OIL PUMP
FOT	FUEL OIL TANK
FOHX	FUEL OIL HEAT EXCHANGER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTU	FAN POWERED TERMINAL UNIT
FR	FLOOR REGISTER
FRP	FIBER REINFORCED POLYESTER
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FEET
FT-LB	FOOT-POUND
FTR	FIN TUBE RADIATION
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GS	GALVANIZED STEEL
H	HUMIDIFER
H&CW	HOT & COLD WATER
HAC	HOUSEKEEPING AID CLOSET
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HD	HOOD
HOA	HAND/OFF/AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HPDT	HIGH PRESSURE DRIP TRAP
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HRC	HEAT RECOVERY COIL
HRD	HEAT RECOVERY DEVICE
HRP	HYDRONIC RADIANT (CEILING) PANEL
HRW	HEAT RECOVERY WHEEL
HSTAT	HUMIDISTAT
HTM	HUMIDIFIER TERMINAL
HUM	HUMIDIFIER UNIT MOUNTED
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWC	HOT WATER COIL
HWHC	HOT WATER HEATING COIL
HWP	HEATING HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HWUH	HOT WATER UNIT HEATER
HVD	HOISTWAY VENT DAMPER
HX	HEAT EXCHANGER
HZ	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IBT	INVERTED BUCKET TRAP
ICF	IN-LINE CENTRIFUGAL FAN
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTERGRATED PART LOAD VALUE
IRH	INTRARED HEATER
IS	INSECT SCREEN
IU	INDUCTION UNIT
IV	INLET VANES
kg	KILOGRAM
kg/HR	KILOGRAM PER HOUR
kPa	KILOPASCAL
kW	KILOWATT
kWh	KILOWATT HOUR
L	LITER
L/h	LITERS PER HOUR
L/m	LITERS PER MINUTE
L/s	LITERS PER SECOND
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LGT	LEAVING GLYCOL TEMPERATURE
LH	LATENT HEAT
LPG	LIQUID PROPANE GAS
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPRC	LOW PRESSURE STEAM RETURN (CLEAN)
LLHX	LIQUID TO LIQUID HEAT EXCHANGER
LPS	LOW PRESSURE STEAM
LPSC	LOW PRESSURE STEAM (CLEAN)
LSD	LINEAR SLOT DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M	METER, SI UNIT
M/s	METERS PER SECOND (OR METERS/SECOND)
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MH	MANHOLE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOV	MOTOR OPERATED VALVE
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE STEAM
MRI	MAGNETIC RESONANCE IMAGING
MTD	MEAN TEMPERATURE DIFFERENCE
MVD	MANUAL VOLUME DAMPER
MZ	MULTI-ZONE
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NGFM	NATURAL GAS FLOWMETER
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAG	OUTSIDE AIR GRILLE
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OFM	OIL FLOWMETER
OR	OPERATING ROOM
P	PUMP
PA	PASCAL
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PEF	PROPELLER (TYPE) EXHAUST FAN
PF	PRE-FILTER
PG	PRESSURE GAGE
PGW	PROPYLENE GLYCOL-WATER (SOLUTION)
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PRS	PRESSURE REGULATING (VALVE) STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAGE
PSS	PRIMARY SECONDARY SYSTEM
PSV	PRESSURE SAFETY VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAD	REFRIGERANT AIR DRYER
RAF	RADIO FREQUENCY
RAHX	ROTARY AIR HEAT EXCHANGER
RAT	RETURN AIR TEMPERATURE
RCCH	REMOTE CONDENSER CHILLER
RCU	RECIPROCATING CHILLER UNIT
RD	REFRIGERANT DISCHARGE
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SCI	SPINAL CODE INJURY
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SH	STEAM HUMIDIFIER
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPD	SUPPLY PROCESS AND DISTRIBUTION
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
SSHX	STEAM TO STEAM HEAT EXCHANGER
SSR	SOLID SEPARATOR
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
SV	STEAM PRESSURE REDUCING VALVE
SVS	STEAM VENT SILENCER
SWHX	STEAM TO WATER HEAT EXCHANGER
T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TG	TRANSFER GRILLE
TP	TRAP
TR	TOP REGISTER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TWU	THRU-WALL UNIT
UC	UNDER CUT
UC	UNIT COOLER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
URV	UPBLAST UNIT VENTILATOR
V	VALVE
VAF	VANE-AXIAL FAN
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VHA	VETERANS HEALTH ADMINISTRATION
VI	VIBRATION ISOLATOR
VIV	VARIABLE INLET VANES
VP	VACUUM PUMP
VPS	VARIABLE PRIMARY SYSTEM
VR	VACUUM (STEAM CONDENSATE) RETURN
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
WAG	WASTE ANETHESIA GAS
Wb	WET-BULB (TEMPERATURE)
WC	WATER COOLED
WCCH	WATER COOLED CHILLER
WCCU	WATER COOLED CONDENSING UNIT
WCHP	WATER COOLED HEAT PUMPS
WCPU	WATER COOLED PACKAGED UNIT
WEF	WALL EXHAUST FAN
WF	WATER FILTER
WFCV	WATER FLOW CONTROL VALVE
WFM	WATER FLOWMETER
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
YR	YEAR

MECHANICAL LEGENDS

Symbol	Description
CO2	CARBON DIOXIDE
T	THERMOSTAT
	SUPPLY DIFFUSER
	RETURN DIFFUSER/GRILL
	EXHAUST GRILL
	ROUND FLEX DUCT
1i	DIFFUSER TAG
200 CFM	DIFFUSER CFM
	LINEAR SLOT DIFFUSER
	BALANCING DAMPER (RECTANGULAR)
	BALANCING DAMPER (ROUND)
F	FIRE DAMPER
SD	SMOKE DAMPER
R	INCLINED RISE, IN DIRECTION OF AIRFLOW
D	INCLINED DROP, IN DIRECTION OF AIRFLOW
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS)
10x8	NEW DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	DUCT TRANSITION
	SIDE MOUNTED GRILLE
45° SUPPLY / 45° RETURN	STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
UP / DN	SUPPLY DUCT (UP & DOWN)
UP / DN	EXHAUST DUCT (UP & DOWN)
UP / DN	RETURN DUCT (UP & DOWN)
	DUCT EXPANSION JOINT
HPS	HIGH PRESSURE STEAM PIPING
MPS	MEDIUM PRESSURE STEAM PIPING
LPS	LOW PRESSURE STEAM PIPING
COND	CONDENSATE RETURN PIPING
STMCOND	STEAM CONDENSATE PIPING
VAC	VACUUM PIPING
CHS	CHILLED WATER SUPPLY PIPING
CHR	CHILLED WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
FTHWS	FIN TUBE HEATING HOT WATER SUPPLY PIPING
FTHWR	FIN TUBE HEATING HOT WATER RETURN PIPING
	PIPE UP
	PIPE DOWN
	BOTTOM CONNECTION
	TOP CONNECTION
	CAPPED OUTLET
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	BALANCING VALVE
	PRESSURE REGULATING VALVE
	WYE STRAINER VALVE
M	MOTORIZED CONTROL VALVE
	STEAM TRAP
	PRESSURE REDUCING VALVE
	PIPE EXPANSION JOINT
	PHASE LIMITS OF WORK
S	STEAM RISER INDICATOR
R	STEAM CONDENSATE RISER INDICATOR
	EXISTING PIPE TO BE REMOVED
SD	DUCT SMOKE DETECTOR

CONTROL SYMBOLS

Symbol	Description
T	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
HT	HUMIDITY TRANSMITTER
PT	PRESSURE TRANSMITTER
SPS	STATIC PRESSURE SENSOR
FT	FLOW TRANSMITTER
IT	CURRENT TRANSMITTER
CT	CONDUCTIVITY TRANSMITTER
SD	SMOKE DETECTOR (BY FIRE ALARM CONTRACTOR)
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDS	PRESSURE DIFFERENTIAL SWITCH
HS	HAND SWITCH (HAND-OFF-AUTO SWITCH)
ZC	VALVE OR DAMPER POSITION CONTROLLER
KR	LOCAL RECORDING TIME CLOCK (RUNTIME)
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
TSH	TEMPERATURE SWITCH, HIGH (FREEZESTAT)
LC	LEVEL CONTROLLER
LT	LEVEL TRANSMITTER
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
EPT	ELECTRONIC TO PNEUMATIC TRANSDUCER
AT CO2	CARBON DIOXIDE TRANSMITTER
AT CO	CARBON MONOXIDE TRANSMITTER
AT OC	OCCUPANCY SENSOR
LTCP	LOCAL TEMPERATURE CONTROL PANEL
HVAC	HVAC CONTROL PANEL
VSMC	VARIABLE SPEED MOTOR CONTROLLER
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
PC	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
SC	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
FC	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
FSH	FLOW SWITCH HIGH
FSL	FLOW SWITCH LOW
KC	TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE
	MOTOR STARTER
M	ELECTRIC OPERATED CONTROL DAMPER/OR VALVE
HHL	HIGH HUMIDITY LIMIT
DPS	DIFFERENTIAL PRESSURE SWITCH

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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MEP Engineer: APOGEE Consulting Group, PA, 6325 Woodside Court, Suite 310A, Columbia, MD 21046, Tel (443) 539-4090

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Fire Protection: harrington group, 7508 East Independence Blvd., Suite 116, Charlotte, NC 28227, Tel (704) 531-9007

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 76043

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Project Number	Scale	Drawing Title	Project Title	VA Project Number
3541	As indicated	MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND	EXPAND EXISTING ONCOLOGY	693-11-122

Approved: Project Director

Building Number: 1 & 27

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

Drawing Number: M-001

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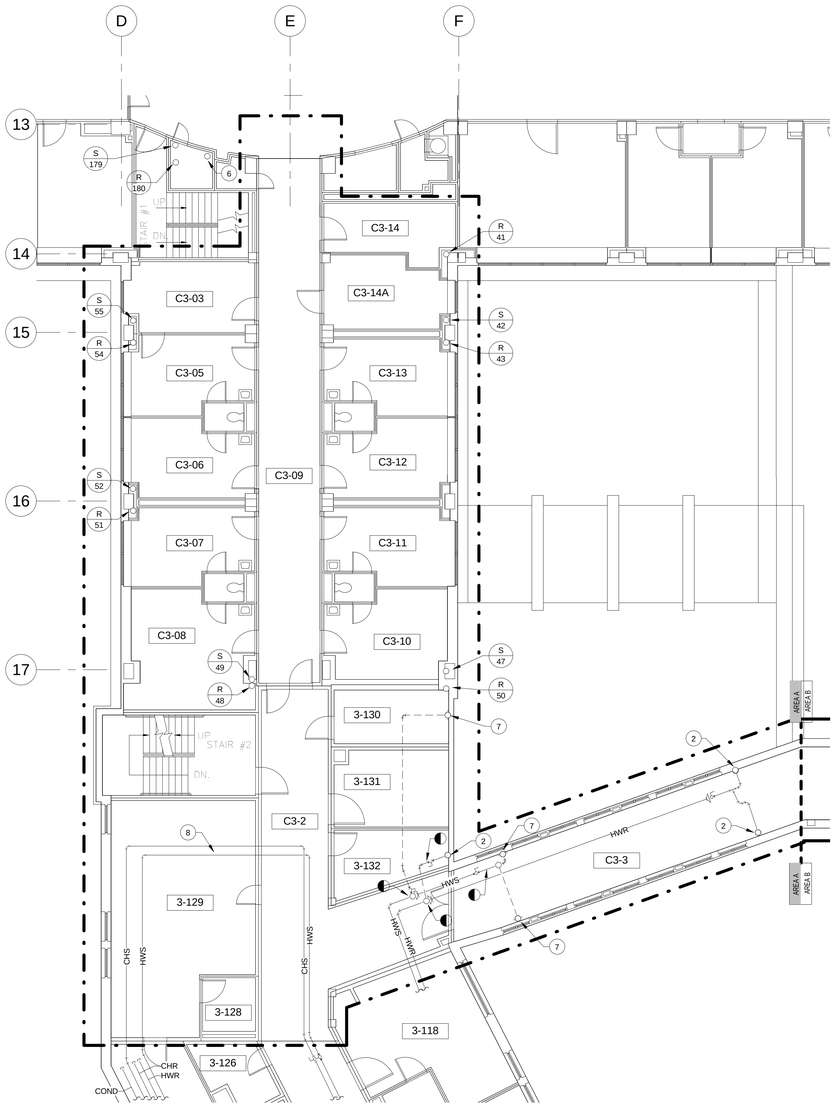
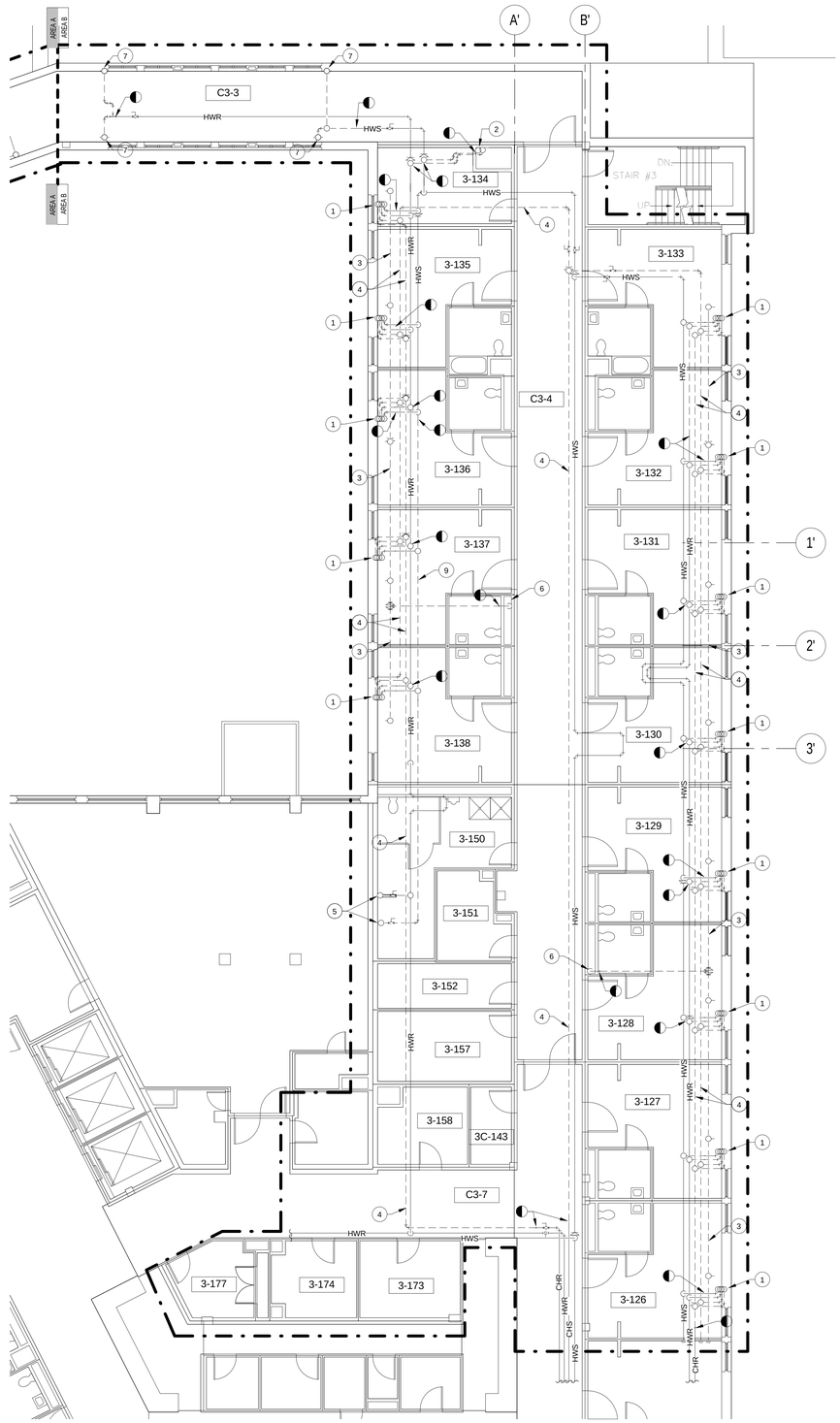
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 3RD FLOOR ABOVE CEILING HYDRONIC DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 3RD FLOOR ABOVE CEILING HYDRONIC DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DEMOLITION WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

C. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY EXISTING PIPING OR EQUIPMENT THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

D. CAP EXISTING PIPING AT THE LIMITS OF DEMOLITION.

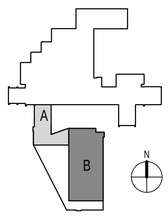
E. ALL STEAM AND CONDENSATE RISERS (LABELED "S" & "R") ARE TO REMAIN UNDISTURBED.

F. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	EXISTING PIPING UP TO 4TH FLOOR FAN COILS TO BE DEMOLISHED.
2	EXISTING HEATING HOT WATER PIPING UP TO 4TH FLOOR TO REMAIN.
3	DEMOLISH EXISTING CONDENSATE PIPING, INSULATION, AND HANGERS TO THE LIMIT OF DEMOLITION.
4	DEMOLISH EXISTING CHILLED WATER PIPING, INSULATION, AND HANGERS TO THE LIMIT OF DEMOLITION.
5	EXISTING HEATING HOT WATER PIPING UP TO 4TH FLOOR TO BE DEMOLISHED.
6	EXISTING CONDENSATE RISER TO REMAIN.
7	EXISTING PIPING UP TO 4TH FLOOR FIN TUBE HEATERS TO BE DEMOLISHED. PATCH EXISTING FLOOR PENETRATIONS.
8	EXISTING CHILLED AND HEATING HOT WATER PIPING LOOP TO REMAIN.
9	DEMOLISH EXISTING HEATING HOT WATER PIPING, INSULATION, AND HANGERS TO THE LIMIT OF DEMOLITION.

KEY PLAN



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Revisions	Date

CONSULTANTS:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 78243

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Project Number	Scale
3541	As indicated

Drawing Title: 3RD FLOOR ABOVE CEILING HYDRONIC DEMOLITION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

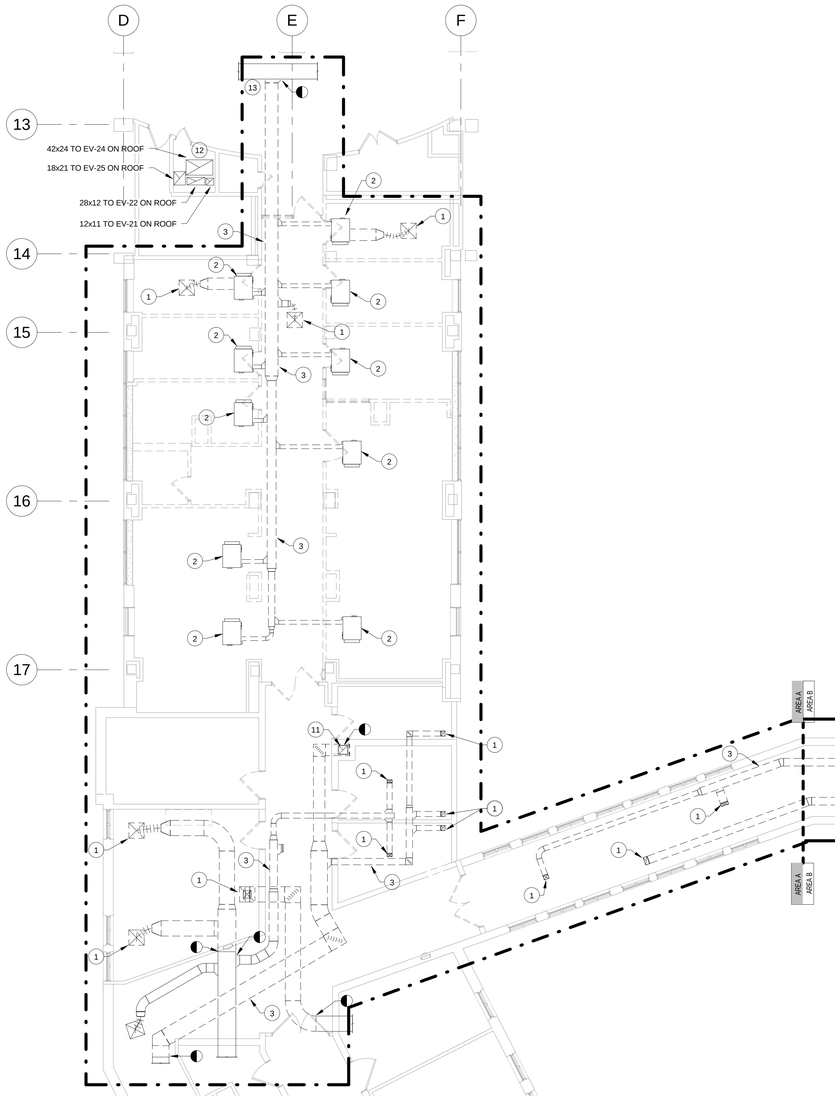
Drawing Number: MD131

Dwg. 31 of 79

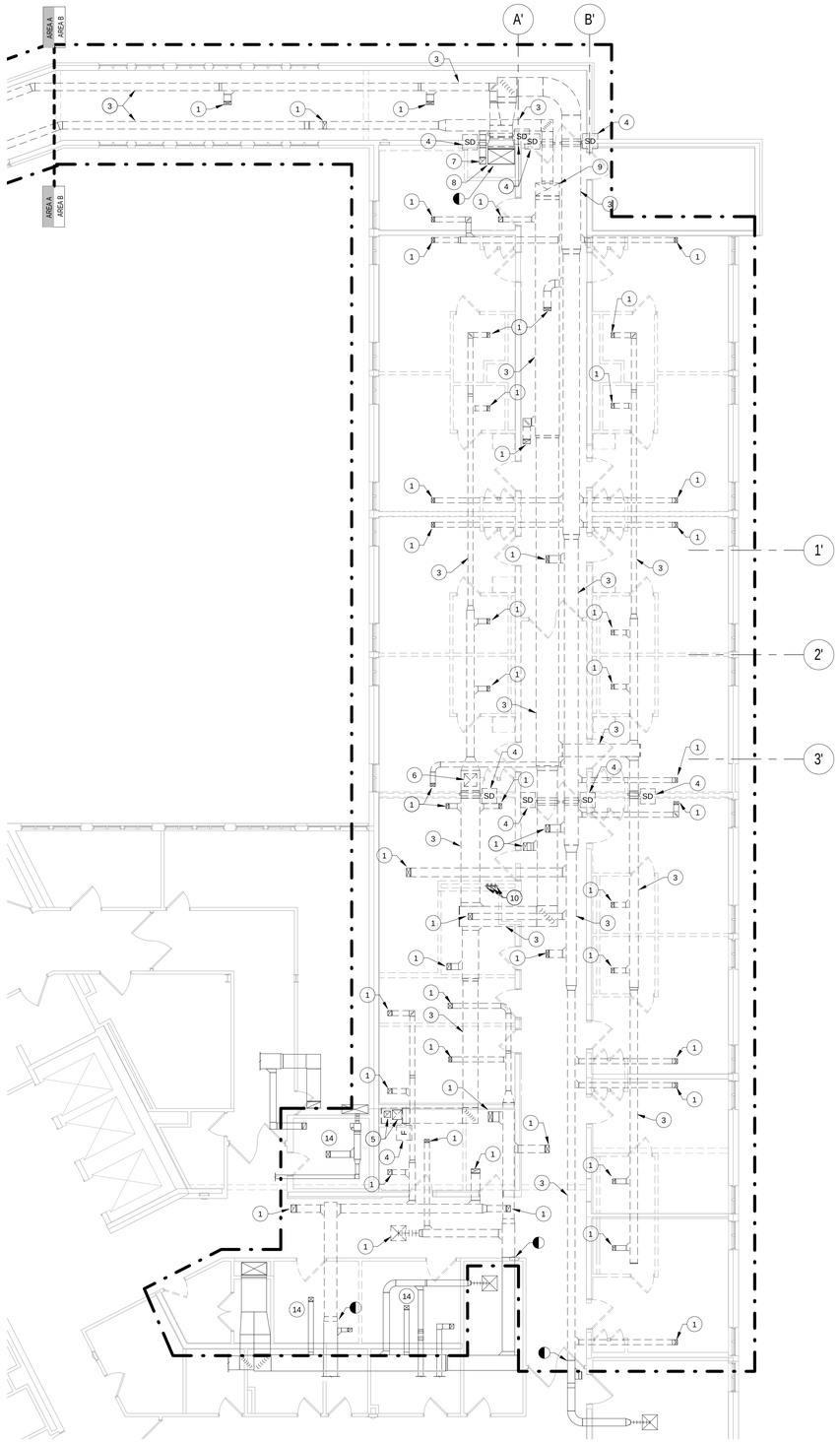
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR DUCTWORK DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR DUCTWORK DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DEMOLITION WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

C. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY EXISTING DUCTWORK OR EQUIPMENT THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

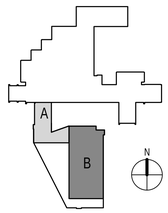
D. CAP EXISTING DUCTWORK AT THE LIMITS OF DEMOLITION.

E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	DEMOLISH EXISTING CEILING DIFFUSER, REGISTER OR GRILLE AND ALL ASSOCIATED DUCTWORK/ACCESSORIES.
2	DEMOLISH EXISTING FAN COIL UNIT DUCT CONNECTIONS.
3	DEMOLISH EXISTING DUCT MAINS TO THE LIMIT OF DEMOLITION.
4	DEMOLISH EXISTING SMOKE/FIRE DAMPER.
5	DEMOLISH EXISTING 15x15 AND 10x10 EXHAUST DUCTS DOWN TO 3RD FLOOR.
6	DEMOLISH EXISTING 20x20 EXHAUST DUCT DOWN TO 3RD FLOOR.
7	DEMOLISH EXISTING 10x10 EXHAUST DUCT DOWN TO 3RD FLOOR.
8	EXISTING 42x24 UP TO AC-1 AND 40x22 DOWN TO 3RD FLOOR TO REMAIN. DEMOLISH 4TH FLOOR SUPPLY DUCTWORK TO RISER AND CAP/SEAL OPENING.
9	DEMOLISH EXISTING 38x20 EXHAUST DUCT UP TO AC-1. SEE 1/M-401 FOR DEMOLITION CONTINUATION INTO PENTHOUSE.
10	DRYER VENT STACKS TO REMAIN
11	EXISTING 14x14 EXHAUST DUCT DOWN TO 3RD FLOOR TO REMAIN.
12	DUCT RISERS IN THIS SPACE TO REMAIN UNDISTURBED.
13	EXISTING 24x10 OUTDOOR AIR DUCT IN CORRIDOR. PATCH EXISTING OPENING WHEN TAKEOFF IS DEMOLISHED.
14	EXISTING DUCTWORK SERVING THIS SPACE TO REMAIN.

KEY PLAN



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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR DUCTWORK DEMOLITION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

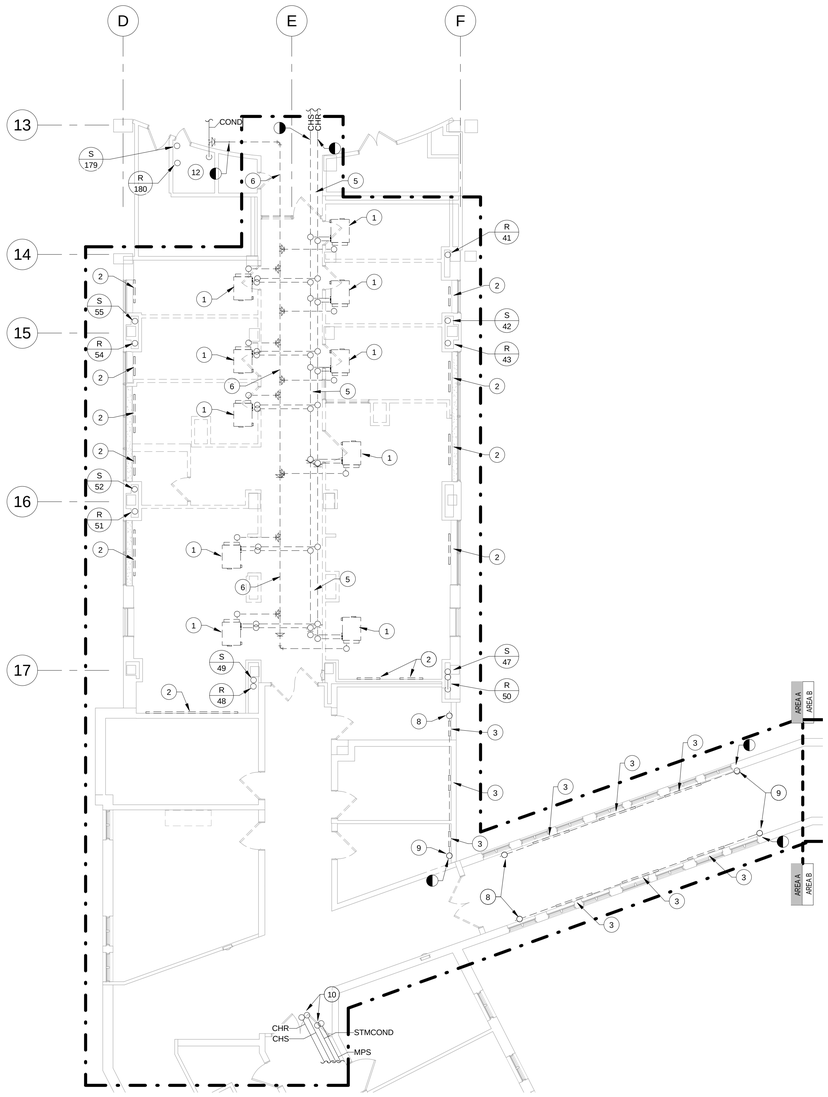
Drawing Number: MD141

Dwg. 32 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



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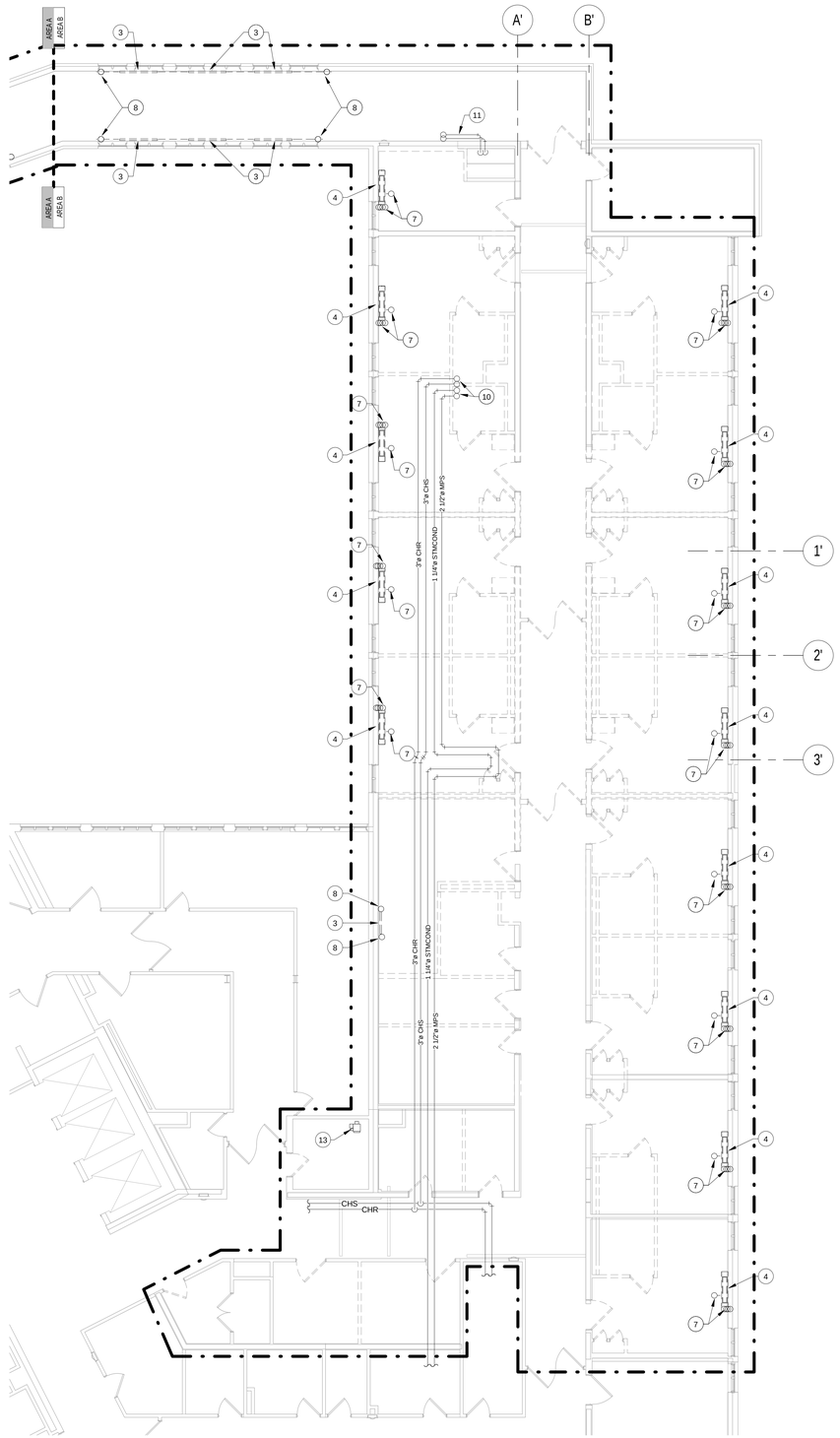
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR HYDRONIC DEMOLITION PLAN AREA B
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D. CAP EXISTING PIPING AT THE LIMITS OF DEMOLITION.

E. ALL STEAM AND CONDENSATE RISERS (LABELED "S" & "R") ARE TO REMAIN UNDISTURBED.

F. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1 DEMOLISH EXISTING SUSPENDED FAN COIL UNIT INCLUDING MOTORS, PIPING, HANGERS, SUPPORTS, ACCESSORIES, AND CONTROLS.

2 DEMOLISH EXISTING STEAM RADIATOR INCLUDING CONTROLS AND ITS ASSOCIATED STEAM/CONDENSATE PIPING BACK TO THE RISER.

3 DEMOLISH EXISTING FIN TUBE RADIATOR INCLUDING HEATING HOT WATER PIPING AND CONTROLS.

4 DEMOLISH EXISTING FLOOR MOUNTED FAN COIL UNIT INCLUDING MOTORS, PIPING, HANGERS, SUPPORTS, ACCESSORIES, AND CONTROLS.

5 DEMOLISH EXISTING CHILLED WATER PIPING, INSULATION, AND HANGERS TO THE LIMIT OF DEMOLITION.

6 DEMOLISH EXISTING CONDENSATE PIPING, INSULATION, AND HANGERS TO THE LIMIT OF DEMOLITION.

7 EXISTING PIPING DOWN TO 3RD FLOOR CEILING SPACE TO BE DEMOLISHED. SEE MD131 FOR THE LIMITS OF DEMOLITION.

8 EXISTING HEATING HOT WATER PIPING DOWN TO 3RD FLOOR CEILING SPACE TO BE DEMOLISHED. SEE MD131 FOR THE LIMITS OF DEMOLITION.

9 DEMOLISH EXISTING HEATING HOT WATER PIPING TO 2" AFF AND CAP FOR FUTURE CONNECTION.

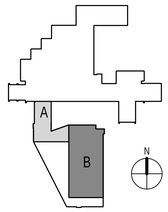
10 EXISTING MPS, STEAM CONDENSATE, CWS, & CWR UP TO PENTHOUSE TO REMAIN.

11 EXISTING HEATING HOT WATER PIPING UP TO PENTHOUSE TO REMAIN.

12 HYDRONIC PIPING IN THIS SPACE TO REMAIN UNDISTURBED.

13 EXISTING VAV BOX AND ASSOCIATED PIPING TO REMAIN.

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA
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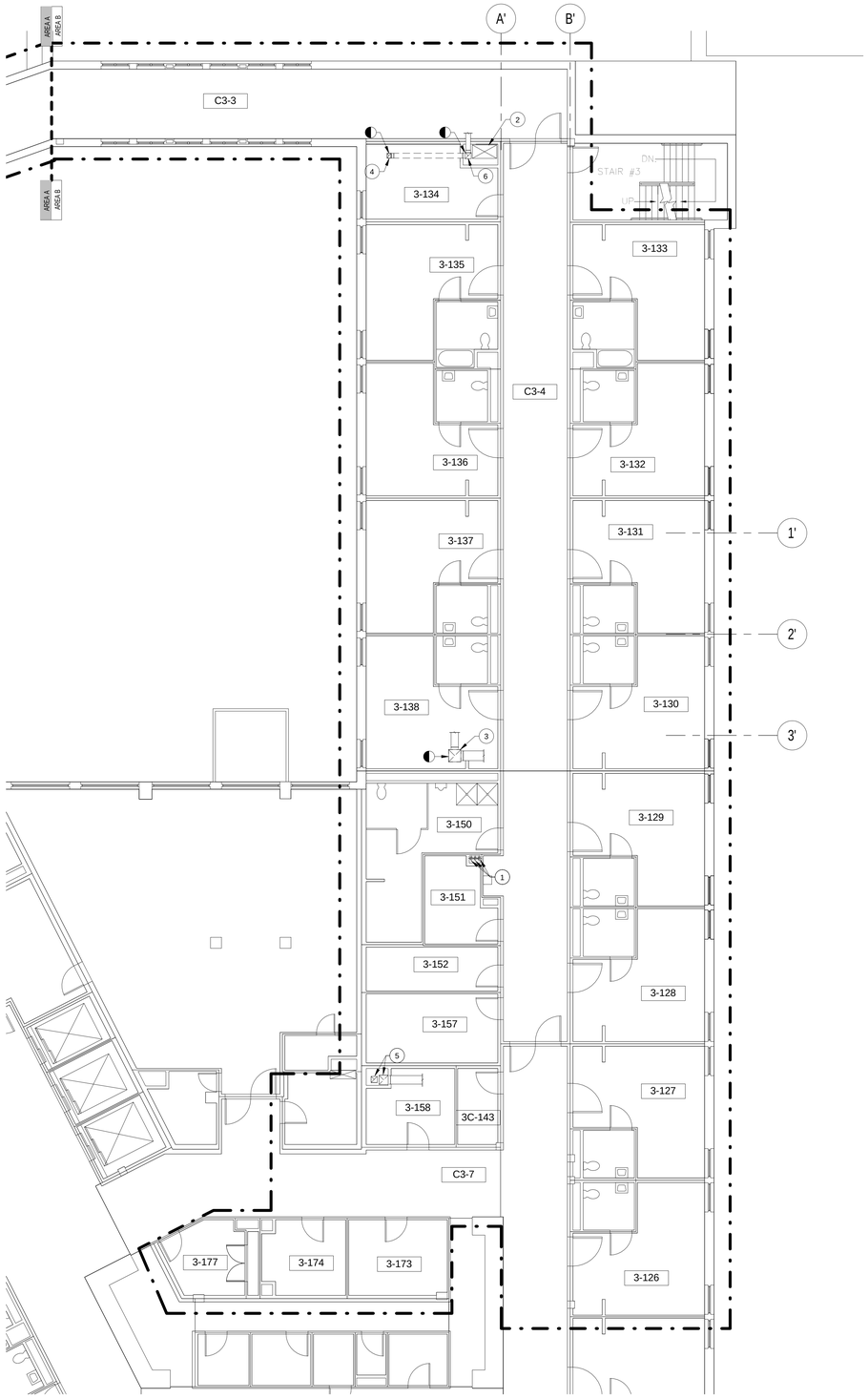
Project Number	Scale
3541	As indicated

Approved: Project Director

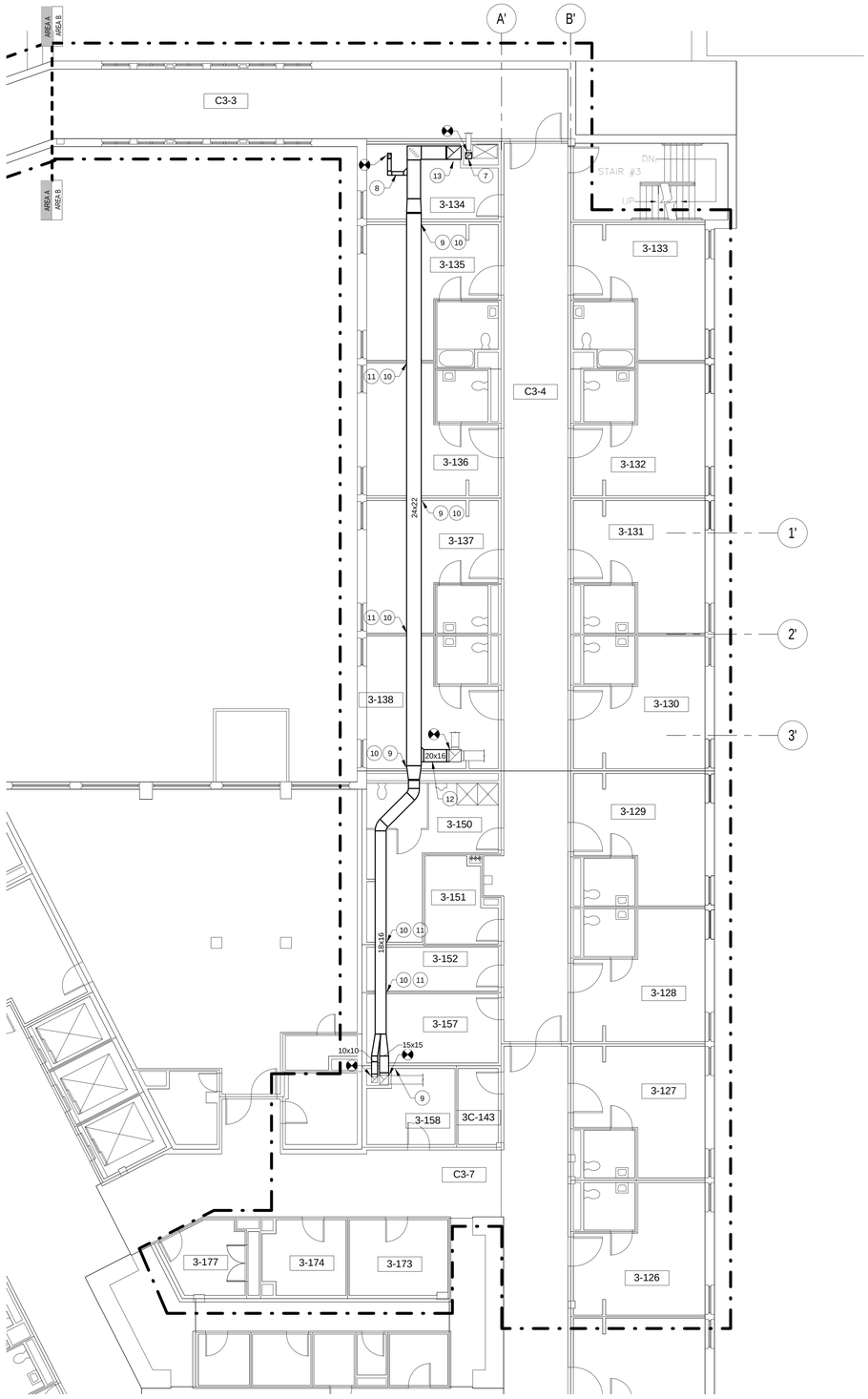
Drawing Title	Project Title	VA Project Number
4TH FLOOR HYDRONIC DEMOLITION PLANS	EXPAND EXISTING ONCOLOGY	693-11-122
		Building Number: 1 & 27
	Location: 1111 East End Blvd. Wilkes Barre, PA 18711	Drawing Number: MD142
	Date: 04/17/13 · Checked: JWM · Drawn: JMB2	Dwg. 33 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



2 PARTIAL 3RD FLOOR ABOVE CEILING DUCTWORK DEMOLITION PLAN AREA B
1/8" = 1'-0"



1 PARTIAL 3RD FLOOR ABOVE CEILING DUCTWORK PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY EXISTING DUCTWORK OR EQUIPMENT THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

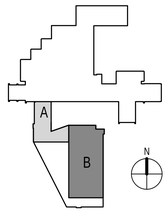
C. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

D. CONTRACTOR SHALL COORDINATE NEW HANGING LOCATIONS AS NECESSARY FOR THE EXISTING CEILING AND LIGHTS TO ACCOMMODATE THE NEW EXHAUST DUCT ROUTING.

KEYED NOTES (#)

1. DRYER VENT STACKS TO REMAIN
2. EXISTING 40x22 UP TO AC-1 TO REMAIN.
3. DEMOLISH EXISTING 20x20 EXHAUST DUCT UP TO 4TH FLOOR. CONNECTING DUCTWORK ON 3RD FLOOR TO REMAIN.
4. EXISTING CEILING DIFFUSER, REGISTER OR GRILLE TO REMAIN.
5. DEMOLISH EXISTING 15x15 AND 10x10 EXHAUST DUCTS UP TO 4TH FLOOR. DUCTWORK CONTINUING DOWN AND CONNECTIONS ON 3RD FLOOR TO REMAIN.
6. DEMOLISH EXISTING 10x10 EXHAUST DUCT UP TO 4TH FLOOR. DUCTWORK CONTINUING DOWN AND CONNECTIONS ON 3RD FLOOR TO REMAIN.
7. CONNECT 10x10 DUCT TO 22x24 ON VERTICAL RUN TO AC-1
8. MATCH EXISTING RUNOUT SIZE.
9. COORDINATE NEW BLOCK WALL PENETRATIONS WITH THE GENERAL CONTRACTOR.
10. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR'S CONDUIT ROUTING TO ACCOMMODATE THE DUCT.
11. COORDINATE ADJUSTMENTS TO THE WALL FRAMING AS NECESSARY WITH THE GENERAL CONTRACTOR TO ALLOW THE DUCT TO PASS THROUGH.
12. RELOCATE EXISTING PATIENT LIFT SUPPORT TO ACCOMMODATE DUCT ROUTING.
13. 22x24 EXHAUST DUCT UP IN CHASE.

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 78243

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Project Number	Scale
3541	As indicated

Drawing Title: 3RD FLOOR ABOVE CEILING DUCTWORK PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

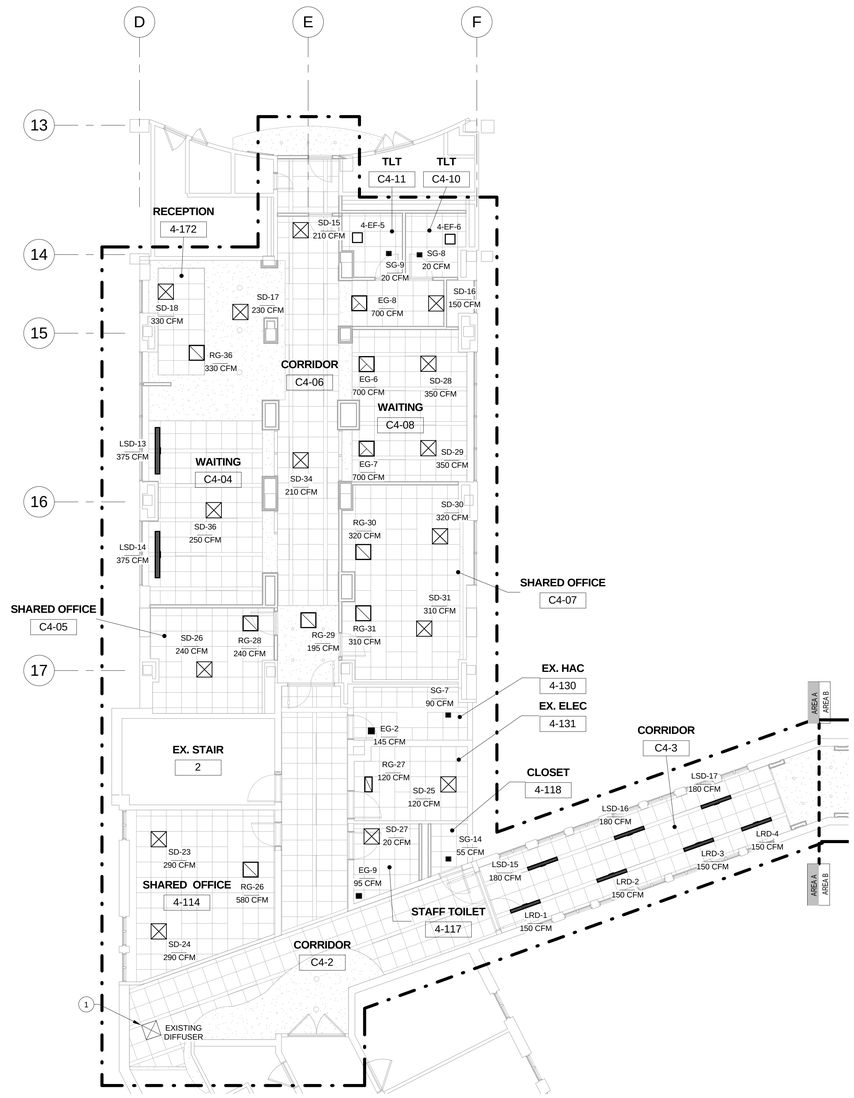
Drawing Number: MH131

Dwg. 34 of 79

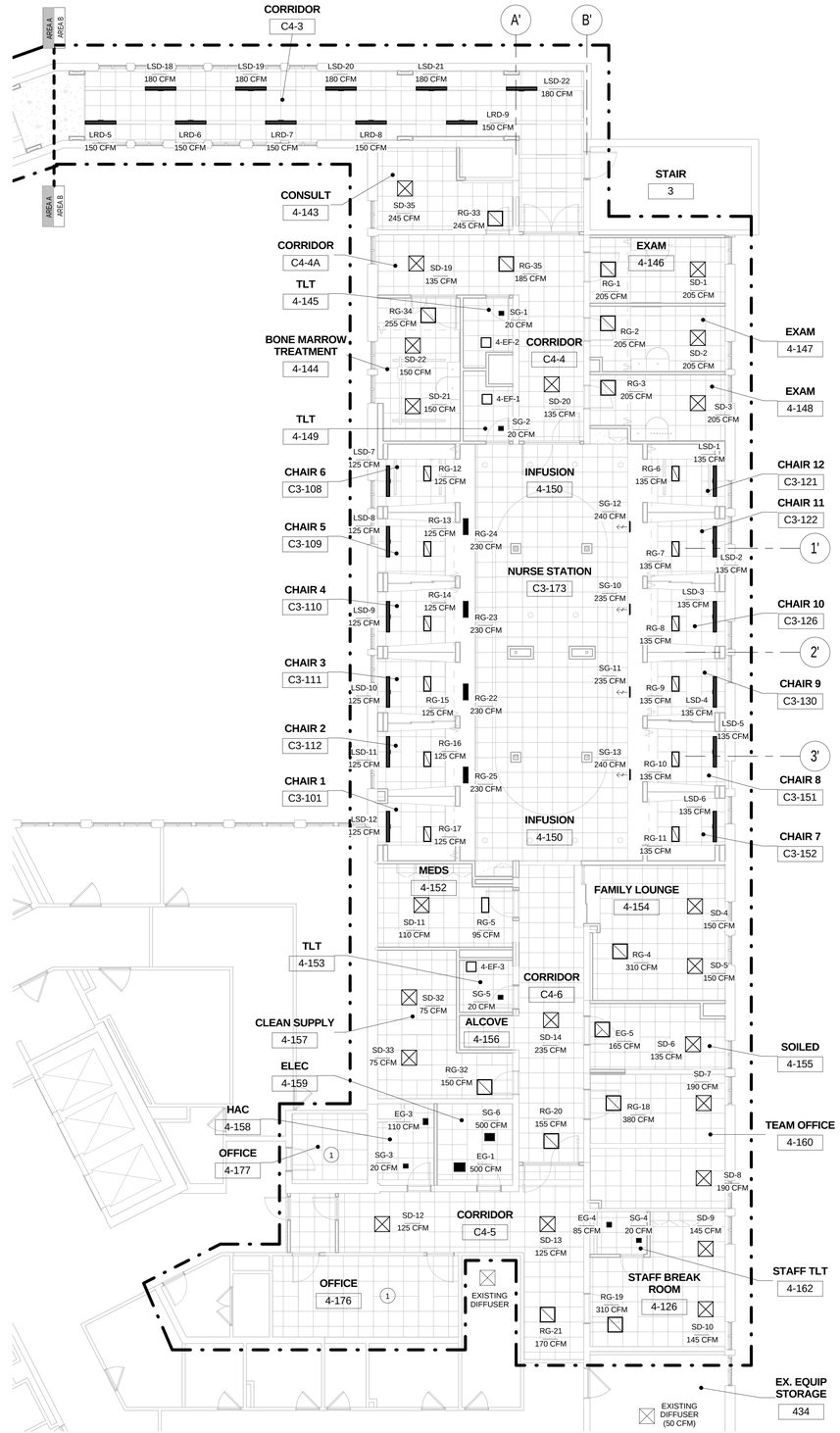
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR REFLECTED CEILING PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR REFLECTED CEILING PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE FINAL CEILING DIFFUSER LOCATIONS WITH ALL OTHER CEILING MOUNTED EQUIPMENT AND/OR DEVICES.

B. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

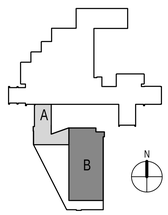
C. SEE MH142 FOR DUCT ROUTING.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1 RELOCATE EXISTING CEILING DIFFUSERS IN THIS SPACE TO MATCH NEW REFLECTED CEILING PLAN.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOHN W. MATHEWS No. PE 78243

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR REFLECTED CEILING PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

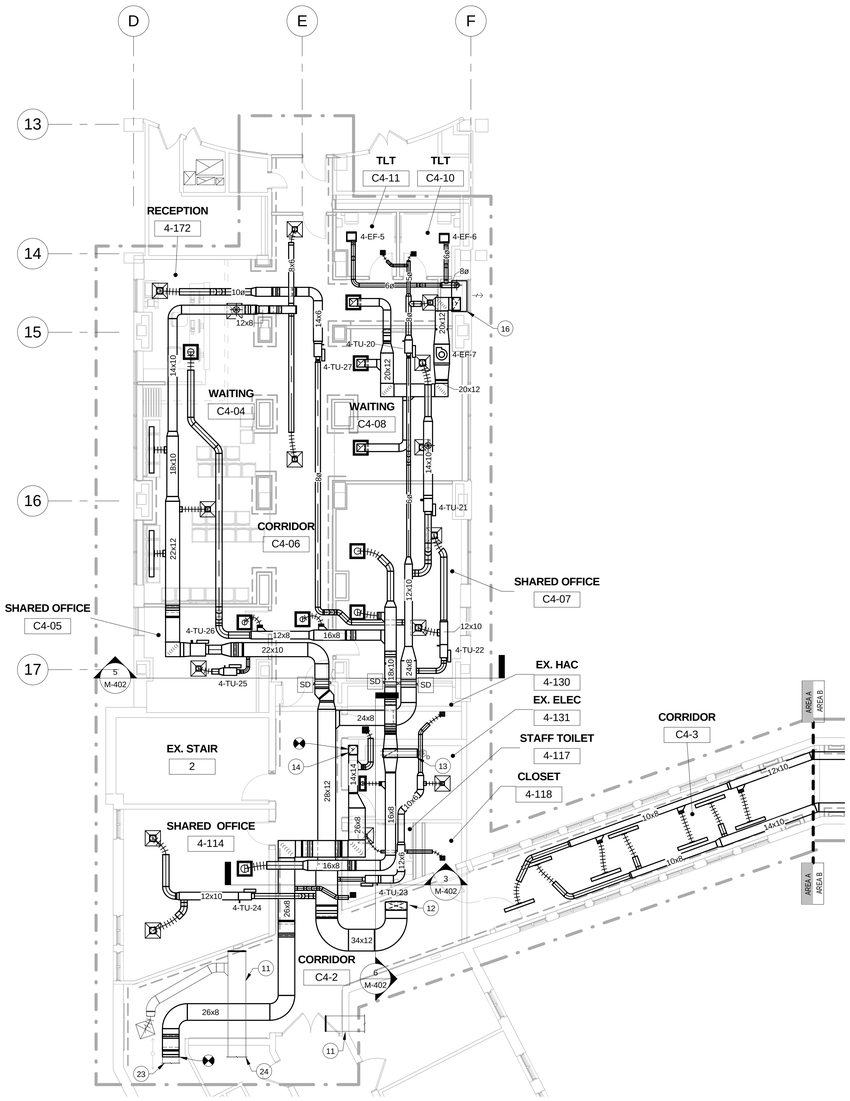
Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

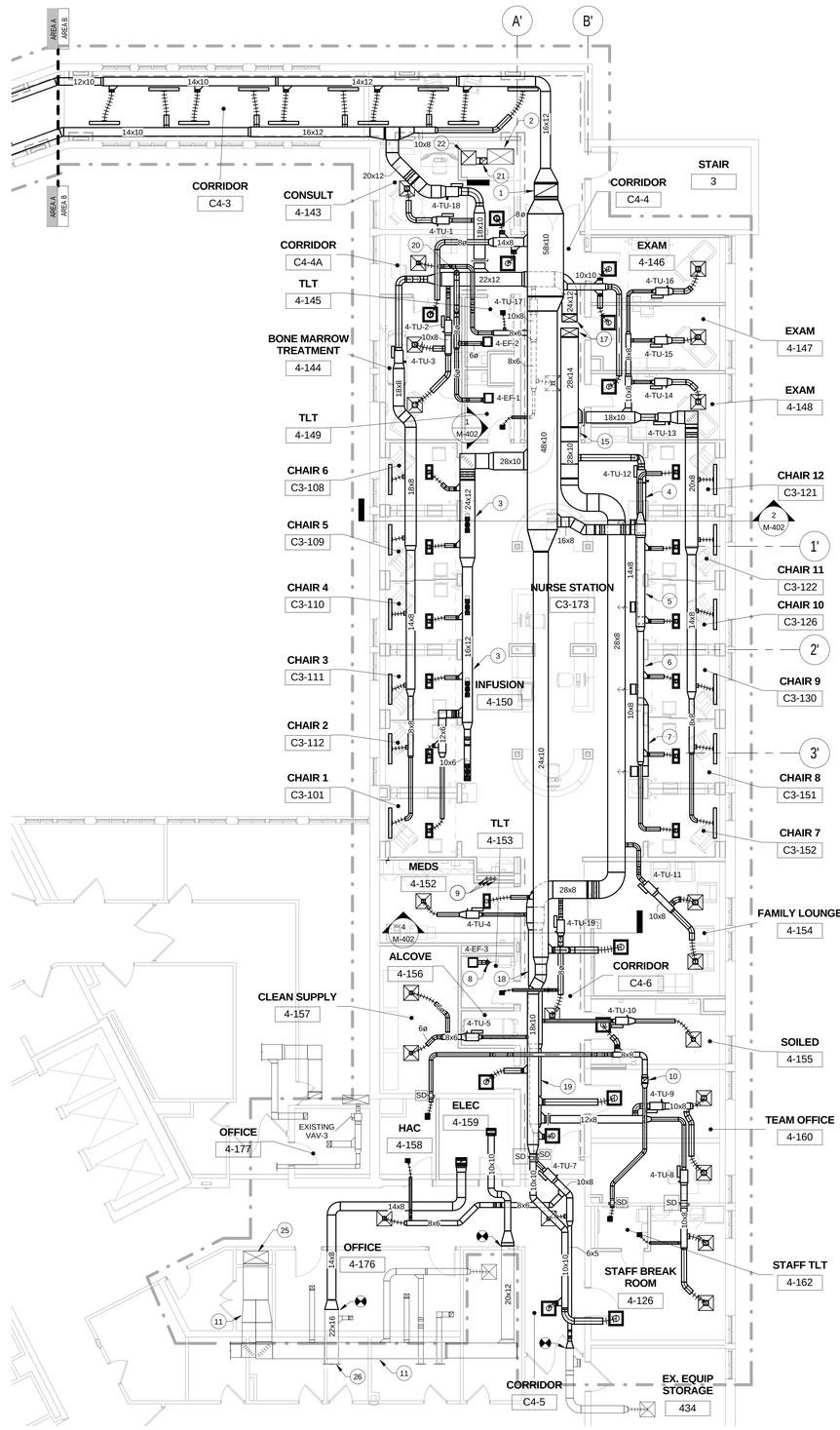
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: MH141
Dwg. 35 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR DUCTWORK PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR DUCTWORK PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. SEE AIR TERMINAL UNIT SIZING SCHEDULE FOR DUCT RUNOUT SIZE TO TERMINAL UNIT.

B. ALL DUCTWORK DOWNSTREAM OF THE VAV BOXES SHALL BE CONSTRUCTED TO 1" W.C. PRESSURE CLASS PER SMACNA DUCT CONSTRUCTION STANDARDS.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. UNLESS NOTED OTHERWISE, ALL DIFFUSER AND GRILLE RUN-OUTS ARE THE SAME SIZE AS ITS NECK/DUCT CONNECTION SPECIFIED IN THE AIR DEVICE SCHEDULE.

E. SEE SHEET MP141 FOR THERMOSTAT LOCATIONS FOR EACH TERMINAL UNIT.

F. SEE SHEET MH141 FOR ALL AIR DISTRIBUTION TAGGING.

G. SEE S/M-501 FOR TERMINAL UNIT DUCT CONNECTION DETAIL.

H. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

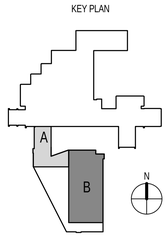
I. 4-TU-6 IS NOT USED.

J. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. 38x20 RETURN DUCT UP TO 4-AHU-1 UTILIZING EXISTING FLOOR PENETRATION. SEE 3/M-401 FOR CONTINUATION INTO PENTHOUSE.
2. EXISTING 42x24 UP TO AC-1.
3. RETURN DUCTWORK ROUTED IN SOFFIT. GRILLES TO BE OFF BOTTOM OF DUCTWORK.
4. 14x12 SUPPLY DUCT ROUTED IN SOFFIT UNDER RETURN. SEE 2/M-402 FOR REFERENCE.
5. 12x12 SUPPLY DUCT ROUTED IN SOFFIT UNDER RETURN. SEE 2/M-402 FOR REFERENCE.
6. 10x10 SUPPLY DUCT ROUTED IN SOFFIT UNDER RETURN. SEE 2/M-402 FOR REFERENCE.
7. 16x4 SUPPLY DUCT ROUTED IN SOFFIT UNDER RETURN. SEE 2/M-402 FOR REFERENCE.
8. 6Ø EXHAUST DUCT UP TO ROOF.
9. EXISTING DRYER VENT STACKS.
10. 10x8 EXHAUST DUCT UP TO 4-EF-4 ON ROOF.
11. EXISTING DUCT TO SPACES OUTSIDE AREA OF WORK. NO CONNECTIONS SHALL BE MADE INTO IT.
12. 34x12 SUPPLY DUCT UP TO 4-AHU-2 ON ROOF.
13. 22x12 RETURN DUCT UP TO 4-AHU-2 ON ROOF.
14. CONNECT TO EXISTING EXHAUST DUCTS FROM 3RD FLOOR
15. ROUTE DUCTWORK UP IN TRANSITION TO AVOID HIGHER CEILING.
16. PROVIDE A 2'-0" DEEP PLENUM ON THE BACKSIDE OF THE EXHAUST LOUVER THAT IS THE SAME SIZE AS THE LOUVER. CONNECT DUCTS TO TOP OF PLENUM. LOUVER BY THE GENERAL CONTRACTOR.
17. 28x14 & 24X12 SUPPLY DUCTS UP TO 4-AHU-1. SEE 3/M-401 FOR CONTINUATION INTO PENTHOUSE.
18. 22x8 SUPPLY DUCT ROUTED UNDER RETURN.
19. 18x8 SUPPLY DUCT ROUTED UNDER RETURN.
20. 9Ø EXHAUST DUCT UP TO. SEE 3/M-401 FOR CONTINUATION INTO PENTHOUSE.
21. CONNECT 10x10 DUCT TO 22x24 ON VERTICAL RUN TO AC-1
22. 22x24 EXHAUST DUCT UP TO AC-1. SEE 3/M-401 FOR CONTINUATION INTO PENTHOUSE.
23. DUCTWORK CONTINUES TO EF-3 IN PENTHOUSE #3. REBALANCE EXISTING FAN TO 7000 CFM.
24. DUCTWORK CONTINUES TO AHU-2 IN PENTHOUSE #3. REBALANCE EXISTING SUPPLY FAN TO 10450 CFM AND THE RETURN FAN TO 10650 CFM.
25. DUCTWORK CONTINUES TO AC-2 IN PENTHOUSE #2. REBALANCE EXISTING UNIT TO 6160 CFM.
26. DUCTWORK CONTINUES TO EF-2 IN PENTHOUSE #2. REBALANCE EXISTING FAN TO 3500 CFM.

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 76243

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Fax (484) 429-1547

Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR DUCTWORK PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

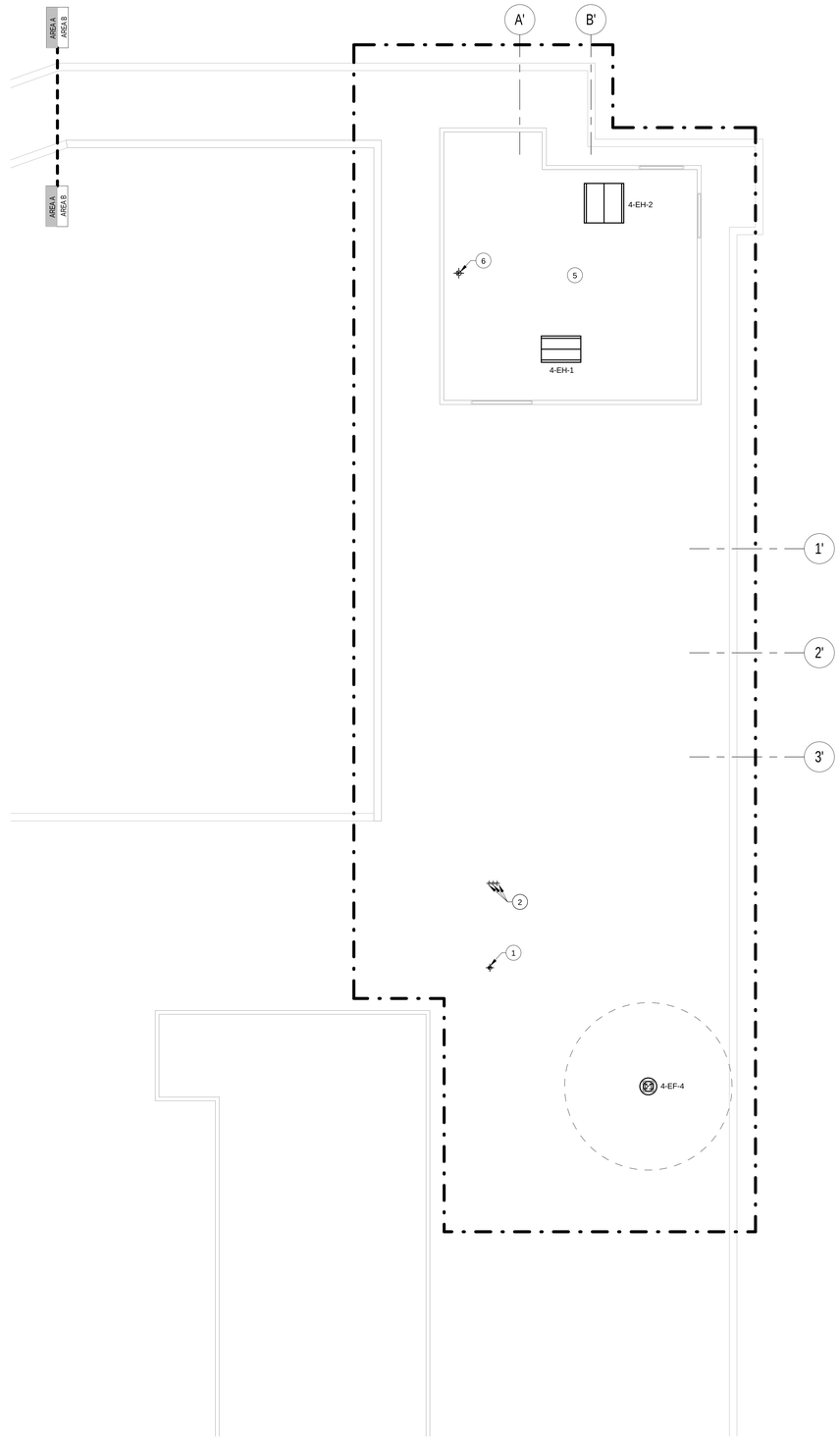
Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: MH142
Dwg. 36 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

1 PARTIAL ROOFTOP MECHANICAL PLAN AREA A
1/8" = 1'-0"



2 PARTIAL ROOFTOP MECHANICAL PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. MAINTAIN 10' BETWEEN ALL BUILDING INTAKES AND EXHAUSTS.

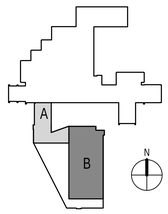
C. MOUNT ALL EXHAUST FANS AND EXHAUST HOODS ON 14" HIGH ROOF CURB.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. 6Ø EXHAUST DUCT ROOF PENETRATION FROM 4-EF-3. CAP AND SEAL WEATHER TIGHT.
2. EXISTING DRYER VENT STACKS.
3. RETURN INLET ON BOTTOM OF UNIT. TRANSITION TO 22x12 AT ROOF PENETRATION.
4. SUPPLY OUTLET ON BOTTOM OF UNIT. TRANSITION TO 34x12 AT ROOF PENETRATION.
5. EQUIPMENT AND DUCT SHOWN IN THIS AREA IS ON THE PENTHOUSE ROOF. SEE 3&4/M-401 FOR INTERIOR PENTHOUSE MECHANICAL PLANS.
6. 8Ø EXHAUST DUCT ROOF PENETRATION FROM 4TH FLOOR BATHROOMS. CAP AND SEAL WEATHER TIGHT.
7. 1-1/2" MPS, 1-1/4" STEAM CONDENSATE, & 1-1/2" CWS/R DOWN TO THE 4TH FLOOR CEILING SPACE. SEE 1/MP141 FOR CONTINUATION.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOHN W. MATHEWS No. PE 78243

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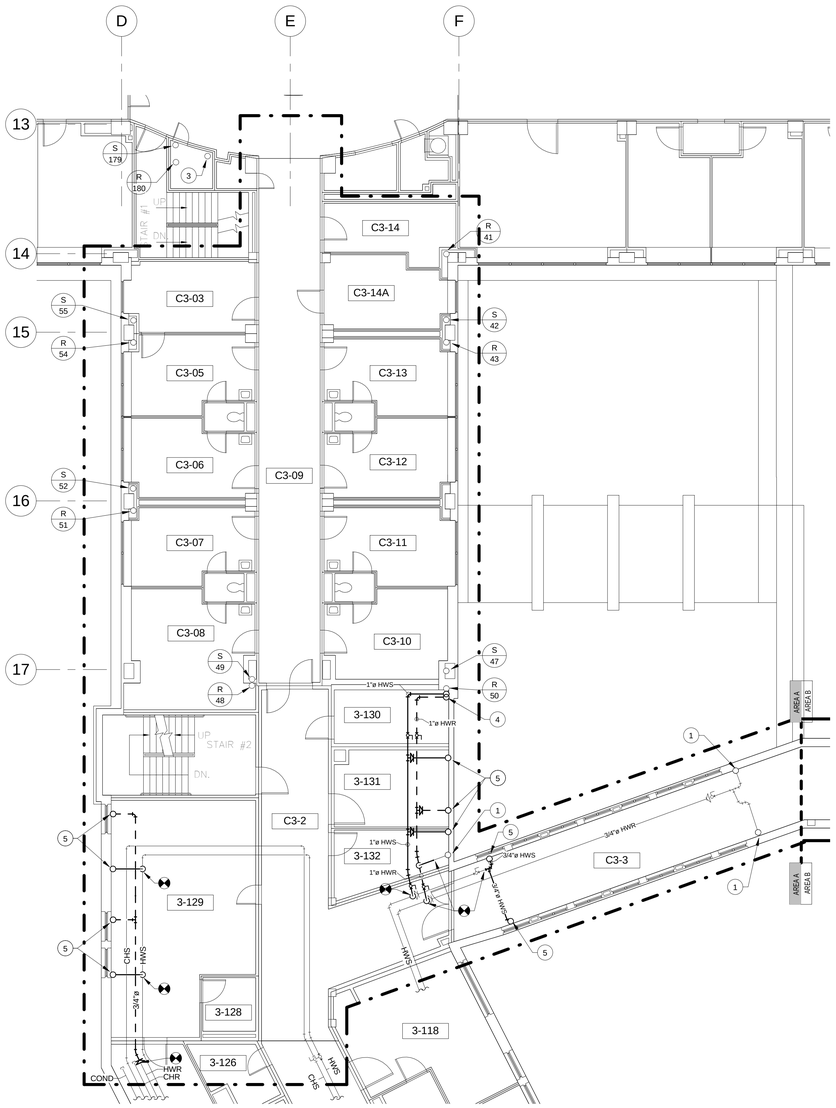
Project Number	Scale
3541	As indicated

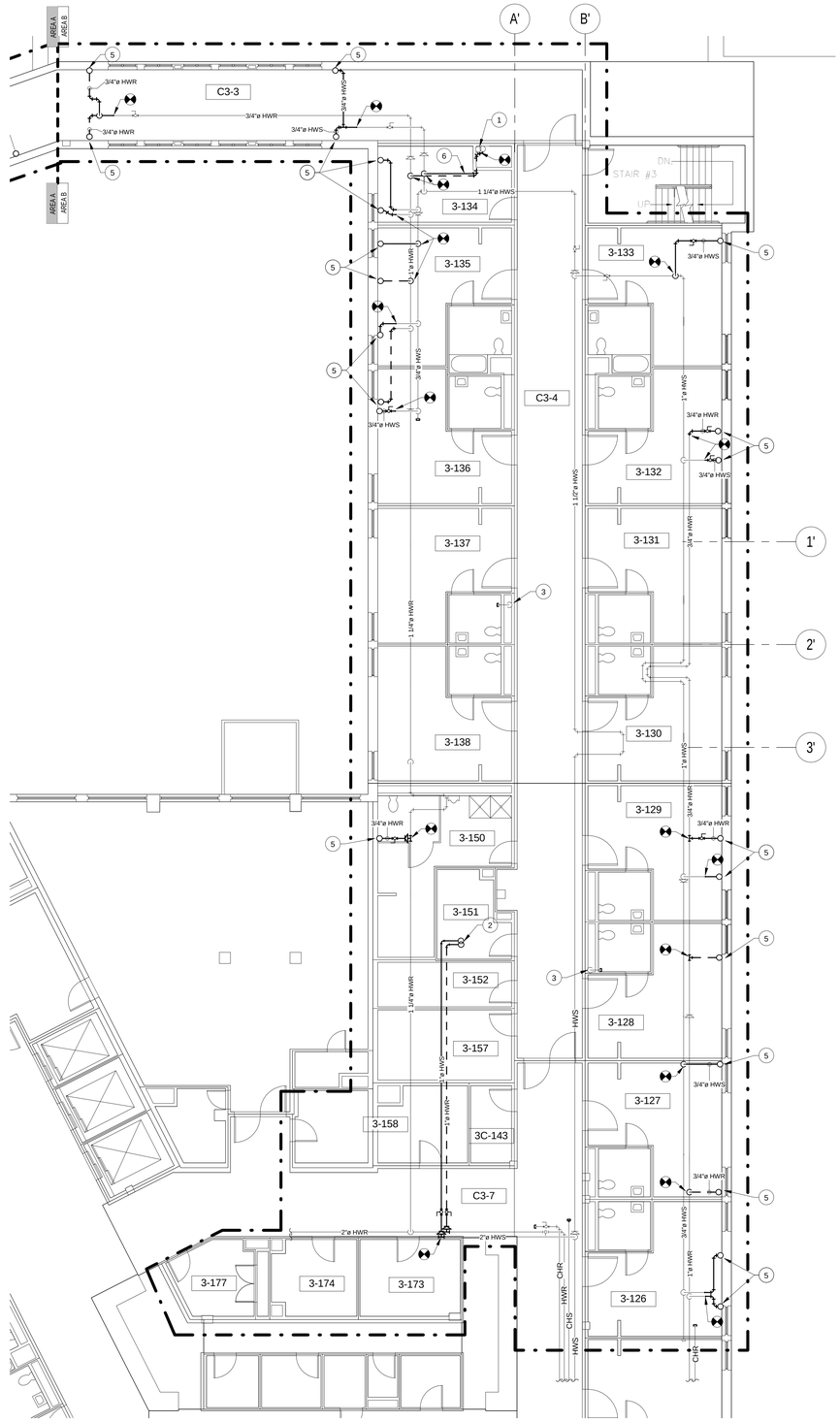
Drawing Title	ROOFTOP MECHANICAL PLANS
Approved: Project Director	
Project Title	EXPAND EXISTING ONCOLOGY
Location	1111 East End Blvd. Wilkes Barre, PA 18711
Date	04/17/13
Checked	JWM
Drawn	JMB2
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	MH151
Dwg. 37 of 79	

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 3RD FLOOR ABOVE CEILING HYDRONIC PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 3RD FLOOR ABOVE CEILING HYDRONIC PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

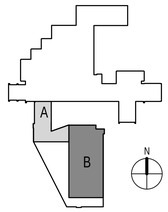
B. ALL PIPE RUNOUTS TO HYDRONIC FIN TUBES SHALL BE 3/4".

C. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. EXISTING HEATING HOT WATER PIPING UP TO 4TH FLOOR.
2. HEATING HOT WATER PIPING UP TO 4TH FLOOR IN BATHROOM WET WALL. SEE 2/MP141 FOR CONTINUATION.
3. EXISTING CONDENSATE RISER LOCATED ON 3RD FLOOR.
4. HEATING HOT WATER PIPING UP IN CHASE TO 4TH FLOOR. SEE 1/MP141 FOR CONTINUATION.
5. HEATING HOT WATER PIPING SERVING FIN TUBES UP TO 4TH FLOOR. PENETRATION VIA NEW CORE DRILL. SEE MP141 FOR CONTINUATION.
6. ROUTE HEATING HOT WATER PIPING BETWEEN NEW EXHAUST DUCTS, MATCH EXISTING SIZE.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: 3RD FLOOR ABOVE CEILING HYDRONIC PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

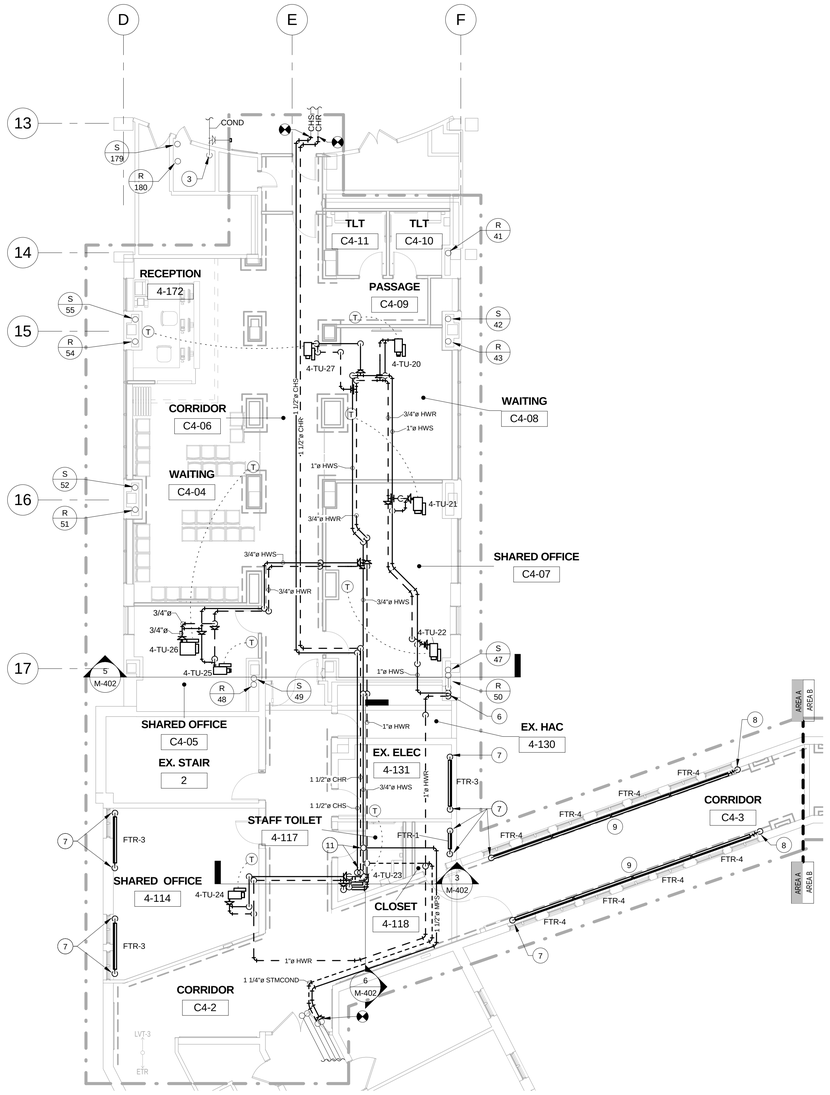
Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

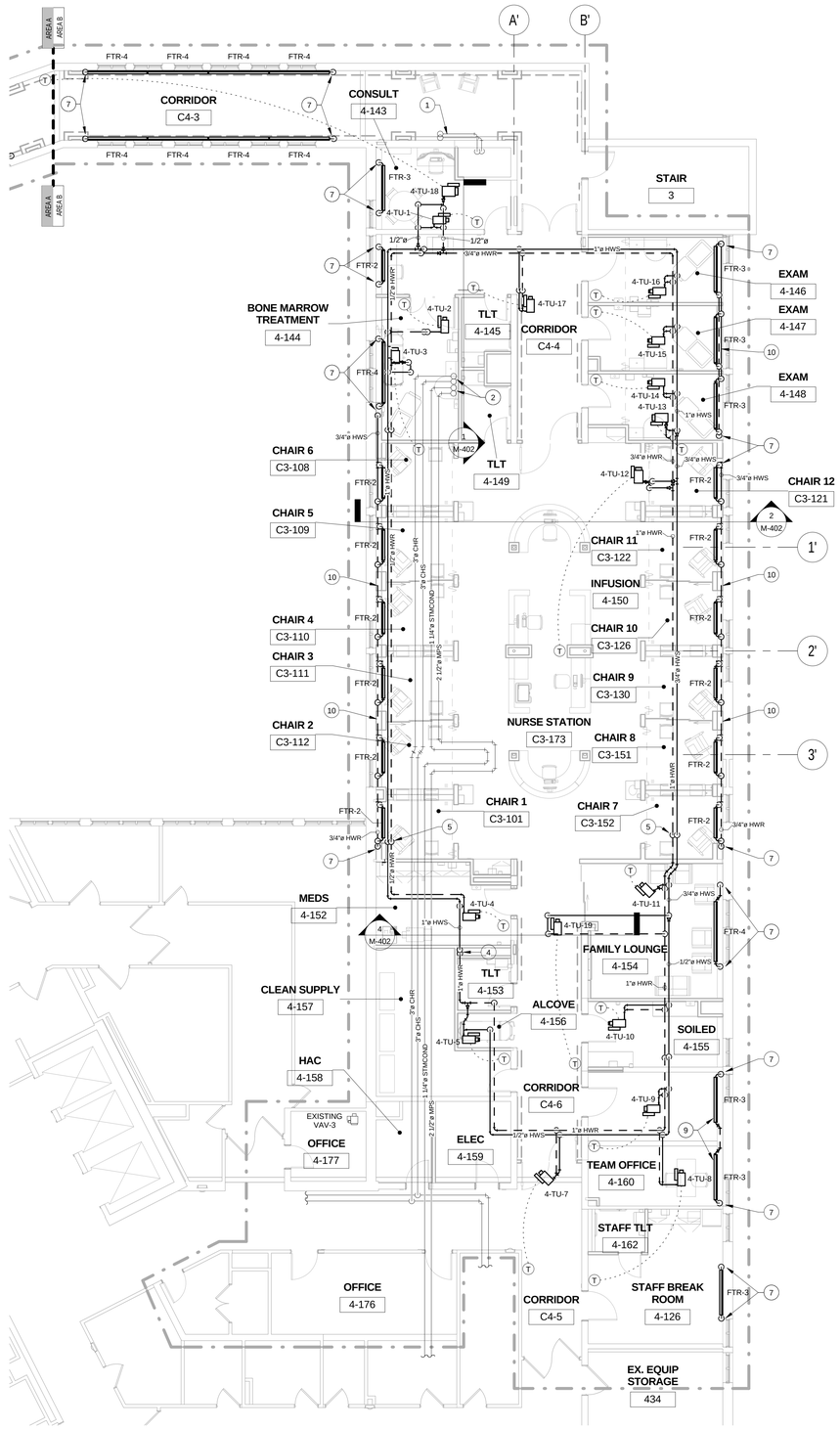
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: MP131
Dwg. 38 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR HYDRONIC PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR HYDRONIC PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. ALL HWS/R RUNOUTS TO TERMINA UNITS SHALL BE 1/2" UNLESS NOTED OTHERWISE. ALL RUNOUTS TO HYDRONIC FIN TUBES SHALL BE 3/4".

B. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

C. SEE 7/M-501 FOR TERMINAL UNIT COIL CONNECTION DETAIL.

D. 4-TU-6 IS NOT USED.

E. SEE 5/M-503 FOR FINNED TUBE PIPING CONNECTION DETAIL.

F. MEDS REGRIGERATOR SHALL BE MONITORED BY THE BUILDING AUTOMATION SYSTEM.

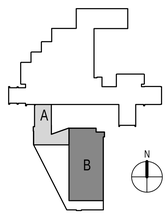
G. MEDICAL GAS ALARMS SHALL BE MONITORED BY THE BUILDING AUTOMATION SYSTEM.

H. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	EXISTING HEATING HOT WATER PIPING UP TO PENTHOUSE.
2	EXISTING MPS, STEAM CONDENSATE, CWS, & CWR UP TO PENTHOUSE.
3	EXISTING CONDENSATE RISER LOCATED ON 3RD FLOOR.
4	HEATING HOT WATER PIPING DOWN TO 3RD FLOOR IN BATHROOM WET WALL. SEE 2/MP131 FOR CONTINUATION.
5	OFFSET HEATING HOT WATER PIPING TO AVOID MEDICAL GAS PIPING.
6	HEATING HOT WATER PIPING DOWN IN CHASE TO 3RD FLOOR. SEE 1/MP131 FOR CONTINUATION.
7	HEATING HOT WATER PIPING DOWN TO 3RD FLOOR VIA CORE DRILL. SEE MP131 FOR CONTINUATION.
8	CONNECT TO EXISTING PIPE UP FROM 3RD FLOOR.
9	UNITS TO BE PIPED AS SINGLE LINE, NO INDIVIDUAL RUNOUTS.
10	STACK HEATING HOT WATER LINES IN CASEWORK.
11	MPS, STEAM CONDENSATE, CWS, & CWR UP TO 4-AHU-2 DOGHOUSE. SEE 1/MH151 FOR CONTINUATION.

KEY PLAN



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Revisions	Date

CONSULTANTS:

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Fire Protection: harrington group — 7508 East Independence Blvd, Suite 116, Charlotte, NC 28227, Tel (704) 531-9007

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 78243

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR HYDRONIC PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

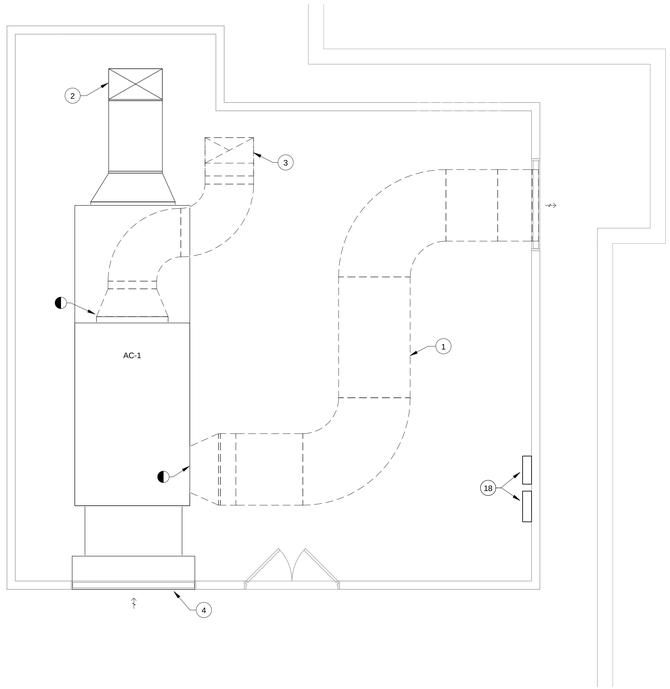
Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: JWM | Drawn: JMB2

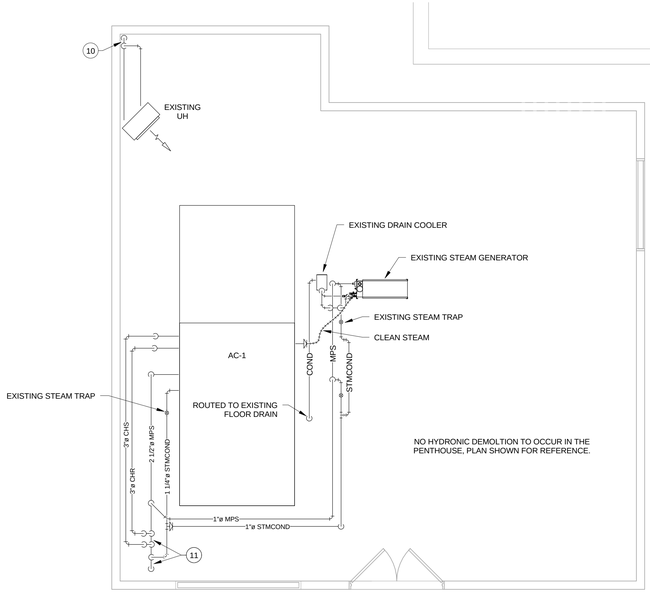
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: MP141
Dwg. 39 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

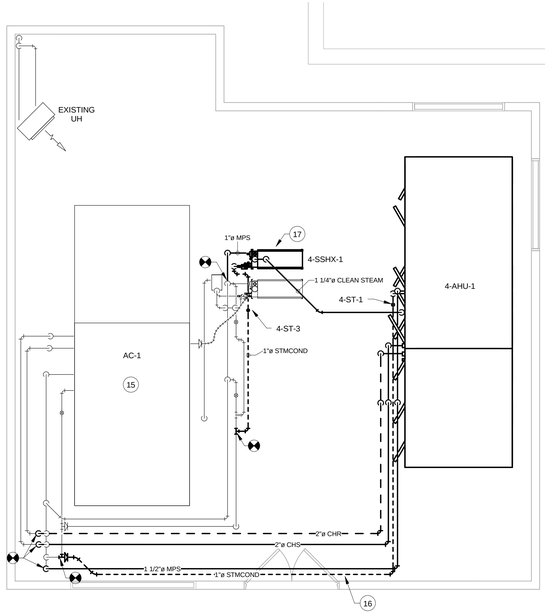


1 PENTHOUSE DUCTWORK DEMOLITION PLAN
1/4" = 1'-0"



2 PENTHOUSE EXISTING HYDRONIC PLAN
1/4" = 1'-0"

3 PENTHOUSE DUCTWORK PLAN
1/4" = 1'-0"



4 PENTHOUSE HYDRONIC PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. SEE 1/M-502, 3/M-502, & 9/M-502 FOR AIR HANDLING UNIT PIPING CONNECTION DETAILS.

B. PER AS BUILT DRAWINGS, PUMP P-14 LOCATED IN PENTHOUSE #2 SHAIBE INCREASED FROM 335 GPM TO 358.8 GPM. CONTRACTOR SHAIVERIFY EXISTING PERFORMANCE OF P-14 BY MEASURING AND RECORDING THE PERFORMANCE OF PUMP P-14 LOCATED IN PENTHOUSE #2 WITH ALL CONTROL VALVES OPEN PRIOR TO COMMENCING WORK. AT THE END OF THE PROJECT THE CONTRACTOR SHALL INCREASE THE MEASURED VALUE OF THIS PUMP BY 53.8 GPM.

C. DUCT SMOKE DETECTOR SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, TIED INTHE FIRE ALARM BY THE ELECTRICAL CONTRACTOR AND INTERLOCKED WITH THE BAS AND UNIT BY THE MECHANICAL CONTRACTOR.

KEYED NOTES (#)

1 DEMOLISH EXISTING AC-1 EXHAUST DUCT FROM UNIT TO THE LOUVER. EXISTING LOUVER OPENING TO BE PATCHED, SEE ARCHITECTURAL DRAWINGS.

2 EXISTING 42x24 SUPPLY DUCT DOWN TO 3RD FLOOR TO REMAIN UNDISTURBED.

3 DEMOLISH EXISTING 38x20 EXHAUST DUCT UP TO AC-1 CONNECTION. EXISTING FLOOR PENETRATION TO REMAIN FOR FUTURE USE.

4 EXISTING AC-1 OUTDOOR AIR INTAKE TO REMAIN UNDISTURBED.

5 EXHAUST DUCT UP TO HOOD ON ROOF OF PENTHOUSE. SEE 2/MH151 FOR CONTINUATION.

6 PROVIDE A 2'-0" DEEP PLENUM ON THE BACKSIDE OF THE OUTDOOR AIR INTAKE LOUVER THAT IS THE SAME IN SIZE. LOUVER BY THE GENERAL CONTRACTOR.

7 38x20 RETURN DUCT DOWN TO 4TH FLOOR UTILIZING EXISTING FLOOR PENETRATION.

8 24x12 SUPPLY DUCT DOWN TO 4TH FLOOR.

9 28x14 SUPPLY DUCT DOWN TO 4TH FLOOR.

10 EXISTING HEATING HOT WATER PIPING DOWN TO 4TH FLOOR.

11 EXISTING MPS, STEAM CONDENSATE, CWS, & CWR DOWN TO 4TH FLOOR.

12 8Ø EXHAUST DUCT UP TO ROOF OF PENTHOUSE.

13 22x24 EXHAUST DUCT DOWN TO 3RD FLOOR.

14 KEEP EXHAUST DUCT LOW TO AVOID UNIT HEATER.

15 REBALANCE AC-1 TO 6785 CFM SUPPLY, 5020 CFM EXHAUST, 75 GPM CHILLED WATER AND 803 LBS/HR OF STEAM.

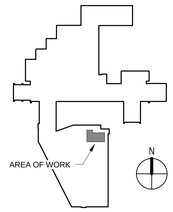
16 ROUTE STEAM CONDENSATE LOW AND TIGHT TO CONCRETE BUILDING CURB.

17 CONNECT 1/2" MAKEUP WATER TO LINE ABOVE. SEE PLUMBING PLANS. PIPING TO BE INSTALLED BY PLUMBING CONTRACTOR.

18 EXISTING HVAC CONTROL PANELS TO BE RELOCATED.

19 NEW LOCATION OF HVAC CONTROL PANELS.

KEY PLAN



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ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: PENTHOUSE ENLARGED MECHANICAL PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

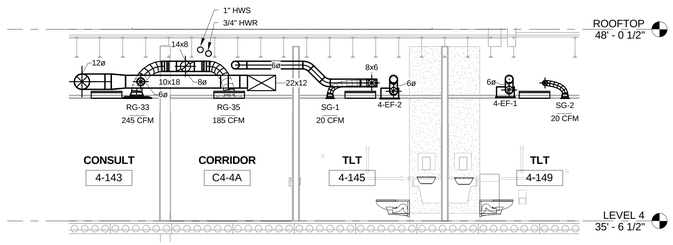
Drawing Number: M-401

Dwg. 40 of 79

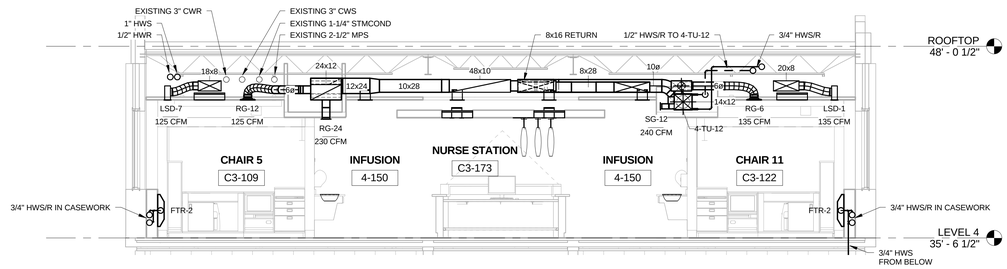
Office of Facilities Management

Department of Veterans Affairs

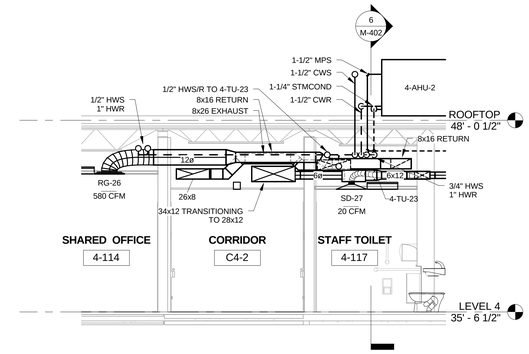
VA FORM 08-6231, OCT 1978



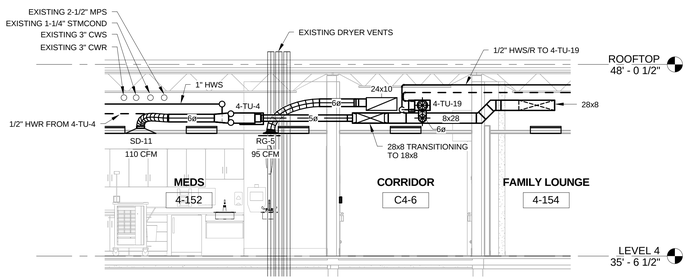
1 SECTION 1
1/4" = 1'-0"



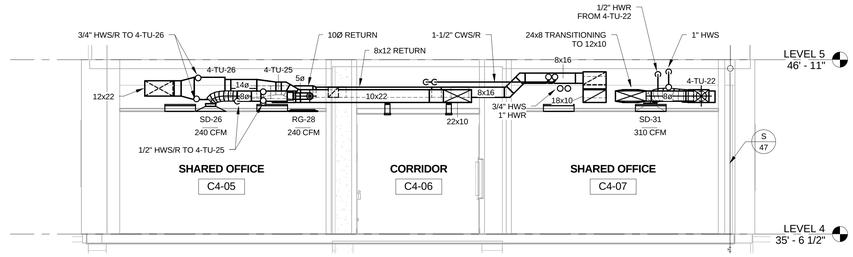
2 SECTION 2
1/4" = 1'-0"



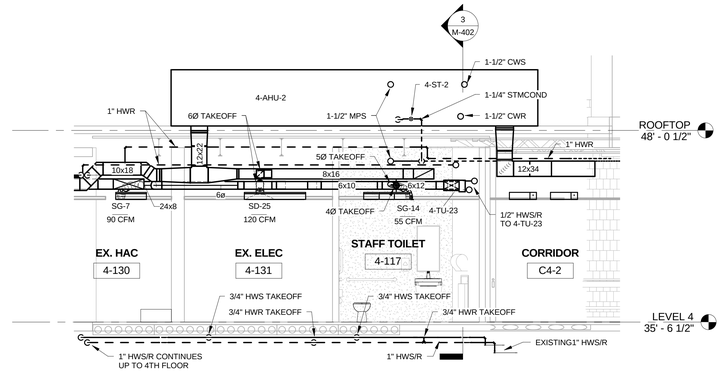
3 SECTION 5
1/4" = 1'-0"



4 SECTION 3
1/4" = 1'-0"



5 SECTION 6
1/4" = 1'-0"



6 SECTION 4
1/4" = 1'-0"

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Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANICAL SECTIONS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

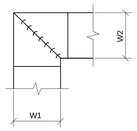
Drawing Number: M-402

Dwg. 41 of 79

Office of Facilities Management

Department of Veterans Affairs

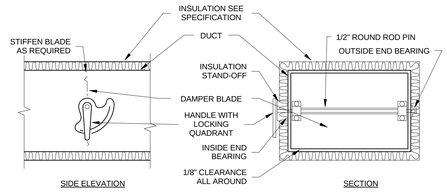
VA FORM 08-6231, OCT 1978



NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUAL W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

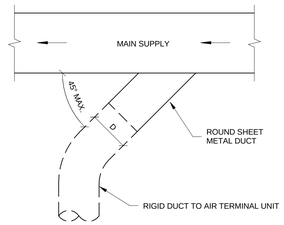
1 DUCTWORK SQUARE VANE ELBOWS
N.T.S.



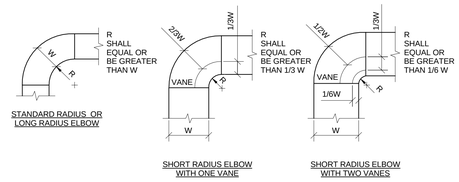
NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

2 VOLUME DAMPER DETAIL
N.T.S.



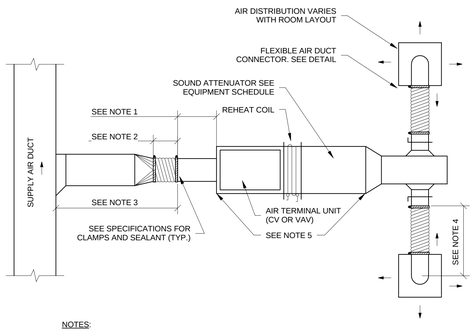
3 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS
N.T.S.



NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED , SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

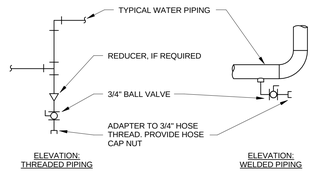
4 DUCTWORK RADIUS ELBOW
N.T.S.



NOTES:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100'.
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
6. USE OF THE FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

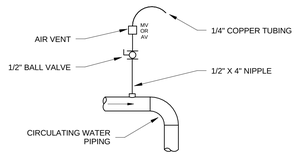
5 DUCT CONNECTIONS - AIR TERMINAL UNITS
N.T.S.



TYPICAL CHILLED WATER AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:

1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS, LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

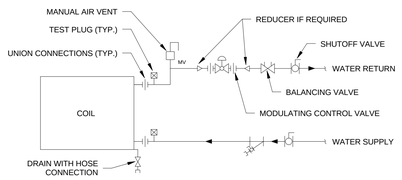


TYPICAL MANUAL AIR VENT

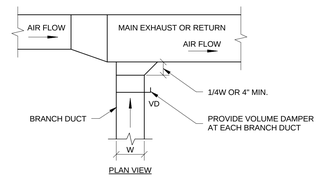
NOTES:

1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

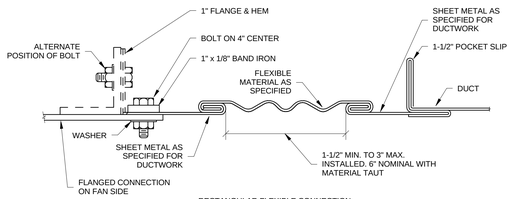
6 DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)
N.T.S.

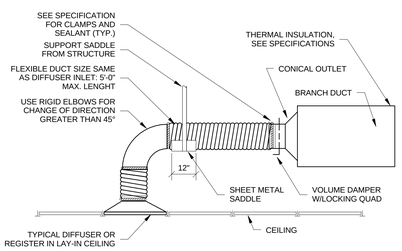


7 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS
N.T.S.



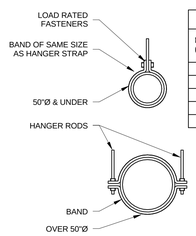
8 EXHAUST OR RETURN BRANCH DUCTWORK
N.T.S.





NOTE:
WHEN MOUNTED IN A GYPSUM BOARD CEILING PROVIDE, MANUFACTURERS SUFACE MOUNT TRIM FRAME.

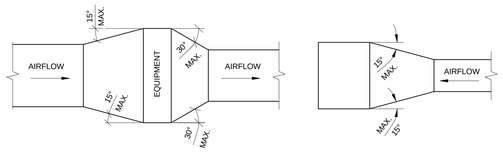
9 FLEXIBLE AIR DUCT CONNECTOR
N.T.S.



HANGER STRAPS OR RODS			
MAX DUCT Ø (IN.)	QUANTITY/SIZE (IN.)	MAX LOAD (LBS.)	MAX SPACING (IN.)
26	ONE 1 x 22 GA STRAP	260	144
36	ONE 1 x 18 GA STRAP	420	144
50	ONE 1 x 16 GA STRAP	700	144
60	TWO 3/8 Ø RODS	1320	144
84	TWO 1/2 Ø RODS	2500	144

NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUR NOT EXTERNAL LOAD

10 ROUND DUCT HANGERS
N.T.S.

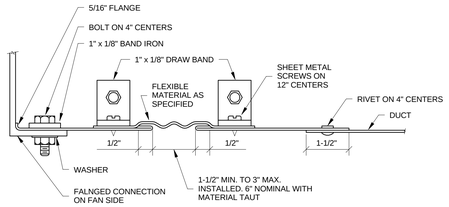


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

11 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)
N.T.S.



12 FLEXIBLE DUCT CONNECTIONS
N.T.S.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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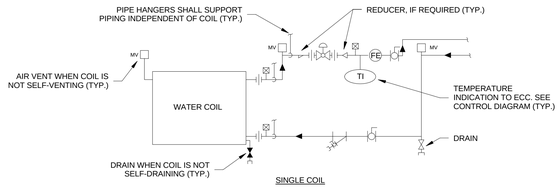
Project Number	Scale
3541	As indicated

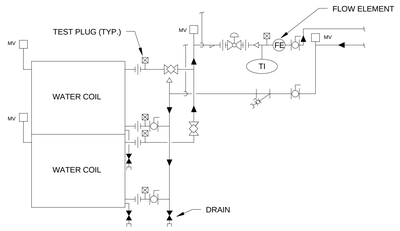
Drawing Title	Project Title	VA Project Number
MECHANICAL DETAILS	EXPAND EXISTING ONCOLOGY	693-11-122
		Building Number: 1 & 27
Approved: Project Director	Location: 1111 East End Blvd. Wilkes Barre, PA 18711	Drawing Number: M-501
	Date: 04/17/13 · Checked: JWM · Drawn: JMB2	Dwg. 42 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



SINGLE COIL

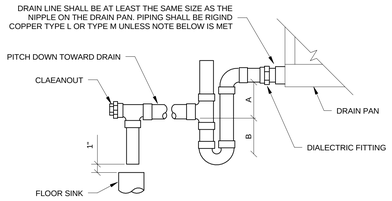


DOUBLE COIL

NOTES:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST TWO HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" 4" DIA. PIPE & SMALLER. TYPE "H-P" FOR 5" DIA. PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH A MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPINGREQUIRED MINIMUM UPSTEAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

1 WATER COILS - PIPING CONNECTIONS
N.T.S.



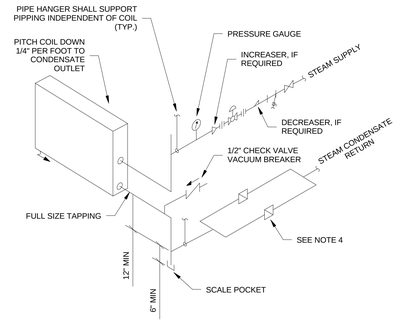
NOTE:

1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUHG RATED BARRIERS.
2. DIALECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED

UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

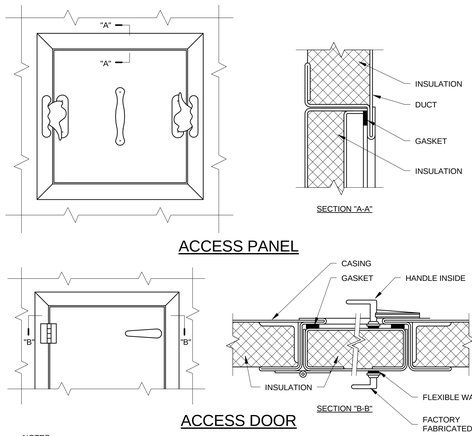
2 AIR HANDLING UNIT DRAIN TRAP DETAIL
N.T.S.



NOTES:

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATOR UNITS, THE RUNOUT PIPING FOR CONNECTIONS TO COIL SHALL BE INSTALLED WITH SWING JOINTS TO ALLOW FOR THE VIBRATION.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. TRAP EACH COIL SEPARATELY WHEN INSTALLED IN A BANK OF TWO OR MORE HIGH. ALSO PROVIDE A SEPARATE VACUUM BREAKER FOR EACH COIL.
4. TWO TRAP ASSEMBLIES IN PARALLEL ARE SHOWN. TWO TRAPS REQUIRED WHEN CONDENSATE LOAD IS 5,000 LBS/HR OR GREATER.
5. SUPPLY & RETURN PIPES ARE SHOWN FROM SAME END. REHEAT COIL MAY HAVE SUPPLY & RETURN PIPES FROM OPPOSITE ENDS.

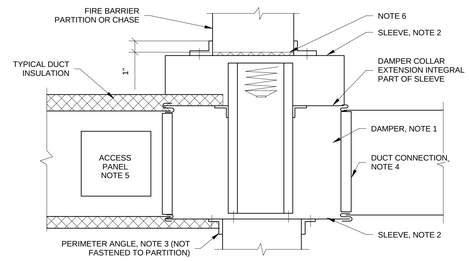
3 STEAM COIL - PIPING CONNECTIONS
N.T.S.



NOTES:

1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS THIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-16

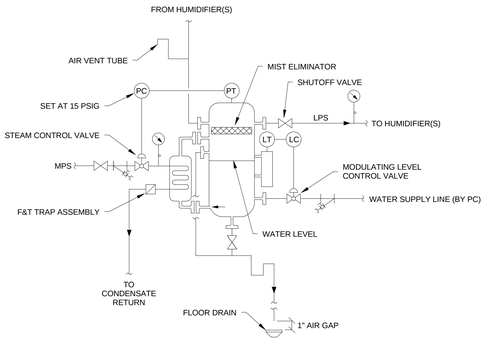
4 ACCESS PANEL AND DOOR DETAIL
N.T.S.



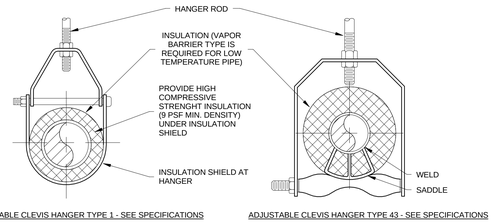
NOTE:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTION, INCLUDING FASTENER OPTIONS AND GAUGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAUGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2" x 1 1/2", 14 GAUGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
5. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
6. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

5 FIRE DAMPER INSTALLATION
N.T.S.

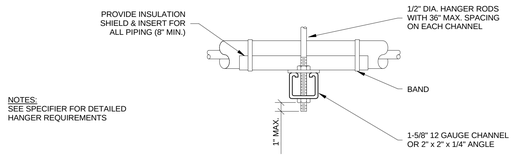


6 CLEAN STEAM GENERATOR
N.T.S.



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43 - SEE SPECIFICATIONS

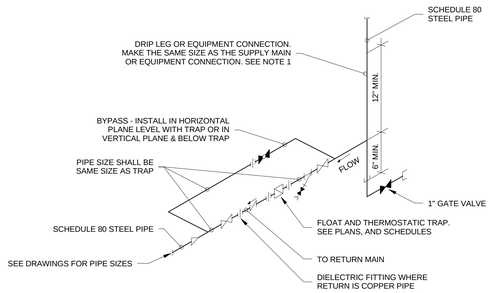


NOTES:
SEE SPECIFIER FOR DETAILED HANGER REQUIREMENTS

SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																		
NOM. SIZE (IN.)	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING (FT.)	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE																		

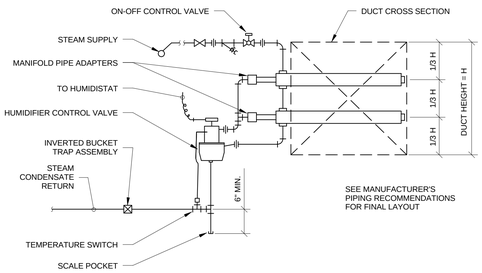
7 PIPE HANGERS
N.T.S.



NOTE:

ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.

8 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY
N.T.S.



9 STEAM HUMIDIFIER - PIPING CONNECTIONS (MULTIPLE DISPERSION TUBES)
N.T.S.

FULLY SPRINKLERED
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Revisions | Date

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANICAL DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: JWM | Drawn: JMB2

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: M-502
Dwg. 43 of 79

Office of Facilities Management
Department of Veterans Affairs

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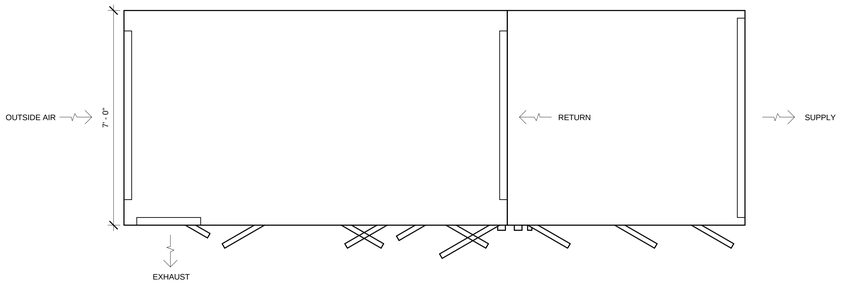
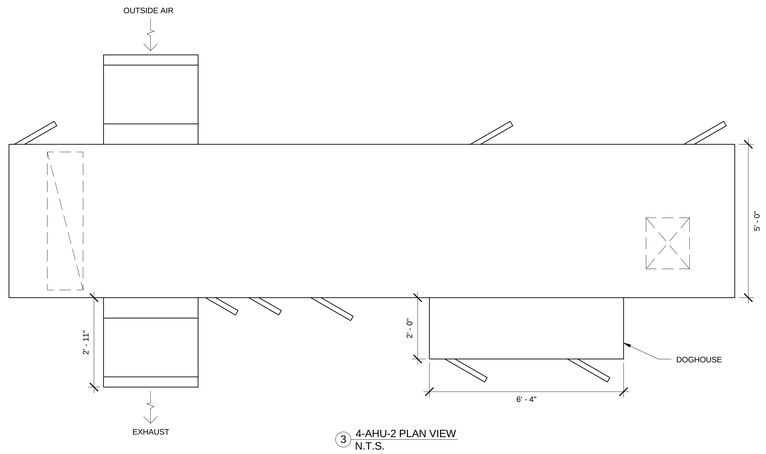
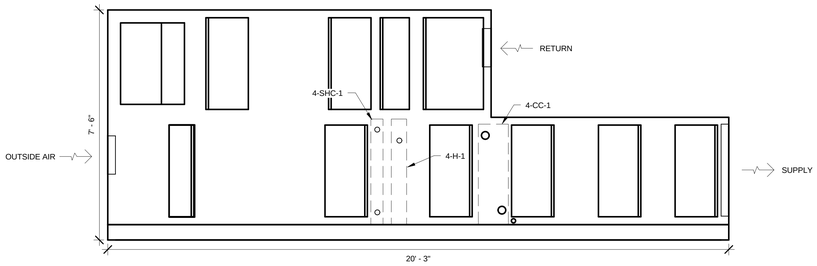


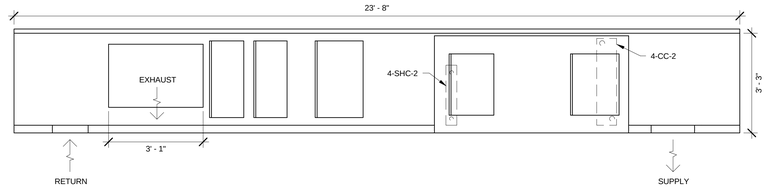
1 4-AHU-1 PLAN VIEW
N.T.S.



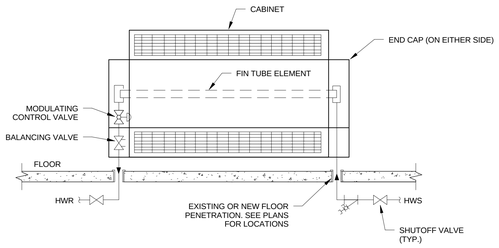
3 4-AHU-2 PLAN VIEW
N.T.S.



2 4-AHU-1 ELEVATION VIEW
N.T.S.



4 4-AHU-2 ELEVATION VIEW
N.T.S.



5 HEATING HOT WATER FINNED TUBE PIPING CONNECTION DETAIL
N.T.S.

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Revisions	Date

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VA Project Number: 693-11-122

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Drawing Number: M-503

Dwg. 44 of 79

Office of Facilities Management

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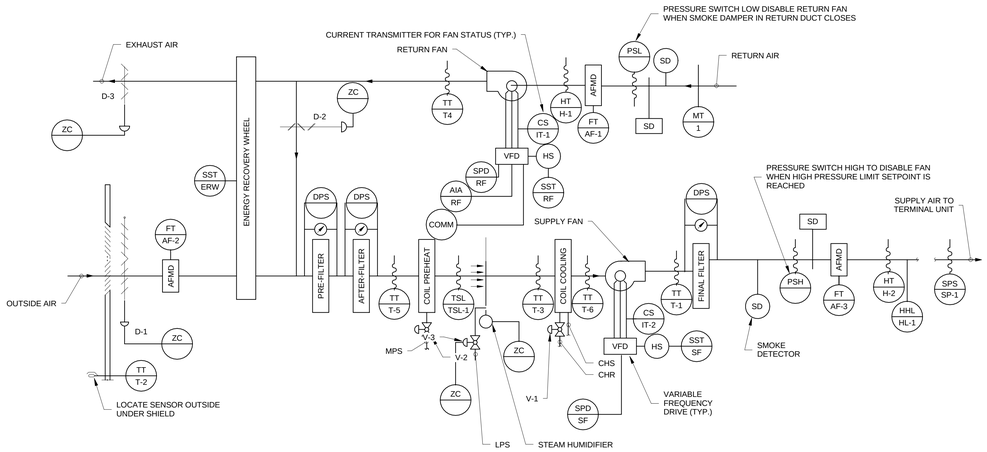


1 4-AH1 CONTROL DIAGRAM
N.T.S.

1. GENERAL

1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTANANCE. WHEN THE UNIT IS "OFF" D-1 & D-3 SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1, SD-1, & SD-2 SHALL BE FULLY OPEN. D-2 AND D-3 SHALL MODULATE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:

2. TEMPERATURE CONTROL

2.1 SUPPLY AIR TEMPERATURE SENSED BY TT-1 SHALL BE MAINTAINED AT SETPOINT VIA DIGITAL CONTROL PANEL BY MODULATING V-1 OR D-2 & D-3 OR V-2 IN SEQUENCE.

2.2 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS ABOVE 75°F (ADJ), THE DIGITAL CONTROL PANEL SHALL PREVENT THE MODULATION OF D-2 & D-3 AND SHALL ASSUME THE MINIMUM OUTSIDE AIR POSITION (D-2 FULLY OPENED & D-3 FULLY CLOSED). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE SENSED BY TT-1.

2.3 WHEN THE TEMPERATURE OF THE OUTSIDE AIR SENSED BY TT-2 IS BETWEEN 65°F AND THE SUPPLY AIR TEMPERATURE SENSED BY TT-1, DAMPER D-2 SHALL FULLY CLOSE & D1 & D3 SHALL BE FULLY OPEN (MAXIMUM OUTSIDE AIR POSITION). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE SENSED BY TT-1.

2.4 WHEN THE TEMPERATURE OF THE OUTSIDE AIR SENSED BY TT-2 IS BELOW THE SUPPLY AIR TEMPERATURE SENSED BY TT-1, DAMPERS D1, D-2, & D-3 SHALL MODULATE TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE. IF D-2 IS OPEN & D-3 IS CLOSED TO MINIMUM OUTSIDE AIR, V-2 SHALL MODULATE OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE SENSED BY TT-1.

3. AIRFLOW CONTROL

3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL MODULATING THE SUPPLY FAN VARIABLE SPEED MOTOR CONTROLLER TO MAINTAIN 1.0" OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE), SENSED BY SPS-1. RESET STATIC PRESSURE BASED ON ACTUAL BUILDING LOAD BY POLLING ALL AIR TERMINAL UNITS.

3.2 THE DIGITAL CONTROL PANEL, USING TOTAL SUPPLY AIR AND RETURN AIR FLOW SIGNALS, SHALL RESET THE RETURN AIR FAN VSMC TO MAINTAIN A CONSTANT AIR FLOW DIFFERENCE BETWEEN THE SUPPLY AIR & THE RETURN AIR EQUAL TO MINIMUM OUTSIDE AIR.

3.3 USING HIGH PRESSURE SENSOR SPS-2 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-2 DOES EXCEED 3" THE SUPPLY AIR FAN SHALL STOP. SPS-2 SHALL BE HARDWIRED TO THE SUPPLY FAN VSMC & UNIT SHALL BE SHUTDOWN IN HAND, AUTO OR BYPASS MODE. SPS-2 WILL REQUIRE MANUAL RESET AT THE DEVICE.

4. HUMIDITY CONTROL

4.1 WHEN THE DIGITAL CONTROL PANEL IS NOT CALLING FOR HUMIDITY, SENSED BY RETURN AIR HUMIDITY MT-1, STEAM HUMIDIFIER SHALL BE OFF. WHEN THE DIGITAL CONTROL PANEL IS CALLING FOR HUMIDITY, HUM-C SHALL BE ON.

4.2 RETURN AIR HUMIDITY SHALL BE MAINTAINED AT SETPOINT OF 42° F [5.6° C] (ADJ) DEW POINT (ADJ) VIA DIGITAL CONTROL PANEL BY MODULATING CONTROL VALVE V-3 TO MAINTAIN THE DESIRED HUMIDITY. THE DRYBULB TRANSMITTER T-4 AND HUMIDITY TRANSMITTER H-1 IN RETURN AIR SHALL BE USED TO CALCULATE RETURN AIR DEW POINT TEMPERATURE. V-3 SHALL BE CLOSED WHENEVER THE RETURN AIR DEWPOINT IS > 45° F [7°C]. DCP SHALL CLOSE VALVE V-3 WHENEVER THE SUPPLY FAN IS OFF. VALVE V-3 SHALL BE INTERLOCKED WITH A TEMPERATURE SWITCH TO KEEP THE HUMIDIFIER OFF UNTIL CONDENSATE TEMPERATURE APPROACHES STEAM TEMPERATURE.

5. FREEZE PROTECTION

5.1 IF THE AIR TEMPERATURE AS SENSED BY TT-3 FALLS BELOW 45°F, AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F, AS SENSED BY THE TSL THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN UFD AND UNIT SHALL BE SHUTDOWN IN HAND,AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.

6. AUTOMATIC SHUTDOWN/RESTART

6.1 WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR (SD), THE SUPPLY AND RETURN FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND RETURN DUCTS SHALL CLOSE.

6.2 EXHAUST FANS SERVING AREA OF THE SUPPLY FAN SHALL CONTINUE TO RUN. SUPPLY AND RETURN FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.

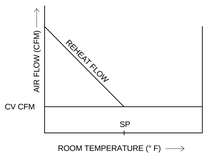
6.3 DUCT SMOKE DETECTOR SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, TIED INTO THE FIRE ALARM BY THE ELECTRICAL CONTRACTOR AND INTERLOCKED WITH THE BAS AND UNIT BY THE MECHANICAL CONTRACTOR.

7. EMERGENCY CONSTANT SPEED OPERATION

7.1 UPON FAILURE OF THE VSMC, THE SUPPLY AND RETURN FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

2 4-AH-1 SEQUENCE OF OPERATION
N.T.S.

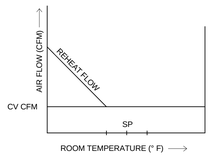
| JOB: 693-11-12 BUILDING: 27 | | | POINT LEGEND | SYSTEM OUTPUTS | | SYSTEM INPUTS | | |



CV BOX CONTROL SEQUENCE
NO DEADBAND

A. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MD OTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

B. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.

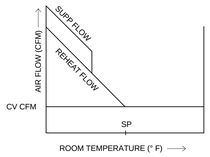


CV BOX CONTROL SEQUENCE
W / DEADBAND

A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75° F (ADJ)
HEATING 70° F (ADJ)
DEADBAND OF 5° BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED.

B. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.

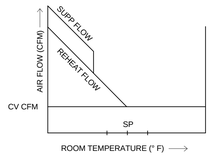


CV BOX CONTROL SEQUENCE
NO DEADBAND

A. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°. THE ADJUSTABLE TOLERANCE OF± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

B. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOUT 30% (ADJ) V-2 SHALL THEN BE MODULATED TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



CV BOX CONTROL SEQUENCE
W / DEADBAND

A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75° F (ADJ)
HEATING 70° F (ADJ)
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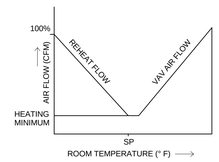
C. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.

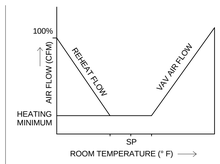


VAV BOX CONTROL SEQUENCE
NO DEADBAND

A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

C. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



VAV BOX CONTROL SEQUENCE
W/DEADBAND

A. SET POINTS SHALL BE SET AS FOLLOWS:
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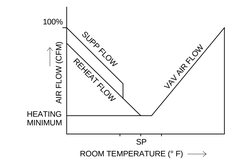
HEATING 70° F (ADJ)
DEADBAND OF 5° BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED.

B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSSITION.

C. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

D. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



VAV BOX CONTROL SEQUENCE
NO DEADBAND

A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.

B. UPON FURTHER DROP IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

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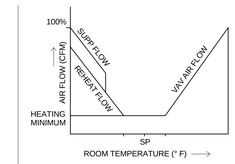

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W / DEADBAND

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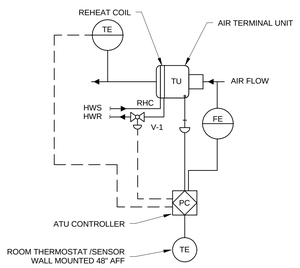
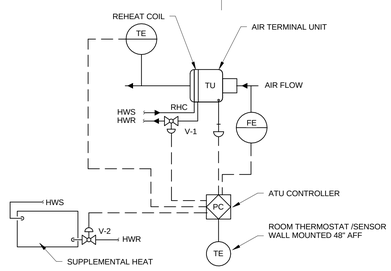
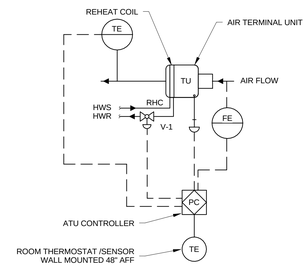
E. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



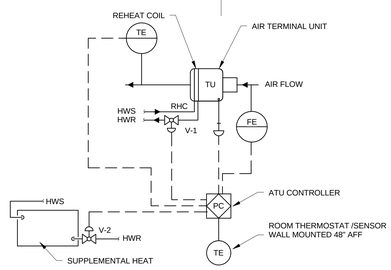
NO SUPPLEMENTAL HEATING



WITH SUPPLEMENTAL HEATING



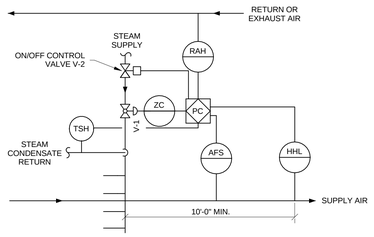
NO SUPPLEMENTAL HEATING



WITH SUPPLEMENTAL HEATING

1 CONSTANT VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM
N.T.S.

2 VAV AIR TERMINAL UNIT CONTROL DIAGRAM
N.T.S.



STEAM HUMIDIFIERS:

RETURN (OR EXHAUST) AIR HUMIDITY SHALL BE MONITORED. ON A CALL FOR HUMIDIFICATION, HUMIDIFIER VALVE V-1 SHALL MODULATE TO MAINTAIN THE RETURN (OR EXHAUST) AIR HUMIDITY SET POINT TO 30% (ADJUSTABLE). PRIOR TO ACTIVATION OF V-1. THE ON/OFF CONTROL VALVE V-2 SHALL BE ENABLED THROUGH ECC AND JACKET TEMPERATURE SENSED BY TSH SHALL BE WARM ENOUGH TO PREVENT CONDENSATION. THE HIGH LIMIT HUMIDITY SENSOR, LOCATED IN THE SUPPLY AIR DUCT 10 FEET AWAY FROM THE HUMIDIFIER SHALL DISABLE THE HUMIDIFIER AND GIVE AN ALARM SIGNAL TO THE ECC, IF THE SUPPLY AIR HUMIDITY EXCEEDS 90% RH (ADJUSTABLE). THE AIRFLOW SWITCH SHALL PROVE AIRFLOW BEFORE HUMIDITY CONTROLS ARE ACTIVATED.

3 STEAM HUMIDIFIER CONTROLS
N.T.S.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: CONTROL DETAILS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

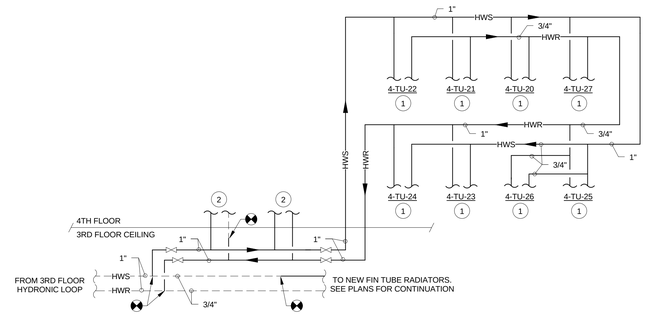
Drawing Number: M-505

Dwg. 46 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



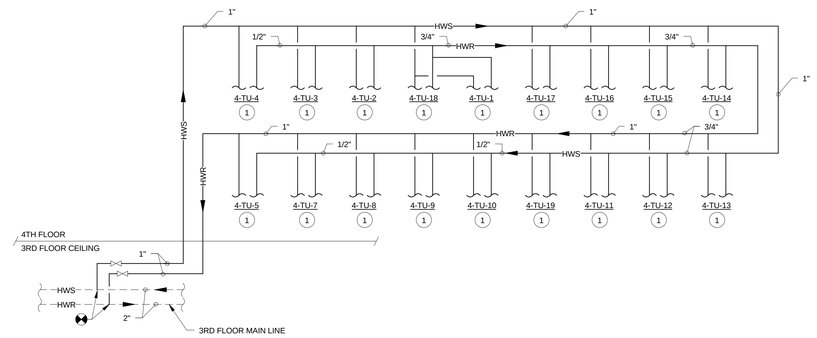
NOTE: ALL HWS/R PIPE RUNOUTS SHALL BE 1/2" TO TERMINAL UNITS AND 3/4" TO FIN TUBE RADIATORS UNLESS STATED OTHERWISE.

1 HEATING HOT WATER PIPING SCHEMATIC AREA A
N.T.S.

KEYED NOTES

1 SEE DETAIL 7/M-501 FOR CONTINUATION TO TERMINAL UNIT.

2 SEE DETAIL 6/M-503 FOR CONTINUATION TO FIN TUBE RADIATOR.



NOTE: ALL HWS/R PIPE RUNOUTS SHALL BE 1/2" TO TERMINAL UNITS AND 3/4" TO FIN TUBE RADIATORS.

2 HEATING HOT WATER PIPING SCHEMATIC AREA B
N.T.S.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions | Date

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANICAL SCHEMATICS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: M-506

Dwg. 47 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

ROOM AIR BALANCE SCHEDULE

ROOM NO.	ROOM NAME	AIR HANDLING UNIT	TERMINAL UNIT	INDIVIDUAL TEMP CONTROL	SUPPLY AIRFLOW	SUPPLY AIR DEVICE MARK	RETURN AIRFLOW	RETURN AIR DEVICE MARK	EXHAUST AIRFLOW	EXHAUST AIR DEVICE MARK	ROOM AIR FLOW CV	ROOM AIR FLOW VAV	ROOM AIR BALANCE	NET INFILTRATION	NET EXFILTRATION	REMARKS
4-114	SHARED OFFICE	4-AHU-2	4-TU-24	Yes	580 CFM	SD-23 & 24	580 CFM	RG-26	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-117	STAFF TOILET	4-AHU-2	4-TU-23	No	20 CFM	SD-27	0 CFM	N/A	95 CFM	EG-9	X		--	75 CFM	0 CFM	---
4-118	CLOSET	4-AHU-2	4-TU-23	No	55 CFM	SG-14	0 CFM	N/A	0 CFM	N/A	X		++	0 CFM	55 CFM	---
4-126	STAFF BREAK ROOM	4-AHU-1	4-TU-8	Yes	290 CFM	SD-9 & 10	310 CFM	RG-19	0 CFM	N/A		X	-	20 CFM	0 CFM	---
4-130	EX. HAC	4-AHU-2	4-TU-23	No	90 CFM	SG-7	0 CFM	N/A	145 CFM	EG-2	X		--	55 CFM	0 CFM	---
4-131	EX. ELEC	4-AHU-2	4-TU-23	Yes	120 CFM	SD-25	120 CFM	RG-27	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-143	CONSULT	4-AHU-1	4-TU-1	Yes	245 CFM	SD-35	245 CFM	RG-33	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-144	BONE MARROW TREATMENT	4-AHU-1	4-TU-2	Yes	300 CFM	SD-21 & 22	255 CFM	RG-34	0 CFM	N/A		X	++	0 CFM	45 CFM	---
4-145	TLT	4-AHU-1	4-TU-17	No	20 CFM	SG-1	0 CFM	N/A	105 CFM	4-EF-2	X		--	85 CFM	0 CFM	---
4-146	EXAM	4-AHU-1	4-TU-16	Yes	205 CFM	SD-1	205 CFM	RG-1	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-147	EXAM	4-AHU-1	4-TU-15	Yes	205 CFM	SD-2	205 CFM	RG-2	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-148	EXAM	4-AHU-1	4-TU-14	Yes	205 CFM	SD-3	205 CFM	RG-3	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-149	TLT	4-AHU-1	4-TU-17	No	20 CFM	SG-2	0 CFM	N/A	105 CFM	4-EF-1	X		--	85 CFM	0 CFM	---
4-150	INFUSION	4-AHU-1	4-TU-12	No	610 CFM	SG-10, 11, 12, & 13	580 CFM	RG-22, 23, 24, & 25	0 CFM	N/A	X		+	0 CFM	30 CFM	---
4-152	MEDS	4-AHU-1	4-TU-4	Yes	110 CFM	SD-11	95 CFM	RG-5	0 CFM	N/A		X	++	0 CFM	15 CFM	---
4-153	TLT	4-AHU-1	4-TU-19	No	20 CFM	SG-5	0 CFM	N/A	100 CFM	4-EF-3	X		--	80 CFM	0 CFM	---
4-154	FAMILY ZONE	4-AHU-1	4-TU-11	Yes	300 CFM	SD-4 & 5	310 CFM	RG-4	0 CFM	N/A		X	-	10 CFM	0 CFM	---
4-155	SOILED	4-AHU-1	4-TU-10	Yes	135 CFM	SD-6	0 CFM	N/A	165 CFM	EG-5	X		--	30 CFM	0 CFM	---
4-156	ALCOVE	4-AHU-1	4-TU-19	No	0 CFM	N/A	0 CFM	N/A	0 CFM	N/A	X		+	0 CFM	0 CFM	---
4-157	CLEAN SUPPLY	4-AHU-1	4-TU-5	Yes	150 CFM	SD-32 & 33	150 CFM	RG-32	0 CFM	N/A	X		0	0 CFM	0 CFM	---
4-158	HAC	4-AHU-1	4-TU-7	No	20 CFM	SG-3	0 CFM	N/A	110 CFM	EG-3	X		--	90 CFM	0 CFM	---
4-159	ELEC	EXISTING AC-2	N/A	No	500 CFM	SG-6	0 CFM	EG-1	500 CFM	N/A	X		0	0 CFM	0 CFM	---
4-160	TEAM OFFICE	4-AHU-1	4-TU-9	Yes	380 CFM	SD-7 & 8	380 CFM	RG-18	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-162	STAFF TLT	4-AHU-1	4-TU-8	No	20 CFM	SG-4	0 CFM	N/A	85 CFM	EG-4	X		--	65 CFM	0 CFM	---
4-172	RECEPTION	4-AHU-2	4-TU-27	Yes	330 CFM	SD-18	330 CFM	RG-36	0 CFM	N/A		X	0	0 CFM	0 CFM	---
4-176	OFFICE	EXISTING AC-2	N/A	No	220 CFM	N/A	190 CFM	N/A	0 CFM	N/A	N/A	N/A	N/A	0 CFM	0 CFM	2
4-177	OFFICE	EXISTING AC-6	EXISTING VAV-3	No	200 CFM	N/A	200 CFM	N/A	0 CFM	N/A	N/A	N/A	N/A	0 CFM	0 CFM	2
434	EX. EQUIP STORAGE	4-AHU-1	4-TU-7	No	50 CFM	N/A	0 CFM	N/A	0 CFM	N/A	N/A	N/A	N/A	0 CFM	0 CFM	1,2
C3-101	CHAIR 1	4-AHU-1	4-TU-3	No	125 CFM	LSD-12	125 CFM	RG-17	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-108	CHAIR 6	4-AHU-1	4-TU-3	Yes	125 CFM	LSD-7	125 CFM	RG-12	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-109	CHAIR 5	4-AHU-1	4-TU-3	No	125 CFM	LSD-8	125 CFM	RG-13	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-110	CHAIR 4	4-AHU-1	4-TU-3	No	125 CFM	LSD-9	125 CFM	RG-14	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-111	CHAIR 3	4-AHU-1	4-TU-3	No	125 CFM	LSD-10	125 CFM	RG-15	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-112	CHAIR 2	4-AHU-1	4-TU-3	No	125 CFM	LSD-11	125 CFM	RG-16	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-121	CHAIR 12	4-AHU-1	4-TU-13	Yes	135 CFM	LSD-1	135 CFM	RG-6	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-122	CHAIR 11	4-AHU-1	4-TU-13	No	135 CFM	LSD-2	135 CFM	RG-7	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-126	CHAIR 10	4-AHU-1	4-TU-13	No	135 CFM	LSD-3	135 CFM	RG-8	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-130	CHAIR 9	4-AHU-1	4-TU-13	No	135 CFM	LSD-4	135 CFM	RG-9	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-151	CHAIR 8	4-AHU-1	4-TU-13	No	135 CFM	LSD-5	135 CFM	RG-10	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-152	CHAIR 7	4-AHU-1	4-TU-13	No	135 CFM	LSD-6	135 CFM	RG-11	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C3-173	NURSE STATION	4-AHU-1	4-TU-12	Yes	340 CFM	SG-10, 11, 12, & 13	340 CFM	RG-22, 23, 24, & 25	0 CFM	N/A		X	+	0 CFM	0 CFM	---
C4-2	CORRIDOR	EXISTING AHU-2	N/A	No	0 CFM	N/A	0 CFM	N/A	0 CFM	N/A	N/A	N/A	N/A	0 CFM	0 CFM	2
C4-3	CORRIDOR	4-AHU-1	4-TU-18	Yes	1440 CFM	LSD-15, 16, 17, 18, 19, 20, 21, 22	1350 CFM	LRD-1, 2, 3, 4, 5, 6, 7, 8, & 9	0 CFM	N/A		X	+	0 CFM	90 CFM	---
C4-4	CORRIDOR	4-AHU-1	4-TU-17	Yes	270 CFM	SD-19 & 20	185 CFM	RG-35	0 CFM	N/A		X	+	0 CFM	85 CFM	---
C4-04	WAITING	4-AHU-2	4-TU-26	Yes	1230 CFM	SD-17, LSD 13, & 14	0 CFM	N/A	1350 CFM	EG-6, 7, & 8		X	-	120 CFM	0 CFM	---
C4-5	CORRIDOR	4-AHU-1	4-TU-7	Yes	250 CFM	SD-12 & 13	170 CFM	RG-21	0 CFM	N/A	X		+	0 CFM	80 CFM	---
C4-05	SHARED OFFICE	4-AHU-2	4-TU-25	Yes	240 CFM	SD-26	240 CFM	RG-28	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C4-6	CORRIDOR	4-AHU-1	4-TU-19	Yes	235 CFM	SD-14	155 CFM	RG-20	0 CFM	N/A	X		+	0 CFM	80 CFM	---
C4-06	CORRIDOR	4-AHU-2	4-TU-26	No	420 CFM	SD-15 & 34	195 CFM	RG-29	0 CFM	N/A	X		++	0 CFM	225 CFM	---
C4-07	SHARED OFFICE	4-AHU-2	4-TU-22	Yes	630 CFM	SD-30 & 31	630 CFM	RG-30 & 31	0 CFM	N/A		X	0	0 CFM	0 CFM	---
C4-08	WAITING	4-AHU-2	4-TU-21	Yes	700 CFM	SD-28 & 29	0 CFM	N/A	750 CFM	EG-6 & 7		X	-	50 CFM	0 CFM	---
C4-09	PASSAGE	4-AHU-2	4-TU-20	Yes	150 CFM	SD-16	0 CFM	N/A	0 CFM	N/A		X	++	0 CFM	150 CFM	---
C4-10	TLT	4-AHU-2	4-TU-20	No	20 CFM	SG-8	0 CFM	N/A	95 CFM	4-EF-6	X		--	75 CFM	0 CFM	---
C4-11	TLT	4-AHU-2	4-TU-20	No	20 CFM	SG-9	0 CFM	N/A	95 CFM	4-EF-5	X		--	75 CFM	0 CFM	---

NOTES:

1. RE-FEED EXISTING DIFFUSER
2. CONTRACTOR SHALL MEASURE AIRFLOW PRIOR TO THE START OF WORK TO DETERMINE THE AIRFLOW TO DELIVER AT THE END OF THE PROJECT.

AIR FILTER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIRFLOW	APD INITIAL	APD CHANGEOVER	HOUSING TYPE	CARTRIDGES #	CARTRIDGES SIZE	CARTRIDGES ARRANGEMENT	REMARKS
4-PF-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	7	7400 CFM	0.15 in-wg	0.00 in-wg	SIDE	12	24x12	N/A	---
4-PF-2	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	8	7400 CFM	0.28 in-wg	0.00 in-wg	SIDE	3 / 2	24x12 / 24x20	N/A	---
4-PF-3	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	14	7400 CFM	0.57 in-wg	0.00 in-wg	SIDE	3 / 2	24x12 / 24x20	N/A	4" MINI-PLEAT
4-FF-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	14	7400 CFM	0.51 in-wg	0.00 in-wg	SIDE	3 / 2	24x12 / 24x20	N/A	12" RIGID
4-PF-4	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	8	4600 CFM	0.38 in-wg	0.00 in-wg	SIDE	2	24x24	N/A	---
4-PF-5	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	14	4600 CFM	0.67 in-wg	0.00 in-wg	SIDE	2	24x24	N/A	12" RIGID

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIRFLOW	AIRFLOW SUPPLY	AIRFLOW MIN OA	AIRFLOW RETURN	SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	HUMIDIFIER MARK	REMARKS
4-AHU-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	PRE-ENGINEERED	VAV	7400 CFM	4100 CFM	7900 CFM	4-SF-1	4-RF-1	---	4-PF-1, 4-PF-2, & 4-PF-3	---	4-FF-1	4-RAHX-1	4-SHC-1	4-CC-1	4-H-1	1,2
4-AHU-2	ROOFTOP	4TH FLOOR ONCOLOGY	PRE-ENGINEERED	VAV	4600 CFM	2460 CFM	4600 CFM	4-SF-2	4-RF-2	---	4-PF-4 & 4-PF-5	---	---	---	4-SHC-2	4-CC-2	---	1,2

NOTES:

1. SUPPLY FANS SHALL BE ABLE TO DELIVER 105% OF THE AIRFLOW SCHEDULED.
2. UNITS SHALL BE ABLE TO FIT IN THE AREAS SHOWN ON THE PLANS.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	SIZE	AIRFLOW MAX	AIRFLOW MIN	ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	REHEAT HW	REHEAT ELEC	REHEAT NONE	PERIMETER SUPPLEMENTAL HEAT LINK	REMARKS
4-TU-1	4-143	4-143	4-AHU-1	B	245 CFM	100 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-2	4-144	4-144	4-AHU-1	B	300 CFM	180 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-3	4-144	C3-101 & C3-108 - 112	4-AHU-1	D	750 CFM	450 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-4	4-152	4-152	4-AHU-1	A	110 CFM	110 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-5	4-156	4-157	4-AHU-1	A	150 CFM	150 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-7	C4-5	434, C4-5, & 4-158	4-AHU-1	B	345 CFM	345 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-8	4-160	4-126 & 4-162	4-AHU-1	B	310 CFM	175 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-9	4-160	4-160	4-AHU-1	C	380 CFM	185 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	--
4-TU-10	4-155	4-155	4-AHU-1	A	135 CFM	135 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-11	4-154	4-154	4-AHU-1	B	300 CFM	185 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-12	4-150	C3-173 & 4-150	4-AHU-1	D	950 CFM	950 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-13	4-148	C3-121 - 122, C3-126, C3-130, & C3-151 - 152	4-AHU-1	D	800 CFM	450 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-14	4-148	4-148	4-AHU-1	A	205 CFM	150 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-15	4-148	4-147	4-AHU-1	A	205 CFM	150 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-16	4-148	4-146	4-AHU-1	A	205 CFM	150 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-17	C4-4	C4-4, 4-145, & 4-149	4-AHU-1	B	310 CFM	280 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-18	4-143	C4-3	4-AHU-1	E	1440 CFM	710 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-19	C4-6	C4-6 & 4-153	4-AHU-1	B	255 CFM	255 CFM	NONE	CV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-20	C4-08	C4-09 - 11	4-AHU-2	A	190 CFM	100 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	No	---
4-TU-21	C4-07	C4-08	4-AHU-2	D	700 CFM	285 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-22	C4-07	C4-07	4-AHU-2	C	630 CFM	235 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	--
4-TU-23	4-117	4-117, 4-118, & 4-130 - 131	4-AHU-2	B	285 CFM	225 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-24	4-114	4-114	4-AHU-2	C	580 CFM	225 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	--
4-TU-25	C4-05	C4-05	4-AHU-2	A	240 CFM	125 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-26	C4-05	C4-04 & C4-06	4-AHU-2	F	1650 CFM	850 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---
4-TU-27	C4-06	4-172	4-AHU-2	B	330 CFM	75 CFM	NONE	VAV	5 DEGREE DEADBAND	Yes	No	No	Yes	---

NOTES

1. SEE MP141 FOR THE FIN TUBE RADIATION USED AS PERIMETER HEAT.
2. SEE AIR TERMINAL UNIT SIZING SCHEDULE FOR ADDITIONAL UNIT PERFORMANCE DATA.

AIR TERMINAL UNIT SIZING SCHEDULE

SIZE	MIN ALLOWABLE AIRFLOW	MAX ALLOWABLE AIRFLOW	INLET SIZE	MAX APD	MAXIMUM SOUND POWER LEVEL (Re: 10^-12 WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT — OCTIVE BANDS 2	3	4	5	6	7	HOT WATER HEATING COIL EAT	EWT	FLOW	MAX WPD	PIPE RUNOUT SIZE	REMARKS
A	40 CFM	270 CFM	5"	0.20 in-wg	62	63	56	55	52	50	55 °F	180 °F	0.68 GPM	1.70 FT	0' - 0 1/2"	---
B	60 CFM	420 CFM	6"	0.65 in-wg	63	63	57	55	51	50	55 °F	180 °F	1.06 GPM	1.70 FT	0' - 0 1/2"	---
C	105 CFM	710 CFM	8"	0.70 in-wg	62	64	59	56	53	57	55 °F	180 °F	1.80 GPM	0.32 FT	0' - 0 1/2"	--
D	165 CFM	1270 CFM	10"	0.70 in-wg	65	65	63	61	56	53	55 °F	180 °F	3.22 GPM	2.44 FT	0' - 0 1/2"	---
E	240 CFM	1740 CFM	12"	0.80 in-wg	64	64	62	58	57	56	55 °F	180 °F	4.41 GPM	1.34 FT	0' - 0 1/2"	---
F	320 CFM	2170 CFM	14"	0.50 in-wg	65	65	53	57	54	52	55 °F	180 °F	5.49 GPM	1.50 FT	0' - 0 3/4"	---

NOTES:

1. THIS SCHEDULE IS USED WITH THE SINGLE DUCT AIR TERMINAL UNIT SCHEDULE.

HOT WATER FINNED TUBE RADIATION SCHEDULE

MARK	TYPE	ENCLOSURE TYPE	MOUNTING	ENCLOSURE LENGTH	CAPACITY	TEMPERATURE		FLOW	N/0.5 FT²D	REMARKS
FTR-1	SINGLE ROW	DOUBLE SLOPE TOP	WALL	2' - 0"	800.0 Btu/h	180 °F	160 °F	0.50 GPM	0.5 FT	---
FTR-2	SINGLE ROW	DOUBLE SLOPE TOP	WALL	4' - 0"	1600.0 Btu/h	180 °F	160 °F	0.50 GPM	0.5 FT	---
FTR-3	SINGLE ROW	DOUBLE SLOPE TOP	WALL	6' - 0"	2400.0 Btu/h	180 °F	160 °F	0.60 GPM	0.5 FT	---
FTR-4	SINGLE ROW	DOUBLE SLOPE TOP	WALL	8' - 0"	3200.0 Btu/h		160 °F	0.80 GPM		---

FULLY SPRINKLERED
ISSUED FOR BID

Revisions | Date

CONSULTANTS:

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANCIAL SCHEDULES

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: M-601
Dwg. 48 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	AIRFLOW MIN	AIRFLOW MAX	MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK/DUCT CONNECTION SIZE	NC	DAMPER	FINISH	REMARKS
SD-1	SQUARE CONE DIFFUSER	150 CFM	205 CFM	0.04 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-2	SQUARE CONE DIFFUSER	150 CFM	205 CFM	0.04 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-3	SQUARE CONE DIFFUSER	150 CFM	205 CFM	0.04 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-4	SQUARE CONE DIFFUSER	93 CFM	150 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-5	SQUARE CONE DIFFUSER	93 CFM	150 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-6	SQUARE CONE DIFFUSER	135 CFM	135 CFM	0.06 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-7	SQUARE CONE DIFFUSER	93 CFM	190 CFM	0.04 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-8	SQUARE CONE DIFFUSER	93 CFM	190 CFM	0.04 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-9	SQUARE CONE DIFFUSER	78 CFM	145 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-10	SQUARE CONE DIFFUSER	78 CFM	145 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-11	SQUARE CONE DIFFUSER	110 CFM	110 CFM	0.04 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-12	SQUARE CONE DIFFUSER	125 CFM	125 CFM	0.03 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-13	SQUARE CONE DIFFUSER	125 CFM	125 CFM	0.03 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-14	SQUARE CONE DIFFUSER	235 CFM	235 CFM	0.05 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	2
SD-15	SQUARE CONE DIFFUSER	210 CFM	210 CFM	0.05 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	2
SD-16	SQUARE CONE DIFFUSER	60 CFM	150 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-17	SQUARE CONE DIFFUSER	82 CFM	230 CFM	0.05 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	2
SD-18	SQUARE CONE DIFFUSER	75 CFM	330 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	17	NONE	WHITE	---
SD-19	SQUARE CONE DIFFUSER	120 CFM	135 CFM	0.06 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-20	SQUARE CONE DIFFUSER	120 CFM	135 CFM	0.06 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-21	SQUARE CONE DIFFUSER	90 CFM	150 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-22	SQUARE CONE DIFFUSER	90 CFM	150 CFM	0.03 in-wg	CEILING	20"x20"	8" Ø	-	NONE	WHITE	1,2
SD-23	SQUARE CONE DIFFUSER	113 CFM	290 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	2
SD-24	SQUARE CONE DIFFUSER	113 CFM	290 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	2
SD-25	SQUARE CONE DIFFUSER	60 CFM	120 CFM	0.06 in-wg	CEILING	12"x12"	6" Ø	-	NONE	WHITE	1,2
SD-26	SQUARE CONE DIFFUSER	125 CFM	240 CFM	0.05 in-wg	CEILING	20"x20"	8" Ø	18	NONE	WHITE	1
SD-27	SQUARE CONE DIFFUSER	20 CFM	20 CFM	0.01 in-wg	CEILING	12"x12"	4" Ø	-	NONE	WHITE	1,2
SD-28	SQUARE CONE DIFFUSER	143 CFM	350 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	17	NONE	WHITE	---
SD-29	SQUARE CONE DIFFUSER	143 CFM	350 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	17	NONE	WHITE	---
SD-30	SQUARE CONE DIFFUSER	120 CFM	320 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	2
SD-31	SQUARE CONE DIFFUSER	115 CFM	310 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	2
SD-32	SQUARE CONE DIFFUSER	75 CFM	75 CFM	0.04 in-wg	CEILING	12"x12"	5" Ø	-	NONE	WHITE	1,2
SD-33	SQUARE CONE DIFFUSER	75 CFM	75 CFM	0.04 in-wg	CEILING	12"x12"	5" Ø	-	NONE	WHITE	1,2
SD-34	SQUARE CONE DIFFUSER	210 CFM	210 CFM	0.05 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	2
SD-35	SQUARE CONE DIFFUSER	100 CFM	245 CFM	0.07 in-wg	CEILING	24"x24"	8" Ø	19	NONE	WHITE	---
SD-36	SQUARE CONE DIFFUSER	85 CFM	250 CFM	0.07 in-wg	CEILING	24"x24"	8" Ø	19	NONE	WHITE	---
SG-1	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-2	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-3	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-4	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-5	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-6	LOUVERED SUPPLY GRILLE	500 CFM	500 CFM	0.09 in-wg	DUCT	14"x10"	14"x10"	22	NONE	WHITE	3
SG-7	LOUVERED SUPPLY GRILLE	90 CFM	90 CFM	0.06 in-wg	CEILING	6"x5"	6" Ø	-	NONE	WHITE	2,3
SG-8	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-9	LOUVERED SUPPLY GRILLE	20 CFM	20 CFM	0.02 in-wg	CEILING	6"x5"	4" Ø	-	NONE	WHITE	2,3
SG-10	LOUVERED SUPPLY GRILLE	235 CFM	235 CFM	0.09 in-wg	CEILING	16"x4"	16"x4"	19	NONE	WHITE	3
SG-11	LOUVERED SUPPLY GRILLE	235 CFM	235 CFM	0.09 in-wg	CEILING	16"x4"	16"x4"	19	NONE	WHITE	3
SG-12	LOUVERED SUPPLY GRILLE	240 CFM	240 CFM	0.09 in-wg	CEILING	16"x4"	16"x4"	19	NONE	WHITE	3
SG-13	LOUVERED SUPPLY GRILLE	240 CFM	240 CFM	0.09 in-wg	CEILING	16"x4"	16"x4"	19	NONE	WHITE	3
SG-14	LOUVERED SUPPLY GRILLE	55 CFM	55 CFM	0.03 in-wg	CEILING	6"x5"	5" Ø	-	NONE	WHITE	2,3

NOTES:

1. DIFFUSER TO BE PLACED IN A 24"x24" LAY IN PANEL.
2. NC LEVEL LESS THAN 15
3. SET LOUVERED SUPPLY GRILLE DEFLECTION TO 22-1/2 DEGREES.

AIR DEVICE SCHEDULE (EXHAUST)

MARK	TYPE	AIRFLOW MIN	AIRFLOW MAX	MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK/DUCT CONNECTION SIZE	NC	DAMPER	FINISH	REMARKS
EG-1	LOUVERED RETURN GRILLE	500 CFM	500 CFM	0.07 in-wg	CEILING	16"x12"	16"x12"	25	NONE	WHITE	---
EG-2	LOUVERED RETURN GRILLE	145 CFM	145 CFM	0.04 in-wg	CEILING	8"x8"	8" Ø	15	NONE	WHITE	---
EG-3	LOUVERED RETURN GRILLE	110 CFM	110 CFM	0.07 in-wg	CEILING	8"x6"	6" Ø	20	NONE	WHITE	---
EG-4	LOUVERED RETURN GRILLE	85 CFM	85 CFM	0.07 in-wg	CEILING	6"x6"	6" Ø	19	NONE	WHITE	---
EG-5	PERFORATED DIFFUSER	165 CFM	165 CFM	0.04 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
EG-6	PERFORATED DIFFUSER	267 CFM	700 CFM	0.08 in-wg	CEILING	24"x24"	12"x12"	-	NONE	WHITE	1
EG-7	PERFORATED DIFFUSER	267 CFM	700 CFM	0.08 in-wg	CEILING	24"x24"	12"x12"	-	NONE	WHITE	1
EG-8	PERFORATED DIFFUSER	267 CFM	700 CFM	0.08 in-wg	CEILING	24"x24"	12"x12"	-	NONE	WHITE	1
EG-9	LOUVERED RETURN GRILLE	95 CFM	95 CFM	0.07 in-wg	CEILING	7"x6"	6" Ø	20	NONE	WHITE	---

NOTES:

1. NC LEVEL LESS THAN 15.

AIR DEVICE SCHEDULE (RETURN)

MARK	TYPE	AIRFLOW MIN	AIRFLOW MAX	MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	DAMPER	FINISH	REMARKS
RG-1	PERFORATED DIFFUSER	150 CFM	205 CFM	0.06 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-2	PERFORATED DIFFUSER	150 CFM	205 CFM	0.06 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-3	PERFORATED DIFFUSER	150 CFM	205 CFM	0.06 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-4	PERFORATED DIFFUSER	195 CFM	310 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-5	PERFORATED DIFFUSER	95 CFM	95 CFM	0.04 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-6	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-7	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-8	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-9	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-10	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-11	PERFORATED DIFFUSER	75 CFM	135 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-12	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-13	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-14	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-15	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-16	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-17	PERFORATED DIFFUSER	75 CFM	125 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-18	PERFORATED DIFFUSER	185 CFM	380 CFM	0.08 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-19	PERFORATED DIFFUSER	170 CFM	310 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-20	PERFORATED DIFFUSER	155 CFM	155 CFM	0.04 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-21	PERFORATED DIFFUSER	170 CFM	170 CFM	0.04 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-22	LOUVERED RETURN GRILLE	230 CFM	230 CFM	0.04 in-wg	CEILING	18"x6"	18"x6"	16	NONE	WHITE	---
RG-23	LOUVERED RETURN GRILLE	230 CFM	230 CFM	0.04 in-wg	CEILING	18"x6"	18"x6"	16	NONE	WHITE	---
RG-24	LOUVERED RETURN GRILLE	230 CFM	230 CFM	0.04 in-wg	CEILING	18"x6"	18"x6"	16	NONE	WHITE	---
RG-25	LOUVERED RETURN GRILLE	230 CFM	230 CFM	0.04 in-wg	CEILING	18"x6"	18"x6"	16	NONE	WHITE	---
RG-26	PERFORATED DIFFUSER	225 CFM	580 CFM	0.06 in-wg	CEILING	24"x24"	14" Ø	-	NONE	WHITE	1
RG-27	PERFORATED DIFFUSER	60 CFM	120 CFM	0.08 in-wg	CEILING	24"x12"	6" Ø	-	NONE	WHITE	1
RG-28	PERFORATED DIFFUSER	125 CFM	240 CFM	0.08 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-29	PERFORATED DIFFUSER	195 CFM	195 CFM	0.06 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-30	PERFORATED DIFFUSER	120 CFM	320 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-31	PERFORATED DIFFUSER	115 CFM	310 CFM	0.06 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-32	PERFORATED DIFFUSER	150 CFM	150 CFM	0.04 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-33	PERFORATED DIFFUSER	100 CFM	245 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-34	PERFORATED DIFFUSER	130 CFM	255 CFM	0.04 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1
RG-35	PERFORATED DIFFUSER	155 CFM	185 CFM	0.06 in-wg	CEILING	24"x24"	8" Ø	-	NONE	WHITE	1
RG-36	PERFORATED DIFFUSER	75 CFM	330 CFM	0.08 in-wg	CEILING	24"x24"	10" Ø	-	NONE	WHITE	1

NOTES:

1. NC LEVEL LESS THAN 15.

AIR DEVICE SCHEDULE (LINEAR)

MARK	TYPE	AIRFLOW MIN	AIRFLOW MAX	MAX APD	THROW MIN	THROW MAX	# OF SLOTS	SLOT WIDTH	PANEL/FRAME SIZE	NECK SIZE	THROW PATTERN	THROW TYPE	NC	DAMPER	FINISH	REMARKS
LSD-1	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-2	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-3	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-4	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-5	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-6	LINEAR	75 CFM	135 CFM	0.03 in-wg	6' - 2"	11' - 0"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-7	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-8	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-9	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-10	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-11	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-12	LINEAR	75 CFM	125 CFM	0.03 in-wg	6' - 4"	10' - 6"	3	1/2"	48"x4"	6" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-13	LINEAR	128 CFM	375 CFM	0.02 in-wg	4' - 9"	14' - 0"	4	3/4"	72"x7"	10" Ø	2 WAY	VERTICAL	18	NONE	WHITE	---
LSD-14	LINEAR	128 CFM	375 CFM	0.02 in-wg	4' - 9"	14' - 0"	4	3/4"	72"x7"	10" Ø	2 WAY	VERTICAL	18	NONE	WHITE	---
LSD-15	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-16	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-17	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-18	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-19	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-20	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-21	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LSD-22	LINEAR	89 CFM	180 CFM	0.03 in-wg	7' - 4"	15' - 0"	3	1/2"	48"x4"	8" Ø	2 WAY	VERTICAL	16	NONE	WHITE	---
LRD-1	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-2	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-3	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-4	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-5	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-6	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-7	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-8	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1
LRD-9	LINEAR	74 CFM	150 CFM	0.03 in-wg	N/A	N/A	3	1/2"	48"x4"	8" Ø	1 WAY	VERTICAL	-	NONE	WHITE	1

NOTES:

1. NC LEVEL LESS THAN 15.

FAN SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIRFLOW	TSP	FAN TYPE	FAN WHEEL	FAN CLASS	FAN ARRANGEMENT, ROTATION, AND DISCHARGE	FAN DIAMETER	FAN MIN % EFF	FAN DRIVE	FAN MAX RPM	MOTOR ELECTRICAL NOMINAL POWER BHP	MOTOR ELECTRICAL NOMINAL POWER HP	MOTOR ELECTRICAL PHASE	MOTOR ELECTRICAL VOLT	MOTOR ELECTRICAL RPM	MOTOR ELECTRICAL SPEED CONTROL	CONTROL SEQUENCE	REMARKS
4-SF-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	7400 CFM	7.14 in-wg	PLENUM	AF	II	---	22"	54.4%	BELT	2248	15.36	20	3	460	1800	VARIABLE	---	3
4-SF-2	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	4600 CFM	7.18 in-wg	CENTRIFUGAL	AF		---	15"	52.0%	BELT	2746	7.52	10	3	460	1800	VARIABLE	---	3
4-RF-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	7900 CFM	4.34 in-wg	PLENUM	AF	II	---	22"	53.9%	BELT	1904	9.99	15	3	460	1800	VARIABLE	---	---
4-RF-2	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	4600 CFM	3.47 in-wg	CENTRIFUGAL	AF		---	15"	64.4%	BELT	2091	3.90	5	3	460	1800	VARIABLE	---	---
4-EF-1	4-144	4-144	BATHROOM EXHAUST	105 CFM	0.20 in-wg	CEILING EXHAUST	FC	---	---	---	---	DIRECT	950	---	---	1	115	950	CONSTANT	---	---
4-EF-2	4-145	4-145	BATHROOM EXHAUST	105 CFM	0.20 in-wg	CEILING EXHAUST	FC	---	---	---	---	DIRECT	950	---	---	1	115	950	CONSTANT	---	---
4-EF-3	4-153	4-153	BATHROOM EXHAUST	100 CFM	0.20 in-wg	CEILING EXHAUST	FC	---	---	---	---	DIRECT	950	---	---	1	115	950	CONSTANT	---	---
4-EF-4	ROOFTOP	4-155, 4-158, & 4-162	GENERAL EXHAUST	360 CFM	0.50 in-wg	DOWNBLAST	BI	I	---	---	47%	DIRECT	1434	.06	1/6	1	115	1725	CONSTANT	---	---
4-EF-5	C4-10	C4-10	BATHROOM EXHAUST	95 CFM	0.20 in-wg	CEILING EXHAUST	FC	---	---	---	---	DIRECT	950	---	---	1	115	950	CONSTANT	---	---
4-EF-6	C4-11	C4-11	BATHROOM EXHAUST	95 CFM	0.20 in-wg	CEILING EXHAUST	FC	---	---	---	---	DIRECT	950	---	---	1	115	950	CONSTANT	---	---
4-EF-7	C4-08	C4-04 & C4-08	GENERAL EXHAUST	2100 CFM	0.25 in-wg	CENTRIFUGAL	BI	I	INLINE	---	24%	DIRECT	1215	0.35	3/4	1	115	1150	VARIABLE	---	---

NOTES:

1. INSTALL ALL FANS PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL VARIABLE SPEED FANS SHALL BE SUPPLIED WITH A VSMC. VSMC'S OPERATING EQUIPMENT LOCATED ON THE ROOF SHALL BE MOUNTED INSIDE EITHER THE MECHANICAL OR ELECTRICAL ROOMS. ELECTRICAL CONTRACTOR SHALL INSTALL THE VSMC SUPPLIED BY THE MECHANICAL CONTRACTOR.
3. SUPPLY FANS SHALL BE ABLE TO DELIVER 105% OF THE AIRFLOW SCHEDULED.

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANICAL SCHEDLUES

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Approved: Project Director

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: JWM | Drawn: JMB2

Drawing Number: M-602

Dwg. 49 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

STEAM HEATING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATAION	AIRFLOW	MAX FACE VELOCITY	APD	EAT	LAT	TOTAL MIN CAPACITY	STEAM					REMARKS
											ENTERING CONT VALVE	ENTERING COIL	FLOW	STEAM TRAP		
														MARK	LBS/HR	
4-SHC-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	PREHEAT	7400 CFM	450 FPM	0.08 in-wg	40 °F	97 °F	451400.0 Btu/h	15 PSI	5 PSI	509.6 LBS/HR	4-ST-1	770	---
4-SHC-2	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	PREHEAT	4600 CFM	670 FPM	0.20 in-wg	41 °F	94 °F	262000.0 Btu/h	15 PSI	5 PSI	304.5 LBS/HR	4-ST-2	470	---

STEAM TRAP SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	CAPACITY AT MIN. DIFF. PRESSURE	MIN. DIFF. PRESSURE	MIN. INLET PRESSURE	TRAP TYPE	TRAP SIZE	REMARKS
4-ST-1	MECHANICAL PENTHOUSE #1	4-AHU-1	770 LBS/HR	0.5 PSI	30 PSI	F&T	1-1/4"	---
4-ST-2	ROOFTOP	4-AHU-2	470 LBS/HR	0.5 PSI	30 PSI	F&T	1"	---
4-ST-3	MECHANICAL PENTHOUSE #1	CLEAN STEAM	470 LBS/HR	30 PSI	30 PSI	F&T	1"	---

CHILLED WATER COOLING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIRFLOW	MAX FACE VELOCITY	APD	EAT		LAT		TOTAL CAPACITY	SENSIBLE CAPACITY	CHILLED WATER				REMARKS
							DB	WB	DB	WB			FLOW	EWT	LWT	WPD	
4-CC-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	7400 CFM	450 FPM	0.36 in-wg	79 °F	66 °F	53 °F	52 °F	293400.0 Btu/h	200000.0 Btu/h	49 GPM	42 °F	54 °F	3.20 FT	---
4-CC-2	ROOFTOP	4TH FLOOR ONCOLOGY	4-AHU-2	4600 CFM	460 FPM	0.37 in-wg	76 °F	63 °F	52 °F	51 °F	143800.0 Btu/h	115600.0 Btu/h	24 GPM	42 °F	54 °F	2.20 FT	---

ROTARY AIR TO AIR HEAT RECOVERY WHEEL SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE5	MODE	SUPPLY AIR						EFFECTIVENESS	EXHAUST AIR				ROTOR MOTOR			REMARKS
						EAT		LAT					EAT					
				AIRFLOW	APD	DB	WB	DB	WB		AIRFLOW	APD	DB	WB	HP	PHASE	VOLTAGE	
4-RAHX-1	MECHANICAL PENTHOUSE #1	4-AHU-1	SUMMER	4070 CFM	0.86 in-wg	88.9 °F	72.1 °F	80.5 °F	67.1 °F	64.94 %	3620 CFM	0.77 in-wg	75.0 °F	63.0 °F	0.167	3	460	---
4-RAHX-1	MECHANICAL PENTHOUSE #1	4-AHU-1	WINTER	4070 CFM	0.86 in-wg	3.5 °F	1.0 °F	41.4 °F	35.2 °F	66.61 %	3620 CFM	0.77 in-wg	70.0 °F	54.0 °F	0.167	3	460	---

STEAM HUMIDIFER SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFER TYPE	AIRFLOW	# OF MANIFOLDS	EAT	EAT	EAT	LAT DEWPOINT	SOURCE	STEAM	STEAM	STEAM	REMARKS
						DB	WB	DEWPOINT			PRESS. ENT. VALVE	PRESS. ENT. HEATER	FLOW	
4-H-1	MECHANICAL PENTHOUSE #1	4-AHU-1	UNIT-MOUNTED DISPERSION TUBE	7400 CFM	1	98 °F	60 °F	23 °F	48 °F	4-SSHX-1	15 PSI	15 PSI	143 LBS/HR	---

CLEAN STEAM GENERATOR SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	SOURCE OF MAKEUP	WATER CONDITIONS		PRODUCED STEAM FLOW	PRODUCED STEAM PRESSURE	STEAM PRESSURE		CONTROL VALVE	TRAP			REMARKS
						FLOW	EWT			ENT. CONTROL	ENT. HEAT EXCHANGER		MARK	#	CAPACITY	
4-SSHX-1	MECHANICAL PENTHOUSE #1	4TH FLOOR ONCOLOGY	4-AHU-1	STEAM TO STEAM	POTABLE	0.35 GPM	50 °F	175 LBS/HR	15 PSI	15 PSI	15 PSI	N/A	4-ST-4	1	470	---

INTAKE/EXHAUST HOOD SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE	AIRFLOW	APD	DAMPER TYPE	REMARKS
4-EH-1	ROOF	AC-1	EXHAUST	GRAVITY	48x24	5020 CFM	0.06 in-wg	BACKDRAFT	1
4-EH-2	ROOF	4-AHU-1	EXHAUST	GRAVITY	42x42	7900 CFM	0.06 in-wg	BACKDRAFT	1

NOTES:

1. MOUNT ON 14" HIGH ROOF CURB.

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Project Number	Scale
3541	As indicated

Drawing Title: MECHANICAL SCHEDULES

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: JWM | Drawn: JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: M-603

Dwg. 50 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

ELECTRICAL LEGEND

	120V DUPLEX RECEPTACLE: 18" AFF STANDARD, UNO
A	120V DUPLEX RECEPTACLE: 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
GFI	120V DUPLEX RECEPTACLE: GFI 18" AFF STANDARD, UNO
GFI A	120V DUPLEX RECEPTACLE: GFI 3" ABOVE COUNTER TOP/COUNTER TOP BACK SPLASH
GFI WP	120V DUPLEX RECEPTACLE: WEATHERPROOF GFI
R GFI	120V DEDICATED DUPLEX RECEPTACLE: REFRIGERATOR GFI 18" AFF STANDARD UNO
M	120V DEDICATED DUPLEX RECEPTACLE: MICROWAVE
IM	120V DEDICATED DUPLEX RECEPTACLE: ICE MACHINE
GFI WC	120V DEDICATED DUPLEX RECEPTACLE: WATER COOLER
	120V DUPLEX RECEPTACLE EMERGENCY: 18" AFF STANDARD, UNO
GFI	120V DUPLEX RECEPTACLE EMERGENCY: GFI 18" AFF STANDARD, UNO
	120V QUADRUPLEX RECEPTACLE: 18" AFF STANDARD, UNO
A	120V QUADRUPLEX RECEPTACLE: 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
GFI	120V QUADRUPLEX RECEPTACLE: GFI 18" AFF STANDARD, UNO
GFI A	120V QUADRUPLEX RECEPTACLE: GFI 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
	120V QUADRUPLEX RECEPTACLE EMERGENCY: 18" AFF STANDARD, UNO
A	120V QUADRUPLEX RECEPTACLE EMERGENCY: 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
GFI	120V QUADRUPLEX RECEPTACLE EMERGENCY: GFI 18" AFF STANDARD, UNO
GFI A	120V QUADRUPLEX RECEPTACLE EMERGENCY: GFI 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
J	JUNCTION BOX PURPOSE AS NOTED
J	JUNCTION BOX IN WALL PURPOSE AS NOTED: 18" AFF STANDARD UNO
	DISCONNECT SWITCH NON-FUSED
	DISCONNECT SWITCH FUSED
	DATA/TELCO OUTLET: 18" AFF STANDARD UNO
A	DATA/TELCO OUTLET: 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
	DATA OUTLET: 18" AFF STANDARD UNO
	WALL TELCO OUTLET: 48" AFF STANDARD UNO
TV	TELEVISION - COAX AND DATA FOR GET WELL TV SYSTEM
$	SINGLE POLE WALL SWITCH: 44" AFF STANDARD UNO
$ $	TWO GANG SINGLE POLE WALL SWITCH: 44" AFF STANDARD UNO
$3	THREE WAY WALL SWITCH: 44" AFF STANDARD UNO
3 $ $ 3	TWO GANG THREE WAY WALL SWITCH: 44" AFF STANDARD UNO
$4	FOUR WAY WALL SWITCH: 44" AFF STANDARD UNO
$M	MOTOR RATED SWITCH: 44" AFF STANDARD UNO
$K	KEY OPERATED WALL SWITCH: 44" AFF STANDARD UNO
$K3	KEY OPERATED THREE WAY WALL SWITCH: 44" AFF STANDARD UNO
$OC	OCCUPANCY SENSOR DUAL TECHNOLOGY WALL SWITCH: 44" AFF STANDARD UNO
M	OCCUPANCY SENSOR DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED
	OCCUPANCY SENSOR DUAL TECHNOLOGY LOW VOLTAGE SWITCH PAK
CR	CARD READER
KP	KEY PAD
DH	DOOR HOLD OPEN
S	SPEAKER
B	BELL
	CAMERA
PB	CODE WHITE DURESS PUSH BUTTON
P	CODE WHITE DURESS ALARM BUTTON: 40" AFF UNO
P A	CODE WHITE DURESS ALARM BUTTON: 3" ABOVE COUNTER TOP/COUNTER TOP BACKSPLASH
N	NURSE CALL DOME LIGHT
N	NURSE CALL STATION: 54" AFF UNO
N D	NURSE CALL DUTY STATION: 54" AFF UNO
N S	NURSE CALL STAFF/PATIENT STATION WITH OPTIONAL PILLOW SPEAKER PLUG IN CONTROL: 54" AFF UNO
N M	NURSE CALL MASTER STATION
N E	EMERGENCY NURSE CALL: 40" AFF UNO. FOR SHOWER INSTALLATIONS MOUNT WITHIN 18" OF SHOWER HEAD AND OR 72" AFF
CB	CODE BLUE PUSH BUTTON
TC	ELAPSED TIME CLOCK
NW	NURSE CALL WIRELESS PAGING SYSTEM ACCESS POINT MOUNTED TO CEILING

ABBREVIATIONS

1PH	SINGLE-PHASE
1P	SINGLE POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
4/C	FOUR-CONDUCTOR
4W	FOUR-WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCYCONTROL, OR AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB OR A	AMBIENT
AMP	AMPERE
ARCH	ARCHITECT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BIL	BASIC INSULATION LEVEL
BLDG	BUILDING
BPIP	BOILER PLANT INTRUMENTATION PANEL
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DISTR PL	DISTRIBUTION PANEL
DMR SW	DIMMER SWITCH
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMCP	EMERGENCY MONITORING CONTROL PANEL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
ESMT	EASMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX, EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABL	FIRE ALARM BELL
FABX	FIRE ALARM BOX
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FLT	FLOODLIGHT
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G OR GND	GROUND
GEN	GENERATOR
GFCI	GROUNFD FAULT CIRCUIT INTERRUPTOR
GTB	GROUND TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
kwHM	KILOWATT HOUR METER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTAR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MINIMUM CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRASNFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLTAMPERE
MW	MEGAWATT MICROWAVE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SCC	SHORT CIRCUIT CAPACITY
SES	SERVICE ENTRANCE SECTION
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIMECLOCK
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISON
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLAT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM HORN/STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	FIRE ALARM STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	FIRE ALARM STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF.
	FIRE ALARM HORN/STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF.
F	MANUAL FIRE ALARM PULL STATION TO BE LOCATED WITHIN 5'-0" OF THE EXIT DOORWAY OPENING. MIN. 42" AFF, MAX. 48" AFF.
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
S	SMOKE DETECTOR
H	HEAT DETECTOR
	SMOKE DUCT DETECTOR
FS	FLOW SWITCH
TS	TAMPER SWITCH
SD	SMOKE DAMPER

GENERAL NOTES

1. ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICAN DISABILITIES ACT AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES.
4. VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
5. PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
6. BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
7. COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFILCT DURING ONSTRUCTION.
8. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
9. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT".
10. ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MAUNFACTURER'S SPECIFICATIONS.
11. CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
12. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
13. ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREE C.
14. ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
15. ALL CONDUIT SHALL BE RGS, EMT, OR LFMC UNLESS OTHERWISE NOTED. FMC CONDUIT MAY BE USED ON VIBRATING EQUIPMENT.
16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
17. DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, TIED INTO FIRE ALARM BY ELECTRICAL CONTRACTOR, AND TIED INTO BAS BY CONTROLS CONTRACTOR.

BUILDING CODE DATA

ELECTRICAL SYSTEM AND EQUIPMENT — ENERGY COST BUDGET

METHOD OF COMPLIANCE: PRESCRIPTIVE — PERFORMACE

LIGHTING SCHEDULE
- LAMP TYPE REQUIRED IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
- NUMBER OF LAMPS IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
- BALLAST TYPE USED IN THE FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
- NUMBER OF BALLASTS IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
- TOTAL WATTAGE PER FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE
- TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 11,212 W SPECIFIED VS. 15,696 W ALLOWED
- TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: N/A

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)
- MOTOR HORSEPOWER: N/A
- NUMBER OF PHASES: N/A
- MINIMUM EFFICIENCY: N/A
- MOTOR TYPE: N/A
- NUMBER OF POLES: N/A

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF ANSI/ASHRAE/IESNA STANDARD 90.1-2007.

NAME: CHARLES G. SOWDERS III
TITLE: PROFESSIONAL ENGINEER

LIGHT FIXTURE SCHEDULE

SYMBOL	LABEL	# OF LAMPS	TYPE OF LAMP	BALLAST	WATTS/ FIXTURE	VOLTAGE	DESCRIPTION
	A2	2	28W T5 4000K	1 PROGRAM START 1.0 BF	64	120	2' X 4' RECESSED DIRECT/INDIRECT FLUORESCENT
	A3	3	28W T5 4000K	2 PROGRAM START 1.0 BF	95	120	2' X 4' RECESSED DIRECT/INDIRECT FLUORESCENT
	A4	4	28W T5 4000K	2 RAPID START DIMMING 1.0 BF	126	120	2' X 4' RECESSED DIRECT/INDIRECT FLUORESCENT WITH SIDE MOUNT DIFFUSERS AND DIMMING BALLASTS
	B2	2	14W T5 4000K	1 PROGRAM START 1.0 BF	32	120	2' X 2' RECESSED DIRECT/INDIRECT FLUORESCENT
	B3	3	14W T5 4000K	1 PROGRAM START 1.0 BF	50	120	2' X 2' RECESSED DIRECT/INDIRECT FLUORESCENT
	C2	2	28W T5 4000K	1 PROGRAM START 1.0 BF	64	120	2' X 4' RECESSED PRISMATIC LENSED TROFFER FLUORESCENT
	C3	3	28W T5 4000K	2 PROGRAM START 1.0 BF	95	120	2' X 4' RECESSED PRISMATIC LENSED TROFFER FLUORESCENT
	D2	2	14W T5 4000K	1 PROGRAM START 1.0 BF	32	120	2' X 2' RECESSED PRISMATIC LENSED TROFFER FLUORESCENT
	D3	3	14W T5 4000K	1 PROGRAM START 1.0 BF	50	120	2' X 2' RECESSED PRISMATIC LENSED TROFFER FLUORESCENT
	E	2	28W T5 4000K	1 PROGRAM START	62	120	4' FLUORESCENT STRIP LIGHT
	EXA	LED	LED	---	1	120	SINGLE-FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR
	EXB	LED	LED	---	1	120	DOUBLE FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR
	F	1	26W TRT 4000K	1 PROGRAM START	29	120	6" OPEN RECESSED HORIZONTAL COMPACT FLUORESCENT DOWNLIGHT
	G	1	LED 4000K	1 LED DRIVER	5	120	5" DECORATIVE RECESSED LED DOWNLIGHT WITH FROSTED DROP LENS AND 48 DEGREE BEAM ANGLE
	H	1	LED 4000K	1 LED DRIVER	12	120	DECORATIVE LED PENDENT WITH WHITE GLASS DIFFUSER
N/A	I	LED	LED 4000K	1 LED DRIVER	8 W/FT	120	LINEAR LED SOFFIT LIGHT. COORDINATE SIZE, LENGTHS AND MOUNTING WITH ARCHITECTURAL DRAWINGS.
N/A	J	1 OR 2	T5 4000K	1 INSTANT START	8 W/FT	120	LINEAR FLUORESCENT UNDERCABINET LIGHT. COORDINATE LENGTHS AND MOUNTING WITH CABINETRY AND ARCHITECTURAL DRAWINGS.
	K	2	14W T5 4000K	1 PROGRAM START 1.0 BF	32	120	2' LINEAR FLUORESCENT WALL BRACKET
	L	1	28W T5 4000K	1 PROGRAM START 1.0 BF	32	120	4' RECESSED FLUORESCENT WALL WASH
	M	1	26W CFL 4000K	1 PROGRAM START	29	120	DECORATIVE HORIZONTAL COMPACT FLUORESCENT WALL SCONCE WITH WHITE OPAL GLASS DIFFUSER
	N	LED	LED 4000K	1 LED DRIVER	60	24	LINEAR LED LIGHT BOX WITH 120 VOLT POWER SUPPLY. COORDINATE SIZE, LENGTHS AND MOUNTING WITH ARCHITECT
	O	1	28W T5 4000K	1 PROGRAM START 1.0 BF	32	120	4' RECESSED FLUORESCENT WITH FLUSH FROSTED LENS COMPATIBLE WITH TECHZONE CEILING SYSTEM
	O2	2	28W T5 4000K	1 PROGRAM START 1.0 BF	64	120	4' RECESSED FLUORESCENT WITH FLUSH FROSTED LENS COMPATIBLE WITH TECHZONE CEILING SYSTEM

NOTES:
1. EM - EMERGENCY LIGHT (CIRCUITED FROM NORMAL AND EMERGENCY BACK-UP POWER).
   EM NL - UN-SWITCHED NIGHT LIGHT (CIRCUITED FROM EMERGENCY POWER).
3. ALL FLUORESCENT LIGHT FIXTURES MUST HAVE INDIVIDUAL DISCONNECTING MEANS LOCATED AT EACH FIXTURE.
4. ALL LIGHTING SHALL BE DAYLIGHT COLOR SPECTRUM.
5. VERIFY ALL LIGHT FIXTURE MOUNTING TYPES AND COLORS WITH ARCHITECT.

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHARLES G. SOWDERS III — 4/17/13

PROJECT MANAGER:
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Project Number	Scale
3541	As indicated

Drawing Title: ELECTRICAL NOTES, ABBREVIATIONS, LEGENDS AND LIGHT FIXTURE SCHEDULE

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: SAE/WCM | Drawn: KLC

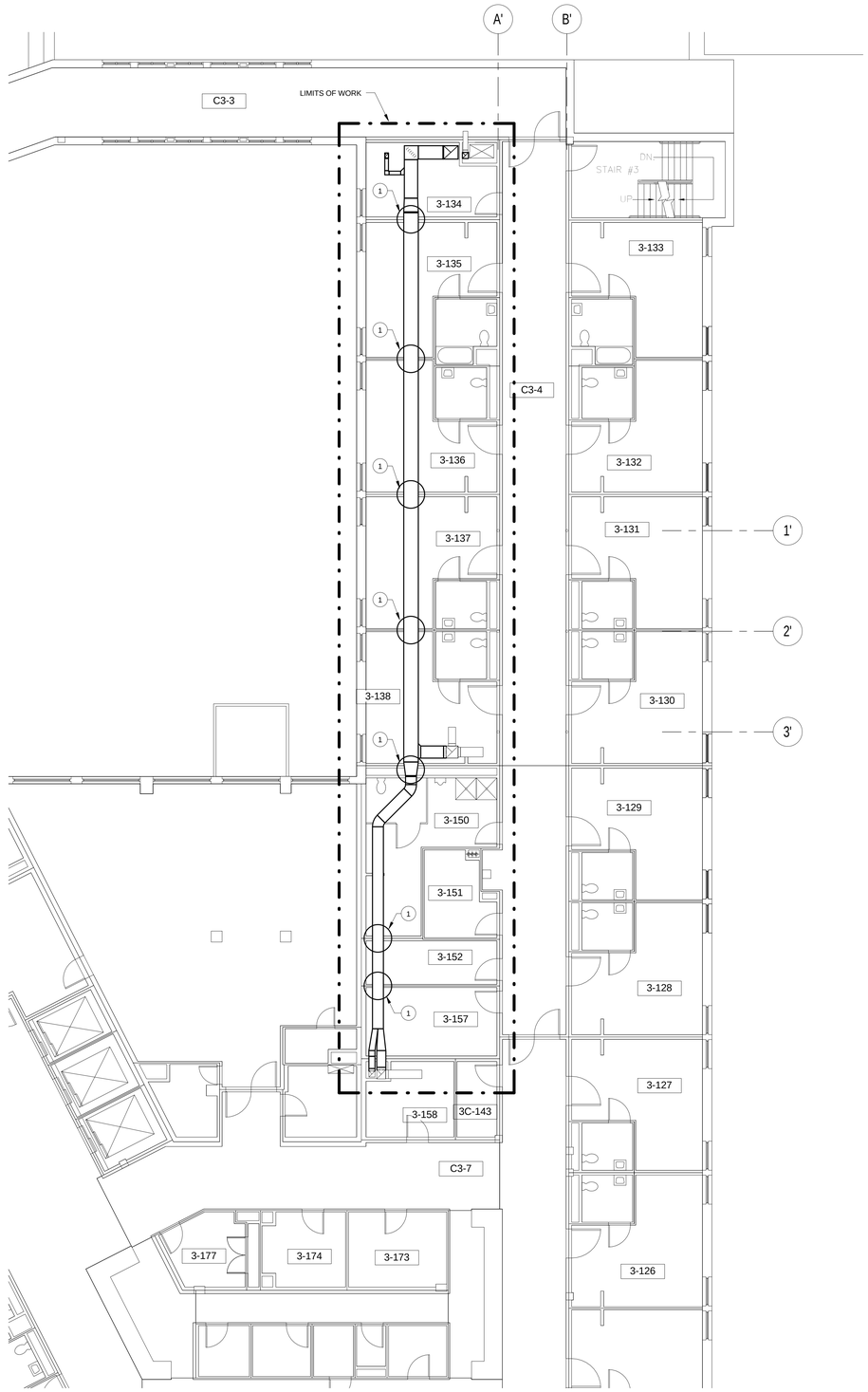
Drawing Number: E-001

Dwg. 51 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 3RD FLOOR ELECTRICAL PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

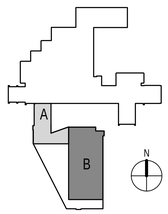
A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

B. VERIFY LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.

KEYED NOTES

1 IN AREA B ONLY ELECTRICAL CONTRACTOR SHALL RE-ROUTE ANY EXISTING CONDUITS IN WALLS WHERE NEW EXHAUST DUCT IS TO BE ROUTED. TYPICALLY THIS CONDUIT IS LOCATED IN THE EXISTING WALL SPACE AND FEEDS EXISTING BRANCH CIRCUITS AND LOW VOLTAGE SYSTEMS. REFERENCE SHEET MH131 AND COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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PE-71670
4/17/13

PROJECT MANAGER:

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Project Number	Scale
3541	As indicated

Drawing Title: PARTIAL 3RD FLOOR ELECTRICAL PLAN AREA B

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

VA Project Number: 693-11-122

Building Number: 1 & 27

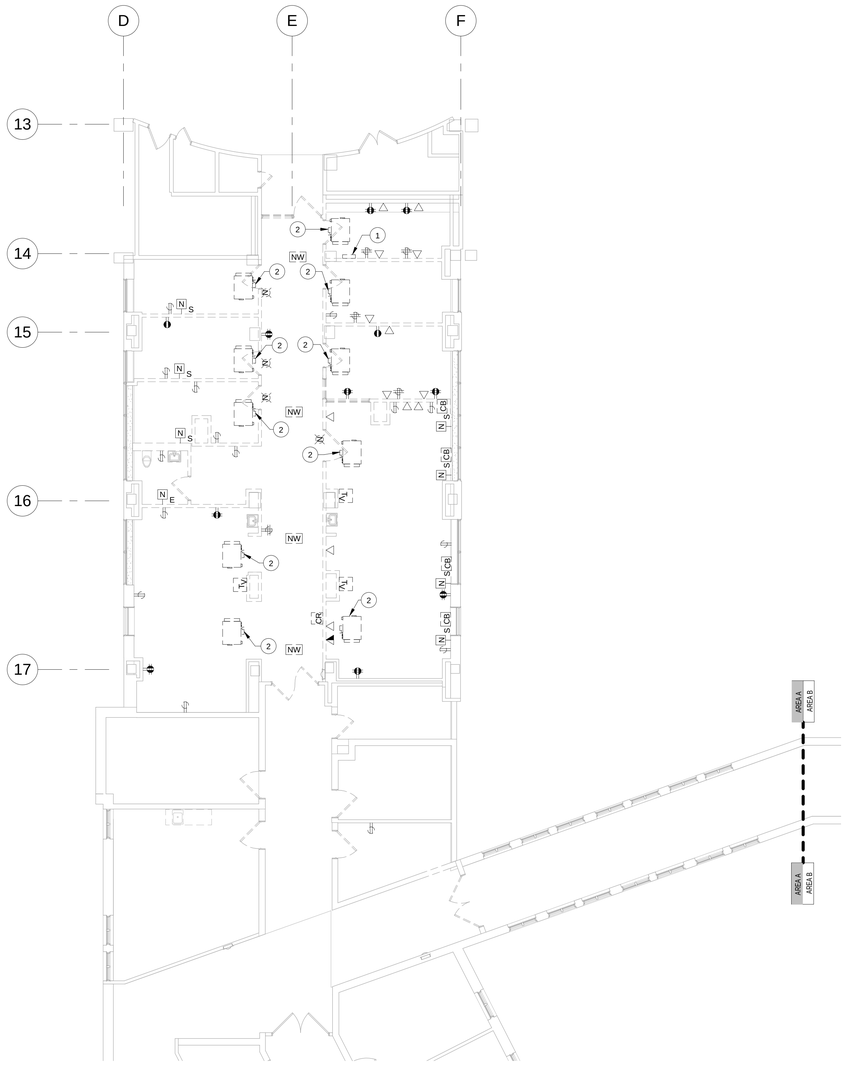
Drawing Number: E-131

Dwg. 52 of 79

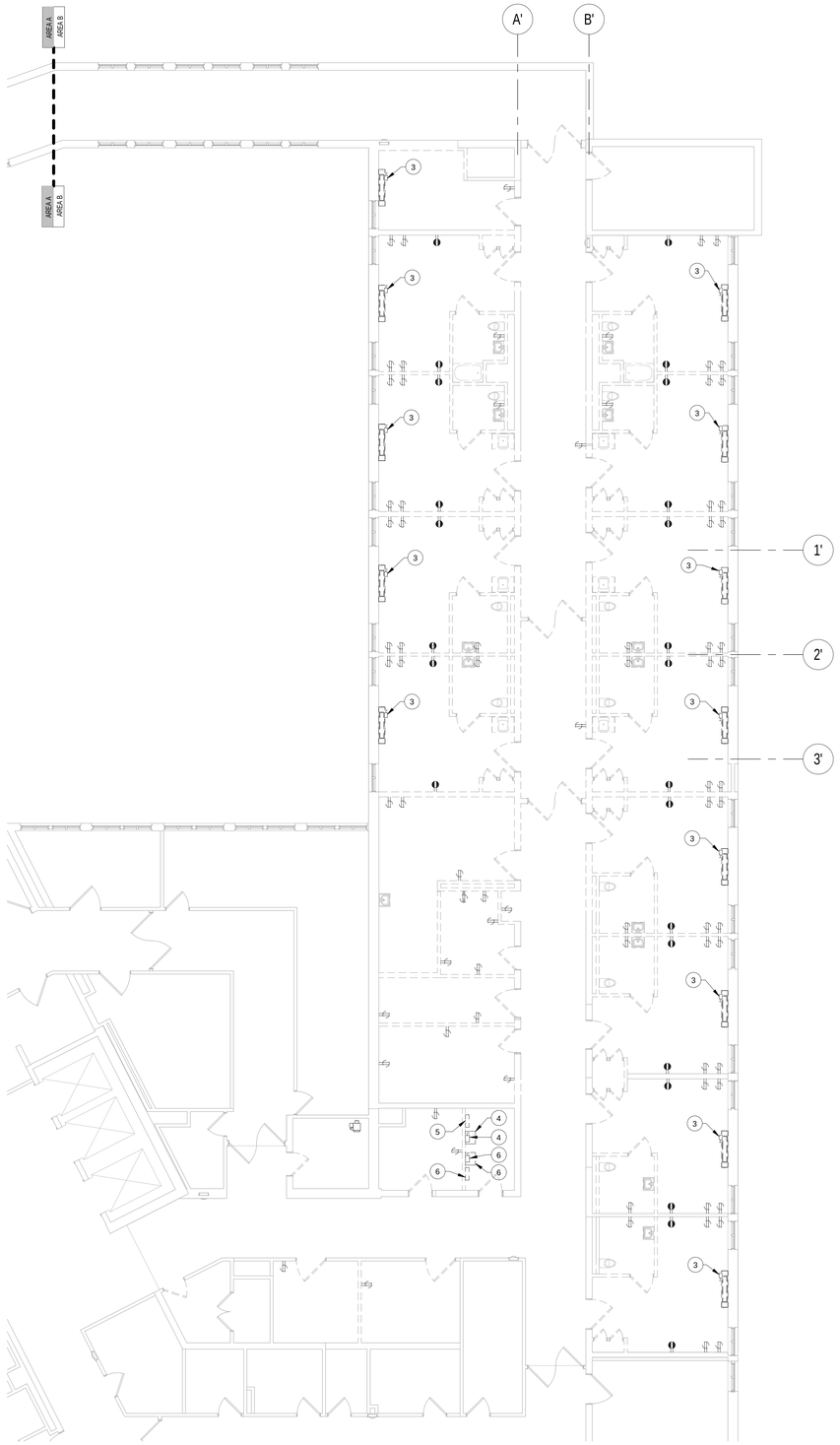
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



2 PARTIAL 4TH FLOOR POWER AND COMMUNICATIONS DEMOLITION PLAN AREA A
1/8" = 1'-0"



1 PARTIAL 4TH FLOOR POWER AND COMMUNICATIONS DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. DEMOLISH ALL ELECTRICAL CONDUCTORS AND CONDUIT BACK TO PANELBOARD FOR ALL DEVICES. MARK EXISTING UNUSED OVERCURRENT PROTECTION DEVICES AS "SPARE". REVISE PANEL SCHEDULES TO REFLECT NEW WIRING.

B. CONTRACTOR SHALL REUSE EXISTING FIRE ALARM DEVICES IF NOT DAMAGED DURING DEMOLITION.

C. CONTRACTOR SHALL NOT LEAVE ANY UNUSED ELECTRICAL DEVICES ABANDONED IN PLACE. ALL ELECTRICAL DEVICES MUST BE REMOVED.

D. EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.

E. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.

F. ALL ELECTRICAL SYSTEMS PASSING THROUGH THE CONSTRUCTION AREAS SHALL REMAIN IN SERVICE AT ALL TIMES. ALL SHUTDOWNS AND INTERRUPTIONS SHALL BE COORDINATED WITH THE VA AT LEAST TWO (2) WEEKS IN ADVANCE.

G. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION. DEVICES SHOWN ARE NOT ALL INCLUSIVE, CONTRACTOR SHALL VERIFY IN FIELD EXTENT OF ALL DEMOLITION.

H. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1 EXISTING PANEL 'W4L' TO BE RELOCATED. SEE 1/EP141 FOR NEW LOCATION.

2 DEMOLISH ELECTRICAL CONNECTIONS FOR EXISTING SUSPENDED FAN COIL UNIT.

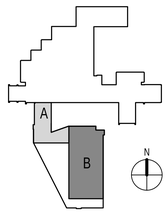
3 DEMOLISH ELECTRICAL CONNECTIONS FOR EXISTING FLOOR MOUNTED FAN COIL UNIT.

4 DEMOLISH EXISTING DISCONNECT T-3 ELS4-1 AND EXISTING TRANSFORMER T-3.

5 DISCONNECT AND RELOCATE EXISTING PANEL 'ELS4-1'. RE-FEED FROM NEW PANEL 'ELS4-2'. SEE ENLARGEMENT 2/E-401.

6 DISCONNECT AND RELOCATE EXISTING TRANSFORMER T-4, DISCONNECT T-4 EC4-1 AND PANEL 'EC4-1'. SEE ENLARGEMENT 2/E-401.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHARLES G. SOWDERS III — PE-72090-E — 4/17/13

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Fax (484) 429-1547

Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR POWER & COMMUNICATION DEMOLITION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: SAE/WCM | Drawn: KLC

VA Project Number: 693-11-122

Building Number: 1 & 27

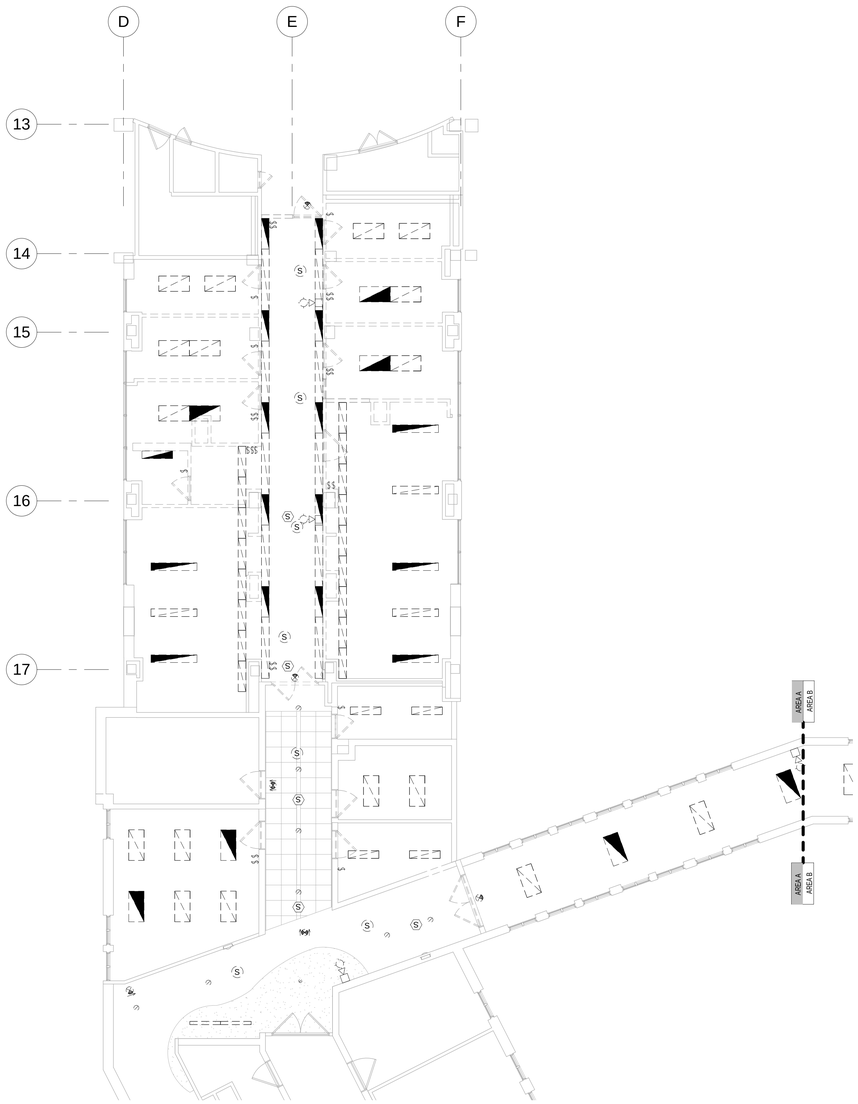
Drawing Number: ED141

Dwg. 53 of 79

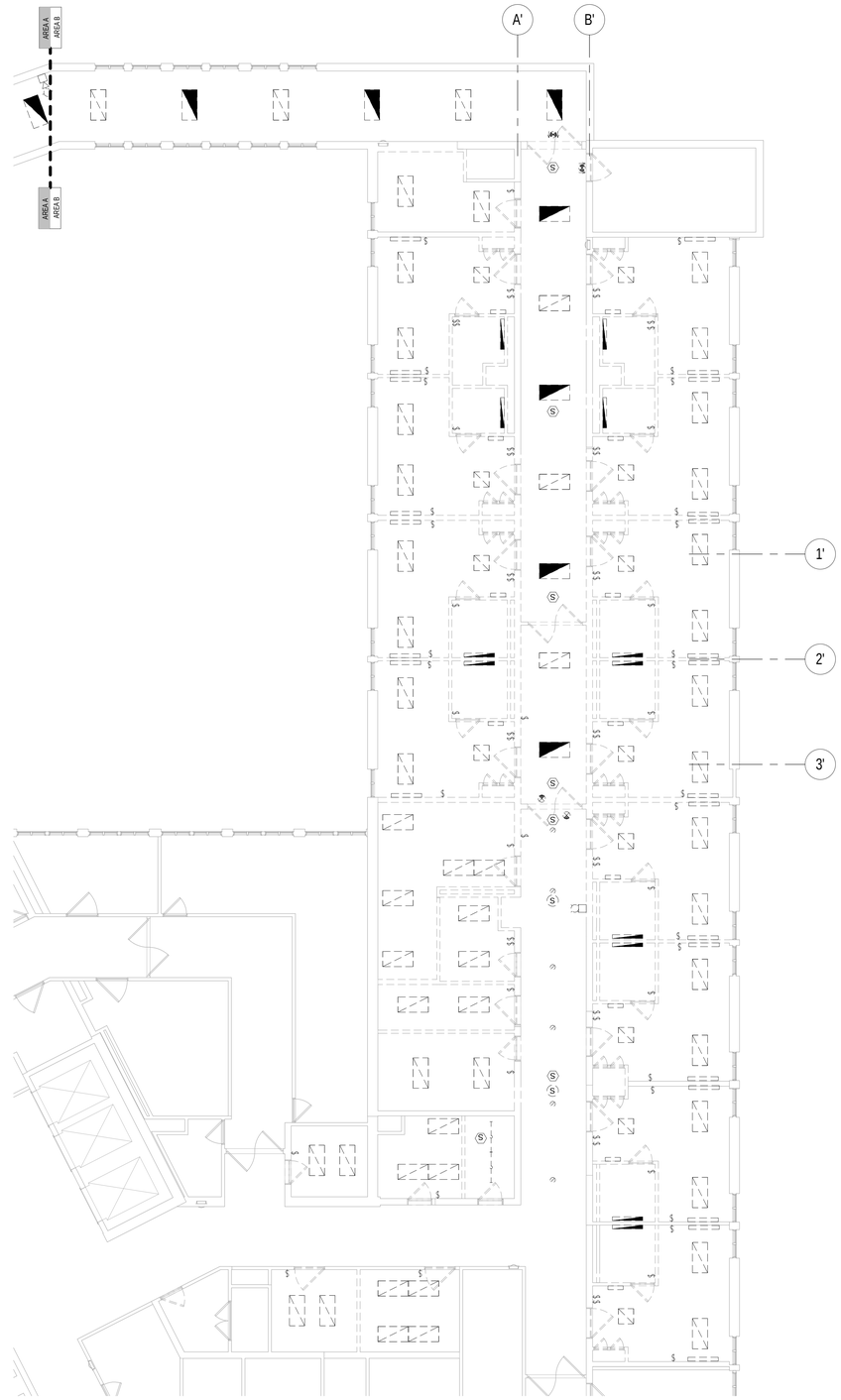
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. DEMOLISH ALL ELECTRICAL CONDUCTORS AND CONDUIT BACK TO PANELBOARD FOR ALL DEVICES. MARK EXISTING UNUSED OVERCURRENT PROTECTION DEVICES AS "SPARE". REVISE PANEL SCHEDULES TO REFLECT NEW WIRING.

B. CONTRACTOR SHALL REUSE EXISTING FIRE ALARM DEVICES IF NOT DAMAGED DURING DEMOLITION.

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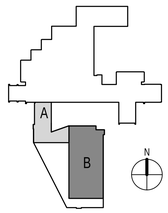
KEY PLAN



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PE-075011-E
4/17/13

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Fax (484) 429-1547

Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR LIGHTING & FIRE ALARM DEMOLITION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

VA Project Number: 693-11-122

Building Number: 1 & 27

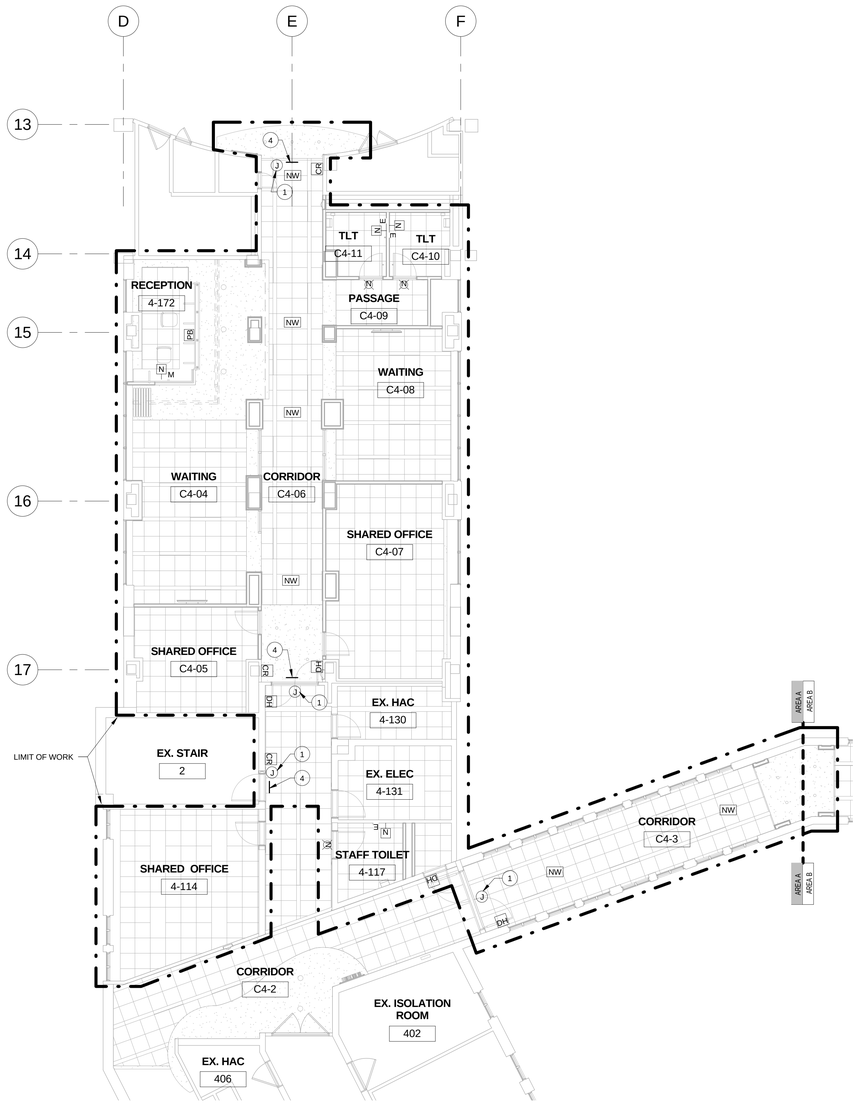
Drawing Number: ED142

Dwg. 54 of 79

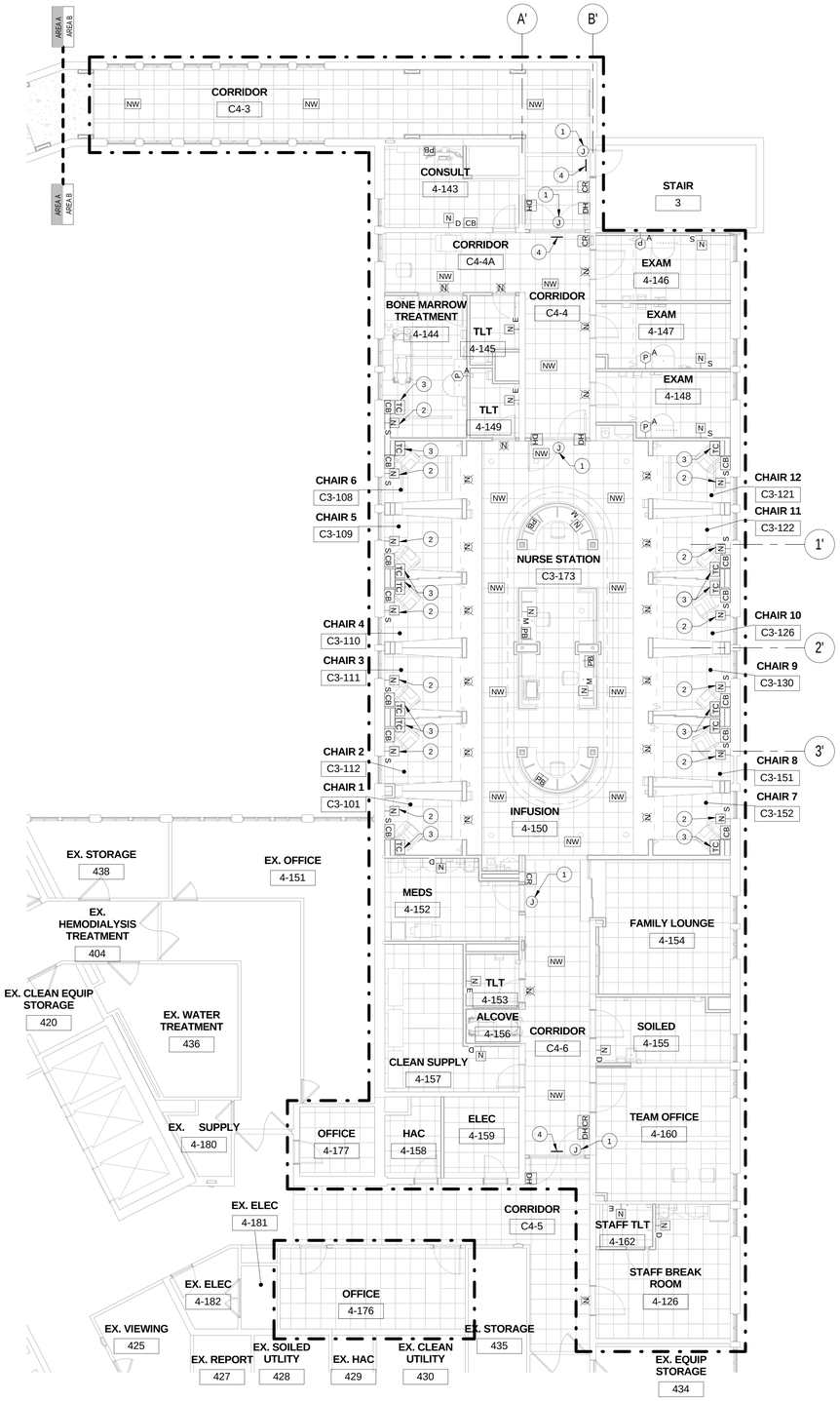
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR ELECTRICAL SYSTEMS PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR ELECTRICAL SYSTEMS PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. CARD READER VENDER IS SIMPLEX-GRINNELL CONTACT MR. JOE KELLY: 570-840-5879.

B. NURSE CALL, CODE BLUE, CODE WHITE DURESS CONTACT ECOMM LIFE SAFETY SYSTEMS: MR. LARRY DARNELL, TELEPHONE: 267-566-2502. EMAIL: LDARNELL@SYMTECHSOLUTIONS.COM.

C. P/A, MASS NOTIFICATION & TELEPHONE SYSTEM BY BLACK BOX. CONTACT MR JOE GURDOCK. TELEPHONE: VAMC: 570-824-3521 EXT. 7270. EMAIL: JOSEPH.GURDOCK@VA.GOV.

D. REFER TO FIRE ALARM & LIFE SAFETY PLANS FOR SPEAKER LOCATIONS.

E. SEE SHEET E-401 DETAIL 3 & 4 FOR EXISTING IT ROOM LAYOUTS.

F. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

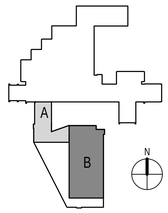
1 JUNCTION BOX ABOVE CEILING WITH 120V POWER TO DOOR CONTROLLER. CONNECT TO NEAREST "LIFE SAFETY" CIRCUIT.

2 CONNECTION TO PILLOW SPEAKER CONTROL PLUGS INTO NURSE CALL STATION. PILLOW CONTROL DEVICE WILL CONTROL STEPPER RELAY IN CEILING MOUNTED LIGHT FIXTURE, TV ON/OFF, VOLUME CONTROL, CHANNEL UP/DOWN, MOTORIZED SHADES AND NURSE CALL. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL CONTROL WIRING TO EACH DEVICE.

3 CONNECT REMOTE TERMINALS OF ELAPSED TIME CLOCK TO ROOM CODE BLUE BUTTON.

4 ROAM ALERT SYSTEM DEVICE MOUNTED ON CEILING ABOVE DOOR. CARD READER SHOWN IS TO DEACTIVAE THE ROAM ALERT TEMORARYLILY AND OPEN DOOR LOCK FOR ESCORTED PATIENT PASS THROUGH. ACTIVATION OF SYSTEM SHALL NOTIFY NURSE CALL MASTER STATION.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHARLES G. SOWDERS III — PE-070304-E — 4/17/13

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Fax (484) 429-1547

Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR ELECTRICAL SYSTEMS PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

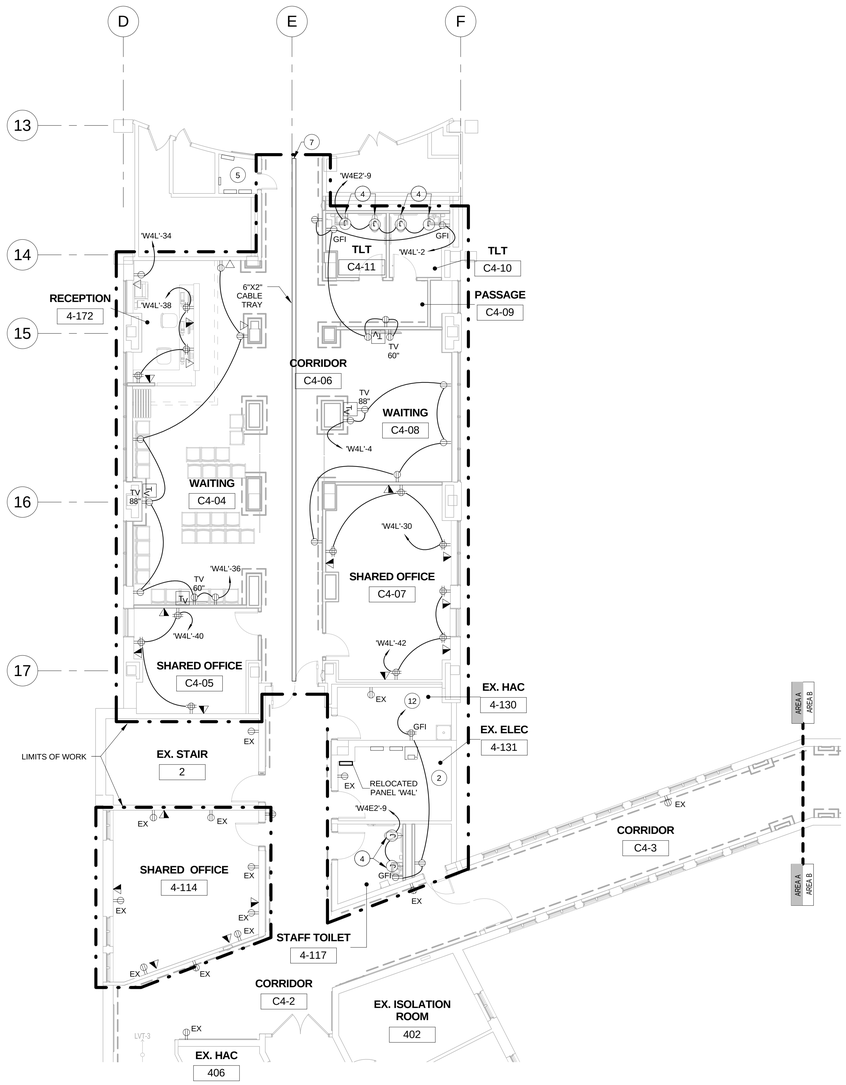
Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: SAE/WCM | Drawn: KLC

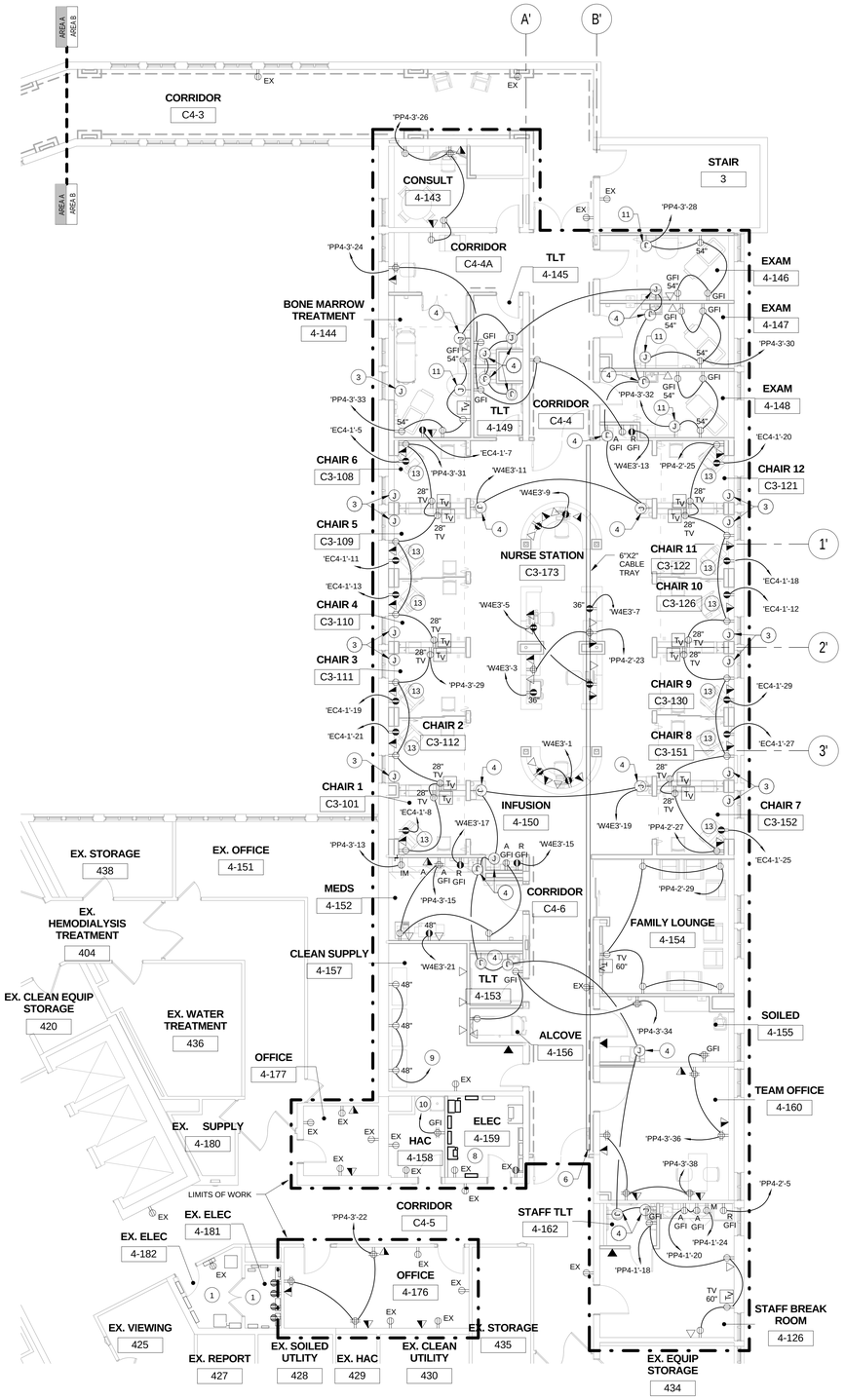
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: EC141
Dwg. 55 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR POWER AND COMMUNICATIONS PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR POWER AND COMMUNICATIONS PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" EMT UNLESS NOTED OTHERWISE.

B. VERIFY LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.

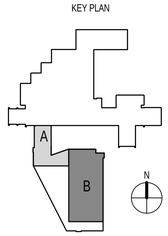
C. SEE E-602 FOR EQUIPMENT CONDUCTOR SCHEDULE.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	SEE ENLARGEMENT 3/E-401
2	SEE ENLARGEMENT 1/E-401
3	JUNCTION BOX ABOVE CEILING WITH 120V POWER FOR MOTORIZED SHADE. TYPICAL OF 12. CIRCUIT SIX ON WEST SIDE FROM 'PP4-2'-36 AND SIX ON EAST SIDE FROM 'PP4-2'-6.
4	JUNCTION BOX IN WALL UNDER SINK FOR FAUCET POWER OR TOILET FLUSH VALVE POWER. CONNECT TO EMERGENCY CIRCUIT..
5	SEE ENLARGEMENT 7/E-401
6	EXTEND OR CONNECT TO EXISTING CABLE TRAY TO IT ROOM 4-181.
7	EXTEND OR CONNECT TO EXISTING CABLE TRAY TO IT ROOM C4-57B.
8	SEE ENLARGEMENT 2/E-401
9	TIE TO EXISTING CIRCUIT SERVING THE SAME AREA, 'PP4-3'-14.
10	TIE TO EXISTING CIRCUIT SERVING THE SAME AREA, 'PP4-3'-16.
11	JUNCTION FOR FURNITURE POWER, TELCO AND DATA CONNECTIONS. PROVIDE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT.
12	TIE TO EXISTING CIRCUIT SERVING THE SAME AREA, 'PP4-4'-24.
13	SEE TYPICAL INFUSION BAY HEADWALL ELEVATION, 10/E-501.

KEY PLAN



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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR POWER & COMMUNICATION PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

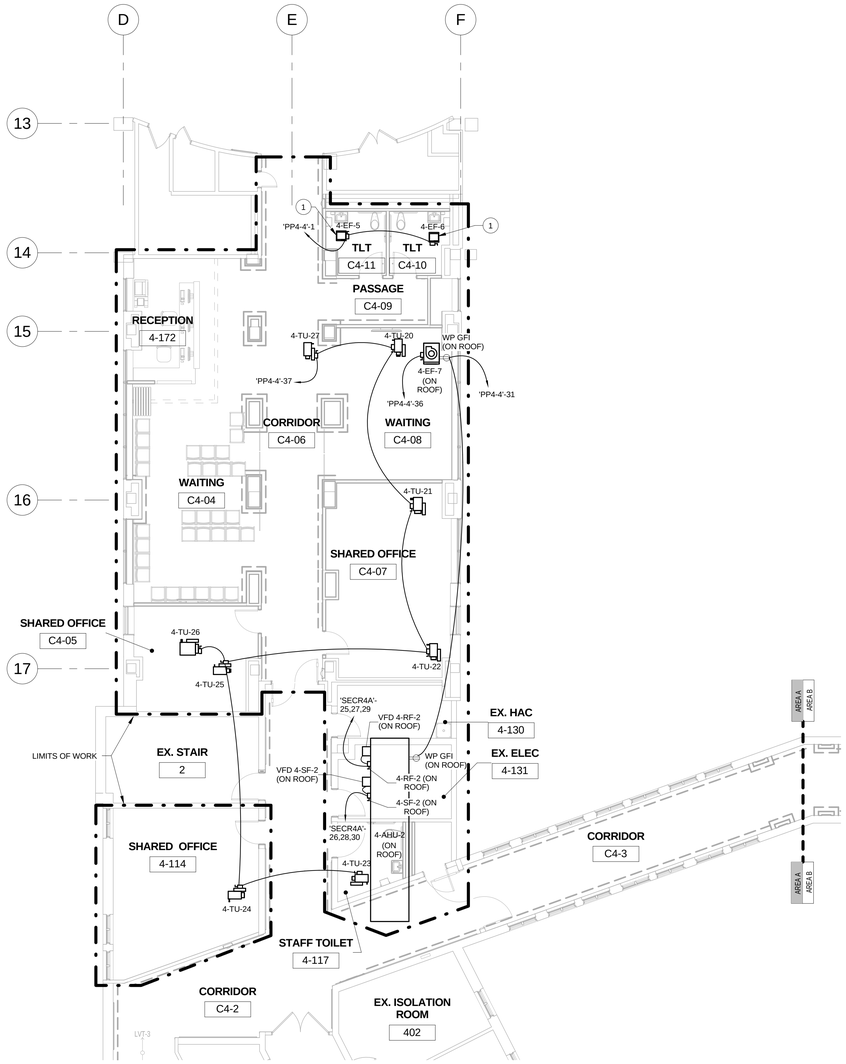
Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

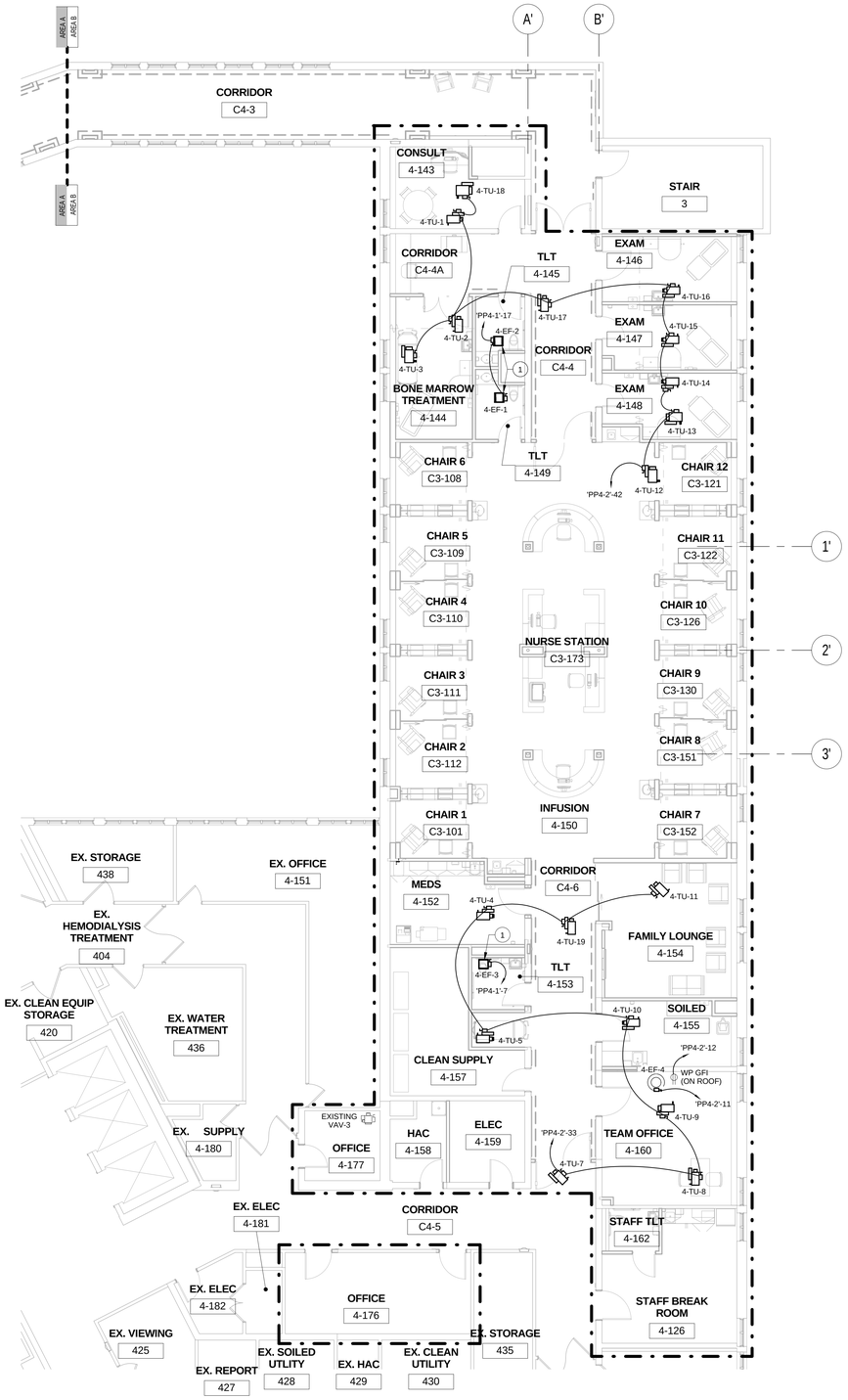
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: EP141
Dwg. 56 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR HVAC POWER PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR HVAC POWER PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

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B. SEE E-602 FOR EQUIPMENT CONDUCTOR SCHEDULE.

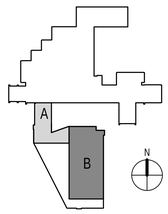
C. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" C. UNLESS NOTED OTHERWISE.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1 EXHAUST FAN TO BE CIRCUITED AND SWITCHED WITH TOILET LIGHTING.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
CHARLES G. SOWDER III
PE-075600-E
4/17/13

PROJECT MANAGER:
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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR HVAC POWER PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: SAE/WCM | Drawn: KLC

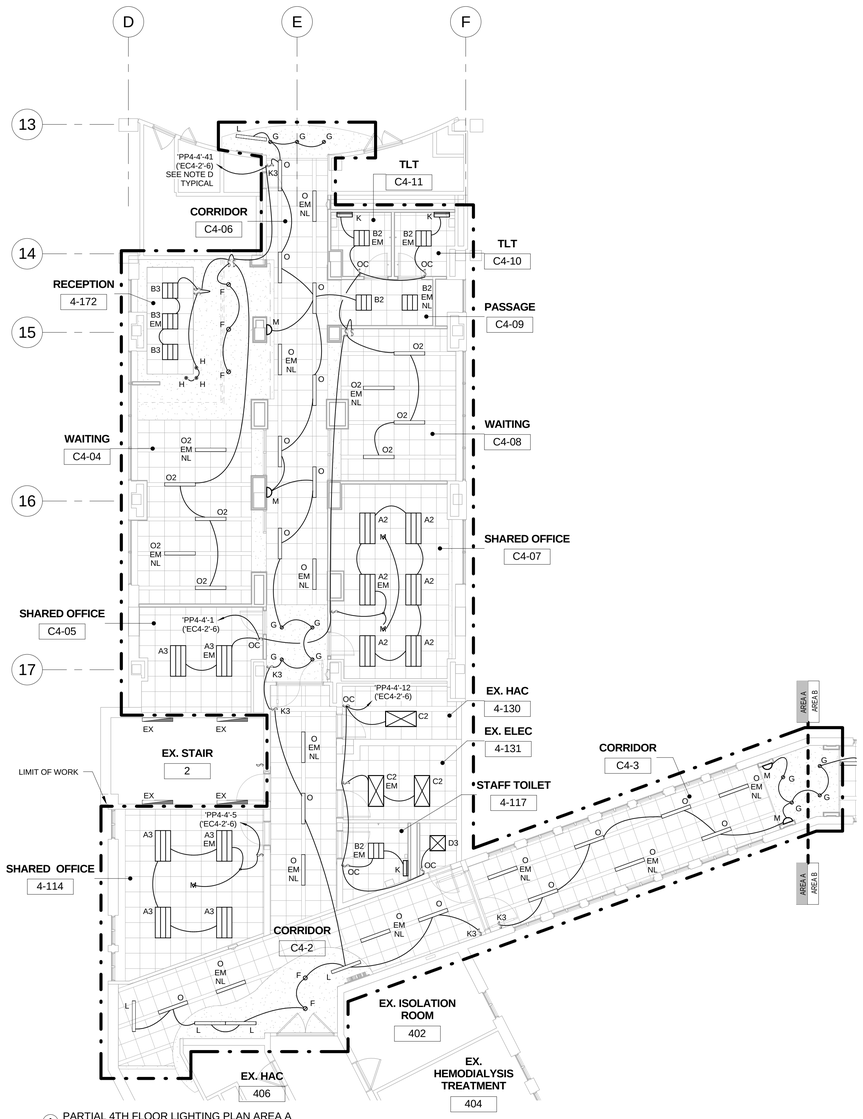
Drawing Number: EP142

Dwg. 57 of 79

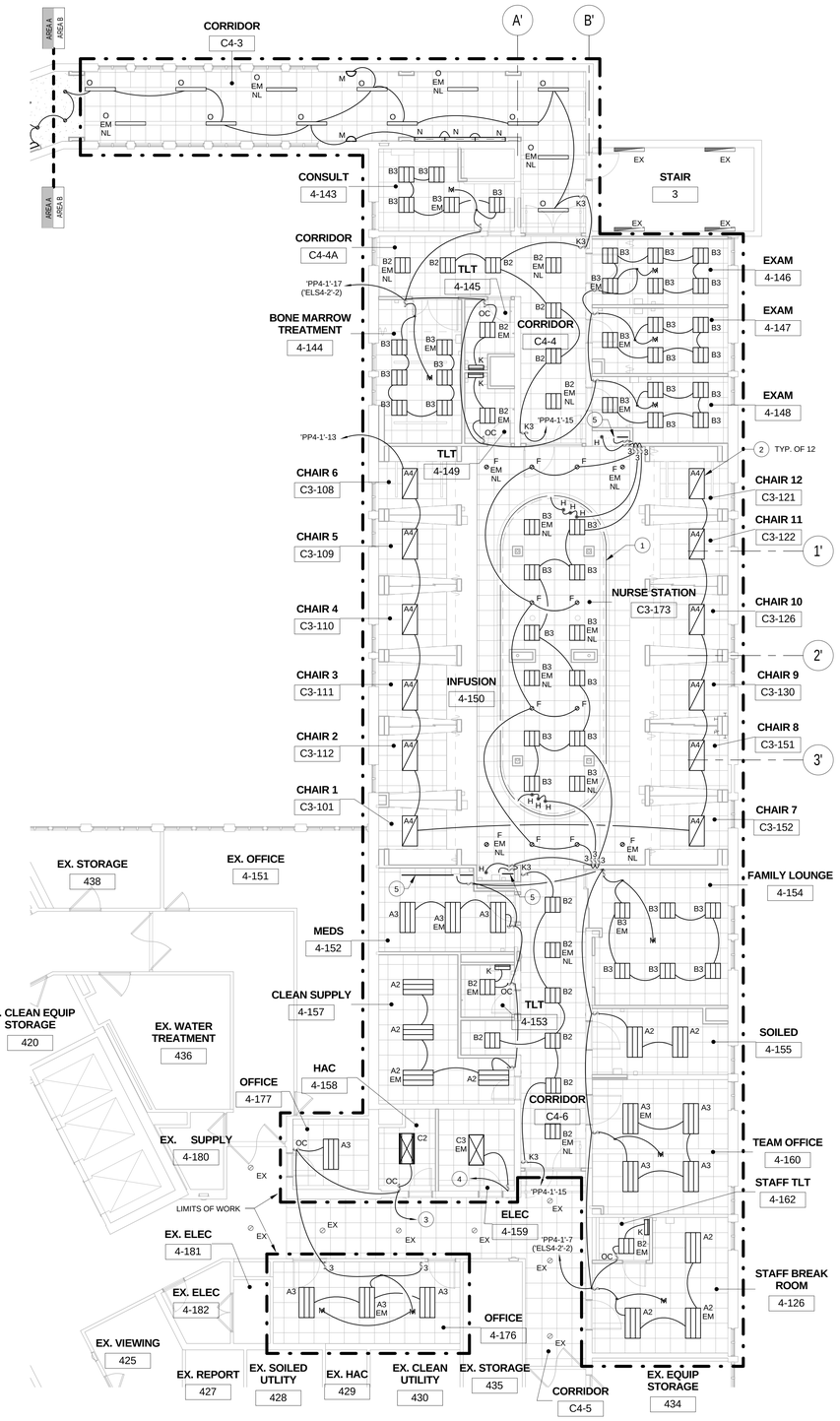
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR LIGHTING PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR LIGHTING PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" EMT UNLESS NOTED OTHERWISE.

B. ALL EMERGENCY NIGHTLIGHTS (EM NL) AND EXIT SIGNS IN AREA A SHALL BE CIRCUITED FROM EMERGENCY LIGHTING CIRCUIT 'EC4-1'-6, AHEAD OF ANY SWITCHING.

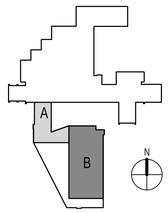
C. ALL EMERGENCY NIGHTLIGHTS (EM NL) AND EXIT SIGNS IN AREA B SHALL BE CIRCUITED FROM EMERGENCY LIGHTING CIRCUIT 'ELS4-2'-4, AHEAD OF ANY SWITCHING.

D. ALL EMERGENCY LIGHTS (EM) SHALL HAVE BOTH NORMAL AND EMERGENCY POWER. SEE DETAIL 5/E-501.
'XXX'-##' - NORMAL POWER CIRCUIT
('XXXX'-##) - EMERGENCY POWER CIRCUIT

E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES	#
1	LED COVE LIGHTING, LIGHT FIXTURE TYPE I. COORDINATE LENGTHS AND MOUNTING WITH ARCHITECTURAL DRAWINGS.
2	LIGHT FIXTURE SHALL BE CONTROLLED BY WALL SWITCH AND PATIENT PILLOW CONTROL DEVICE. TYPICAL OF 12.
3	TIE TO EXISTING NORMAL LIGHTING CIRCUIT, 'PP4-1'-19, AND EMERGENCY LIGHTING CIRCUIT SERVING THE SAME AREA.
4	TIE TO EXISTING EMERGENCY LIGHTING CIRCUIT AND EXISTING LIGHT SWITCH SERVING ELECTRICAL ROOM 4-159.
5	UNDERCABINET TASK LIGHTING, FIXTURE TYPE J. COORDINATE LENGTH AND MOUNTING WITH CABINETS AND ARCHITECTURAL DRAWINGS. INSTALL WALL SWITCH FOR EACH CONTINUOUS RUN AS SHOWN.

KEY PLAN



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Revisions	Date

CONSULTANTS:

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PE-070543-E
4/19/13

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR LIGHTING PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Drawing Number: EL141

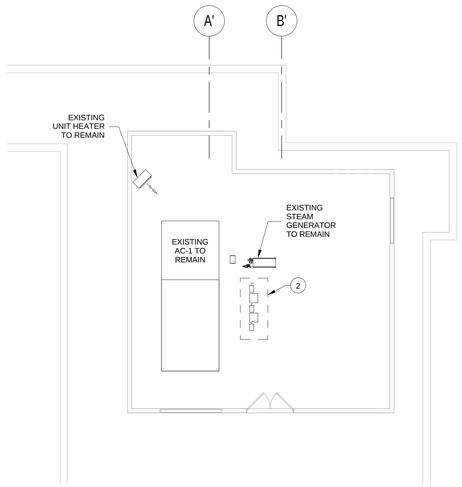
Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

Dwg. 58 of 79

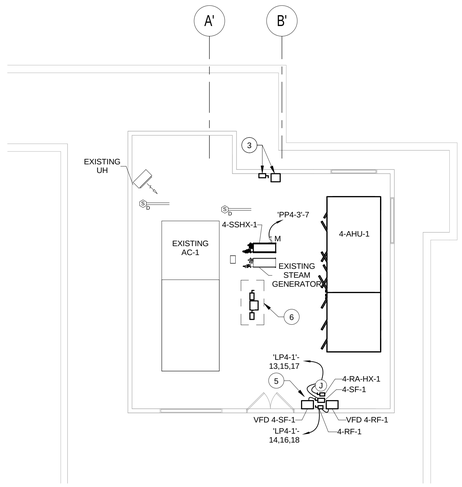
Office of Facilities Management

Department of Veterans Affairs

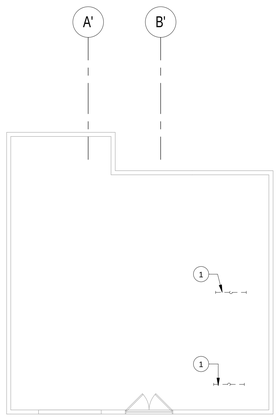
VA FORM 08-6231, OCT 1978



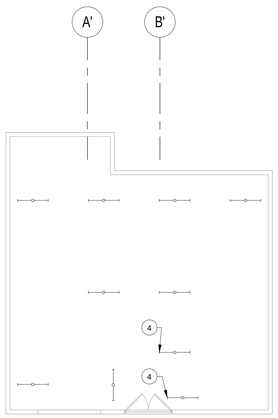
1 PENTHOUSE ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



2 PENTHOUSE ELECTRICAL PLAN
1/8" = 1'-0"



3 PENTHOUSE LIGHTING DEMOLITION PLAN
1/8" = 1'-0"



4 PENTHOUSE LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" EMT UNLESS NOTED OTHERWISE.

B. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" EMT UNLESS NOTED OTHERWISE.

C. VERIFY LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.

D. SEE E-602 FOR EQUIPMENT CONDUCTOR SCHEDULE.

E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1 EXISTING LIGHT FIXTURES TO BE RELOCATED TO COORDINATE WITH NEW MECHANICAL EQUIPMENT. SEE 4/E-151 FOR NEW LOCATIONS.

2 EXISTING EQUIPMENT RACK WITH EXISTING VFDS AND DISCONNECTS. COORDINATE, RELOCATE AND REWORK EXISTING EQUIPMENT WITH NEW MECHANICAL DUCTWORK. ALL CLEARANCES MUST COMPLY WITH NEC 110.26(A)(1). COORDINATE WITH MECHANICAL CONTRACTOR.

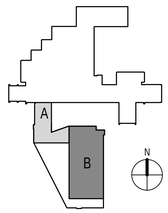
3 RELOCATED VFD AND DISCONNECT FROM EXISTING EQUIPMENT RACK. ALL CLEARANCES MUST COMPLY WITH NEC 110.26(A)(1).

4 RELOCATED LIGHT FIXTURES COORDINATE LOCATION WITH EXISTING AND NEW EQUIPMENT. CONNECT TO EXISTING LIGHTING CIRCUIT AND LIGHT SWITCH.

5 DUE TO LIMITED SPACE IN THIS AREA NEW ELECTRICAL EQUIPMENT WILL NEED TO BE ARRANGED AS COMPACT AS POSSIBLE. NEW DISCONNECTS SHALL BE STACKED BETWEEN NEW VFDS. ALL CLEARANCES MUST COMPLY WITH NEC 110.26(A)(1).

6 RELOCATED AND REWORKED VFD AND DISCONNECTS. DISCONNECTS MAY BE STACKED TO CONSOLIDATE SPACE. ALL CLEARANCES MUST COMPLY WITH NEC 110.26(A)(1).

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

CONSULTANTS:

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Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 329-5559

MEP Engineer: APOGEE Consulting Group, PA — 6325 Woodside Court, Suite 310A, Columbia, MD 21046, Tel (443) 539-4090

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Fire Protection: harrington group — 7508 East Independence Blvd, Suite 116, Charlotte, NC 28227, Tel (704) 531-9007

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHARLES G. SOWDER — PE-073311-E — 4/17/13

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Fax (484) 429-1547

Project Number	Scale
3541	As indicated

Drawing Title: PENTHOUSE ELECTRICAL AND LIGHTING PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: E-151

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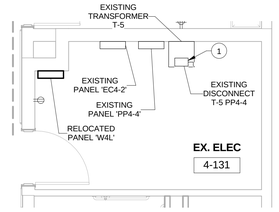
Office of Facilities Management

Department of Veterans Affairs

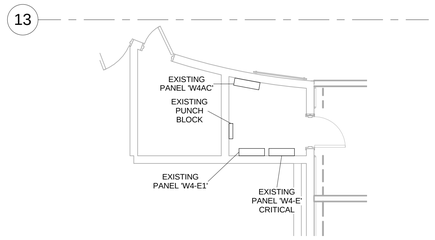
VA FORM 08-6231, OCT 1978

KEYED NOTES (#)

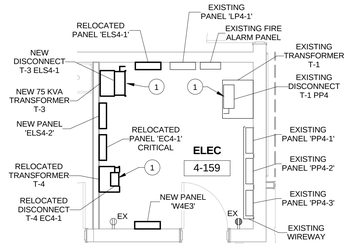
1 ALL NEW, RELOCATED AND EXISTING DISCONNECTS MOUNTED ABOVE TRANSFORMERS SHALL BE MOUNTED ON UNISTRUT SUCH THAT THE FRONT EDGE OF DISCONNECT IS ALIGNED WITH THE FRONT EDGE OF TRANSFORMER.



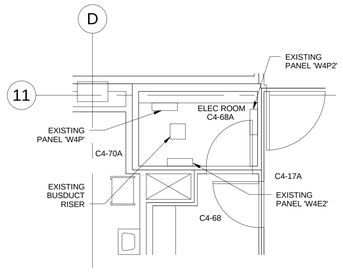
1 ELECTRICAL ROOM 4-131 ENLARGEMENT
1/4" = 1'-0"



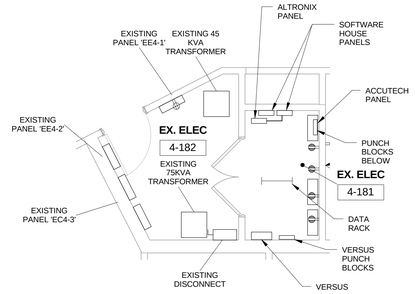
7 ELECTRICAL ROOM C4-02 ENLARGEMENT
1/4" = 1'-0"



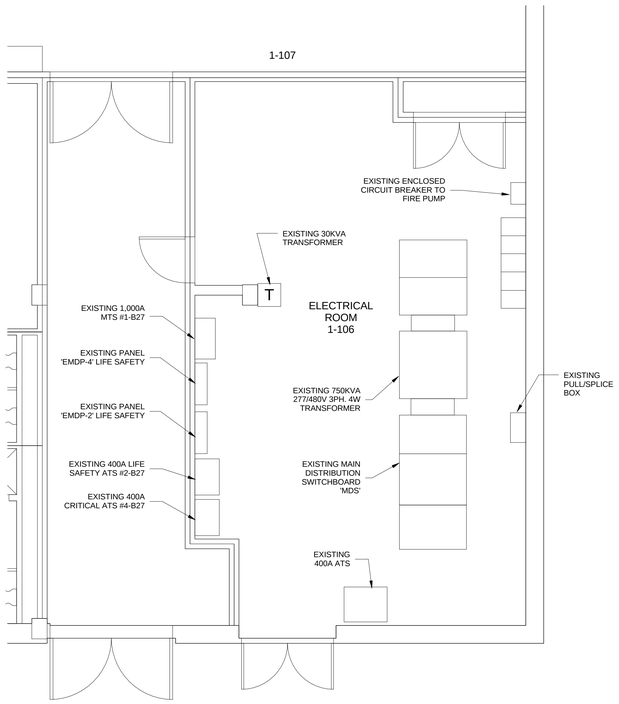
2 ELECTRICAL ROOMS 4-159 ENLARGEMENT
1/4" = 1'-0"



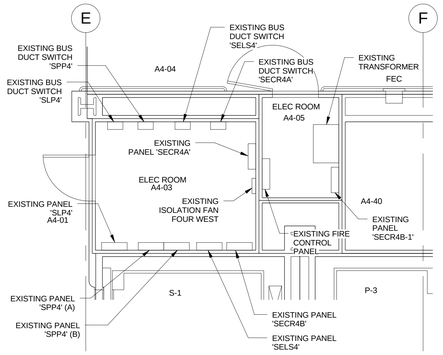
6 ELECTRICAL ROOM C4-68A ENLARGEMENT
1/4" = 1'-0"



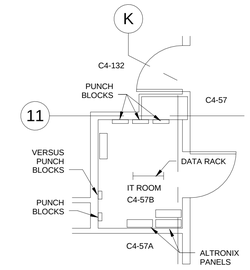
3 ELECTRICAL ROOM 4-182 & IT ROOM 4-181 ENLARGEMENT
1/4" = 1'-0"



8 ELECTRICAL ROOM 1-106 ENLARGEMENT
1/4" = 1'-0"



5 ELECTRICAL ROOMS A4-03 & A4-05 ENLARGEMENT
1/4" = 1'-0"



4 IT ROOM C4-57B ENLARGEMENT
1/4" = 1'-0"

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

CONSULTANTS:

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ARRAY healthcare facilities solutions
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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER CHARLES G. SOWNER III PE-075087-E 4/17/13

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Project Number	Scale
3541	1/4" = 1'-0"

Drawing Title: ELECTRICAL ENLARGEMENTS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

Drawing Number: E-401

Dwg. 60 of 79

Office of Facilities Management

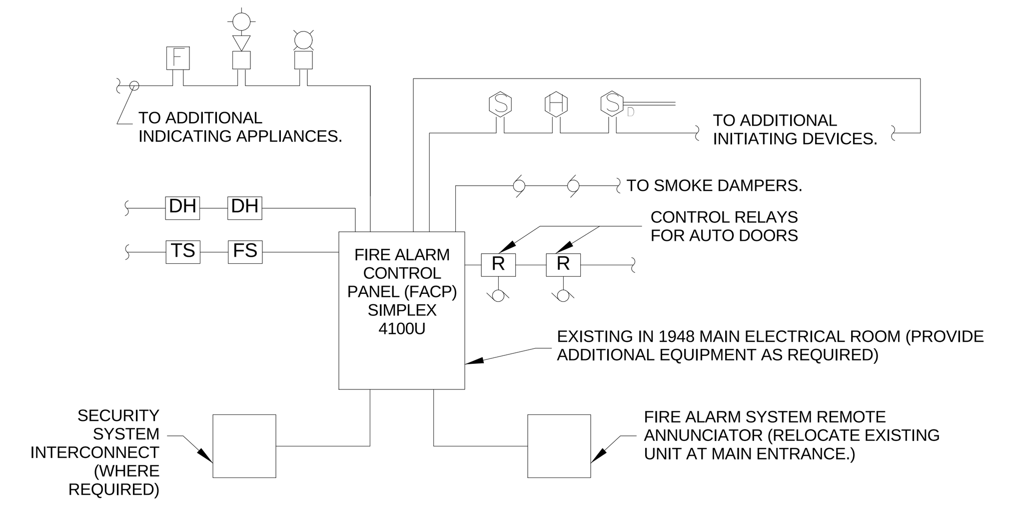
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

INPUT DEVICE ↓ / OUTPUT →	1. SOUND GENERAL BUILDING ALARM FOR OTHER AND HIGH RISE (NON-HEALTH CARE). SEE SECTION 7.2.1	2. NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTH CARE AND HIGH RISE BUILDINGS ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT.	4. INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE.	5. CLOSE ASSOCIATE SMOKE BARRIER DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON FAN PROXIMATE TO DETECTOR.	7. SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.	8. RECALL ELEVATOR.
DUCT SMOKE DETECTOR *				X		X	X a	
AREA SMOKE DETECTOR *	X	X	X					
DOOR RELEASE SMOKE DETECTOR *	X	X	X		X	X		
ELEVATOR SMOKE DETECTOR *	X	X	X					X
MANUAL PULL STATION	X	X	X		X			
ELEVATOR MACHINE ROOM HEAT DETECTOR	X	X	X					
GENERATOR ROOM HEAT DETECTOR	X	X	X					
SPRINKLER WATERFLOW / PRESSURE SWITCH	X	X	X		X			
WATER CONTROL VALVE TAMPER				X				
FIRE PUMP (ANY ALARM CONDITION REQUIRED BY NFPA 20)				X				
HIGH/ LOW PRESSURE DRY-PIPE SPRINKLER SYSTEM				X				
KITCHEN HOOD SUPPRESSION SYSTEM	X	X	X		X			
GAS EXTINGUISHING SYSTEMS	X	X	X		X			
DRY-PIPE VALVE ROOM TEMPERATURE ALARM				X				
DEDICATED FIRE WATER STORAGE TANK LOW LEVEL				X				
DEDICATED FIRE WATER STORAGE TANK LOW TEMPERATURE				X				

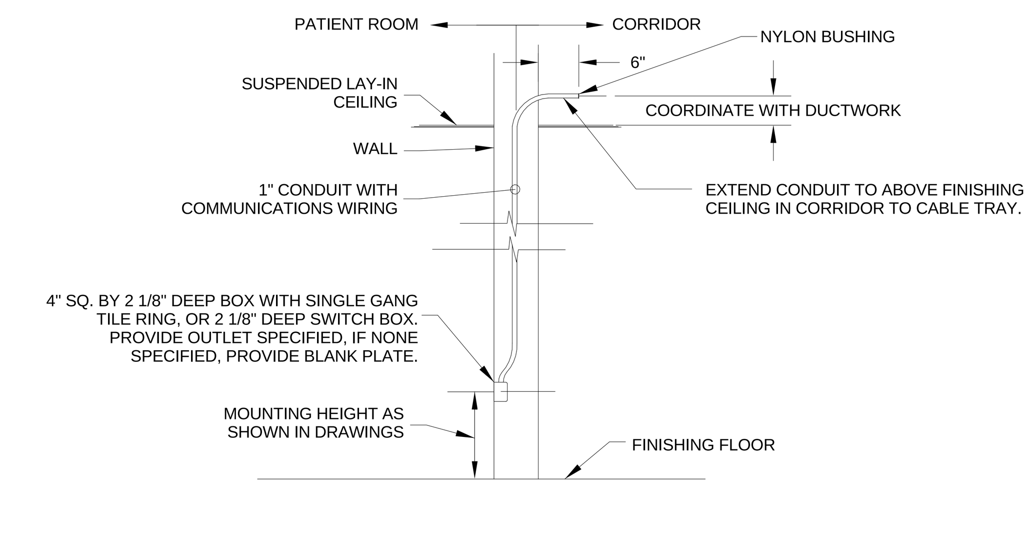
* WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT SMOKE DETECTORS, TO NOTIFY BUILDING OCCUPANTS AS REQUIRED BY THE LIFE SAFETY CODE OR ITS REFERENCES.
** THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS AND ACCESS CONTROLLED DOORS.
a - DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS, THEY SHOULD CONTINUE TO RUN.



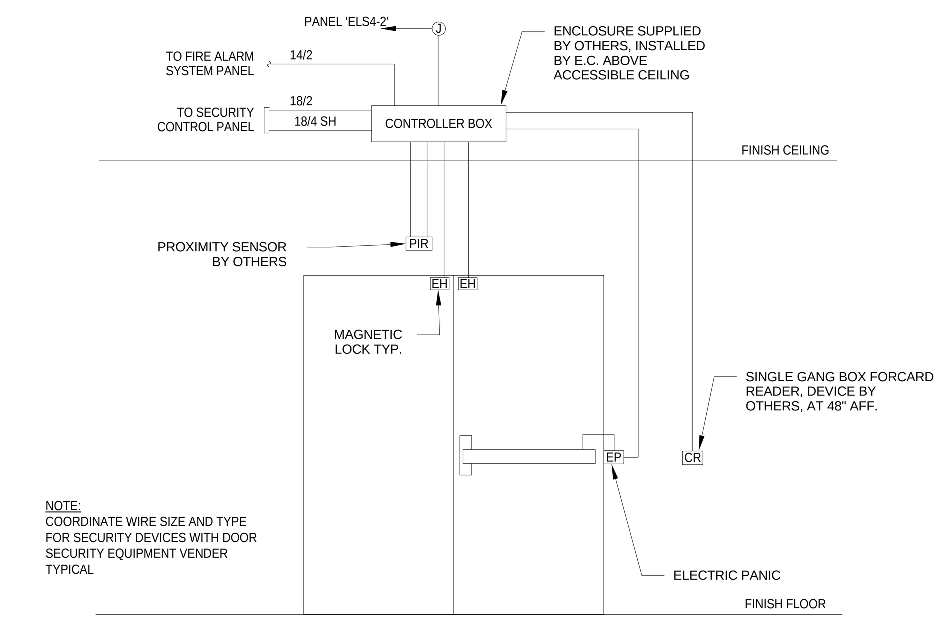
NOTES:

1. CARD READER & FIRE ALARM SYSTEM CONTACT-SIMPLEX GRINELL MR. JOE KELLY : 570-840-5879.
2. ALL FIRE ALARM WIRING SHALL BE IN EMT CONDUIT AND PAINTED RED.
3. ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE SEPARATE OUTPUT SIGNALS TO AIR HANDLER UNIT VFD FOR INDIVIDUAL UNIT SHUT-DOWN.
5. PROVIDE ZONE ADAPTER MODULES TO CONNECT NON-ADDRESSIBLE DEVICES SUCH AS FLOW AND TAMPER SWITCHES, DOOR HOLDERS AND ACCESS CONTROL SIGNALS.
6. PROVIDE POWER SUPPLY AS REQUIRED FOR ADDITIONAL DEVICES AS REQUIRED.

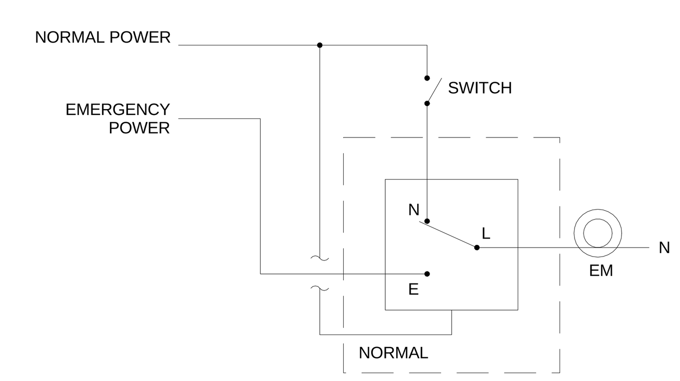
5 FIRE ALARM SYSTEM RISER DIAGRAM
N.T.S.



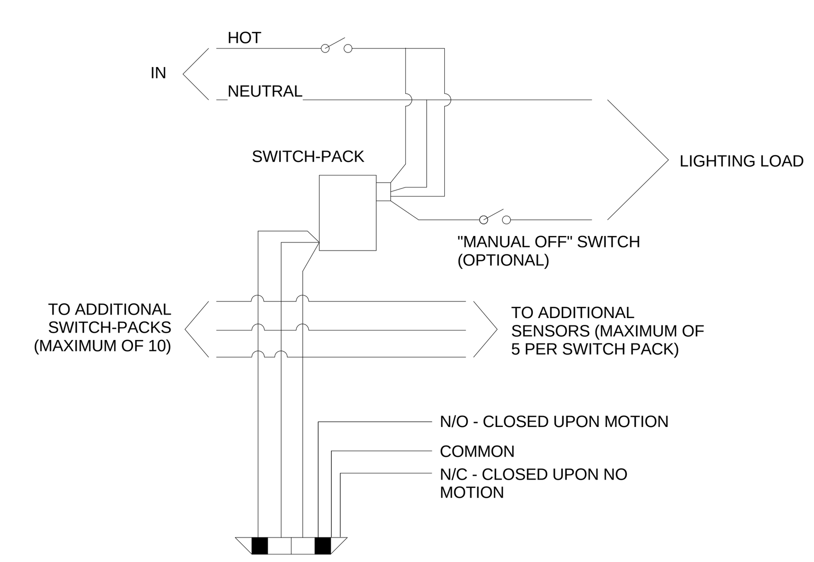
1 DATA VOICE OUTLET INSULATION DETAIL
N.T.S.



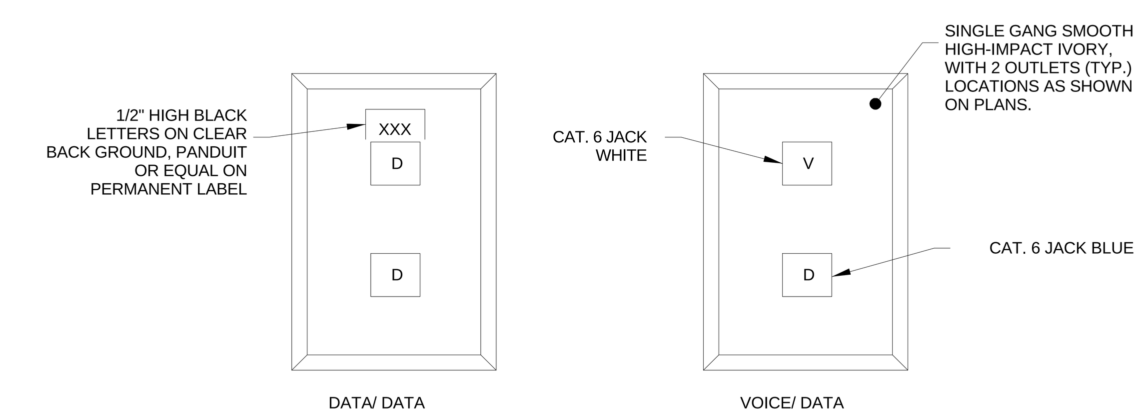
2 DOUBLE DOOR KEYPAD ACCESS DETAIL
N.T.S.



6 EMERGENCY LIGHTING DETAIL
N.T.S.



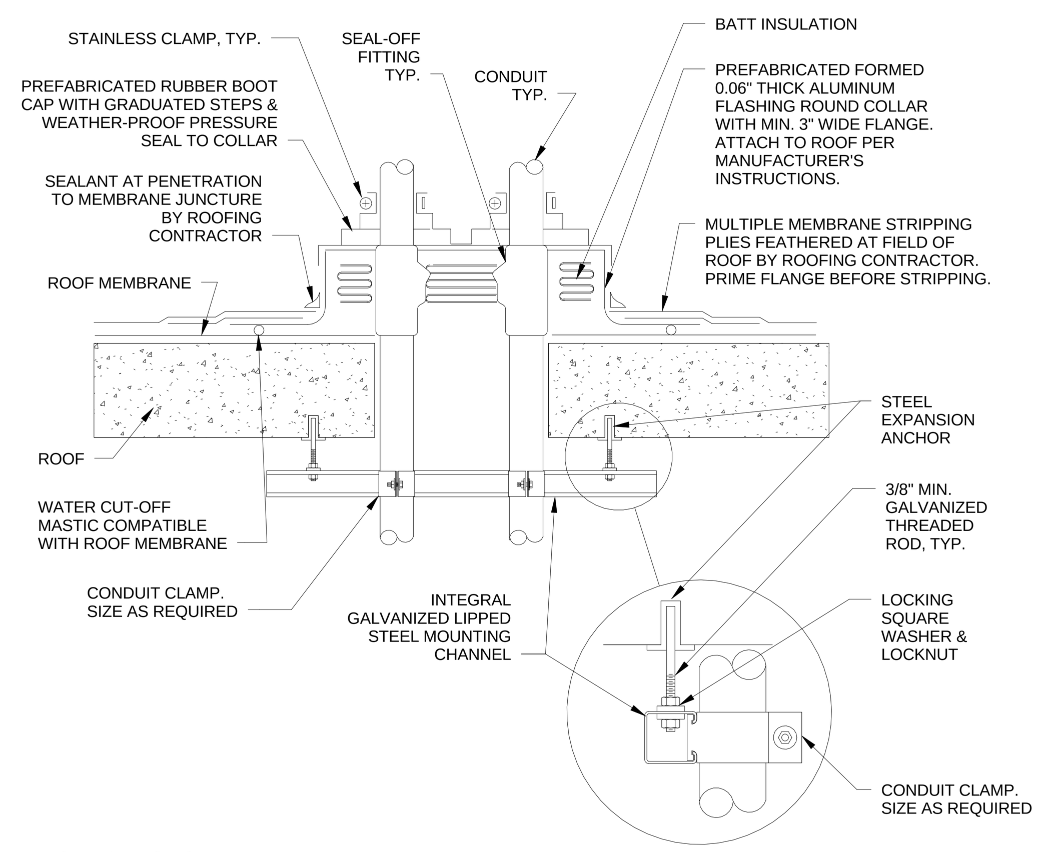
7 LIGHTING CONTROL DETAIL
N.T.S.



NOTES:

1. ALL EQUIPMENT AND INSTALLATION MUST BE APPROVED BY VAMC IT DEPARTMENT.

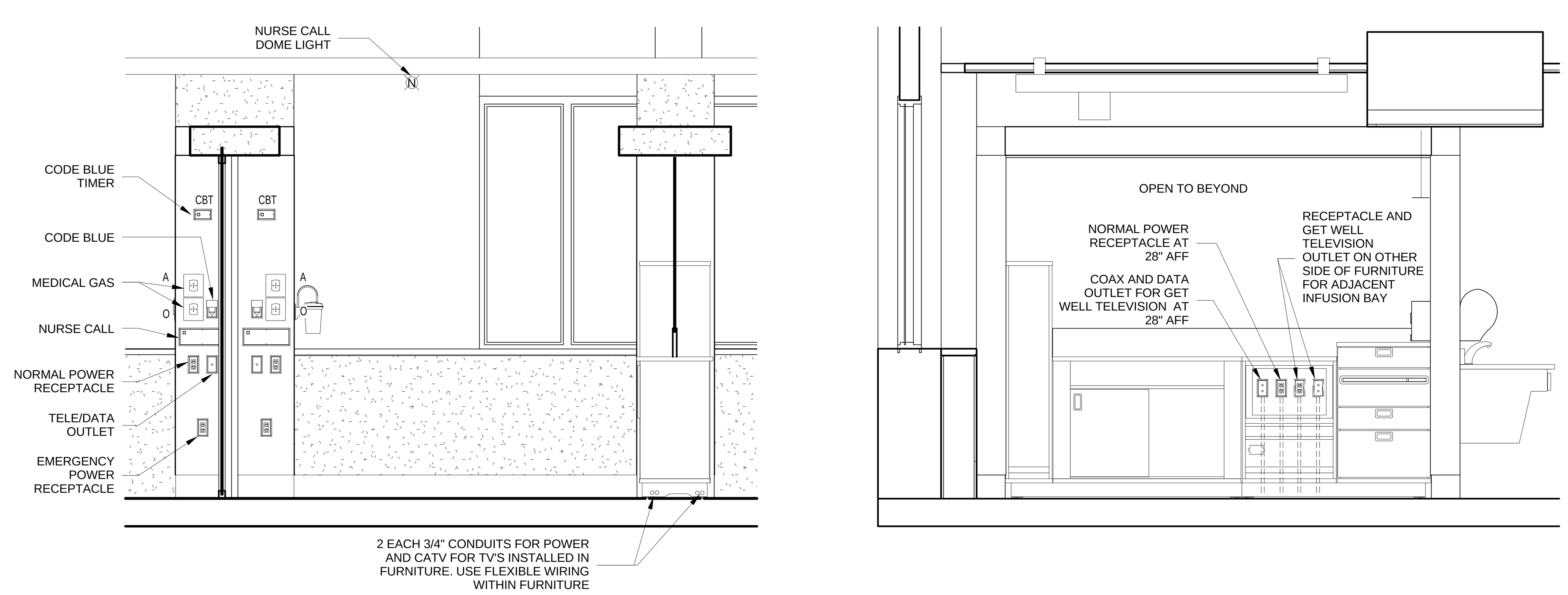
3 TELECOMMUNICATIONS FACEPLATE DETAIL
N.T.S.



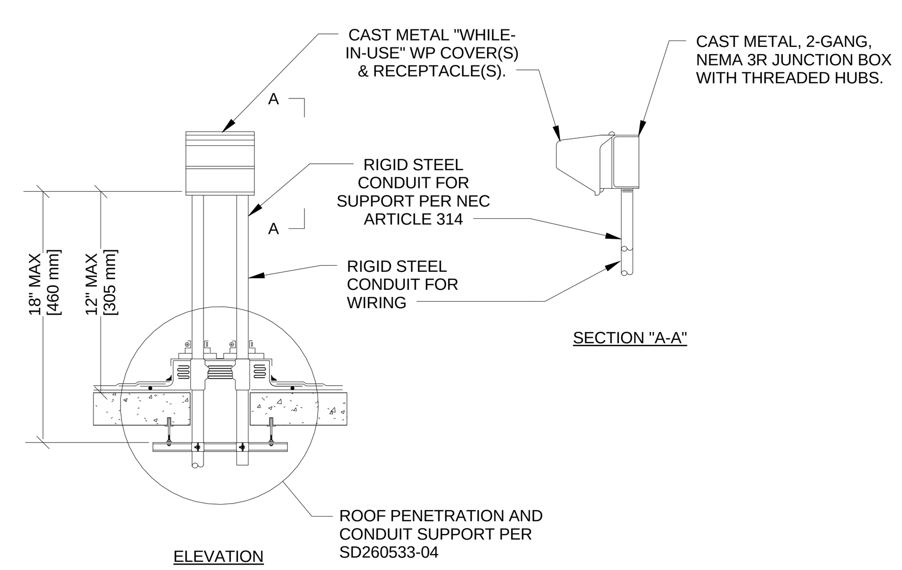
GENERAL NOTES:

1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308 mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLANGES OF ADJACENT FLASHING SHALL NOT BE CUT OR OVERLAPPED.
3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

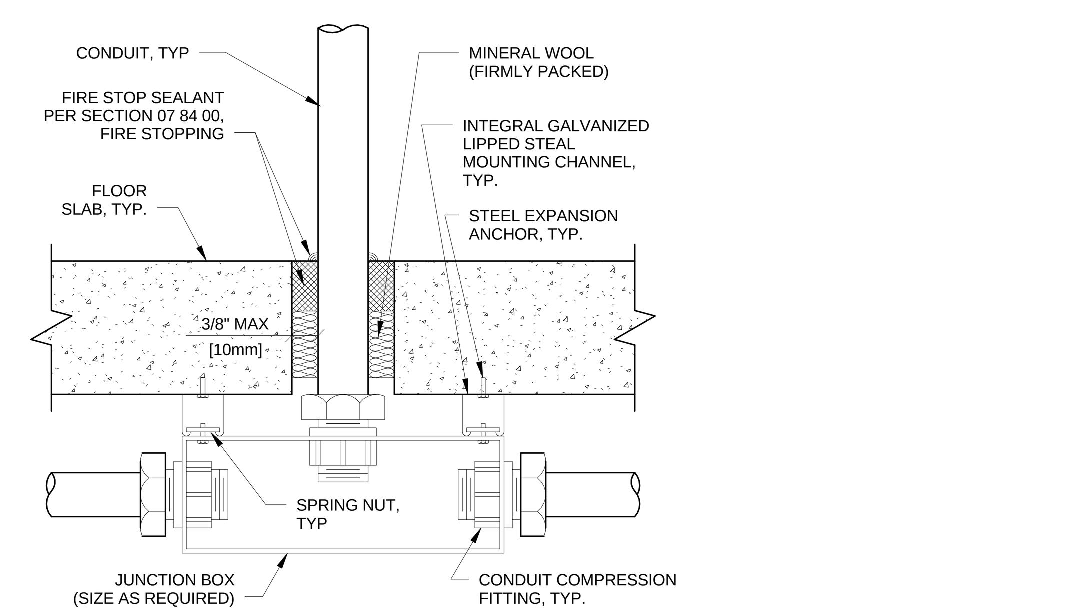
9 ROOF PENETRATION DETAIL
N.T.S.



10 TYPICAL INFUSION BAY HEADWALL ELEVATION
1/2" = 1'-0"



8 RECEPTACLE ROOF MOUNTING DETAIL
N.T.S.



4 FLOOR SLAB PENETRATION DETAIL
N.T.S.

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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MEP Engineer: APOGEE Consulting Group, PA, 6325 Woodside Court, Suite 310A, Columbia, MD 21046, Tel (443) 539-4090
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COMMONWEALTH OF PENNSYLVANIA, PROFESSIONAL ENGINEER, CHARLES G. SOWDERS III, PE-?, 4/17/13

Project Number	Scale	Drawing Title	Project Title	VA Project Number
3541	As indicated	ELECTRICAL DETAILS	EXPAND EXISTING ONCOLOGY	693-11-122

Approved: Project Director	Location	Building Number	
	1111 East End Blvd. Wilkes Barre, PA 18711	1 & 27	

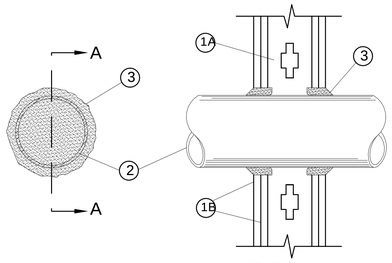
Date	Checked	Drawn	Drawing Number
04/17/13	SAE/WCM	KLC	E-501

Dwg. 61 of 79

Office of Facilities Management

Department of Veterans Affairs

System No.W-L-1001
June 15, 2005
F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. Gypsum Board* - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITEFLEX CORP
A BUNDY CO

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill,Void or Cavity Material* - Caulk or Sealant - Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.
The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

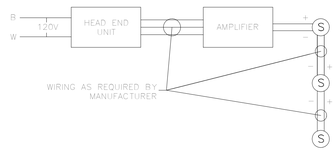
Max Pipe or Conduit Diam in. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

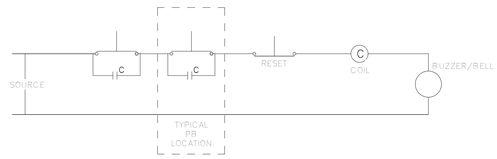
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

1 CONDUIT PENETRATION THROUGH GYPSUM ASSEMBLY (UL #W-L-1001)
3/16" = 1'-0"



3 PA SYSTEM SCHEMATIC
N.T.S.



2 PANIC BUTTON DETAIL
N.T.S.

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions | Date

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PE-070543-E
4/19/13

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Project Number	Scale
3541	N.T.S.

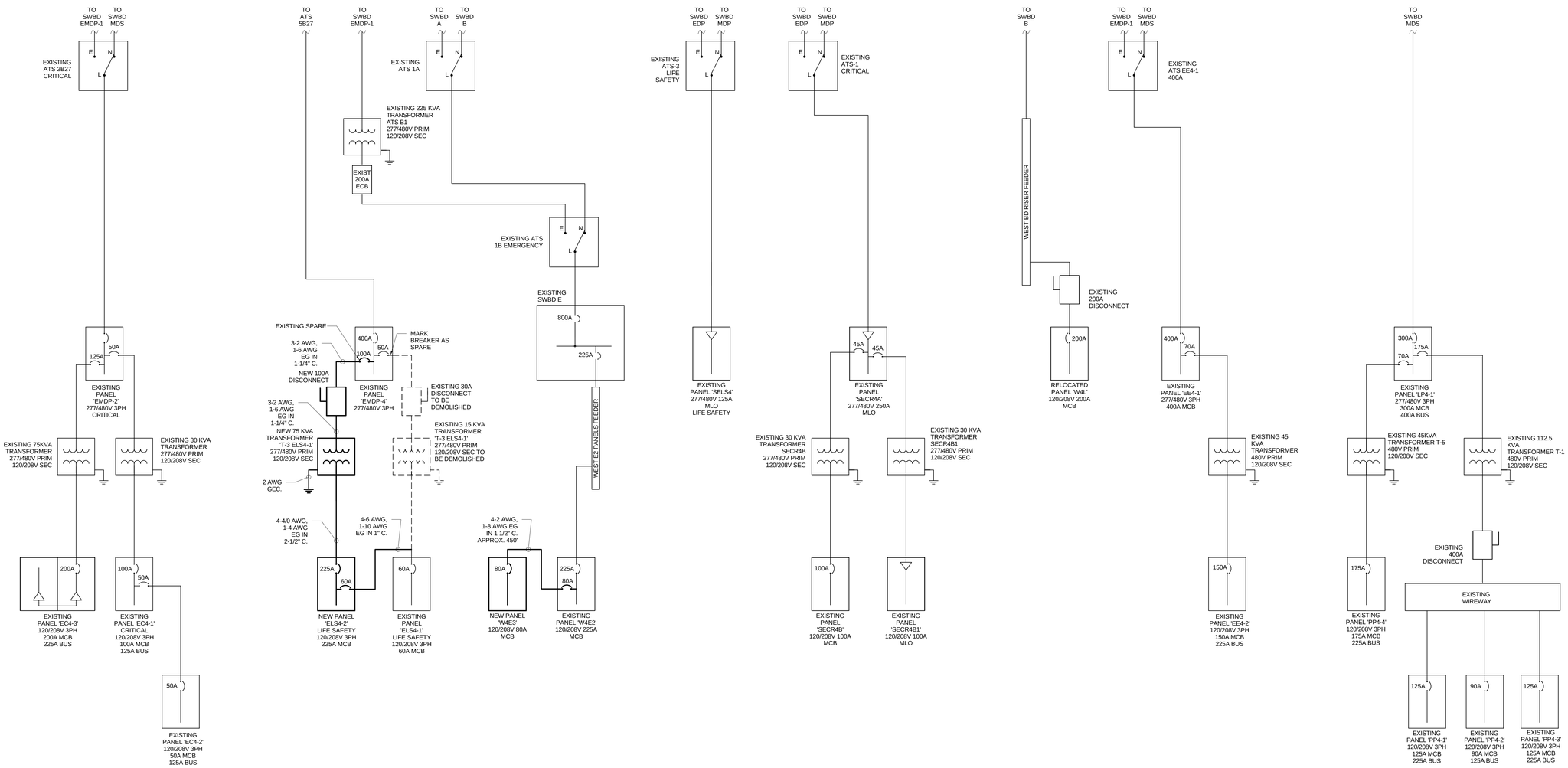
Drawing Title: ELECTRICAL DETAILS
Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY
Location: 1111 East End Blvd. Wilkes Barre, PA 18711
Date: 04/17/13 | Checked: Checker | Drawn: Author

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: E-502
Dwg. 62 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 ELECTRICAL SINGLE LINE DIAGRAM
N.T.S.

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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Project Number	Scale
3541	N.T.S.

Drawing Title: ELECTRICAL SINGLE LINE DIAGRAM

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: E-601
Dwg. 63 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
	22.00	---	---		1		2		22.00	---	---	
EXISTING PANEL 'ELS2-1'	---	22.00	---	3P-100	3		4	3P-100	---	22.00	---	EXISTING PANEL 'ELS3-1'
	---	---	22.00		5		6		---	---	22.00	
	3.84	**---**	**---**		**7**		8		0.00	---	---	
NEW PANEL 'ELS4-2'	**---**	**2.52**	**---**	**3P-100**	**9**		10	3P-60	---	0.00	---	SPARE
	---	**---**	**3.40**		**11**		12		---	---	0.00	
	0.00	---	---		13		14		0.00	---	---	
SPARE	---	0.00	---	3P-60	15		16	3P-60	---	0.00	---	SPARE
	---	---	0.00		17		18		---	---	0.00	
	11.00	---	---		19		**20**		**0.00**	**---**	**---**	
EXISTING PANEL 'ELS1-1'	---	11.00	---	3P-50	21		**22**	**3P-50**	**---**	**0.00**	**---**	**SPARE**
	---	---	11.00		23		**24**		**---**	**---**	**0.00**	
SPACE	0.00	---	---	--	25		26	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	27		28	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	29		30	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	31		32	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	33		34	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	35		36	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	37		38	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	39		40	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	41		42	--	---	---	0.00	SPACE
SUB TOTAL	36.84	35.52	36.40						22.00	22.00	22.00	SUB TOTAL
									58.84	57.52	58.40	TOTAL

C/B TEMP. 75 C. RATING 277 480 V 3 PH 4 WIRE
MOUNTING SURFACE

ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 400A
BUS RATING 400A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		35.60	33.80	36.04	125%	44.50	42.26	45.05
GENERAL USE RECEPT		22.54	22.72	22.36	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	9.61	9.70	9.52
MOTORS AND EQUIPMENT	LARGEST	0.00	1.00	0.00	125%	0.00	1.25	0.00
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
TOTAL KVA PER PHASE		58.14	57.52	58.40		57.44	56.53	57.90
TOTAL DEMAND AMPERES PER PHASE						207	204	209
PANEL / FEEDER (TOTAL KVA)								171.86
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								207

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.
LOCATED IN 1ST FLOOR ELECTRICAL ROOM 1-106, SEE DETAIL 8/E-401.

EXISTING PANEL 'EMDP-4'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
EXIST LTS STERILE SUPPLY 435-430	1.20	---	---	1P-20	1		2	1P-20	1.00	---	---	EXIST PATIENT BATH LIGHT
EX RECPT 430/SINK REC. 430-428	---	1.08	---	1P-20	3		4	1P-20	---	1.00	---	EXIST PATIENT BATH LIGHT
NEW RECEPT BONE MRW 4-144	**---**	**---**	**0.60**	**1P-20**	**5**		6	1P-20	---	---	0.25	EXIST CP-1 CONTROL PANEL RM 429
NEW CHAIR 6 RECEPT	**0.60**	**---**	**---**	**1P-20**	**7**		**8**	**1P-20**	**0.60**	**---**	**---**	**NEW CHAIR 1 RECEPT**
EX. RECEPT 128,129,130	---	1.08	---	1P-20	9		10	1P-20	---	0.20	---	EX. NIGHTLIGHT THROUGH TIME CLOCK
NEW CHAIR 5 RECEPT	**---**	**---**	**0.60**	**1P-20**	11		**12**	**1P-20**	**---**	**---**	**0.60**	**NEW CHAIR 10 RECEPT**
NEW CHAIR 4 RECEPT	**0.60**	**---**	**---**	**1P-20**	**13**		14	1P-20	0.00	---	---	EXIST RECEPT 4-158
EXIST LTS CATH RECOVERY	---	1.20	---	1P-20	15		16	1P-20	---	1.20	---	EXIST LTS CATH. CONTROL RM
EXIST RECEPT 441	---	---	1.08	1P-20	17		**18**	**1P-20**	**---**	**---**	**0.60**	**NEW CHAIR 11 RECEPT**
NEW CHAIR 3 RECEPT	**0.60**	**---**	**---**	**1P-20**	**19**		**20**	**1P-20**	**0.60**	**---**	**---**	**NEW CHAIR 12 RECEPT**
SPARE	**---**	**0.00**	**---**	**1P-20**	**21**		22	1P-20	---	0.20	---	EXIST NURSE CALL SYSTEM (OLD)
EXIST TIME CLOCK	---	---	0.20	1P-20	23		**24**	**1P-20**	**---**	**---**	**0.60**	**NEW CHAIR 2 RECEPT**
NEW CHAIR 7 RECEPT	**0.60**	**---**	**---**	**1P-30**	**25**		26	1P-20	0.18	---	---	EXIST RECEPT ELEC. ROOM
NEW CHAIR 8 RECEPT	**---**	**0.60**	**---**	**1P-20**	**27**		28	1P-20	---	0.62	---	EXIST LTS ELEC. ROOM
NEW CHAIR 9 RECEPT	**---**	**---**	**0.60**	**1P-20**	**29**		30	1P-20	---	---	0.00	SPARE
EXIST LTS & RECEPT PHONE RM	0.56	---	---	1P-20	31		32		3.78	---	---	
EXIST RECEPT PHONE RM	---	0.36	---	1P-20	33		34	3P-50	---	2.48	---	EXISTING PANEL 'EC4-2'
EXIST RECEPT PHONE RM	---	---	0.36	1P-20	35		36		---	---	3.46	
	0.00	---	---									
MAIN BREAKER	---	0.00	---	3P-100								
	---	---	0.00									
SUB TOTAL	4.16	4.32	3.44						6.16	5.70	5.51	SUB TOTAL
									10.32	10.02	8.95	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 100A
BUS RATING 125A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		3.60	5.22	0.98	125%	4.50	6.53	1.22
GENERAL USE RECEPT		1.62	3.60	2.52	<=10 KVA@100%	1.62	3.60	2.52
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	0.00	0.20	0.25	125%	0.00	0.25	0.31
	ALL OTHERS	1.50	0.40	0.40	100%	1.50	0.40	0.40
DEDICATED RECEPT		3.60	0.60	4.80	100%	3.60	0.60	4.80
FIX. ELEC. SPACE HEAT		0.00	0.00	0.00	100%	0.00	0.00	0.00
TOTAL KVA PER PHASE		10.32	10.02	8.95		11.22	11.38	9.25
TOTAL DEMAND AMPERES PER PHASE						94	95	77
PANEL / FEEDER (TOTAL KVA)								31.85
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								88

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

EXISTING PANEL 'EC4-1' CRITICAL

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
SPACE	0.00	---	---	--	1		2	1P-20	0.70	---	---	NEW EM LTG ONCOLOGY
SPACE	---	0.00	---	--	3		4	1P-20	---	0.60	---	NEW EM NL LTG C4-3,C4-4,C4-6,C3-173
SPACE	---	---	0.00	--	5		6	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	7		8	1P-20	0.00	---	---	SPARE
SPACE	---	0.00	---	--	9		10	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	11		12	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	13		14	1P-20	0.00	---	---	SPARE
SPACE	---	0.00	---	--	15		16	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	17		18	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	19		20	1P-20	0.00	---	---	SPARE
SPACE	---	0.00	---	--	21		22	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	23		24	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	25		26	1P-20	0.00	---	---	SPARE
SPACE	---	0.00	---	--	27		28	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	29		30	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	31		32	1P-20	0.00	---	---	SPARE
SPACE	---	0.00	---	--	33		34	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	35		36	1P-20	---	---	0.00	SPARE
SPACE	0.00	---	---	--	37		38		3.14	---	---	
SPACE	---	0.00	---	--	39		40	3P-60	---	1.92	---	EXISTING PANEL 'ELS4-1'
SPACE	---	---	0.00	--	41		42		---	---	3.40	
SUB TOTAL	0.00	0.00	0.00						3.84	2.52	3.40	SUB TOTAL
									3.84	2.52	3.40	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 10
MCB RATING 225A
BUS RATING 225A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		2.60	0.80	3.04	125%	3.25	1.01	3.80
GENERAL USE RECEPT		0.54	0.72	0.36	<=10 KVA@100%	0.54	0.72	0.36
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	0.00	1.00	0.00	125%	0.00	1.25	0.00
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
TOTAL KVA PER PHASE		3.14	2.52	3.40		3.79	2.98	4.16
TOTAL DEMAND AMPERES PER PHASE						32	25	35
PANEL / FEEDER (TOTAL KVA)								10.93
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								30

NEW PANEL 'ELS4-2'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
SPACE	0.00	---	---	--	1		2	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	3		4	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	5		6	--	---	---	0.00	SPACE
NEW & EXIST EXITS, LTS 400C-6	**1.20**	**---**	**---**	**1P-20**	**7**		8	1P-20	1.20	---	---	EXIST EXITS, CAN LTS 400C-8
EXIST AUTOMATIC DOORS	---	1.00	---	1P-20	9		10	1P-20	---	0.56	---	EX. ELEC. EQUP. RM LTS TO EC4-1 #28
EXIST. COORIDOR LTG	---	---	1.20	1P-20	11		12	1P-20	---	---	1.20	EX LTG WATER TRT 436, 400C-5, EXITS
SPARE	0.00	---	---	1P-20	13		14	1P-20	0.18	---	---	EX. ELEC. EQUP. RM REC TO EC4-1 #26
EX TELE EQUIP RM REC TO EC4-1#33	---	0.36	---	1P-20	15		16	1P-20	---	0.00	---	SPARE
EX SIGNAL EQUIP REC TO EC4-1 #35	---	---	0.36	1P-20	17		18	1P-20	---	---	0.64	EXIST PENTHOUSE LTG
EX LTS&REC TELE CLST TO EC4-1#31	0.56	---	---	1P-20	19		20	1P-20	0.00	---	---	SPARE
SPARE	---	0.00	---	1P-20	21		22	1P-20	---	0.00	---	SPARE
SPARE	---	---	0.00	1P-20	23		24	1P-20	---	---	0.00	SPARE
	0.00	---	---									
MAIN BREAKER	---	0.00	---	3P-60								
	---	---	0.00									
SUB TOTAL	1.76	1.36	1.56						1.38	0.56	1.84	SUB TOTAL
									3.14	1.92	3.40	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 60A
BUS RATING 125A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		2.60	0.20	3.04	125%	3.25	0.25	3.80
GENERAL USE RECEPT		0.54	0.72	0.36	<=10 KVA@100%	0.54	0.72	0.36
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	0.00	1.00	0.00	125%	0.00	1.25	0.00
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
TOTAL KVA PER PHASE		3.14	1.92	3.40		3.79	2.22	4.16
TOTAL DEMAND AMPERES PER PHASE						32	19	35
PANEL / FEEDER (TOTAL KVA)								10.17
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								28

NOTE: ALL MOTOR CIRCUIT BREAKERS SHALL BE HACR RATED.

EXISTING PANEL 'ELS4-1' LIFE SAFETY

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
EXIST RECEPT NURSE STATION 405	1.08	---	---	1P-20	1		2	1P-20	1.20	---	---	EXIST. LTG 401,406-410
EXIST RECEPT NURSE STATION 405	---	1.08	---	1P-20	3		4	1P-20	---	1.20	---	EXIST. LTG 411-417
EXIST RECEPT NURSE STATION 405	---	---	1.08	1P-20	5		**6**	**1P-20**	**---**	**---**	**0.98**	**NEW EM AND EM/NL LTG**
EX NURSE STN 405 MED GAS ALRM	1.00	---	---	1P-20	7		8	1P-20	0.00	---	---	SPARE
SPARE	---	0.00	---	1P-20	9		10	1P-20	---	0.00	---	SPARE
SPARE	---	---	0.00	1P-20	11		12	1P-20	---	---	1.20	EXIST CP-2 RM 410
EXIST. ELECT. DOOR	0.50	---	---	1P-20	13		14		0.00	---	---	
EXIST. NIGHT LIGHT TIMER	---	0.20	---	2P-20	15		16	3P-20	---	0.00	---	SPARE
	---	---	0.20		17		18		---	---	0.00	
SPACE	0.00	---	---	--	19		20	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	21		22	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	23		24	--	---	---	0.00	SPACE
									0.00	---	---	
								3P-50	---	0.00	---	MAIN BREAKER
									---	---	0.00	
SUB TOTAL	2.58	1.28	1.28						1.20	1.20	2.18	SUB TOTAL
									3.78	2.48	3.46	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 50A
BUS RATING 125A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		1.20	1.20	0.98	125%	1.50	1.50	1.22
GENERAL USE RECEPT		1.08	1.08	1.08	<=10 KVA@100%	1.08	1.08	1.08
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	1.00	0.20	0.20	125%	1.25	0.25	0.25
	ALL OTHERS	0.50	0.00	0.00	100%	0.50	0.00	0.00
DEDICATED RECEPT		0.00	0.00	1.20	100%	0.00	0.00	1.20
TOTAL KVA PER PHASE		3.78	2.48	3.46		4.33	2.83	3.75
TOTAL DEMAND AMPERES PER PHASE						36	24	31
PANEL / FEEDER (TOTAL KVA)								10.91
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								30

NOTE: ALL MOTOR CIRCUIT BREAKERS SHALL BE HACR RATED.

EXISTING PANEL 'EC4-2'

EQUIPMENT CONDUCTOR SCHEDULE

TAG	DESCRIPTION	VOLTS	PHASE	LOAD	MOCP	CONDUCTORS		NEUTRAL	GROUND	CONDUIT	PLUG	DISCONNECT TYPE
R	REFRIGERATOR	120	1	1200 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	NEMA 5-20	---
M	MICROWAVE	120	1	1200 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	NEMA 5-20	---
IM	ICE MACHINE	120	1	1200 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	NEMA 5-20	---
4-EF-1	EXHAUST FAN	120	1	80 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-2	EXHAUST FAN	120	1	80 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-3	EXHAUST FAN	120	1	49 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-4	EXHAUST FAN	120	1	1/6 HP	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-5	EXHAUST FAN	120	1	80 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-6	EXHAUST FAN	120	1	80 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-EF-7	EXHAUST FAN	120	1	3/4 HP	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	VFD/NEMA 1 30A
4-TU-1 THRU 4-TU-27	TERMINAL UNIT	120	1	40 W	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A
4-SF-1	SUPPLY FAN 4-AHU-1	460	3	24.3 FLA	3P-35	3	8 AWG	---	8 AWG	1"	---	VFD/NEMA 1 60A
4-SF-2	SUPPLY FAN 4-AHU-2	460	3	12.5 FLA	3P-20	3	12 AWG	---	12 AWG	3/4"	---	VFD/NEMA 3R 30A
4-RF-1	RETURN FAN 4-AHU-1	460	3	17.7 FLA	3P-25	3	10 AWG	---	10 AWG	3/4"	---	VFD/NEMA 1 30A
4-RF-2	RETURN FAN 4-AHU-2	460	3	6.6 FLA	3P-20	3	12 AWG	---	12 AWG	3/4"	---	VFD/NEMA 3R 30A
4-RA-HX-1	HEAT WHEEL 4-AHU-1	460	3	0.38 FLA	3P-20	3	12 AWG	---	12 AWG	3/4"	---	FUSED NEMA 1 30A
4-SSHX-1	HUMIDIFIER 4-AHU-1	120	1	1 A	1P-20	1	12 AWG	12 AWG	12 AWG	3/4"	---	NEMA 1 30A

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

CONSULTANTS:

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — CHARLES G. SOWDERS III — 4/17/13

PROJECT MANAGER:
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Project Number	3541
Scale	3/16" = 1'-0"
Drawing Title	PANEL SCHEDULES
Approved: Project Director	
Project Title	EXPAND EXISTING ONCOLOGY
Location	1111 East End Blvd. Wilkes Barre, PA 18711
Date	04/17/13
Checked	SAE/WCM
Drawn	KLC
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	E-602
Dwg.	64 of 79

Office of Facilities Management
Department of Veterans Affairs

EXISTING PANEL 'SECR4A'

LOAD SERVED	KVA / Phase A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	B	C	LOAD SERVED
EXISTING 30KVA TRANSFORMER 'SECR4B' TO PANEL 'SECR4B'	8.00	---	---	3P-45	1		2	3P-45	8.00	---	---	EXISTING 30 KVA TRANSFORMER 'SECR4B1' TO PANEL 'SECR4B1'
	---	8.00	---		3		4		---	8.00	---	
	---	---	8.00		5		6		---	---	8.00	
SPARE	0.00	---	---	1P-20	7		8	1P-20	0.00	---	---	SPARE
SPARE	---	0.00	---	1P-20	9		10	1P-20	---	0.00	---	SPARE
SPACE	---	---	0.00	--	11		12	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	13		14	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	15		16	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	17		18	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	19		20	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	21		22	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	23		24	--	---	---	0.00	SPACE
NEW 4-AHU-2 RETURN FAN 4-RF-2	**1.83**	**---**	**---**	**3P-20**	**25**		**26**	**3P-20**	**3.46**	**---**	**---**	**NEW 4-AHU-2 SUPPLY FAN 4-SF-2**
	---	**1.83**	**---**		**27**		**28**		**---**	**3.46**	**---**	
	---	**---**	**1.83**		**29**		**30**		**---**	**---**	**3.46**	
SUB TOTAL	9.83	9.83	9.83						11.46	11.46	11.46	SUB TOTAL
									21.29	21.29	21.29	TOTAL

C/B TEMP. 75 C. RATING 277 480 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER		YES	X	NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 14
MCB RATING MLO
BUS RATING 250A
NEUTRAL RATING 100%

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

LOAD TYPE		CONNECTED KVA A	B	C	NEC DEM FACTOR	DEMAND KVA A	B	C
GENERAL LIGHTING		0.00	0.00	0.00	125%	0.00	0.00	0.00
GENERAL USE RECEPT		8.00	8.00	8.00	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	2.34	2.34	2.34
MOTORS AND EQUIPMENT	LARGEST	3.46	3.46	3.46	125%	4.33	4.33	4.33
	ALL OTHERS	1.83	1.83	1.83	100%	1.83	1.83	1.83
DEDICATED RECEPT		8.00	8.00	8.00	100%	8.00	8.00	8.00
TOTAL KVA PER PHASE		21.29	21.29	21.29		19.82	19.82	19.82
TOTAL DEMAND AMPERES PER PHASE						72	72	72
PANEL / FEEDER (TOTAL KVA)								59.46
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								72

EXISTING PANEL 'W4E2'

LOAD SERVED	KVA / Phase A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	B	C	LOAD SERVED
SPACE	0.00	---	---	--	1		**2**	**3P-80**	**3.02**	**---**	**---**	**NEW PANEL 'W4E3'**
SPACE	---	0.00	---	--	3		**4**		**---**	**2.32**	**---**	
SPACE	---	---	0.00	--	5		**6**		**---**	**---**	**3.02**	
EXIST RECEPT COMPUTER ANT.	1.08	---	---	1P-20	7		8	--	0.00	---	---	SPACE
NEW SINK & TLT PWR C4-10&11	**---**	**0.60**	**---**	**1P-20**	**9**		10	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	11		12	1P-20	---	---	1.08	EXIST RECEPT AMB CARE
EXIST MED GAS PANEL	0.00	---	---	1P-20	13		14	1P-20	1.08	---	---	EXIST RECEPT NURSE WK.
SPARE	---	0.00	---	1P-20	15		16	1P-20	---	1.08	---	EXIST RECEPT CLEAN STORAGE
SPARE	---	---	0.00	1P-20	17		18	1P-20	---	---	1.08	EXIST RECEPT HALLWAY
EXIST RECEPT C4-70A	1.08	---	---	1P-20	19		20	1P-20	0.50	---	---	EXIST SECURITY GRILL
EXIST RECEPT C4-70A	---	1.08	---	1P-20	21		22	1P-20	---	0.50	---	EXIST SECURITY GRILL
EXIST RECEPT CHEMO.	---	---	1.08	1P-20	23		24	1P-20	---	---	1.08	EXIST RECEPT NURSE STATION
EXIST RECEPT CHEMO.	1.08	---	---	1P-20	25		26	1P-20	1.08	---	---	EXIST RECEPT NURSE STATION
EXIST RECEPT CHEMO.	---	1.08	---	1P-20	27		28	1P-20	---	1.08	---	EXIST RECEPT NURSE STATION
EXIST RECEPT CHEMO.	---	---	1.08	1P-20	29		30	1P-20	---	---	1.08	EXIST RECEPT ISOLATION
EXIST RECEPT NURSE WK.	1.08	---	---	1P-20	31		32	1P-20	1.08	---	---	EXIST RECEPT SPU 1
EXIST RECEPT SPU 11	---	1.08	---	1P-20	33		34	1P-20	---	1.08	---	EXIST RECEPT SPU 2
EXIST RECEPT SPU 10	---	---	1.08	1P-20	35		36	1P-20	---	---	1.08	EXIST RECEPT SPU 3
EXIST RECEPT SPU 9	1.08	---	---	1P-20	37		38	1P-20	1.08	---	---	EXIST RECEPT SPU 4
EXIST RECEPT SPU 8	---	1.08	---	1P-20	39		40	1P-20	---	1.08	---	EXIST RECEPT SPU 5
EXIST RECEPT SPU 7	---	---	1.08	1P-20	41		42	1P-20	---	---	1.08	EXIST RECEPT SPU 6
SUB TOTAL	5.40	4.92	4.32						7.84	7.14	9.50	SUB TOTAL
									13.24	12.06	13.82	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 225A
BUS RATING 225A
NEUTRAL RATING 100%

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

LOAD TYPE		CONNECTED KVA A	B	C	NEC DEM FACTOR	DEMAND KVA A	B	C
GENERAL LIGHTING		0.00	0.00	0.00	125%	0.00	0.00	0.00
GENERAL USE RECEPT		10.44	9.36	11.52	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	3.56	3.02	4.10
MOTORS AND EQUIPMENT	LARGEST	0.50	0.50	1.10	125%	0.63	0.63	1.38
	ALL OTHERS	0.90	0.60	0.00	100%	0.90	0.60	0.00
DEDICATED RECEPT		1.40	1.60	1.20	100%	1.40	1.60	1.20
TOTAL KVA PER PHASE		13.24	12.06	13.82		9.81	9.17	10.00
TOTAL DEMAND AMPERES PER PHASE						82	76	83
PANEL / FEEDER (TOTAL KVA)								28.98
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								80

EXISTING PANEL 'LP4-1'

LOAD SERVED	KVA / Phase A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	B	C	LOAD SERVED
EXIST. TRAN MAIN TO EXISTING PANELS 'PP4-1', 'PP4-2', & 'PP4-3'	28.16	---	---	3P-175								
	---	29.88	---									
	---	---	31.20									
SPACE	0.00	---	---	--	1		2	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	3		4	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	5		6	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	7		8	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	9		10	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	11		12	--	---	---	0.00	SPACE
NEW 4-AHU-1 SUPPLY FAN 4-SF-1 AND HEAT WHEEL 4-RA-HX-1	**7.01**	**---**	**---**	**3P-35**	**13**		**14**	**3P-25**	**4.91**	**---**	**---**	**NEW 4-AHU-1 RETURN FAN 4-RF-1**
	---	**7.01**	**---**		**15**		**16**		**---**	**4.91**	**---**	
	---	**---**	**7.01**		**17**		**18**		**---**	**---**	**4.91**	
EXIST. PENTHOUSE PPR-1 T2	8.00	---	---	3P-50	19		20	3P-70	12.75	---	---	EXIST RM 4-131 TRANSFORMER T5 PP4-4 TO EXISTING PANEL 'PP4-4'
	---	8.00	---		21		22		---	14.08	---	
	---	---	8.00		23		24		---	---	11.79	
SUB TOTAL	43.17	44.89	46.21						17.66	18.99	16.69	SUB TOTAL
									60.83	63.87	62.90	TOTAL

C/B TEMP. 75 C. RATING 277 480 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 14
MCB RATING 300A
BUS RATING 400A
NEUTRAL RATING 100%

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

LOAD TYPE		CONNECTED KVA A	B	C	NEC DEM FACTOR	DEMAND KVA A	B	C
GENERAL LIGHTING		10.30	6.24	7.32	125%	12.87	7.80	9.15
GENERAL USE RECEPT		24.12	25.20	19.98	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	10.40	10.94	8.33
MOTORS AND EQUIPMENT	LARGEST	7.01	7.01	7.01	125%	8.76	8.76	8.76
	ALL OTHERS	14.41	16.23	18.60	100%	14.41	16.23	18.60
DEDICATED RECEPT		5.00	9.20	10.00	100%	5.00	9.20	10.00
TOTAL KVA PER PHASE		60.83	63.87	62.90		54.76	56.25	58.16
TOTAL DEMAND AMPERES PER PHASE						198	203	210
PANEL / FEEDER (TOTAL KVA)								169.17
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								203

RELOCATED PANEL 'W4L'

LOAD SERVED	KVA / Phase A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	B	C	LOAD SERVED
EXIST RECEPT RECEPTION A	1.08	---	---	1P-20	1		**2**	**1P-20**	**1.08**	**---**	**---**	**NEW RECEPT C4-08-C4-11**
EXIST RECEPT RECEPTION B	---	1.08	---	1P-20	3		**4**	**1P-20**	**---**	**1.08**	**---**	**NEW RECEPT C4-06,C4-08**
EXIST RECEPT RM 4-15,4-16	---	---	1.08	1P-20	5		6	1P-20	---	---	0.80	EXIST EXAM LTS
EXIST RECEPT RM 4-17,4-18	1.08	---	---	1P-20	7		8	1P-20	1.08	---	---	EXIST RECEPT AMB CARE
EXIST RECEPT AMB. CARE	---	1.08	---	1P-20	9		10	2P-30	---	2.00	---	EXIST NOURISHMENT CENTER
SPARE	---	---	0.00	1P-20	11		12		---	---	2.00	
EXIST RECEPT AMB. CARE	1.08	---	---	1P-20	13		14	1P-20	0.00	---	---	SPARE
EXIST RECEPT STAFF LOUNGE	---	1.08	---	1P-20	15		16	1P-20	---	1.00	---	EXIST FILM ILLUMINATOR
EXIST RECEPT WAITING	---	---	1.08	1P-20	17		18	1P-20	---	---	1.08	EXIST RECEPT 4-22
EXIST RECEPT OFFICE	1.08	---	---	1P-20	19		20	1P-20	1.08	---	---	EXIST RECEPT 4-23,4-24
EXIST RECEPT OFFICE	---	1.08	---	1P-20	21		22	1P-20	---	1.08	---	EXIST RECEPT CORRIDOR
EXIST RECEPT CONFERENCE	---	---	1.08	1P-20	23		24	1P-20	---	---	1.08	EXIST RECEPT HALLWAY
EXIST LIGHTING SPU	1.20	---	---	1P-20	25		26	1P-20	1.08	---	---	EXIST RECEPT HALLWAY
EXIST LIGHTING SPU	---	1.20	---	1P-20	27		28	1P-20	---	1.00	---	EXIST FILM ILLUMINATOR
EXIST LIGHTING ISOLATION	---	---	1.20	1P-20	29		**30**	**1P-20**	**---**	**---**	**1.08**	**NEW RECEPT C4-07**
EXIST LIGHTING DETOX	1.20	---	---	1P-20	31		32	1P-20	1.08	---	---	EXIST RECEPT STAFF LOUNGE
EXIST LIGHTING CORRIDOR	---	1.20	---	1P-20	33		**34**	**1P-20**	**---**	**1.20**	**---**	**NEW COPIER 4-172**
EXIST LIGHTING NURSE WORK	---	---	1.20	1P-20	35		**36**	**1P-20**	**---**	**---**	**1.26**	**NEW RECEPT C4-04**
EXIST LIGHTING WAITING	1.20	---	---	1P-20	37		**38**	**1P-20**	**1.08**	**---**	**---**	**NEW RECEPT 4-172**
EXIST LIGHTING CORRIDOR	---	1.20	---	1P-20	39		**40**	**1P-20**	**---**	**1.08**	**---**	**NEW RECEPT C4-05**
EXIST FAN COIL RECEPTION	---	---	1.00	1P-20	41		**42**	**1P-20**	**---**	**---**	**1.08**	**NEW RECEPT C4-07**
SUB TOTAL	7.92	7.92	6.64						6.48	8.44	8.38	SUB TOTAL
									14.40	16.36	15.02	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 200A
BUS RATING 200A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	B	C	NEC DEM FACTOR	DEMAND KVA A	B	C
GENERAL LIGHTING		3.60	3.60	3.20	125%	4.50	4.50	4.00
GENERAL USE RECEPT		9.72	7.56	8.82	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	3.20	2.12	2.75
MOTORS AND EQUIPMENT	LARGEST	1.08	1.00	1.00	125%	1.35	1.25	1.25
	ALL OTHERS	0.00	1.00	0.00	100%	0.00	1.00	0.00
DEDICATED RECEPT		0.00	3.20	2.00	100%	0.00	3.20	2.00
TOTAL KVA PER PHASE		14.40	16.36	15.02		12.38	15.40	13.33
TOTAL DEMAND AMPERES PER PHASE						103	128	111
PANEL / FEEDER (TOTAL KVA)								41.10
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								114

NEW PANEL 'W4E3'

LOAD SERVED	KVA / Phase A	B	C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	B	C	LOAD SERVED
NEW RECEPT NURSE STN C3-173	0.72	---	---	1P-20	1		2	--	0.00	---	---	SPACE
NEW RECEPT CRASH CART C3-173	---	0.20	---	1P-20	3		4	--	---	0.00	---	SPACE
NEW RECEPT NURSE STN C3-173	---	---	0.72	1P-20	5		6	--	---	---	0.00	SPACE
NEW RECEPT CRASH CART C3-173	0.20	---	---	1P-20	7		8	--	0.00	---	---	SPACE
NEW RECEPT NURSE STN C3-173	---	0.72	---	1P-20	9		10	--	---	0.00	---	SPACE
NEW TLT & FCT POWER	---	---	1.10	1P-20	11		12	--	---	---	0.00	SPACE
NEW RECEPT REF 4-150	1.20	---	---	1P-20	13		14	--	0.00	---	---	SPACE
NEW RECEPT REF 4-150	---	1.20	---	1P-20	15		16	--	---	0.00	---	SPACE
NEW RECEPT REF 4-152	---	---	1.20	1P-20	17		18	--	---	---	0.00	SPACE
NEW TLT & FCT POWER	0.90	---	---	1P-20	19		20	--	0.00	---	---	SPACE
NEW RECEPT CRASH CART 4-152	---	0.20	---	1P-20	21		22	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	23		24	--	---	---	0.00	SPACE
SPACE	0.00	---	---	--	25		26	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	27		28	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	29		30	--	---	---	0.00	SPACE
SUB TOTAL	3.02	2.32	3.02						0.00	0.00	0.00	SUB TOTAL
									3.02	2.32	3.02	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 10
MCB RATING 80A
BUS RATING 100A
NEUTRAL RATING 100%

NOTE: ALL MOTOR CIRCUIT BREAKERS SHALL BE HACR RATED.

LOAD TYPE		CONNECTED KVA A	B	C	NEC DEM FACTOR	DEMAND KVA A	B	C
GENERAL LIGHTING		0.00	0.00	0.00	125%	0.00	0.00	0.00
GENERAL USE RECEPT		0.72	0.72	0.72	<=10 KVA@100%	0.72	0.72	0.72
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	0.90	0.00	1.10	125%	1.13	0.00	1.38
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
DEDICATED RECEPT		1.40	1.60	1.20	100%	1.40	1.60	1.20
TOTAL KVA PER PHASE		3.02	2.32	3.02		3.25	2.32	3.30
TOTAL DEMAND AMPERES PER PHASE						27	19	27
PANEL / FEEDER (TOTAL KVA)								8.86
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								25

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions | Date

CONSULTANTS:

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Project Number	3541
Scale	3/16" = 1'-0"
Drawing Title	PANEL SCHEDULES
Project Title	EXPAND EXISTING ONCOLOGY
VA Project Number	693-11-122
Building Number	1 & 27
Approved: Project Director	
Location	1111 East End Blvd. Wilkes Barre, PA 18711
Date	04/17/13
Checked	SAE/WCM
Drawn	KLC
Drawing Number	E-603
Dwg.	65 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

EXISTING PANEL 'PP4-1'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
SPACE	0.00	---	---	--	1		2	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	3		4	--	---	0.00	---	SPACE
EXIST LTS BED 146,153,155,160,183	---	---	1.20	1P-20	5		6	1P-20	---	---	1.08	EX. RECEPT RM 422 - NURSE STATION
NEW LTS 4-126,152-157,160,162,EF3	1.78	---	---	1P-20	7		8	1P-20	1.20	---	---	EXIST BED LTG 134,140,142,148
NEW LTS INFUSION CHAIRS 1-12	---	1.51	---	1P-20	9		10	1P-20	---	1.08	---	EXIST RECEPT VIEWING 425
SPARE	---	---	0.00	1P-20	11		12	1P-20	---	---	1.08	EXIST RECEPT HEADWALL RM 422
SPARE	0.00	---	---	1P-20	13		14	1P-20	1.08	---	---	EXIST RECEPT BEAD LOCATORS RM 422
NEW LTS CORR. C4-3,C4-4,C4-6	---	0.86	---	1P-20	15		16	1P-20	---	1.00	---	EXIST HEADWALL RM 422
NEW LTS 4-143-149 & EF-1&2	---	---	1.74	1P-20	17		18	1P-20	---	---	0.72	NEW RECEPT 4-126,4-162
NEW & EX LTG 430,428,426,CORR	1.82	---	---	1P-20	19		20	1P-20	0.36	---	---	NEW RECEPT COUNTER BREAK 4-126
NEW LTS INFUSION, NURSE STN	---	1.67	---	1P-20	21		22	1P-20	---	0.00	---	SPARE
SPARE	---	---	0.00	1P-20	23		24	1P-20	---	---	1.20	NEW MICROWAVE BREAK 4-126
SPARE	0.00	---	---	1P-20	25		26	1P-20	1.20	---	---	EX LTG CORR 400C-5, DIALY STOR 438-43
EXIST LTG CORR. 400C-1,2,6 & 9	---	1.20	---	1P-20	27		28	1P-20	---	0.00	---	SPARE
EXIST LTG WEST WING	---	---	1.60	1P-20	29		30	1P-20	---	---	0.00	SPARE
SPARE	0.00	---	---	1P-20	31		32	1P-20	0.00	---	---	SPARE
SPARE	---	0.00	---	1P-20	33		34	1P-20	---	0.00	---	SPARE
SPARE	---	---	0.00	1P-20	35		36	1P-20	---	---	0.00	SPARE
EXIST HOSPICE COUNTER	1.08	---	---	1P-20	37		38	1P-20	1.08	---	---	EXIST RECEPT RM 152
EXIST HOSPICE REFRIGERATOR	---	1.20	---	1P-20	39		40	1P-20	---	1.08	---	EXIST HOSPICE COUNTER
EXIST HOSPICE COFFEE	---	---	1.20	1P-20	41		42	1P-20	---	---	1.20	EXIST HOSPICE MICROWAVE
SUB TOTAL	4.68	6.44	5.74						4.92	3.16	5.28	SUB TOTAL
									9.60	9.60	11.02	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 125A
BUS RATING 225A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		6.00	5.24	4.54	125%	7.50	6.55	5.67
GENERAL USE RECEPT		3.60	2.16	2.88	<=10 KVA@100%	3.60	2.16	2.88
					>10KVA@50%	0.00	0.00	0.00
MOTORS AND EQUIPMENT	LARGEST	0.00	1.00	0.00	125%	0.00	1.25	0.00
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
DEDICATED RECEPT		0.00	1.20	3.60	100%	0.00	1.20	3.60
TOTAL KVA PER PHASE		9.60	9.60	11.02		11.10	11.16	12.15
TOTAL DEMAND AMPERES PER PHASE						93	93	101
PANEL / FEEDER (TOTAL KVA)								34.42
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								96

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

EXISTING PANEL 'PP4-2'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
SPARE	0.00	---	---	1P-20	1		2	1P-20	0.00	---	---	SPARE
SPARE	---	0.00	---	1P-20	3		4	1P-20	---	0.00	---	SPARE
NEW REF BREAK RM 4-126	---	---	1.20	1P-20	5		6	1P-20	---	---	0.60	NEW WINDOW SHADES EAST
EXIST RM 138-137	1.08	---	---	1P-20	7		8	1P-20	1.08	---	---	EXIST BED 142-148
EXIST RM 134-140	---	1.08	---	1P-20	9		10	1P-20	---	1.08	---	EXIST BED 134-140
NEW 4-EF-4	---	---	0.51	1P-20	11		12	1P-20	---	---	0.18	NEW ROOFTOP RECEPT
EX RECEPT STERILE STOR RM 435	1.08	---	---	1P-20	13		14	1P-20	0.72	---	---	EXIST RECEPT CATH RECOVERY
EXIST RECEPT 439,440,441	---	1.08	---	1P-20	15		16	1P-20	---	0.00	---	SPARE
EX RM 100,103,106,109,185,187	---	---	1.08	1P-20	17		18	1P-20	---	---	0.00	SPARE
EX. CATH LAB HEADWALL	0.90	---	---	1P-20	19		20	1P-30	0.00	---	---	SPARE
EXIST LTG HEMO 404	---	1.00	---	1P-20	21		22	1P-20	---	0.54	---	EXIST RECEPT DICTATION 427-CORR
NEW RECEPTS NURSE STN C3-173	---	---	0.72	1P-20	23		24	1P-20	---	---	0.00	SPARE
NEW RECEPTS CHAIRS 10-12	1.08	---	---	1P-20	25		26	1P-20	1.08	---	---	EX. GFI RECEPT 101,102,107,108
NEW RECEPTS CHAIRS 7-9	---	1.08	---	1P-20	27		28	1P-20	---	1.08	---	EX. GFI RECEPT 184,186,188
NEW RECEPTS 4-154	---	---	0.90	1P-20	29		30	1P-20	---	---	1.08	EXIST RECEPT 428-430, CORR
SPARE	0.00	---	---	1P-20	31		32	1P-20	0.00	---	---	SPARE
NEW 4-TU'S 4-11 & 19	---	0.32	---	1P-20	33		34	1P-20	---	1.50	---	EX. UNIT VENTS 100-103,106,109
EXIST RECEPT RM 119	---	---	1.08	1P-20	35		36	1P-20	---	---	0.60	NEW WINDOW SHADES WEST
EXIST LTG 429,428,427,425	1.00	---	---	1P-20	37		38	1P-20	1.20	---	---	EX. LTG CORR 400C-3&4, NURSE ST.
SPARE	---	0.00	---	1P-20	39		40	1P-20	---	0.50	---	EX HEAT LAMP 105
SPARE	---	---	0.00	1P-20	41		42	1P-20	---	---	0.40	NEW 4-TU'S 1-3 & 12-18
SUB TOTAL	5.14	4.56	5.49						4.08	4.70	2.86	SUB TOTAL
									9.22	9.26	8.35	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 90A
BUS RATING 125A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		2.20	1.00	0.00	125%	2.75	1.25	0.00
GENERAL USE RECEPT		6.12	5.94	5.04	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	1.40	1.31	0.86
MOTORS AND EQUIPMENT	LARGEST	0.90	1.50	0.60	125%	1.13	1.88	0.75
	ALL OTHERS	0.00	0.82	1.51	100%	0.00	0.82	1.51
DEDICATED RECEPT		0.00	0.00	1.20	100%	0.00	0.00	1.20
TOTAL KVA PER PHASE		9.22	9.26	8.35		8.60	8.58	7.64
TOTAL DEMAND AMPERES PER PHASE						72	72	64
PANEL / FEEDER (TOTAL KVA)								24.82
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								69

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

EXISTING PANEL 'PP4-3'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
SPACE	0.00	---	---	--	1		2	--	0.00	---	---	SPACE
SPACE	---	0.00	---	--	3		4	--	---	0.00	---	SPACE
SPACE	---	---	0.00	--	5		6	--	---	---	0.00	SPACE
NEW 4-AHU-1 HUMIDIFIER	0.12	---	---	1P-20	7		8	--	0.00	---	---	SPACE
EXIST HOSPICE STOVE	---	4.00	---	2P-50	9		10	--	---	0.00	---	SPACE
	---	---	4.00		11		12	--	---	---	0.00	SPACE
NEW ICE MAKER MEDS 4-152	1.00	---	---	1P-20	13		14	1P-20	0.90	---	---	NEW & EXIST RM 157-158
NEW RECEPTS MEDS 4-152	---	0.90	---	1P-20	15		16	1P-20	---	0.90	---	NEW & EXIST RECEPT 158
EX REC STOR 438,437,CORR400C-5	---	---	1.08	1P-20	17		18	1P-20	---	---	0.72	EXIST RECEPT OFFICE 4-177
EXIST RECEPT NEW OFFICE 4-176	0.72	---	---	1P-20	19		20	1P-20	1.08	---	---	EX RECPT 128,132,144,146,CORR C4-4,5,7
EXIST 4-182	---	0.18	---	1P-20	21		22	1P-20	---	1.08	---	NEW RECEPTS OFFICE 4-176
EXIST RECEPT 420	---	---	0.90	1P-20	23		24	1P-20	---	---	0.90	NEW RECEPTS C4-4,4-14,149
EXIST LTG RM 420	1.20	---	---	1P-20	25		26	1P-20	1.08	---	---	NEW RECEPTS 4-143
EXIST RECEPT CLEAN UTILITY 430	---	0.90	---	1P-20	27		28	1P-20	---	1.08	---	NEW RECEPTS & FURN 4-146
NEW RECEPTS CHAIRS 1-3	---	---	1.08	1P-20	29		30	1P-20	---	---	1.08	NEW RECEPTS & FURN 4-147
NEW RECEPTS CHAIRS 4-6	1.08	---	---	1P-20	31		32	1P-20	1.08	---	---	NEW RECEPTS & FURN 4-148
NEW RECEPTS & FURN 4-144	---	1.26	---	1P-20	33		34	1P-20	---	0.72	---	NEW RECEPT4-153,155,156
SPARE	---	---	0.00	2P-30	35		36	1P-20	---	---	1.08	NEW RECEPT 4-155,4-160
	0.00	---	---		37		38	1P-20	1.08	---	---	NEW RECEPT 4-160
SPARE	---	0.00	---	1P-20	39		40	2P-30	---	0.00	---	SPARE
EXIST ELNC-4-5	---	---	1.00	1P-20	41		42		---	---	0.00	
SUB TOTAL	4.12	7.24	8.06						5.22	3.78	3.78	SUB TOTAL
									9.34	11.02	11.84	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 125A
BUS RATING 225A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		1.20	0.00	0.00	125%	1.50	0.00	0.00
GENERAL USE RECEPT		7.02	7.02	6.84	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	1.85	1.85	1.76
MOTORS AND EQUIPMENT	LARGEST	0.12	0.00	1.00	125%	0.15	0.00	1.25
	ALL OTHERS	0.00	0.00	0.00	100%	0.00	0.00	0.00
DEDICATED RECEPT		1.00	4.00	4.00	100%	1.00	4.00	4.00
TOTAL KVA PER PHASE		9.34	11.02	11.84		7.83	9.18	10.34
TOTAL DEMAND AMPERES PER PHASE						65	76	86
PANEL / FEEDER (TOTAL KVA)								27.34
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								76

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

EXISTING PANEL 'PP4-4'

LOAD SERVED	KVA / Phase A	KVA / Phase B	KVA / Phase C	CKT BRKR	CKT NO	NEUTRAL A B C	CKT NO	CKT BRKR	KVA / Phase A	KVA / Phase B	KVA / Phase C	LOAD SERVED
NEW LTS & EF-5&6 C4-05,C4-07-11	1.05	---	---	1P-20	1		2	1P-20	1.08	---	---	EXIST RECEPT 406-409
EX. BAY 7 RECEPT CATV RECEPT	---	1.08	---	1P-20	3		4	1P-20	---	1.08	---	EXIST RECEPT 410
NEW & EXIST. LTS 401, 4-114	---	---	1.20	1P-20	5		6	1P-20	---	---	1.20	EXIST COPIER 410
EXIST. RECEPT 401	1.08	---	---	1P-20	7		8	1P-20	0.54	---	---	EXIST ELECT RM RECEPT
EX RECEPT HEADWALL BAY 7404	---	0.36	---	1P-20	9		10	1P-20	---	1.08	---	EXIST RECEPT 402-403
EXIST RECEPT 416-417	---	---	1.08	1P-20	11		12	1P-20	---	---	0.29	NEW & EX.LTS ELECT RM & JAN
EX RECEPT HEADWALL BAY 6 404	0.36	---	---	1P-20	13		14	1P-20	1.08	---	---	EXIST RECEPT 411,412,413
EX RECEPT HEADWALL BAY5&6 404	---	0.36	---	1P-20	15		16	1P-20	---	1.08	---	EXIST RECEPT 414, CORR 400-C2
EX RECEPT HEADWALL BAY 5 404	---	---	0.36	1P-20	17		18	1P-20	---	---	1.00	EXIST HEADWALL RM 414
EX RECEPT HEADWALL BAY 4 404	0.36	---	---	1P-20	19		20	1P-20	1.08	---	---	EXIST RECEPT NURSE STATION 405
EXIST RECEPT BAY 3&4 404	---	1.08	---	1P-20	21		22	1P-20	---	1.08	---	EXIST RECEPT
EXIST RECEPT CORRIDOR 400C-3	---	---	1.08	1P-20	23		24	1P-20	---	---	0.90	NEW & EX RECEPT 4-130,4-131,4-117
EXIST ONCOLOGY RECEPT	1.08	---	---	1P-20	25		26	1P-20	0.36	---	---	EX RECEPT HEADWALL 402
EX RECEPT HEADWALL BAY 3 404	---	0.36	---	1P-20	27		28	1P-20	---	1.08	---	EXIST RECEPT COUNTERTOP 401
EX RECEPT HEADWALL BAY 2 404	---	---	0.36	1P-20	29		30	1P-20	---	---	1.08	EXIST RECEPT COUNTERTOP 401
NEW ROOFTOP RECEPTS	0.36	---	---	1P-20	31		32	2P-50	4.00	---	---	EXIST 50A RECEPT RM 401
EXIST RECEPT BAY 1 & 2 404	---	0.36	---	1P-20	33		34		---	4.00	---	
EX RECEPT HEADWALL BAY 1 404	---	---	0.36	1P-20	35		36	1P-20	---	---	1.59	NEW 4-EF-7
NEW 4-TU-20 THRU 4-TU-27	0.32	---	---	1P-20	37		38	1P-20	0.00	---	---	SPARE
EXIST RECEPT CORRIDOR 400C-2	---	1.08	---	1P-20	39		40	1P-20	---	0.00	---	SPARE
NEW LTS C4-02,C4-04, C4-06, 4-172	---	---	1.29	1P-20	41		42	1P-20	---	---	0.00	SPARE
SUB TOTAL	4.61	4.68	5.73						8.14	9.40	6.06	SUB TOTAL
									12.75	14.08	11.79	TOTAL

C/B TEMP. 75 C. RATING 120 208 V 3 PH 4 WIRE
MOUNTING SURFACE

		YES		NO
ISOLATED GROUND BUS		YES	X	NO
MAIN CIRCUIT BREAKER	X	YES		NO
SERVICE ENTR. RATED		YES	X	NO

MINIMUM AIC (K AMPS) 22
MCB RATING 175A
BUS RATING 225A
NEUTRAL RATING 100%

LOAD TYPE		CONNECTED KVA A	CONNECTED KVA B	CONNECTED KVA C	NEC DEM FACTOR	DEMAND KVA A	DEMAND KVA B	DEMAND KVA C
GENERAL LIGHTING		0.89	0.00	2.78	125%	1.12	0.00	3.48
GENERAL USE RECEPT		7.38	10.08	5.22	<=10 KVA@100%	3.33	3.33	3.33
					>10KVA@50%	2.03	3.38	0.95
MOTORS AND EQUIPMENT	LARGEST	0.32	0.00	1.59	125%	0.40	0.00	1.98
	ALL OTHERS	0.16	0.00	1.00	100%	0.16	0.00	1.00
DEDICATED RECEPT		4.00	4.00	1.20	100%	4.00	4.00	1.20
TOTAL KVA PER PHASE		12.75	14.08	11.79		11.03	10.71	11.93
TOTAL DEMAND AMPERES PER PHASE						92	89	99
PANEL / FEEDER (TOTAL KVA)								33.67
(TOTAL KVA) X 1000 / VOLTS X 1.732 = TOTAL AMPS								93

NOTE: ALL MOTOR CIRCUIT BREAKERS MUST BE HACR RATED.

FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions | Date

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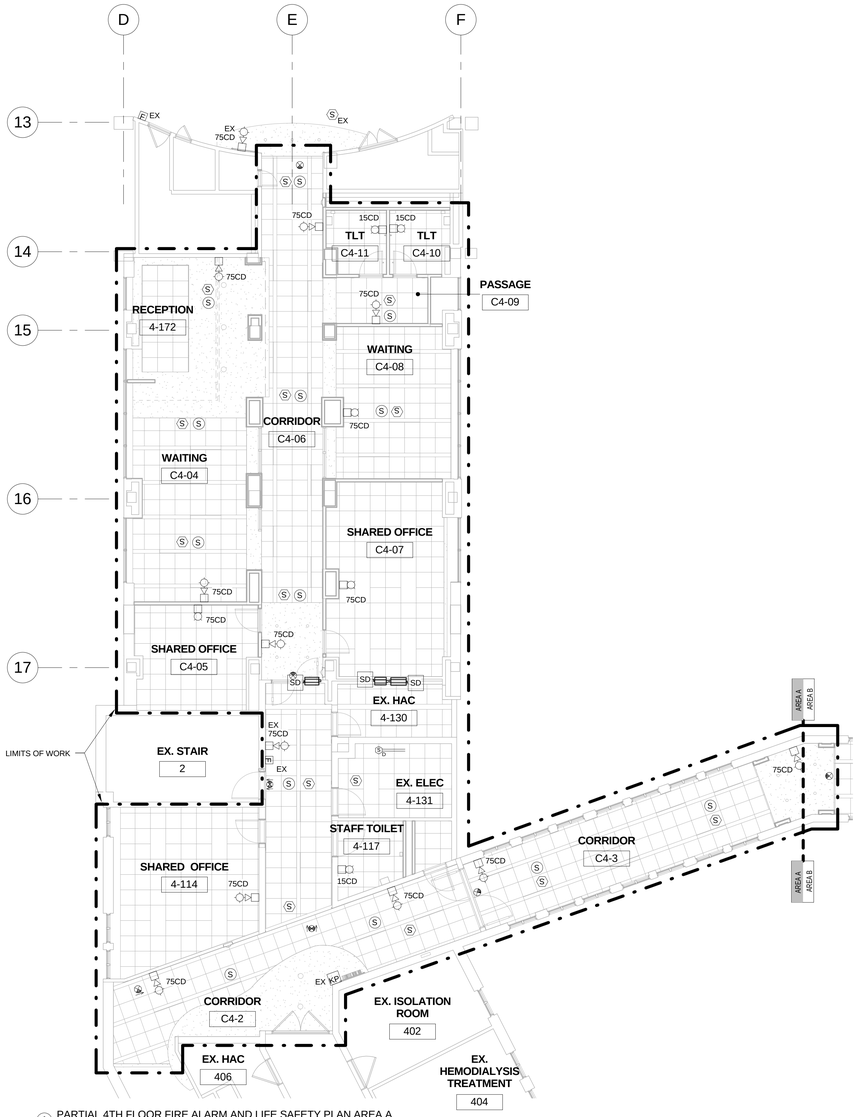
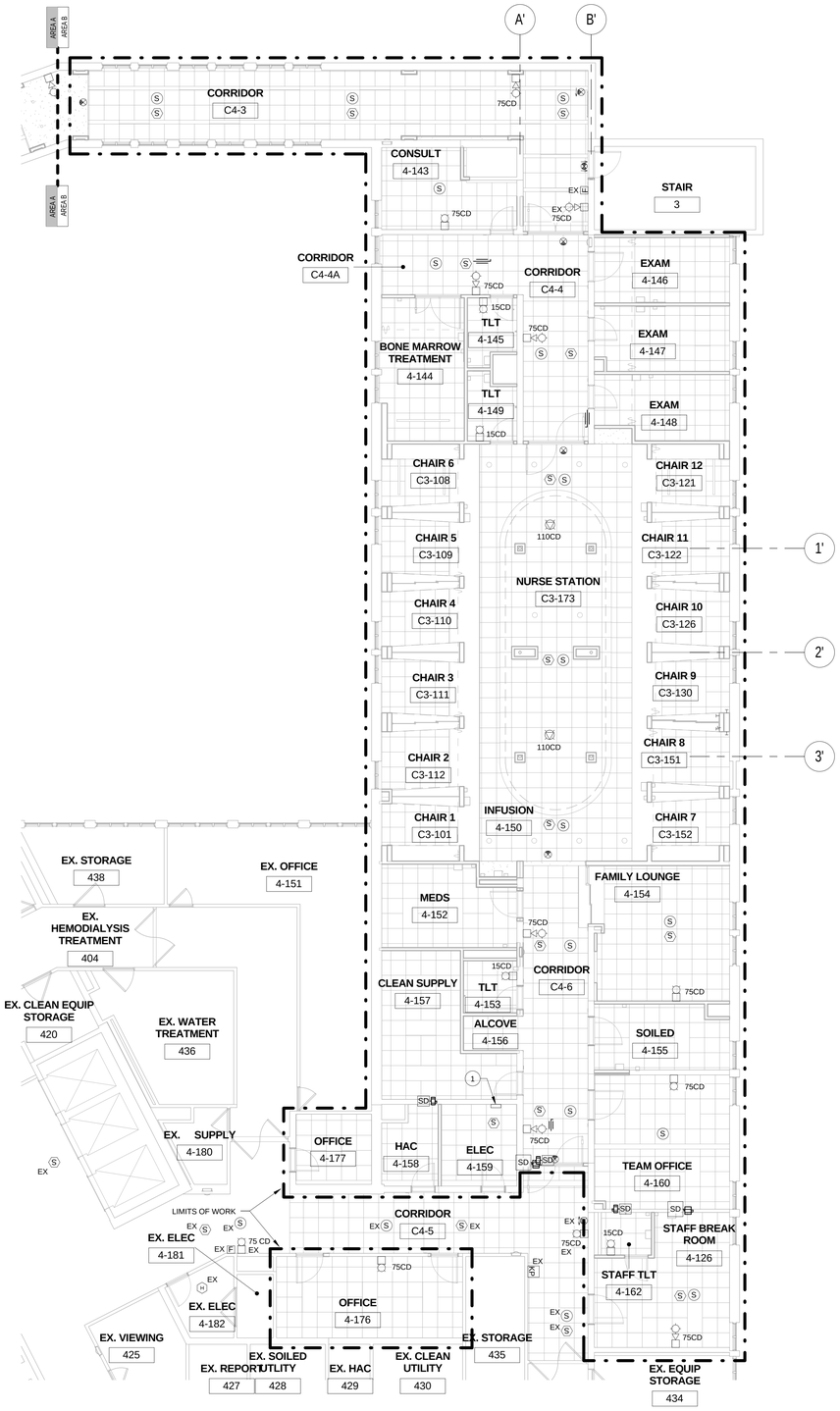
Project Number	3541
Scale	3/16" = 1'-0"
Drawing Title	PANEL SCHEDULES
Approved: Project Director	
Project Title	EXPAND EXISTING ONCOLOGY
Location	1111 East End Blvd. Wilkes Barre, PA 18711
Date	04/17/13
Checked	SAE/WCM
Drawn	KLC
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	E-604
Dwg.	66 of 79

Office of Facilities Management
Department of Veterans Affairs



1 PARTIAL 4TH FLOOR FIRE ALARM AND LIFE SAFETY PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR FIRE ALARM AND LIFE SAFETY PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. CIRCUIT ALL EXIT SIGNS ON EMERGENCY LIGHTING CIRCUIT SERVING THE SAME AREA AHEAD OF ANY SWITCHING.

B. A CORRIDOR, ROOM, OR ADJACENT SPACE WITH TWO OR MORE VISIBLE NOTIFICATION APPLIANCES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCRONIZATION.

C. TIE ALL NEW FIRE ALARM DEVICES INTO EXISTING FIRE ALARM PANEL.

D. SEE 1/EL141 & 2/EL141 FOR EMERGENCY LIGHTING LOCATIONS.

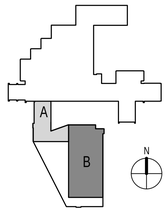
E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE TEMPORARY POWER, LIGHTING AND FIRE ALARM SYSTEMS AS NEEDED. IN ADDITION, LOW VOLTAGE SYSTEMS SERVING OTHER AREAS OF THE HOSPITAL SHALL NOT BE INTERRUPTED. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

F. DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, TIED INTO FIRE ALARM BY ELECTRICAL CONTRACTOR, AND TIED INTO BAS BY CONTROLS CONTRACTOR.

KEYED NOTES (#)

1 EXISTING FIRE ALARM PANEL.

KEY PLAN



FULLY SPRINKLERED
ISSUED FOR 100% REVIEW

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR FIRE ALARM AND LIFE SAFETY PLANS

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date	Checked	Drawn
04/17/13	SAE/WCM	KLC

VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: FA141
Dwg. 67 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
FD-C	FLOOR DRAIN	2"	1-1/2"	---	---	2	---	No	No	---
P-103	WATER CLOSET - FLUSH VALVE, WALL HUNG	4"	2"	1 1/4"	---	6	10	No	Yes	---
P-104	WATER CLOSET - FLUSH TANK, FLOOR MOUNTED	3"	1-1/2"	1/2'	---	3	2	No	Yes	---
P-413	LAVATORY - UNDERMOUNT	1 1/2"	1 1/2"	1/2"	1/2"	1	1	No	Yes	---
P-414	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	1	1	No	Yes	---
P-418	LAVATORY - WALL MOUNT	1 1/2"	1 1/2"	1/2"	1/2"	1	1	No	Yes	---
P-502	SERVICE SINK - CORNER, FLOOR MOUNTED	3"	1 1/2"	1"	1"	2	4	No	No	---
P-505	CLINIC SERVICE SINK	4"	2"	1"	1"	5	4	No	No	---
P-528	BREAK SINK	1 1/2"	1 1/2"	3/4"	3/4"	3	2	Yes	No	---
P-531	SINGLE COMPARTMENT SINK	1 1/2"	1 1/2"	3/4"	3/4"	3	2	Yes	No	---
P-610	FILTERED DRINKING WATER DISPENSER	---	---	1/2"	---	---	---	No	Yes	SEE DETAIL 5/P-501
P-710	DECK MOUNT EYE WASH	---	---	---	---	---	---	No	No	EMERGENCY USE ONLY, SEE DETAIL 6/P-501
P-811	ICE MAKER BOX	---	---	1/2"	---	---	0.25	No	No	WITH INTEGRAL WATER HAMMER ARRESTOR

NOTES:

1. SEE SPECIFICATION SECTION 22 40 00 FOR FULL FIXTURE DESCRIPTION AND REQUIREMENTS.

GENERAL NOTES AND SPECIFICATIONS

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH ALL PROJECT SPECIFICATIONS, LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
4. THE PLUMBING CONTRACTOR SHALL COMPLY WITH ALL VA PERMIT AND INSPECTION PROCEDURES REQUIRED FOR THIS WORK.
5. CONTRACTOR SHALL COORDINATE ANY AND ALL PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE PROJECT COR A MINIMUM OF 2 WEEKS IN ADVANCE.
6. ALL DOMESTIC WATER PIPING SHOWN IS LOCATED ABOVE THE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
7. ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
8. ALL SANITARY SEWER PIPING SHOWN IS LOCATED BELOW GRADE OR WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
9. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE 2009 INTERNATIONAL PLUMBING CODE AND THE MANUFACTURER'S RECOMMENDATIONS.
10. ALL PIPING PENETRATIONS THRU NEW OR EXISTING WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW OR EXISTING WALL OR FLOOR.
11. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS.
12. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING PIPING WITH ALL STRUCTURAL COMPONENTS.
13. THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS.
14. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR AS WELL AS ALL OTHER MAJOR AND MINOR CONTRACTORS IN THE CREATION OF COORDINATION DRAWINGS.

PLUMBING LEGEND

	CAPPED PIPE
SD	SANITARY SEWER PIPING (SD)
SW	SANITARY SEWER PIPING (W)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER CIRCULATION (HWC)
	PIPE TURNS UP
	PIPE TURNS DOWN
MA	MEDICAL AIR (MA)
MV	MEDICAL VACUUM (MV)
	OXYGEN (O2)
	CONTINUATION
	PHASE LIMITS
	SHUT-OFF VALVE
	TIE POINT INTO EXISTING
	LIMITS OF DEMOLITION
XX / XX	STACK/RISER INDICATOR FROM VA FACILITIES RECORD DRAWINGS

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CW	COLD WATER
CV	COMMON VENT
FCO	FLOOR CLEANOUT (FLOOR OR SLAB)
FD	FLOOR DRAIN
GCO	GROUND CLEANOUT
GW	GREASE WASTE
HB	HOSE BIBB
HD	HUB DRAIN
IND	INDIRECT DRAIN
HW	HOT WATER
P-#	PLUMBING FIXTURE - NUMBER
P.C.	PLUMBING CONTRACTOR
SW	SEWER
V	VENT
V.T.R.	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEANOUT
RD	ROOF DRAIN
HWC	HOT WATER CIRCULATION
AD	AREA DRAIN
AP	ACCESS PANEL

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Revisions | Date

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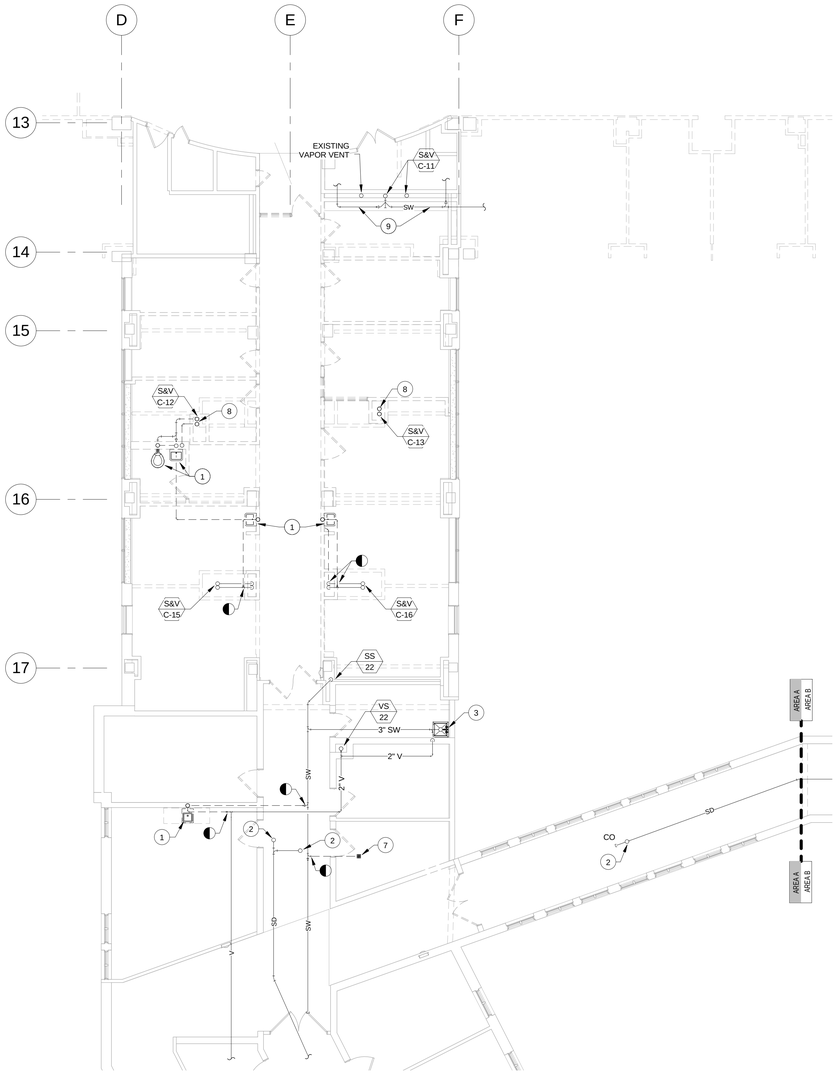
Project Number	3541
Scale	As indicated
Drawing Title	PLUMBING NOTES, ABBREVIATIONS, LEGEND, AND SCHEDULES
Approved: Project Director	
Project Title	Wilkes-Barre VA Medical Center Emergency Department
Location	1111 East End Blvd. Wilkes Barre, PA
Date	04/17/13
Checked	JWM
Drawn	JMB2
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	P-001
Dwg. 68 of 79	

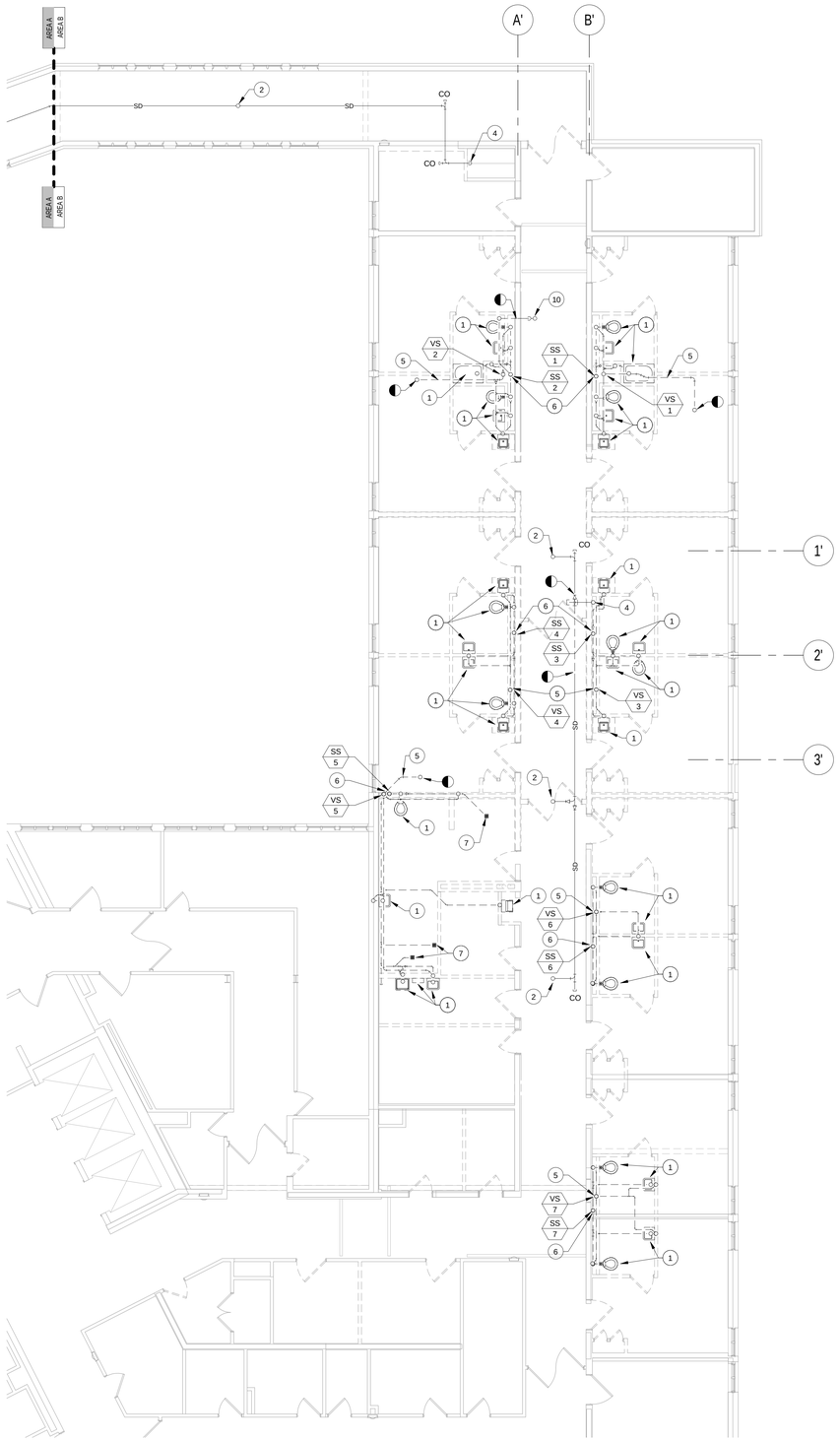
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR SANITARY DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR SANITARY DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DEMOLITION WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

C. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY EXISTING PLUMBING SERVICES OR EQUIPMENT THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

D. ALL WASTE AND VENT RISERS (LABELED "SS", "VS", & "S&V") ARE TO REMAIN OPERATIONAL UNLESS OTHERWISE SPECIFIED.

E. CAP EXISTING PIPING AT THE LIMIT OF DEMOLITION.

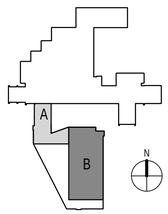
F. PATCH EXISTING SANITARY PIPING PENETRATIONS ONCE THE FIXTURE HAS BEEN DEMOLISHED.

G. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. REMOVE ASSOCIATED WASTE AND VENT PIPING BACK TO RISER.
2	EXISTING ROOF DRAIN AND ASSOCIATED PIPING TO REMAIN.
3	EXISTING SERVICE SINK TO REMAIN.
4	DEMOLISH EXISTING STORM LEADER TO 20" BELOW THE 4TH FLOOR.
5	DEMOLISH EXISTING VENT STACK FROM THE ROOF PENETRATION TO 30" BELOW THE 4TH FLOOR. VTR TO REMAIN.
6	DEMOLISH EXISTING SANITARY STACK TO 20" BELOW THE 4TH FLOOR.
7	EXISTING FLOOR DRAIN TO BE DEMOLISHED. REMOVE ASSOCIATED WASTE AND VENT PIPING.
8	DEMOLISH EXISTING WASTE & VENT RISER FROM THE 5TH FLOOR TO 1' BELOW THE 4TH FLOOR. INSTALL NEW PIPING BEFORE DEMOLITION, SEE 1/PP141 FOR ROUTING.
9	EXISTING SANITARY PIPING SERVING FIXTURES OUTSIDE OF PROJECT LIMITS TO REMAIN.
10	EXISTING SANITARY PIPING UP TO PENTHOUSE FLOOR DRAIN TO REMAIN. DEMOLISH PIPING CONNECTING TO SANITARY STACK.

KEY PLAN



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Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR SANITARY DEMOLITION PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

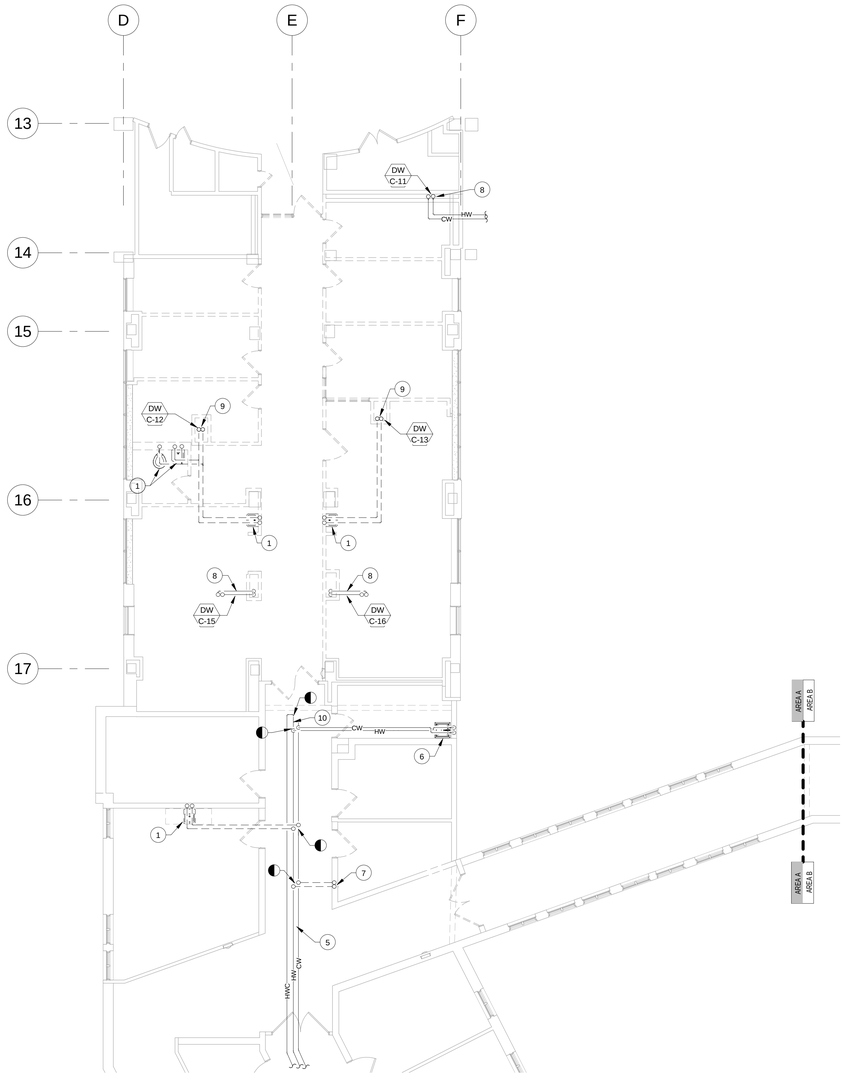
Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

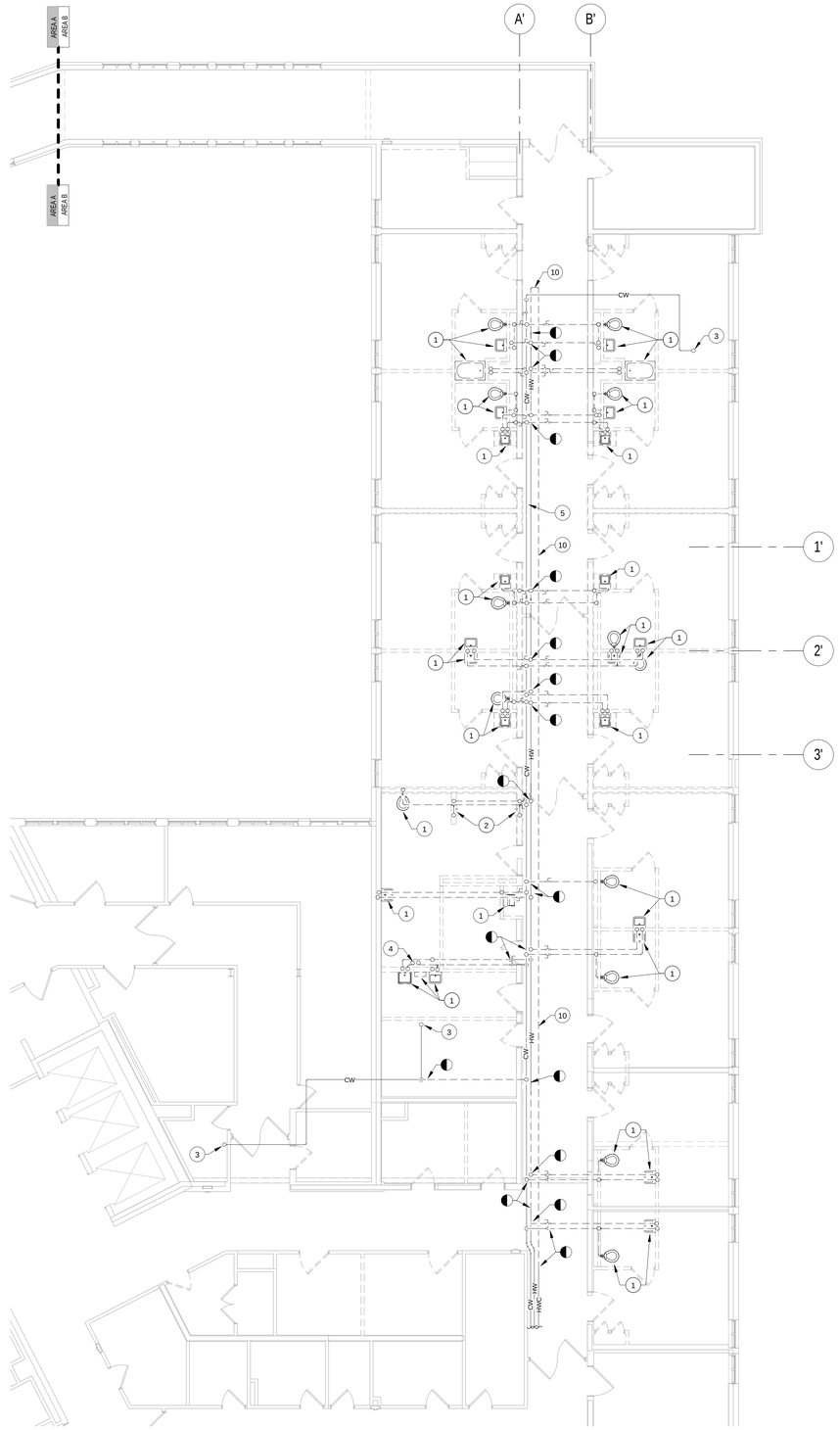
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: PD141
Dwg. 69 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR DOMESTIC WATER DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR DOMESTIC WATER DEMOLITION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DEMOLITION WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

C. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY EXISTING PLUMBING SERVICES OR EQUIPMENT THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

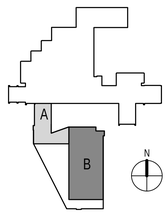
D. CAP EXISTING PIPING AT THE LIMIT OF DEMOLITION.

E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. REMOVE ASSOCIATED DOMESTIC WATER PIPING TO THE LIMIT OF DEMOLITION.
2. EXISTING SHOWER HEAD/VALVE TO BE DEMOLISHED. REMOVE ASSOCIATED DOMESTIC WATER PIPING TO THE LIMIT OF DEMOLITION.
3. EXISTING 3/4" CW UP TO MECHANICAL PENTHOUSE TO REMAIN UNDISTURBED.
4. EXISTING COLD AND HOT WATER PIPE STUBS IN FLOOR. DEMOLISH TO BELOW FLOOR, CAP, AND PATCH EXISTING PENETRATIONS.
5. EXISTING MAIN CW AND HW PIPING TO REMAIN UNDISTURBED.
6. EXISTING SERVICE SINK TO REMAIN.
7. EXISITING HOSE BIB TO BE DEMOLISHED. REMOVE ASSOCIATED DOMESTIC WATER PIPING TO THE LIMIT OF DEMOLITION.
8. EXSIITING C/HW RISER TO REMAIN UNDISTURBED.
9. DEMOLISH EXISTING C/HW RISER FROM THE 5TH FLOOR TO 1' BELOW THE 4TH FLOOR. INSTALL NEW PIPING BEFORE DEMOLITION, SEE 1/PP142 FOR ROUTING.
10. DEMOLISH EXISTING HOT WATER RECIRC MAIN TO THE LIMIT OF DEMOLITION.

KEY PLAN



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ISSUED FOR BID

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA
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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR DOMESTIC WATER DEMOLITION PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

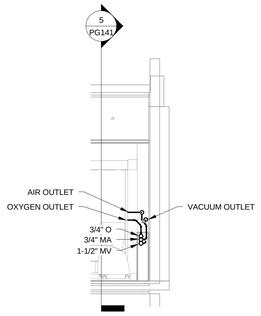
Drawing Number: PD142

Dwg. 70 of 79

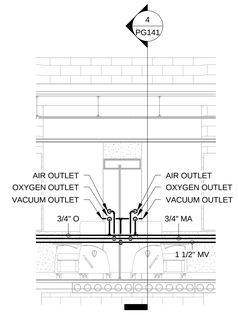
Office of Facilities Management

Department of Veterans Affairs

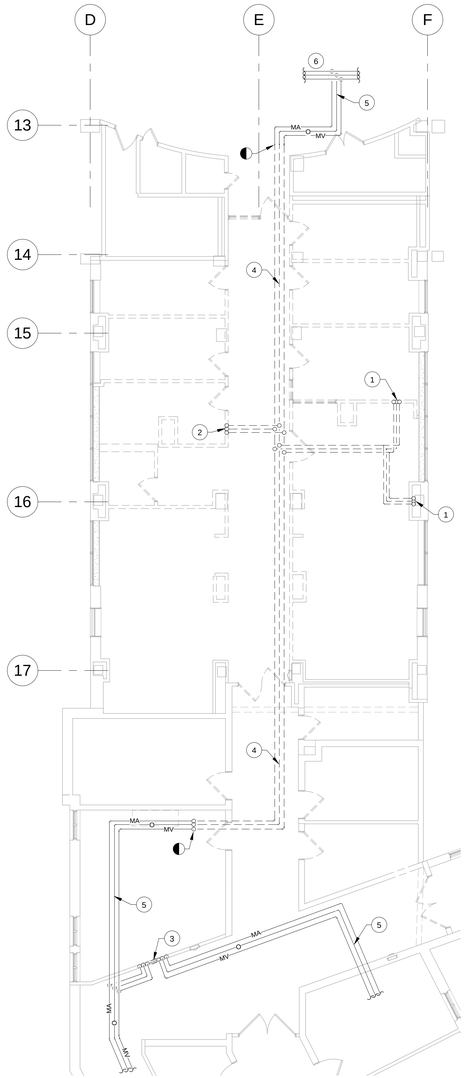
VA FORM 08-6231, OCT 1978



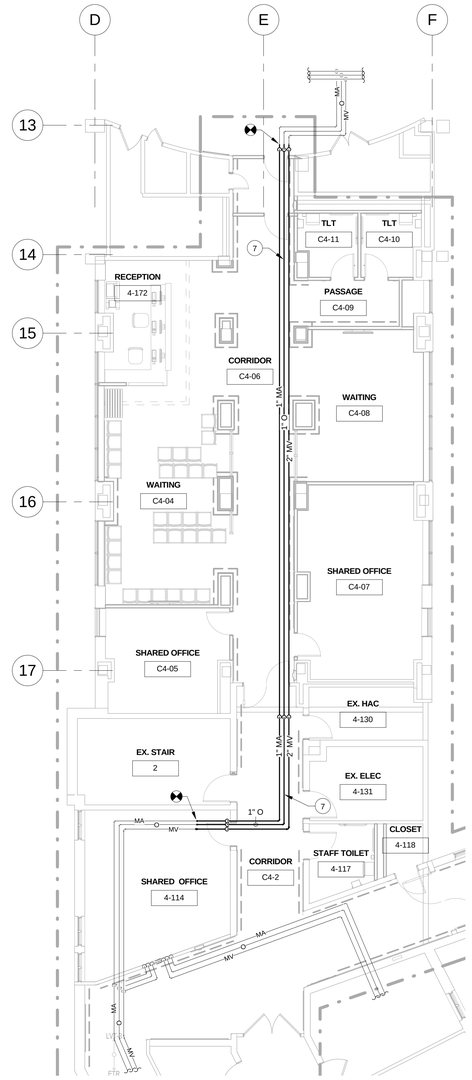
4 SECTION 1
1/4" = 1'-0"



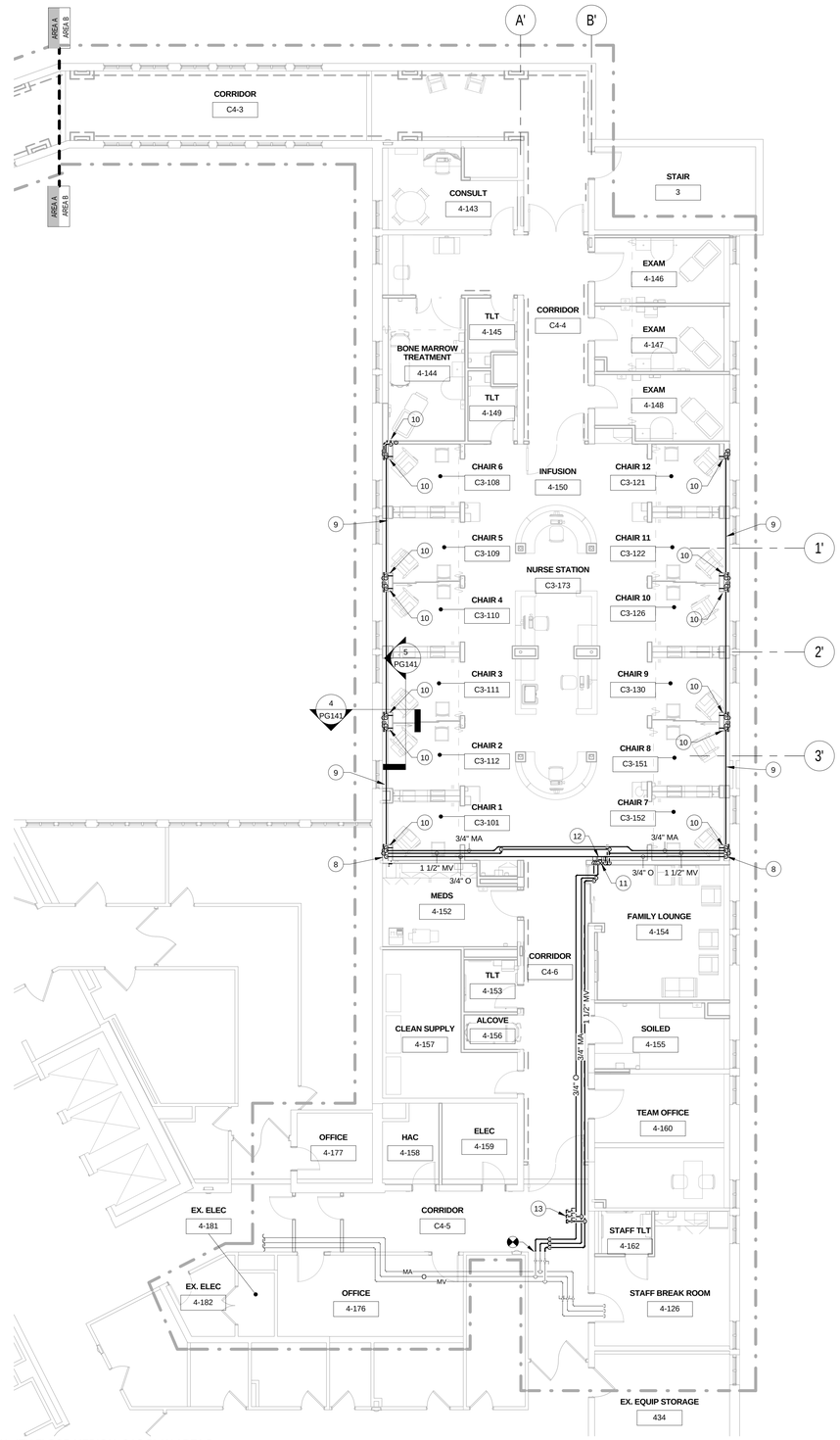
5 SECTION 2
1/4" = 1'-0"



1 PARTIAL 4TH FLOOR MEDICAL GAS DEMOLITION PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR MEDICAL GAS PLAN AREA A
1/8" = 1'-0"



3 PARTIAL 4TH FLOOR MEDICAL GAS PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

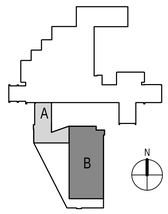
A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, ALL OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREA OUTSIDE THE PROJECT LIMITS OF WORK.

B. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. DEMOLISH EXISTING MED GAS OUTLETS AND ASSOCIATED PIPING TO THE LIMIT OF DEMOLITION.
2. DEMOLISH EXISTING MED GAS ALARMS AND ASSOCIATED PIPING TO THE LIMIT OF DEMOLITION.
3. EXISTING ZONE VALVE TO REMAIN.
4. INSTALL NEW GAS PIPING BEFORE DEMOLISHING EXISTING OXYGEN, VACUUM, AND AIR PIPING. SEE 2/PG141 FOR ROUTING.
5. EXISTING OXYGEN, VACUUM, AND AIR PIPING TO REMAIN.
6. EXISTING MAIN OXYGEN, VACUUM, AND AIR PIPING DOWN CORRIDOR.
7. ROUTE NEW MEDICAL GAS LINES AS TIGHT TO STUCTURE AS POSSIBLE. INSTALL BEFORE DISCONNECTING EXISTING SERVICE.
8. MEDICAL GAS LINES DOWN INTO CASEWORK. PROVIDE SHUTOFF VALVES PRIOR TO DROP.
9. STACK MEDICAL GAS LINES AS HIGH AS POSSIBLE IN CASEWORK.
10. 1/2" OXYGEN, 3/4" VACUUM, AND 1/2" AIR UP TO WALL MOUNTED OUTLETS. SEE ARCHITECTURAL ELEVATIONS FOR OUTLET LOCATIONS.
11. NEW ZONE VALVE. SEE 2/PP501.
12. NEW ALARMS MOUNTED HIGH ABOVE CEILING. SEE 2/PP501.
13. 3/4" OXYGEN, 1-1/2" VACUUM, AND 3/4" AIR FOR FUTURE CONNECTION. SEE 3/PP501.

KEY PLAN



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ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR MEDICAL GAS PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

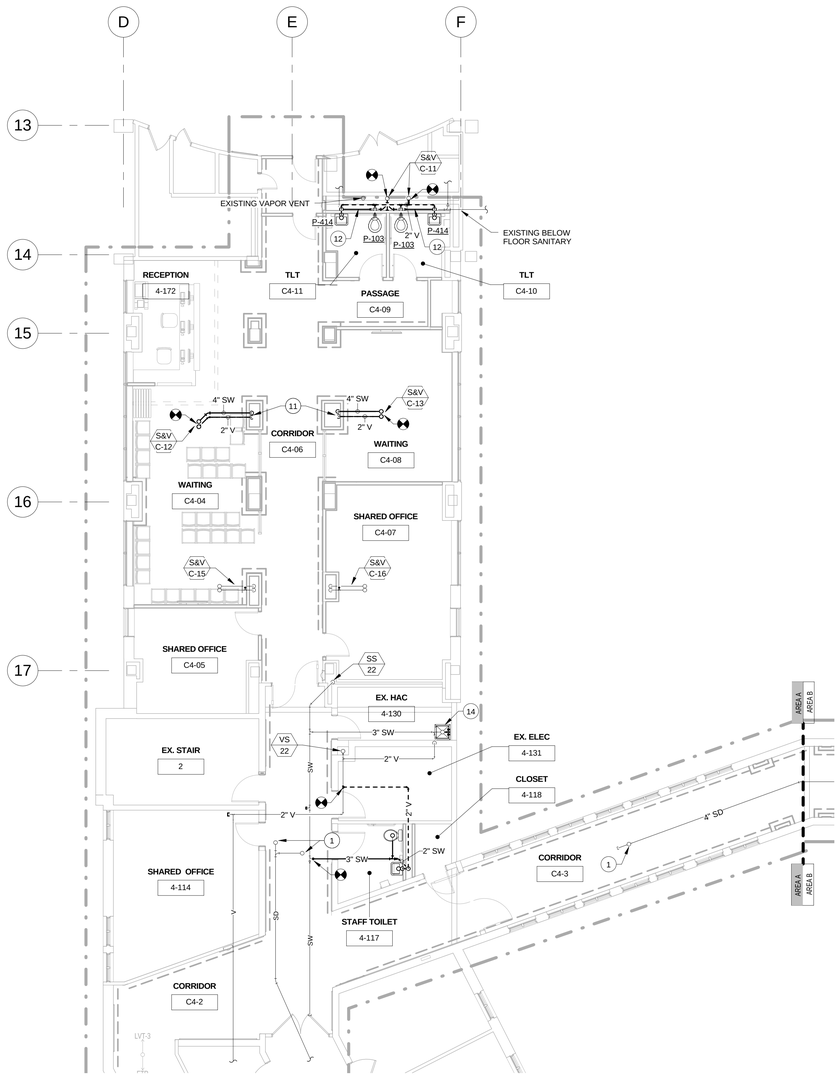
Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

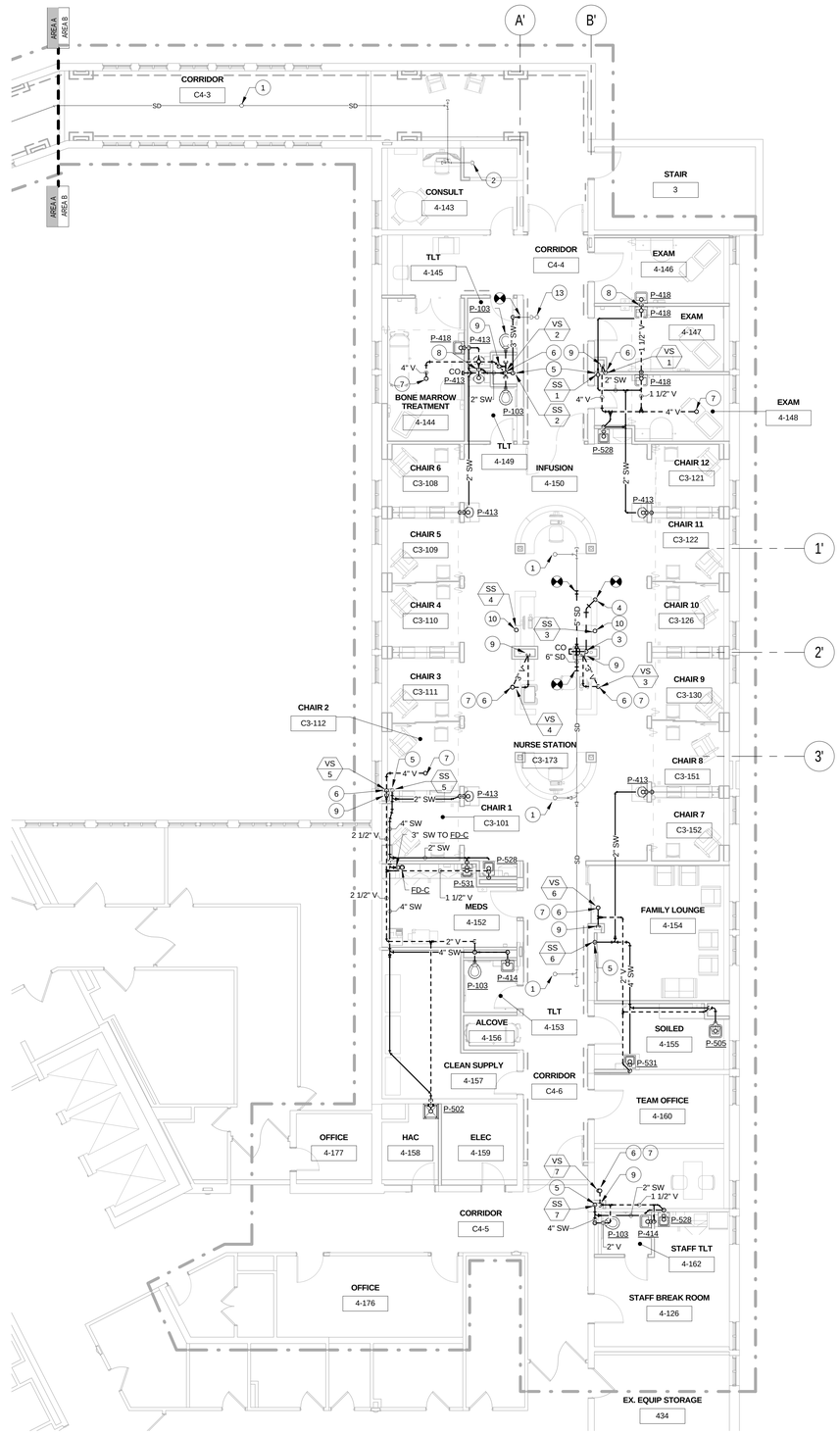
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: PG141
Dwg. 71 of 79

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR SANITARY PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR SANITARY PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, ALL OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREA OUTSIDE THE PROJECT LIMITS OF WORK.

B. CORE DRILL A HOLE IN THE FLOOR FOR ALL NEW FIXTURE'S SANITARY PIPING.

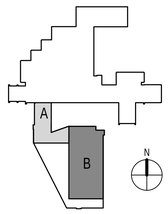
C. UNLESS NOTED OTHERWISE, THE SIZE OF SANITARY AND VENT PIPING OFF OF FIXTURES SHALL BE OF THAT LISTED IN THE PLUMBING FIXTURE SCHEDULE.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	EXISTING ROOF DRAIN.
2	EXISTING STORM LEADER.
3	8" STORM DOWN IN CHASE TO 3RD FLOOR CEILING SPACE.
4	CONNECT INTO EXISTING STORM LEADER ON 3RD FLOOR.
5	CONNECT TO EXISTING SANTARY STACK.
6	CONNECT TO EXISTING VENT STACK.
7	CONNECT TO EXISTING VTR.
8	1-1/2" SANITARY AND VENT SERVING BACK TO BACK FIXTURES.
9	NEW VENT STACK OFFSET IN CHASE SHOWN.
10	CAP EXISTING SANTARY STACK IN 3RD FLOOR CEILING.
11	WASTE & VENT RISER OFFSET IN 4TH FLOOR CHASE. INSTALL NEW PIPING BEFORE DISCONNECTING EXISTING SERVICE.
12	SANITARY PIPING TO BE ABOVE THE FLOOR IN THE WET WALL.
13	EXISTING SANITARY PIPING UP TO PENTHOUSE FLOOR DRAIN. ROUTE NEW PIPING TIGHT TO THE INSIDE OF THE CORRIDOR WALL AND CONNECT INTO THE EXISTING SANITARY STACK.
14	EXISTING SERVICE SINK.

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 076043

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR SANITARY PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

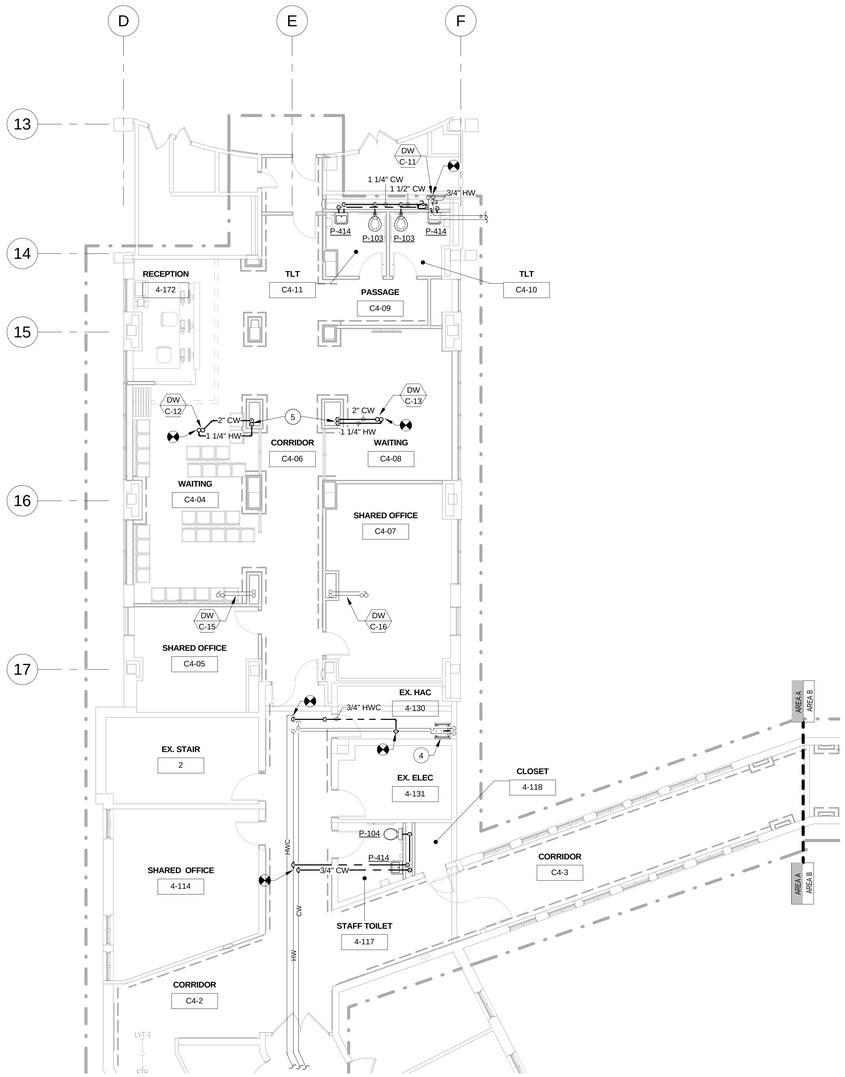
Drawing Number: PP141

Dwg. 72 of 79

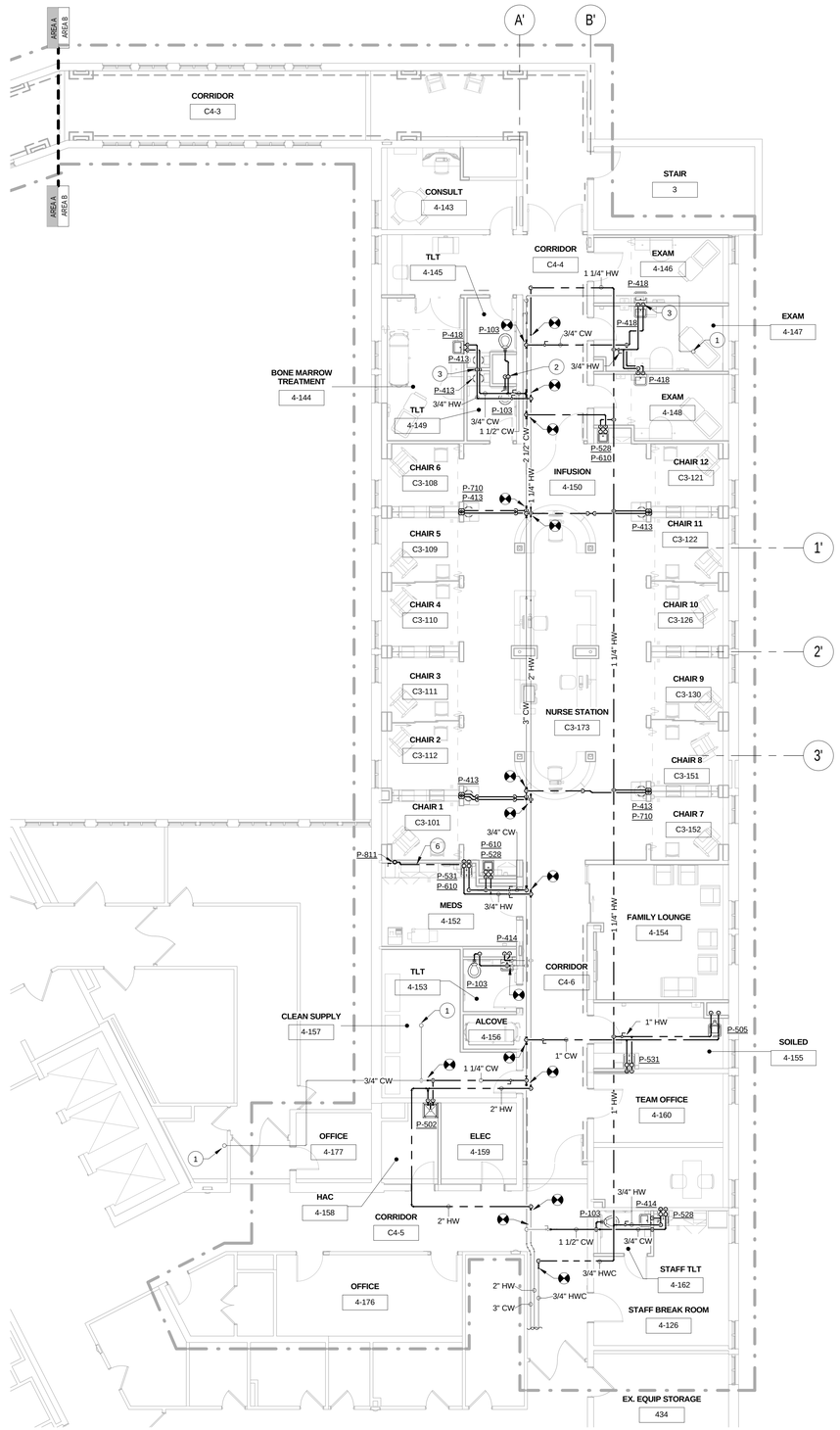
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 PARTIAL 4TH FLOOR DOMESTIC WATER PLAN AREA A
1/8" = 1'-0"



2 PARTIAL 4TH FLOOR DOMESTIC WATER PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, ALL OTHER TRADES, AND THE COR TO MINIMIZE DISRUPTION OF AREA OUTSIDE THE PROJECT LIMITS OF WORK.

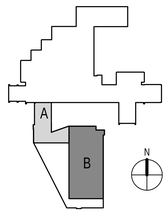
B. SEE THE PLUMBING FIXTURE SCHEDULE FOR SPECIFIC FIXTURE RUNOUT SIZING.

C. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.

D. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES	#
1	EXISTING 3/4" CW UP TO MECHANICAL PENTHOUSE.
2	1-1/2" CW DOWN TO SUPPLY BACK TO BACK WATER CLOSETS.
3	3/4" CW/HW DOWN IN WALL TO SUPPLY BACK TO BACK FIXTURES.
4	EXISTING SERVICE SINK.
5	C/HW RISER OFFSET IN 4TH FLOOR CHASE. INSTALL NEW PIPING BEFORE DISCONNECTING EXISTING SERVICE.
6	P-811 SUPPLIES FILTERED WATER AND IS TO BE FED FROM ADJACENT SINK AFTER FILTRATION.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JOHN W. MATHEWS
ENGINEER No. PE 76043

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR DOMESTIC WATER PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

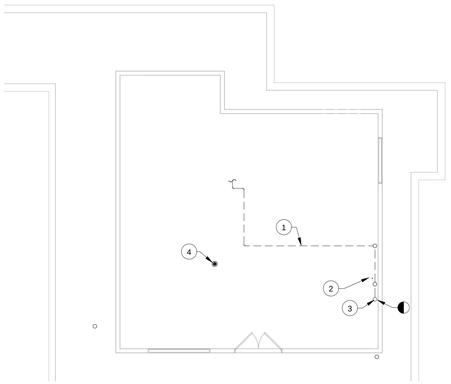
Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

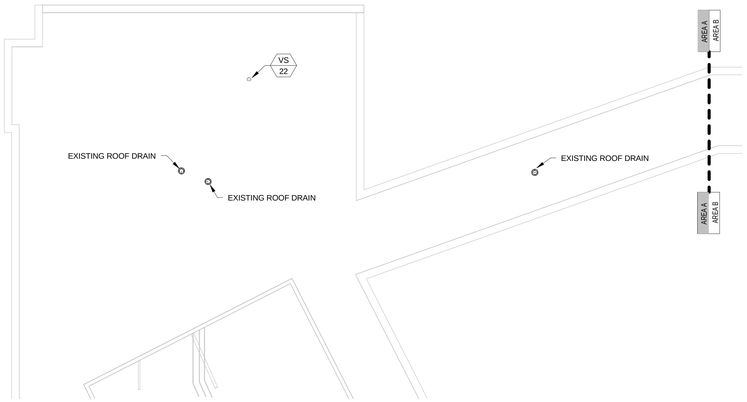
VA Project Number: 693-11-122
Building Number: 1 & 27
Drawing Number: PP142
Dwg. 73 of 79

Office of Facilities Management
Department of Veterans Affairs

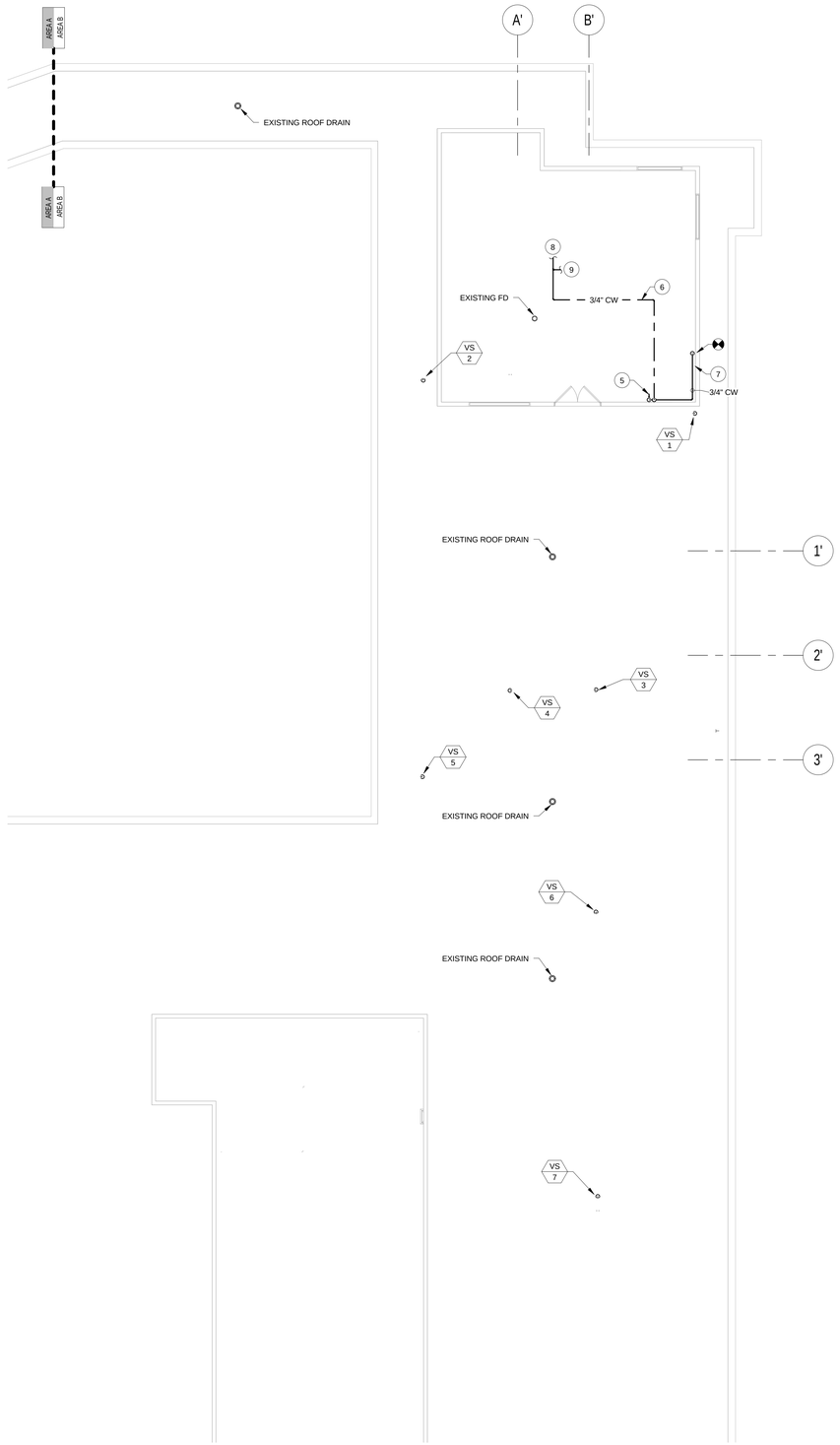
VA FORM 08-6231, OCT 1978



3 PENTHOUSE PLUMBING DEMOLITION PLAN
1/8" = 1'-0"



2 PARTIAL ROOFTOP PLUMBING PLAN AREA A
1/8" = 1'-0"



1 PARTIAL ROOFTOP PLUMBING PLAN AREA B
1/8" = 1'-0"

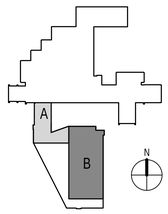
GENERAL NOTES:

A. ALL ROOF DRAINS AND VENT PIPING SHOWN IS EXISTING AND SHOWN FOR REFERENCE ONLY.

KEYED NOTES (#)

1. DEMOLISH CW CONNECTION TO EXISTING CLEAN STEAM GENERATOR. SEE 2/M-401 FOR LOCATION.
2. REMOVE EXISTING HOSE BIBB AND SAVE FOR RELOCATION.
3. EXISTING 3/4" CW PIPING FROM BELOW. DEMOLISH PIPING TO 1'-0" ABOVE PENTHOUSE FLOOR.
4. EXISTING FLOOR DRAIN TO REMAIN.
5. NEW LOCATION OF HOSE BIBB.
6. ROUTE CW OVER TO CLEAN STEAM GENERATORS TIGHT TO STRUCTURE.
7. ROUTE CW LINE TIGHT TO WALL.
8. 1/2" CW LINE TO NEW CLEAN STEAM GENERATOR (4-SSHX-1). SEE 2/M-401 FOR LOCATION.
9. 1/2" CW LINE TO EXISTING CLEAN STEAM GENERATOR. SEE 2/M-401 FOR LOCATION.

KEY PLAN



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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOHN W. MATHEWS ENGINEER No. PE 76043

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Project Number	Scale
3541	As indicated

Drawing Title: ROOFTOP PLUMBING PLANS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

Location: 1111 East End Blvd. Wilkes Barre, PA

Date	Checked	Drawn
04/17/13	JWM	JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: PP151

Dwg. 74 of 79

Office of Facilities Management

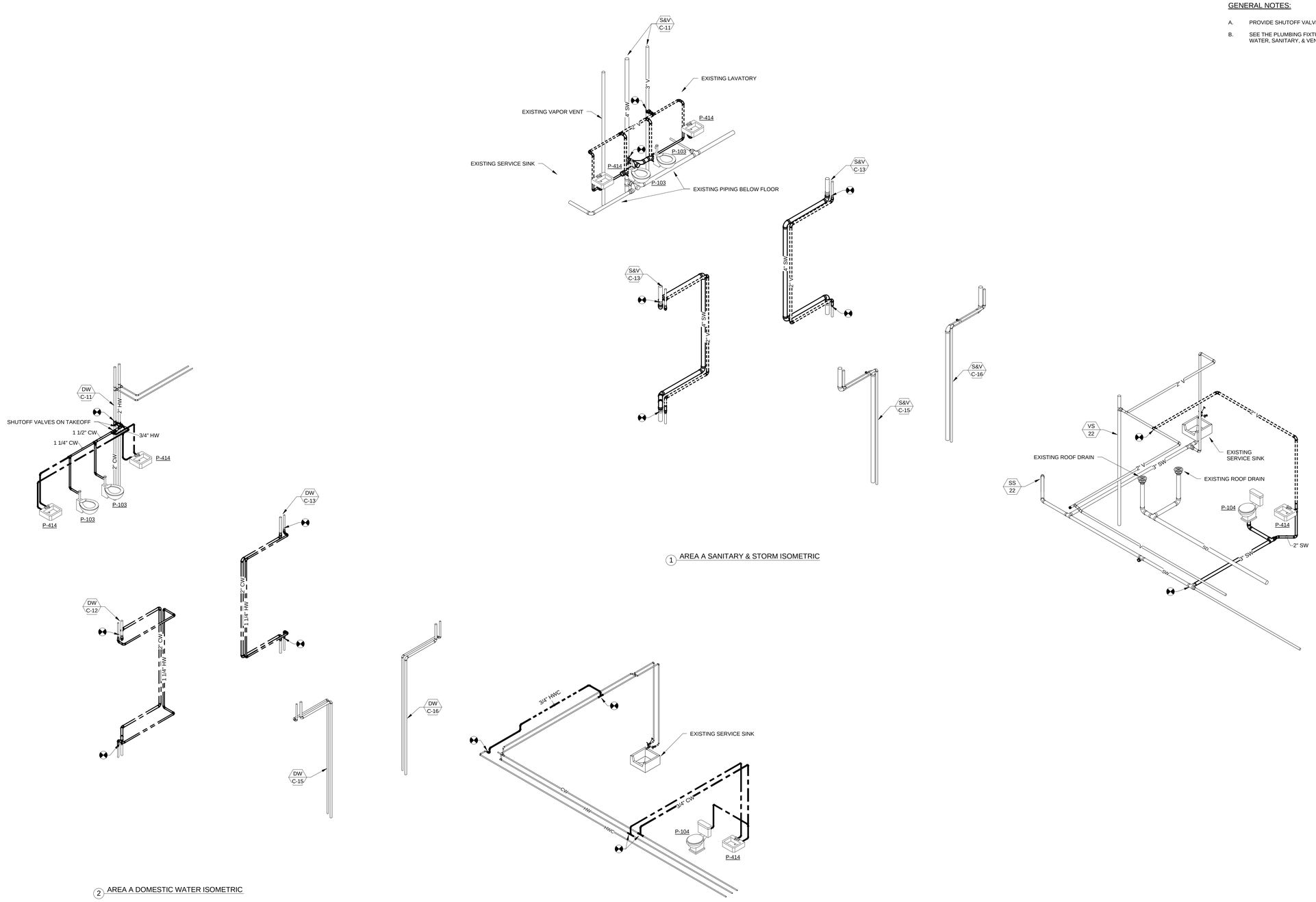
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

GENERAL NOTES:

A. PROVIDE SHUTOFF VALVES AT EACH FIXTURE.

B. SEE THE PLUMBING FIXTURE SCHEDULE FOR SPECIFIC FIXTURE DOMESTIC WATER, SANITARY, & VENT PIPE SIZING.



1 AREA A SANITARY & STORM ISOMETRIC

2 AREA A DOMESTIC WATER ISOMETRIC

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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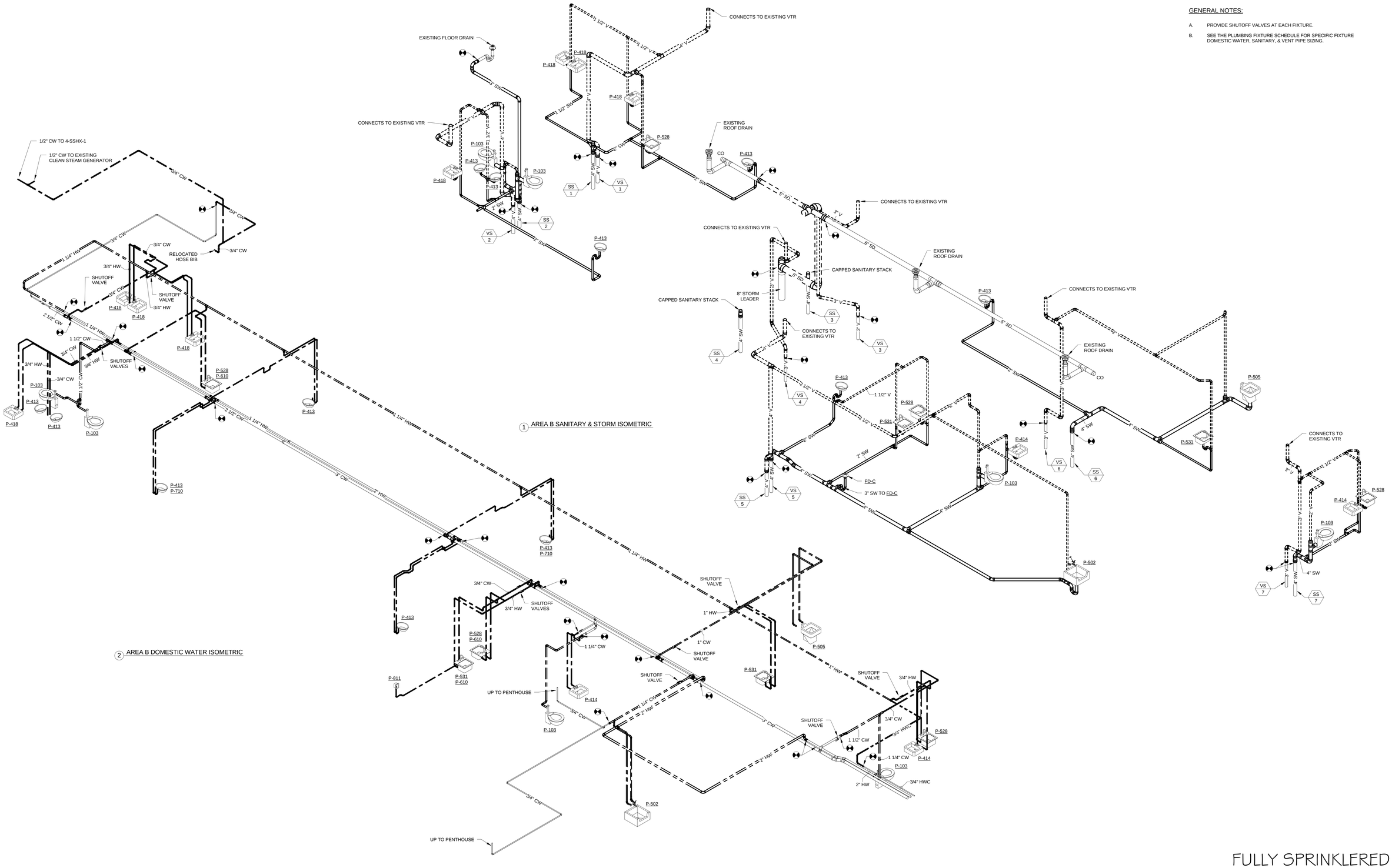
Project Number	Scale
3541	As indicated

Drawing Title	4TH FLOOR AREA A PLUMBING ISOMETRICS
Approved: Project Director	
Project Title	Wilkes-Barre VA Medical Center Emergency Department
Location	1111 East End Blvd. Wilkes Barre, PA
Date	04/17/13
Checked	JWM
Drawn	JMB2
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	PP341
Dwg. 75 of 79	

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



1 AREA B SANITARY & STORM ISOMETRIC

2 AREA B DOMESTIC WATER ISOMETRIC

GENERAL NOTES:

A. PROVIDE SHUTOFF VALVES AT EACH FIXTURE.

B. SEE THE PLUMBING FIXTURE SCHEDULE FOR SPECIFIC FIXTURE DOMESTIC WATER, SANITARY, & VENT PIPE SIZING.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

CONSULTANTS:

Architect	Structural Engineer	MEP Engineer	Occupational Health, Safety and Environmental	Fire Protection
ARRAY healthcare facilities solutions	WZG	APOGEE Consulting Group, P.A.	GOLDEN CORPORATION Occupational Health, Safety & Environmental Consultants	harrington group
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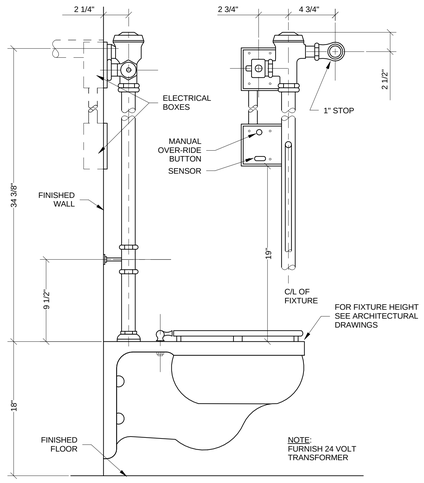
Project Number	Scale
3541	As indicated

Drawing Title	4TH FLOOR AREA B PLUMBING ISOMETRICS
Approved: Project Director	
Project Title	Wilkes-Barre VA Medical Center Emergency Department
Location	1111 East End Blvd. Wilkes Barre, PA
Date	04/17/13
Checked	JWM
Drawn	JMB2
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	PP342
Dwg. 76 of 79	

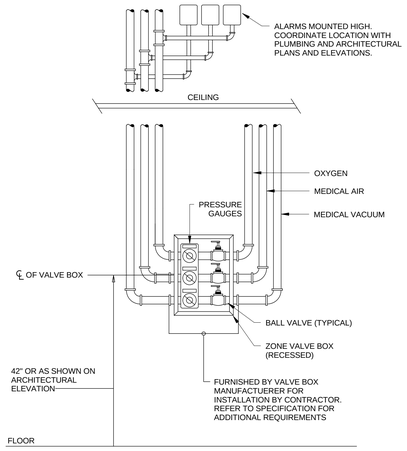
Office of Facilities Management

Department of Veterans Affairs

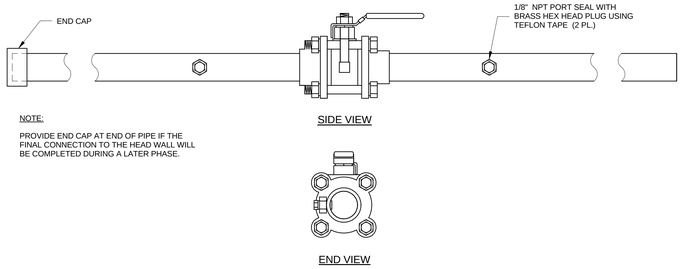
VA FORM 08-6231, OCT 1978



1 WATER CLOSET - SENSOR OPERATED
N.T.S.



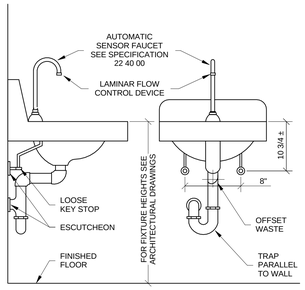
2 MEDICAL GAS ZONE VALVE AND ALARM PANEL DETAIL
N.T.S.



NOTE:

PROVIDE END CAP AT END OF PIPE IF THE FINAL CONNECTION TO THE HEAD WALL WILL BE COMPLETED DURING A LATER PHASE.

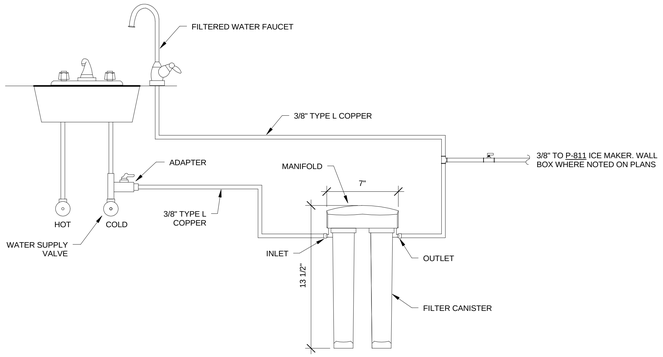
3 MEDICAL GAS DUAL PORT SHUT-OFF VALVE WITH LOCKING HANDLE
N.T.S.



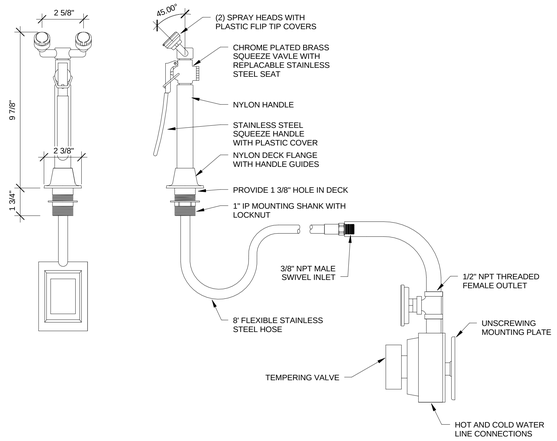
NOTE:

PROVIDE ADA INSULATION OR COVER AS REQUIRED.

4 TYPICAL ADA LAVATORY DETAIL
N.T.S.



5 DRINKING WATER DISPENSER DETAIL
N.T.S.



6 EYEWASH DETAIL
N.T.S.

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3541	As indicated

Drawing Title: PLUMBING DETAILS

Approved: Project Director

Project Title: Wilkes-Barre VA Medical Center Emergency Department

Location: 1111 East End Blvd. Wilkes Barre, PA

Date: 04/17/13 | Checked: JWM | Drawn: JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

Drawing Number: PP501

Dwg. 77 of 79

Office of Facilities Management

Department of Veterans Affairs

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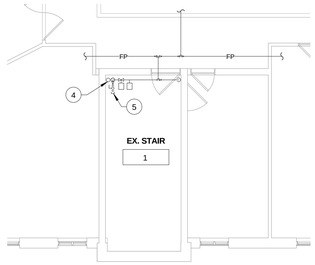
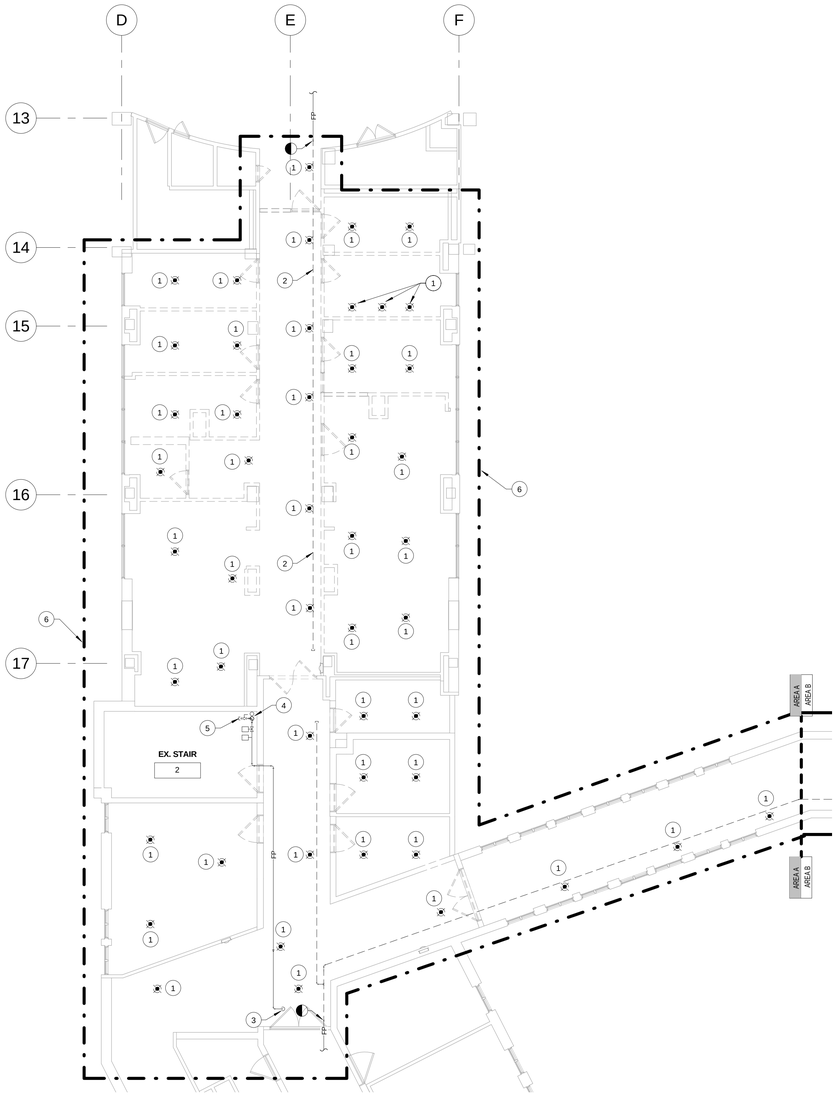


3 PARTIAL 4TH FLOOR AREA B MAIN STANDPIPE LOCATION
1/8" = 1'-0"

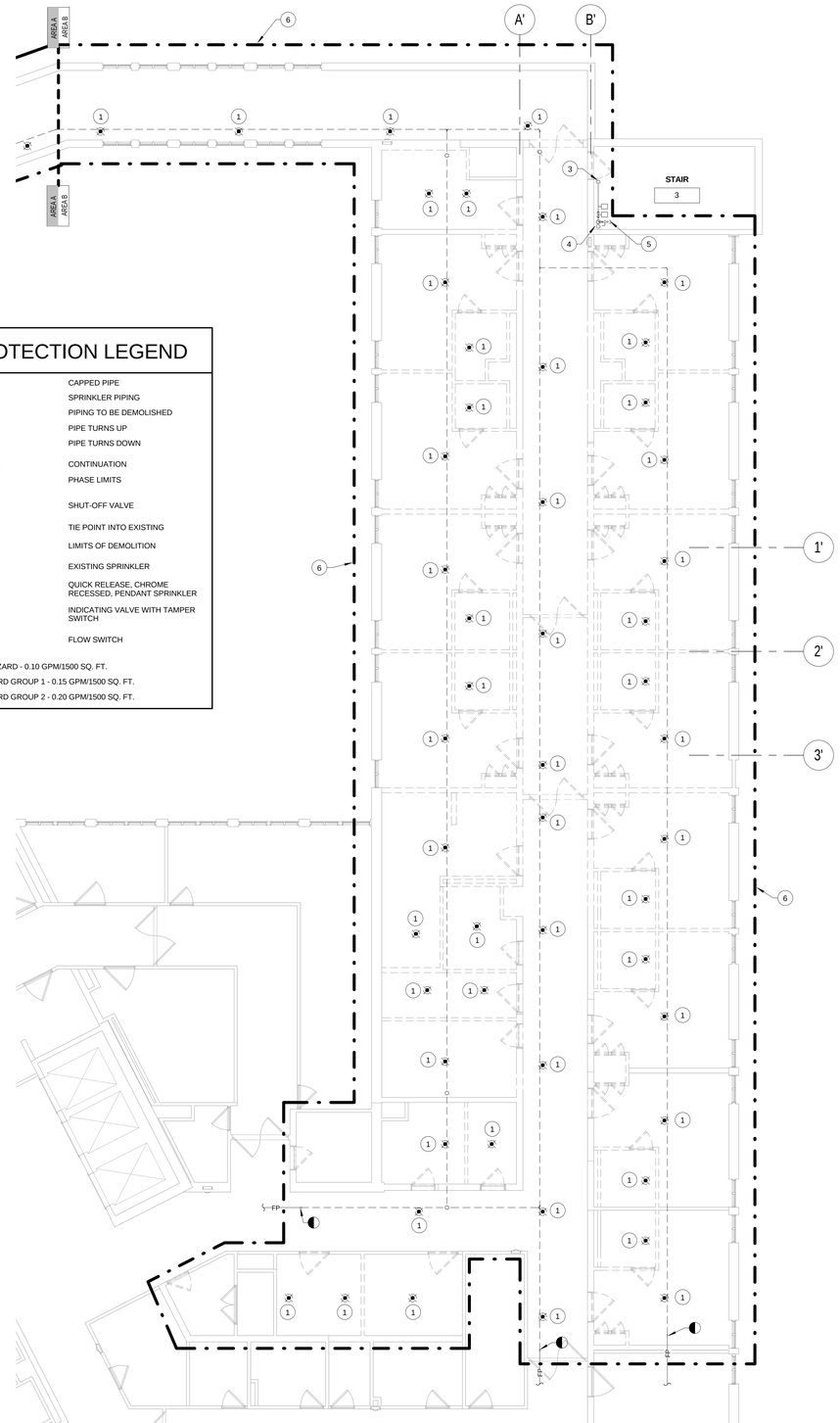


1 PARTIAL 4TH FLOOR SPRINKLER DEMOLITION PLAN AREA A
1/8" = 1'-0"

FIRE PROTECTION LEGEND

- CAPPED PIPE
- SPRINKLER PIPING
- PIPING TO BE DEMOLISHED
- PIPE TURNS UP
- PIPE TURNS DOWN
- CONTINUATION
- PHASE LIMITS
- SHUT-OFF VALVE
- TIE POINT INTO EXISTING
- LIMITS OF DEMOLITION
- EXISTING SPRINKLER
- QUICK RELEASE, CHROME RECESSED, PENDANT SPRINKLER
- INDICATING VALVE WITH TAMPER SWITCH
- FLOW SWITCH

LIGHT HAZARD - 0.10 GPM/1500 SQ. FT.
ORDINARY HAZARD GROUP 1 - 0.15 GPM/1500 SQ. FT.
ORDINARY HAZARD GROUP 2 - 0.20 GPM/1500 SQ. FT.



2 PARTIAL 4TH FLOOR SPRINKLER DEMOLTION PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. PIPING SHOWN IS REPRESENTATIVE OF MAIN EXISTING SPRINKLER PIPING. RUNOUTS TO SPECIFIC SPRINKLERS ARE NOT SHOWN.

B. COORDINATE ALL DEMOLITION WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES, AND THE COTR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK. SPRINKLER SYSTEMS IN OTHER AREAS MUST REMAIN IN SERVICE FOR THE ENTIRE CONSTRUCTION PROCESS.

C. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL VAMC REQUIREMENTS AND ENVIRONMENTAL REGULATIONS.

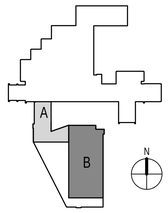
D. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. PRESERVE ANY FIRE PROTECTION PIPING AND SPRINKLERS THAT IS NOT INDICATED FOR DEMOLITION OR IS DISCOVERED IN THE DEMOLITION PROCESS.

E. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1	DEMOLISH EXISTING SPRINKLER AND ASSOCIATED PIPING BACK TO MAIN.
2	DEMOLISH EXISTING SPRINKLER MAIN TO THE LIMIT OF DEMOLITION.
3	EXISTING SPRINKLER PIPING UP TO MECHANICAL PENTHOUSE.
4	EXISTING 4" COMBINATION STANDPIPE/RISER AND 1-1/4" DRAIN RISER.
5	EXISTING 2-1/2" HOSE VALVE.
6	WITHIN THIS OUTLINED AREA, THE CONTRACTOR SHALL REMOVE ALL SPRINKLER HEADS, BRANCH PIPING AND SPRINKLER MAINS TO THE LIMITS OF CONSTRUCTION/DEMOLITION.

KEY PLAN



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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOHN W. MATHEWS — No. PE 78243

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Project Number	Scale
3541	As indicated

Drawing Title: 4TH FLOOR FIRE PROTECTION DEMOLITION PLAN

Approved: Project Director

Project Title: EXPAND EXISTING ONCOLOGY

Location: 1111 East End Blvd. Wilkes Barre, PA 18711

Date: 04/17/13 | Checked: CCW | Drawn: JMB2

VA Project Number: 693-11-122

Building Number: 1 & 27

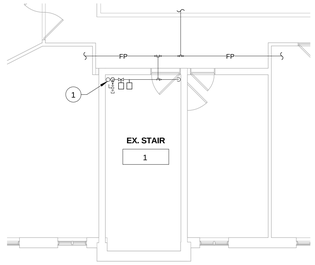
Drawing Number: FP141

Dwg. 78 of 79

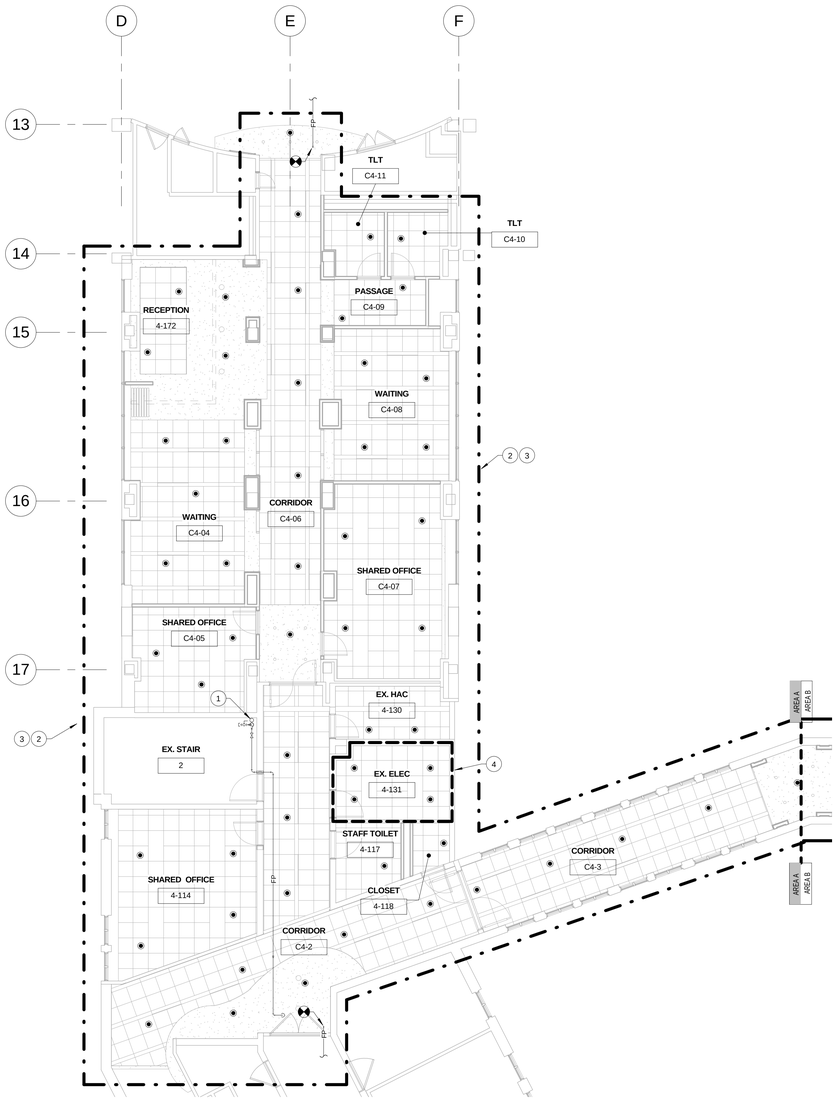
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



3 PARTIAL 4TH FLOOR AREA B EXISTING MAIN STANDPIPE LOCATION
1/8" = 1'-0"

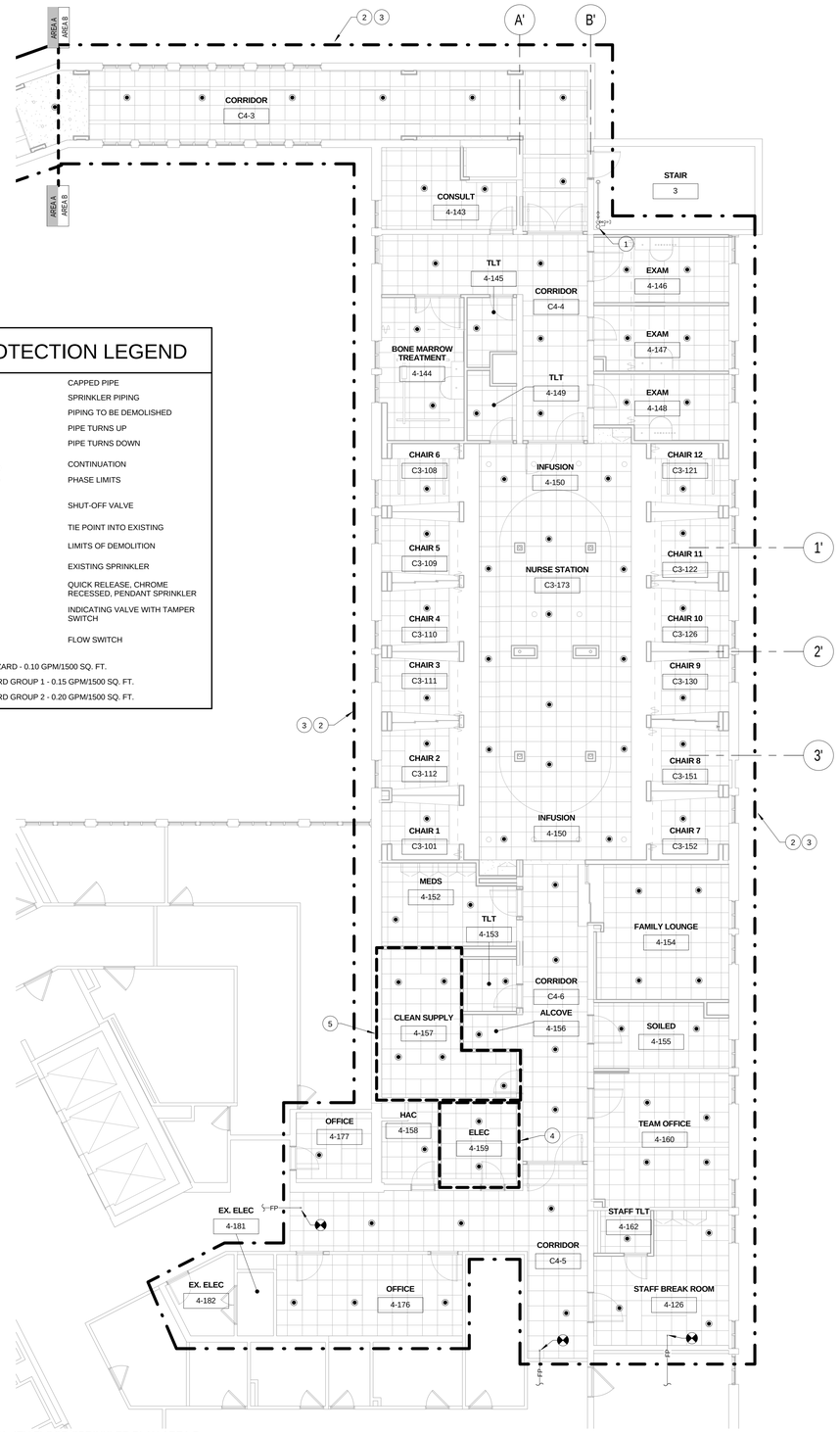


1 PARTIAL 4TH FLOOR SPRINKLER PLAN AREA A
1/8" = 1'-0"

FIRE PROTECTION LEGEND

	CAPPED PIPE
FP	SPRINKLER PIPING
	PIPING TO BE DEMOLISHED
	PIPE TURNS UP
	PIPE TURNS DOWN
	CONTINUATION
	PHASE LIMITS
	SHUT-OFF VALVE
	TIE POINT INTO EXISTING
	LIMITS OF DEMOLITION
	EXISTING SPRINKLER
	QUICK RELEASE, CHROME RECESSED, PENDANT SPRINKLER
	INDICATING VALVE WITH TAMPER SWITCH
	FLOW SWITCH

LIGHT HAZARD - 0.10 GPM/1500 SQ. FT.
ORDINARY HAZARD GROUP 1 - 0.15 GPM/1500 SQ. FT.
ORDINARY HAZARD GROUP 2 - 0.20 GPM/1500 SQ. FT.



2 PARTIAL 4TH FLOOR SPRINKLER PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES:

A. THESE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC IN NATURE. HOWEVER SPRINKLER HEAD TYPES AND APPROXIMATE LOCATIONS HAVE BEEN ESTABLISHED. THE FIRE PROTECTION LAYOUT INDICATED IS FOR REFERENCE ONLY. FINAL SYSTEM LAYOUT AND PIPE ROUTING SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR AND SHALL TAKE INTO CONSIDERATION THE BUILDING STRUCTURE, ARCHITECTURAL FEATURES AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES. THE FIRE PROTECTION CONTRACTORS SHALL PROVIDE WORKING DRAWINGS IN ACCORDANCE WITH NFPA 13 FOR REVIEW AND APPROVAL BY THE ENGINEER, ARCHITECT, AND APPLICABLE AHJ.

B. FINAL SPRINKLER PLACEMENT AND PIPE ROUTING SHALL BE COORDINATED BETWEEN TRADES.

C. ADJUST SPRINKLERS TO BE PLACED IN THE CENTER OF THE CEILING TILE IT IS SHOWN IN.

D. ALL VALVES SHALL BE READILY ACCESSIBLE FOR OPERATION.

E. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 13-2010, THE DEPARTMENT OF VETERANS AFFAIRS, FIRE PROTECTION DESIGN MANUAL 6TH EDITION AND ALL OTHER APPLICABLE CODES AND STANDARDS.

F. PATIENT AREA SPRINKLERS SHALL BE ORDINARY HAZARD QUICK RESPONSE SPRINKLERS WITH LIGHT HAZARD DENSITY OF 0.10 GPM/SQ. FT. INITIAL DESIGN AREA BEFORE REDUCTION AS FOLLOWED BY NFPA 13 SHALL BE 1,500 SQ. FT.

G. ELECTRICAL AND STORAGE ROOM SPRINKLERS SHALL BE ORDINARY HAZARD QUICK RESPONSE SPRINKLERS, 0.15 GPM/SQ. FT. OVER THE ROOM OR 1,500 SQ. FT. BEFORE REDUCTION. USE THE LESSER OF THE TWO VALUES.

H. PROVIDE A COMPLETE AND WORKING WET PIPE SPRINKLER SYSTEM THAT IS IN COMPLIANCE WITH CONTRACT DOCUMENTS AND NFPA 13.

I. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT INSTALLATION OR COMPLIANCE WITH NFPA 13 AND NOTIFY THE ENGINEER AND CONTRACTING OFFICE PRIOR TO BEGINNING OF WORK.

J. PRIOR TO THE OPERATION (OPENING OR CLOSING) OF ANY VALVES CONTROLLING WATER TO THE DOMESTIC OR FIRE SYSTEMS, NOTIFICATION SHALL BE GIVEN TO THE CONTRACTING OFFICER AND APPROVAL OBTAINED BEFORE BEGINNING OF WORK.

K. PROVIDE PIPING OFFSETS AS REQUIRED TO AVOID DUCTWORK, STRUCTURE, OTHER TRADES OR OTHER OBSTRUCTIONS.

L. ALL PIPE WILL BE INSTALLED ABOVE CEILINGS IN AREAS WITH FINISHED CEILINGS. SPRINKLERS WILL BE RECESSED IN THESE AREAS. IN AREAS WITH EXPOSED STRUCTURE, PIPING SHALL BE EXPOSED AND PAINTED TO MATCH ADJACENT SURFACES.

M. PRIVACY CURTAINS SUPPORTED FROM THE CEILING BY MESH FABRIC WITH OPENINGS EQUAL TO 70% OR GREATER AND EXTENDING A MINIMUM OF 22 INCHES FROM CEILING ARE NOT CONSIDERED OBSTRUCTIONS TO SPRINKLERS PER NFPA 13.

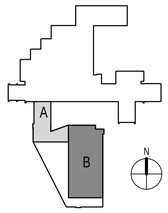
N. NEW ZONE PIPING SHALL BE HYDRAULICALLY CALCULATED WITH THE AVAILABLE SUPPLY PRESSURE OF 100 PSI AND A FLOW RATE OF 300 GPM RESIDUAL PRESSURE. THE CONTRACTOR SHALL FIELD VERIFY PIPE SIZE AND TOTAL DEVELOPED LENGTH FROM EXISTING FIRE PUMP TO SPRINKLER ZONE AND TO ACCOUNT FOR ANTICIPATED PRESSURE LOSS.

O. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND NEW WORK IN PLAN AREA A IN ACCORDANCE WITH ARCHITECTURAL PHASING PLAN. WORK SHALL BE PERFORMED DURING UNOCCUPIED OFF HOURS AND ON THE WEEKENDS. PHASING OF WORK SHALL MINIMIZE DISRUPTION IN CORRIDORS C3-09 AND C3-2. SOME DEMOLITION AND NEW CONSTRUCTION WORK WILL NEED TO BE PERFORMED THROUGH THE EXISTING CEILING GRID. SEE ARCHITECTURAL PHASING PLAN FOR ADDITIONAL INFORMATION. ALL ICRA REQUIREMENTS AND PRECAUTIONS SHALL BE COORDINATED WITH THE PRIME CONTRACTOR.

KEYED NOTES (#)

1. EXISTING 4" COMBINATION STANDPIPE/RISER AND 1-1/4" DRAIN RISER.
2. WITHIN THE OUTLINES AREA, THE SPRINKLER CONTRACTOR SHALL CONNECT TO THE EXISTING SPRINKLER MAINS AND EXTEND NEW SPRINKLER MAINS AND BRANCH PIPING INTO THE RENOVATED AREA. NEW SPRINKLER MAINS AND BRANCH PIPING SHALL BE SIZED BY HYDRAULIC CALCULATION. NEW SPRINKLER PIPING SHALL BE COORDINATED WITH ALL NEW PIPING, DUCTWORK, AND EQUIPMENT.
3. WITHIN OUTLINED AREA, SPRINKLER SYSTEM SHALL BE DESIGNED AS "LIGHT HAZARD" UNLESS NOTED OTHERWISE.
4. AREA TO BE DESIGNED AS "ORDINARY HAZARD GROUP 1".
5. AREA TO BE DESIGNED AS "ORDINARY HAZARD GROUP 2".

KEY PLAN



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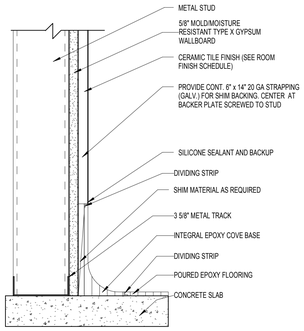
Project Number	Scale
3541	As indicated

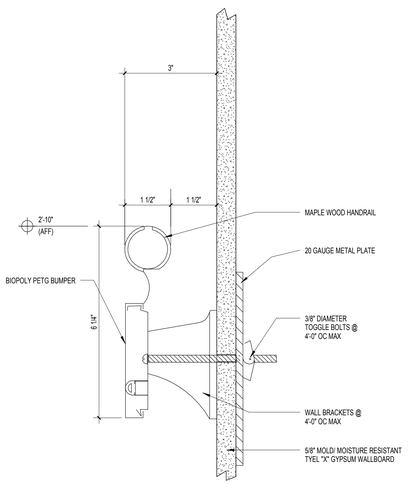
Drawing Title	4TH FLOOR FIRE PROTECTION PLANS
Approved: Project Director	
Project Title	EXPAND EXISTING ONCOLOGY
Location	1111 East End Blvd. Wilkes Barre, PA 18711
Date	04/17/13
Checked	CCW
Drawn	JMB2
VA Project Number	693-11-122
Building Number	1 & 27
Drawing Number	FP142
Dwg. 79 of 79	

Office of Facilities Management
Department of Veterans Affairs

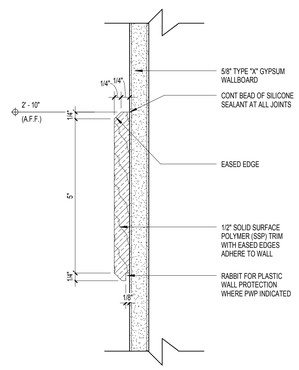
VA FORM 08-6231, OCT 1978



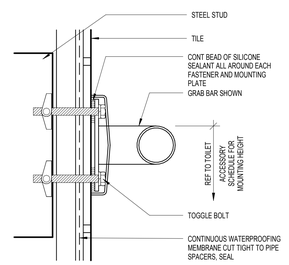
B1 EPOXY COVE BASE
3" = 1'-0"



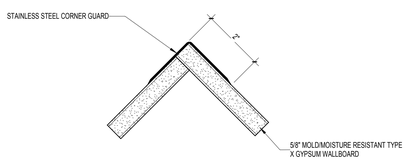
D1 HANDRAIL (HR-2)
6" = 1'-0"



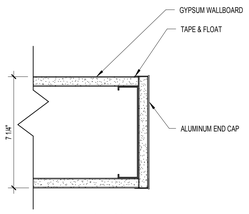
D3 SOLID SURFACE POLYMER (SSP) CHAIR RAIL DETAIL (CR-1)
6" = 1'-0"



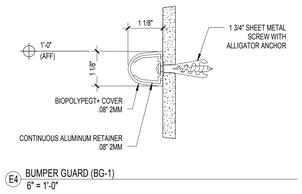
D5 GRAB BAR DETAIL AT TILED WALL
6" = 1'-0"



E1 STAINLESS STEEL CORNER GUARD
6" = 1'-0"

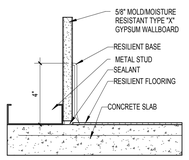


E2 ALUMINUM END CAP (CG-3)
3" = 1'-0"

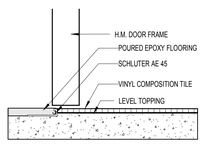


E4 BUMPER GUARD (BG-1)
6" = 1'-0"

E5 SCHLUTER PROFILE
12" = 1'-0"

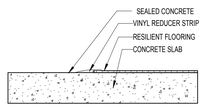


F1 RESILIENT BASE AT RESILIENT FLOORING DETAIL (RB-1)
3" = 1'-0"

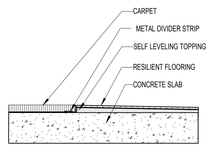


NOTE: FLASH SUBSTRATES SO MATERIALS ARE FLUSH

F2 VINYL TO POURED EPOXY (PE)
3" = 1'-0"

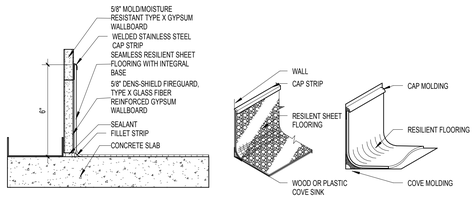


F3 RESILIENT FLOORING TO SEALED CONCRETE
3" = 1'-0"



NOTE: FLASH SUBSTRATES SO MATERIALS ARE FLUSH

F4 CARPET TO RESILIENT FLOORING
3" = 1'-0"



F5 INTEGRAL RESILIENT BASE AT SHEET RESILIENT FLOORING
3" = 1'-0"

FINISH SCHEDULE

FINISH CONTRACTOR MUST REVIEW ALL SPECIFICATIONS AND DRAWINGS PRIOR TO ORDERING MATERIALS AND COMMENCING FABRICATION AND INSTALLATION. MANY ITEMS ARE LONG-LEAD AND SHOULD BE ORDERED PROMPTLY. LOCATION DESCRIPTIONS ARE FOR REFERENCE ONLY AND ARE NOT INDICATIVE OF EVERY OCCURRENCE OF A PARTICULAR FINISH. REFER TO FINISH PLAN FOR EXACT LOCATIONS.

CEILING
MANUFACTURED BY: ARMSTRONG
SALES REPRESENTATIVE: ELLEN FULTON
PHONE NUMBER:610 207 4022

NOTE: WHERE THE FASCIA OF SOFFITS ALIGNS WITH THE ADJACENT PARTITION, PROVIDE 1/2" FRY REGLET REVEAL TO TERMINATE A MATERIAL OR COLOR. ALL SOFFIT FASCIAS ARE TO RECEIVE PAINT, NOT VINYL WALLCOVERING. PLEASE REFER TO THE REFLECTED CEILING PLAN FOR LOCATIONS OF CEILING TILES.

WHEREVER POSSIBLE, GRIDS TO BE CENTERED IN THE ROOM ON THE CENTER LINE OF THE CEILING TILE. INSTALL NO TILE SMALLER THAN 6" WIDE.
COLOR: WHITE, U.N.O.

C-1
STYLE: 15'16" HIGH CAC BEVELED TEGULAR
DIMENSIONS: 2' x 2' x ¾"
COLOR: WHITE
GRID: 15'16" PRELUDE

C-2
STYLE: 15'16" SQUARE LAY IN
DIMENSIONS: 2' x 2' x 3/4"
COLOR: WHITE
GRID: 15'16" PRELUDE

C-3
STYLE: 15'16" WOOD SQUARE LAY IN W/ PERFORATIONS
COLOR: CHERRY
NOTE: SEE SPECIFICATIONS FOR INFORMATION. METAL TRIM FOR USE AT ACOUSTICAL CEILING HEIGHT TRANSITIONS WITHOUT GWB SOFFITS.

C-4
STYLE: GYPSUM WALLBOARD
COLOR: PT-1 U.N.O. ON ELEVATIONS OR RCP

C-5
STYLE: TECHZONE
FIELD: 24" x 24"OPTIMA 3250
TECH PANEL: 6" x 48" 1402
COLOR: WHITE
GRID: 15'16" PRELUDE

PAINT
MANUFACTURED BY: SHERWIN WILLIAMS
SALES REPRESENTATIVE: SHELLY BEEKLEY
PHONE NUMBER:484 875 0343

NOTE: ALL WALLS TO BE EGGSHELL FINISH, U.N.O. TOILET ROOMS ARE TO BE SEMI-GLOSS WATER BASE EPOXY. ALL TRIM AND FRAMES TO BE SEMI-GLOSS FINISH. METAL PANELS TO BE PAINTED TO MATCH ADJACENT WALL. ALL GWB CEILINGS AND SOFFITS TO BE FLAT FINISH, U.N.O. SOFFITS ARE NEVER TO RECEIVE VINYL WALLCOVERING AND FACE AND UNDERSIDE ARE TO BE PAINTED TO MATCH.

PT-1
COLOR: DOVER WHITE
NUMBER: SW6385
FOR USE AS GENERAL PAINT, U.N.O.

PT-2
COLOR: ARTISAN TAN
NUMBER: SW7540
FOR USE AS DOOR FRAME AND TRIM PAINT.

PT-3
COLOR: GARDEN SAGE
NUMBER: SW7736
FOR USE AS ACCENT

PT-4
COLOR: UPWARD
NUMBER: SW6239
FOR USE AS ACCENT

PT-5
COLOR: WINDY BLUE
NUMBER: SW6240
FOR USE AS ACCENT

PT-6
COLOR: ALEUTIAN
NUMBER: SW6241
FOR USE AS ACCENT

PT-7
COLOR: BRACING BLUE
NUMBER: SW6242
FOR USE AS ACCENT

PT-8
COLOR: DISTANCE
NUMBER: SW6243
FOR USE AS ACCENT

PT-9
COLOR: RESORT TAN
NUMBER: SW7550
FOR USE AS ACCENT

EPT-1 (EPOXY)
COLOR: DOVER WHITE
NUMBER: SW6385
FOR USE WHERE INDICATED FOR EPOXY PAINT

PLASTIC LAMINATE
MANUFACTURED BY: WILSONART
SALES REPRESENTATIVE: ROSEMARY LEISTER
PHONE NUMBER: 856 665 2210

PL-1
STYLE: HARVEST MAPLE
NUMBER: 7353-38
INSTALLATION: GRAIN TO RUN IN HORIZONTAL DIRECTION
FOR USE AS GENERAL CASEWORK VERTICAL SURFACES WHERE INDICATED

MANUFACTURED BY: PIONITE
SALES REPRESENTATIVE: BETTY GERULA
PHONE NUMBER: 276 698 6254

PL-2
STYLE: LEAVE LIKATRE
NUMBER: WP120
INSTALLATION: GRAIN TO RUN IN VERTICAL DIRECTION
FOR USE AS CASEWORK VERTICAL SURFACES WHERE INDICATED

QUARTZ SURFACE
MANUFACTURED BY: CAMBRIA
SALES REPRESENTATIVE: ROSEMARY LEISTER
PHONE NUMBER: 856 665 2210

QS-1
COLOR: WINDERMERE
FINISH: MATTE
DIMENSIONS: 56.5" x 120" (TO MINIMIZE SEAMS)
THICKNESS: 2cm (3/4")
EDGE DETAIL: SQUARE
OUTSIDE CORNERS: SQUARE
CLEAR SILICONE SEALANT AT ALL JOINT OR MATERIAL TRANSITIONS

QS-2
COLOR: SUSSEX
FINISH: MATTE
DIMENSIONS: 56.5" x 120" (TO MINIMIZE SEAMS)
THICKNESS: 2cm (3/4")
EDGE DETAIL: SQUARE
OUTSIDE CORNERS: SQUARE
CLEAR SILICONE SEALANT AT ALL JOINT OR MATERIAL TRANSITIONS

SOLID SURFACE POLYMER
MANUFACTURED BY: MEGANITE
SALES REPRESENATIVE: ROSEMARY LEISTER
PHONE NUMBER: 856 665 2210

SSP-1
COLOR: RICE PUDDING 905
FINISH: MATTE
THICKNESS: ½"
EDGE DETAIL: SQUARE
OUTSIDE CORNERS: SQUARE - 3/4" RADIUS
BACKSPLASH EDGE: SQUARE
CLEAR SILICONE SEALANT AT ALL JOINT OR MATERIAL TRANSITIONS

SSP-2
COLOR: BLUE SPRINGS BOULDER 857
FINISH: MATTE
THICKNESS: ½"
EDGE DETAIL: SQUARE
OUTSIDE CORNERS: SQUARE - 3/4" RADIUS
BACKSPLASH EDGE: SQUARE
CLEAR SILICONE SEALANT AT ALL JOINT OR MATERIAL TRANSITIONS

PORCELAIN WALL TILE
MANUFACTURED BY: LAMINAM
SALES REPRESENTATIVE: JAIME CARR
PHONE NUMBER: 215 316 1731

PWT-1
COLOR: NATURALI
STYLE: OSSIDIANA
COLLECTION: VENA CHIARA
DIMENSIONS: 4'x8'
GROUT WIDTH: 1/8"
GROUT COLOR: TO BE SELECTED

GLASS WALL TILE
MANUFACTURED BY: DALTILE
SALES REPRESENTATIVE: SUSAN METKA
PHONE NUMBER: 610 287 2681

GWT-1
COLOR: BLUE GRASS
NUMBER: F190
DIMENSIONS:
GROUT COLOR: TO BE SELECTED

POURED EPOXY
MANUFACTURED BY: STONHARD
SALES REPRESENTATIVE: BOB STEIN
PHONE NUMBER: 610 416 0171

PE-1
STYLE: STONBLEND GSI
COLOR: STONE
FOR USE AS TLT ROOM FLOORS

PEB-1
STYLE: STONBLEND GSI
COLOR: STONE
HEIGHT: 6"
FOR USE AS TLT ROOM WALL BASE

LUXURY VINYL TILE
MANUFACTURED BY: CENTIVA
SALES REPRESENTATIVE: MARILYN SAENZ
PHONE NUMBER: 215 932 2291

LVT-1
COLOR: AMERICAN CHERRY
STYLE: EVENT PLANK
DIMENSIONS: 4" X 36" (STRAIGHT EDGE)

LVT-2
COLOR: MEDITERRANEAN QUARTZITE
STYLE: EVENT STONE
DIMENSIONS: 12" X 18"

LVT-3
COLOR: SEA GRASS LIMESTONE
STYLE: EVENT STONE
DIMENSIONS: 18" X 18"

SHEET VINYL
MANUFACTURED BY: SHANNON SPECIALTY FLOORS
SALES REPRESENATIVE: JIM RENNIE
PHONE NUMBER: 614 889 5345

SV-1
STYLE: PLANK YOU VERY MUCH
COLOR: WALK THE PLANK
NUMBER: PY-42603
WELD ROD: TO MATCH FLOORING

SV-2
COLLECTION: REJUVENATIONS
STYLE: AMBIGU ALCHEMY
COLOR: GINGER
WELD ROD: TO MATCH FLOORING

SV-3
COLLECTION: REJUVENATIONS
STYLE: AMBIGU ALCHEMY
COLOR: GOLDEN
WELD ROD: TO MATCH FLOORING

SVB-1
COLOR: TO MATCH ADJACENT FLOORING
HEIGHT: 6"
TOP CAP: ALUMINUM

RUBBER BASE
MANUFACTURED BY: JOHNSONITE
SALES REPRESENTATIVE: ANGELA CUNNINGHAM
PHONE NUMBER: 215 817 3354

RB-1
STYLE: COVE W/ TOE
COLOR: TOAST
DIMENSIONS: 4" HIGH X 120' COIL

DECORATIVE PLASTIC GLAZING
MANUFACTURED BY: 3-FORM
SALES REPRESENATIVE: ALLISON BIRENBAUM
PHONE NUMBER: 215 606 7016

DPG-1
MATERIAL: VARIA ECORESIN
STYLE: W-RES
COLOR: SO-281306.1
FRONT/BACK FINISH: SANDSTONE
DIMENSIONS: 4'X8' SHEET
GAUGE: 3/8" OR 1/2" AS REQUIRED

DPG-2
MATERIAL: VARIA ECORESIN
STYLE: HUSH
COLOR: GESSO
FRONT/BACK FINISH: SANDSTONE
DIMENSIONS: 4'X8' SHEET
GAUGE: AS REQUIRED

DPG-3
MATERIAL: VARIA ECORESIN
STYLE: W-RES
COLOR: PHOTOGRAPHY TBD
FRONT/BACK FINISH: SANDSTONE
DIMENSIONS: 4'X8' SHEET
GAUGE: 3/8" OR 1/2" AS REQUIRED

CARPET
MANUFACTURED BY: TANDUS
SALES REPRESENTATIVE: RACHEL BAKER
PHONENUMBER: 610 301 5058

CPT-1
COLOR: CASTING BRONZE
NUMBER: 49503
PATTERN: TABLEAU
INSTALLATION: POWER BOND

WALL PROTECTION
MANUFACTURED BY: INPRO
SALES REPRESENTATIVE: ELLEN WARNER
PHONE NUMBER: 610 630 4986

HANDRAIL

HR-1
STYLE: NORTHERN HARDWOODS REAL WOOD
NUMBER: 3500W
FINISH: MAPLE ROYALE
BUMPER COLOR: PYRAMID

PLASTIC WALL PROTECTION

PWP-1
COLOR: PYRAMID
DIMENSIONS: .060" SHEET
FINISH: VELVET TEXTURE
NOTE: RAILROAD MATERIAL TO MINIMIZE SEAMS

BUMPER RAIL

BR-1
STYLE: 200 WALL GUARD
COLOR: PYRAMID
DIMENSIONS: 1 1/8"H
FINISH: VELVET TEXTURE

CORNER GUARD

CG-1
STYLE: STAINLESS STEEL MODEL 180
DIMENSIONS: 1 1/2" X FULL HEIGHT
FINISH: STAINLESS STEEL

CG-2
STYLE: STAINLESS STEEL MODEL 180
DIMENSIONS: 1 1/2" X 4'-0" A.F.F.
FINISH: STAINLESS STEEL

MANUFACTURED BY: GORDON INC.
SALES REPRESENTATIVE: KEITH BUSH
PHONE NUMBER: 215 968 5255

CG-3
STYLE: SERIES 911 END CAP 911-EC-725
DIMENSIONS: 7 1/4"
FINISH: ALUMINUM EXTRUSION

MATERIAL AS MANUFACTURED BY: MEGANITE
SALES REPRESENTATIVE: ROSEMARY LEISTER
PHONE NUMBER: 865 665 2210

CR-1
STYLE: CUSTOM PROFILE
COLOR: TO MATCH SSP-1
DIMENSIONS: 6" H WITH BEVELED EDGES

CUBICLE CURTAIN
MANUFACTURED BY: CARNEGIE
SALES REPRESENTATIVE: DONGHEE ROSSER
PHONE NUMBER: 215 859 0009

CC-1
STYLE: CADENCE
COLOR: 3
WIDTH: 72"
PATTERN REPEAT: 18 1/2"H X 31"V
INSTALLATION: RAILROADED
PERFORMANCE: PASSES NFPA 701, INHERENTLY FLAME RETARDANT, INHERENTLY ANTIMICROBIAL

SOLID PHENOLIC PANELS
MANUFACTURED BY: WILSONART
SALES REPRESENTATIVE: ROSEMARY LEISTER
PHONE NUMBER: 856 665 2210

SPP-1
COLOR: TO MATCH PL-1
THICKNESS: 3/4" (3/8" IN DWS-1)
CLASS A, FIRE RATED
INSTALLATION: Z-CLIPS OR DWS AS NOTED

SPP-3
COLOR: BRITTANY BLUE D321-60
THICKNESS: 3/8"
CLASS A, FIRE RATED
INSTALLATION: DWS-1

MANUFACTURED BY: TRESPA
SALES REPRESENTATIVE: MIKE SOPRANI
PHONE NUMBER: 610 291 7800

SPP-2
STYLE: ATHLON
COLOR: POLAR E25-011QZ
THICKNESS: 3/8"
INSTALLATION: DWS-1

DECORATIVE WALL SYSTEM
MANUFACTURED BY: WALL PANEL SYSTEMS
SALES REPRESENTATIVE: MIKE SOPRANI
PHONE NUMBER: 610 291 7800

DWS-1
STYLE: SHADOWLINE RECESSED REVEAL
OUTSIDE CORNERS: SQUARE
FINISH: CLEAR SATIN ANODIZED
PANELS: SPP-1 U.N.O.
THICKNESS: 3/8"
CLASS A, FIRE RATED

TRIM
MANUFACTURED BY: SCHLUTER
SALES REPRESENTATIVE: DALE KREIDER
PHONE NUMBER: 717 269 0516

PM-1
STYLE: JOLLY
FINISH: ANODIZED ALUMINUM ATGB
FOR USE AT GWT-1

TACKBOARD
MANUFACTURED BY: FORBO
SALES REPRESENTATIVE: DENISE WAIDA-SCANISH
PHONE NUMBER: 609 254 6219

STYLE: BULLETIN BOARD
COLOR: BEIGE
NUMBER: 2187

WINDOW TREATMENT
MANUFACTURED BY: LUTRON
SALES REPRESENTATIVE: JAMIE BALLEK
PHONE NUMBER: 610 509 8362

WT-1
COLLECTION: CLASSICO COLLECTION
STYLE: BASKETWEAVE MA
COLOR: LINEN LINEN
NUMBER: 52020-M-
INSTALLATION: MANUAL W/ VALANCE
VALANCE: CLEAR ANODIZED

WT-2
COLLECTION: CLASSICO COLLECTION
STYLE: BASKETWEAVE MA
COLOR: LINEN LINEN
NUMBER: 52020-M-
INSTALLATION: MANUAL W/ VALANCE
INSTALLATION: MOTORIZED WITH VALANCE
VALANCE: CLEAR ANODIZED

FULLY SPRINKLERED
ISSUED FOR BID

Revisions	Date

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Project Number	Scale
3659	As indicated

Drawing Title: FINISH DETAILS & SCHEDULE

Project Title: EXPAND EXISTING ONCOLOGY

VA Project Number: 693-11-122

Building Number: 1 & 27

Approved: Project Director

Location: 1111 EAST END BLVD, WILKES-BARRE, PA 18711

Date	Checked	Drawn
04/17/2013	WJ	NW

Drawing Number: AF-401

Dwg. 29 of 79

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978